

KING COUNTY

1200 King County Courthouse 516 Third Avenue Seattle, WA 98104

Signature Report

July 11, 2006

Motion 12312

	Proposed No. 2006-0265.2 Sponsors Ferguson
1	A MOTION accepting the report, King County Regional
2	Automated Fingerprint Identification System, The Future
3	of AFIS including AFIS Initiatives 2007-2012, dated May
4	15, 2006.
5	
6	
7	WHEREAS, the county values the automated fingerprint identification system
8	("AFIS") as an integrated, regional crime-solving tool; and
9	WHEREAS, the AFIS program is advised by the AFIS Advisory Committee
10	(:AAC"), and
11	WHEREAS, the AAC and its technical subcommittee acknowledges the need to
12	ensure that the regional AFIS program continues to meet the needs of the community an
13	industry performance standards, and
14	WHEREAS, the AFIS program has undertaken an extensive review of the
15	regional AFIS program including, staffing, performance outcomes, technology and
16	needed enhancements for the future;
17	NOW, THEREFORE, BE IT MOVED by the Council of King County:

18 The report, King County Regional Automated Fingerprint Identification System, 19 The Future of AFIS including AFIS Initiatives 2007-2012, dated May 15, 2006, 20 Attachment A to this motion, is hereby accepted. 21 22 Motion 12312 was introduced on 6/12/2006 and passed as amended by the Metropolitan King County Council on 7/10/2006, by the following vote: Yes: 9 - Mr. Phillips, Mr. von Reichbauer, Ms. Lambert, Mr. Dunn, Mr. Ferguson, Mr. Gossett, Ms. Hague, Ms. Patterson and Mr. Constantine No: 0 Excused: 0 KING COUNTY COUNCIL ATTEST: Anne Noris, Clerk of the Council Attachments A. King County Regional Automated Fingerprint Identification System - The Future of AFIS including Initiatives 2007-2012 May 15, 2006

Altachment A



2006-265 123124

KING COUNTY REGIONAL

AUTOMATED
FINGERPRINT
IDENTIFICATION
SYSTEM

THE FUTURE OF AFIS
INCLUDING INITIATIVES 2007-2012
MAY 15, 2006







THANK YOUS AND REPORT CONTRIBUTERS

This Automated Fingerprint Identification System (AFIS) Program Report represents a collaborative and cooperative work of many members from King County, local jurisdictions, and the criminal justice system.

In particular, we would like to thank the staff from the Regional AFIS Program who provided information and dedication to the project on extremely short and difficult timeframes, specifically, Marilyn Nault, Marc Olson, Carol Gillespie, Diana Watkins, Jeri Eaton, Donna West, Won Boon Park, Jim Jorgensen, Robin Barrow, Laurie Ordonia, Maris Catalano, Rita Etter, Alan Christensen, Kimberly Petty, Alyne Hansen, Brad Ridgeway, Theresa May, Russell Barrett, Charlotte Dazell, Dylan Joy, Debi Walker, and Margielize Villaceran. Their passion for AFIS and their ability to communicate their program to those not in the forensic world was invaluable.

The Regional AFIS Advisory Committee for their dedication to using forensic fingerprint evidence to assist in solving crimes in King County and for their leadership and oversight of the ongoing Regional AFIS Program.

The Regional AFIS Technical Subcommittee members gave willingly and extensively of their time to understand the nuances of the enhancements proposed and to offer their expertise in validating the future of AFIS under very tight timeframes.

Bob Cowan, Director of the Office of Management and Budget for his willingness to commit substantial staff time to this project, specifically Toni Rezab, Alma Contreras, JoAnne Bragg, and Chris Bushnell (Haugen). Their willingness to facilitate and lead meetings, prepare briefings, as well as providing substantial financial research and costing support was greatly appreciated.



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EXECUTIVE SUMMARY

The purpose of this report is to provide policy and financial direction for the future of the Regional Automated Fingerprint Identification System (AFIS) Program in King County. The plan contains the recommendations from the AFIS Advisory Committee (AAC) and reflects the collaborative efforts of regional partners in criminal justice and the Regional AFIS staff.

AFIS is the *voter-approved, levy-funded*, countywide Regional Automated Fingerprint Identification System Program; a valuable public safety tool that quickly assists criminal justice agencies to fingerprint and identify arrested individuals or suspects of crimes. The AFIS Program was established as a regional system in 1988, and in 1992 was expanded to a 24-hour a day, 7 days a week operation.

The Program's primary functions are to:

- 1. CAPTURE fingerprints from suspects, to
- 2. STORE fingerprints in databases, to
- 3. SEARCH AND IDENTIFY individuals from fingerprints in order to
- 4. SOLVE CRIMES by identifying prints left at crime scenes, and to
- 5. SHARE fingerprint and arrest data with other jurisdictions.

Since the inception of AFIS, more crimes with unidentified suspects have been solved. Capturing finger and palm prints from every subject booked into jail, storing those fingerprints in an electronic database, and using those prints to match against prints left behind at crime scenes have enabled police detectives to solve many crimes where the detectives have had no known suspects.

How far AFIS has come	Prior to AFIS Program (1988)	In 2005
Crimes solved by identification of fingerprints without a suspect (cold hits) (17,141 Cold Hits made since inception in 1988 through December 2005)	0	1,770
Number of inmates fingerprinted at King County Jails	< 50%	100%
Percent of inmates giving false name at jail booking correctly identified prior to release from custody	1%	96%
Average turnaround time from jail booking to identification	2-4 weeks	1.4 hours



How far AFIS has come continued	Prior to AFIS Program (1988)	In 2005	
Percent of fingerprints taken and submitted using Live Scan Capture Stations*	0%	97%	
Electronic fingerprint search capabilities via networking**	None	Access to millions	

^{*} Jurisdictions without direct access to Live Scan Capture Stations in 2005 include: Algona Police Department; Black Diamond Police Department; Clyde Hill Police Department; Enumclaw Police Department; Medina Police Department; Normandy Park Police Department; Pacific Police Department; Snoqualmie Department of Public Safety; University of WA Police Department. However, each of the agencies who have been granted a Live Scan Capture Station must agree to share that Capture Station with other jurisdictions so that every jurisdiction has access to a Live Scan Capture Station. (See Appendix F)

** Networks include the FBI, Washington State Patrol, and Western Identification Network.

RECOMMENDATIONS FOR FUTURE AFIS

Mission and Goals for AFIS

During its 18-year history, the original intent of the Regional AFIS Program was to provide a database of fingerprints to solve crimes. AFIS employees learned early on that the capture of quality fingerprints is integral to a successful database. As such, the Regional AFIS Program has grown to prioritize the collection of quality fingerprints. Paramount to the mission is the rapid identification of persons arrested, booked or adjudicated for adult and juvenile offenses. With advances in technology, the future holds great promise for more sophisticated integration with other local, state and national criminal justice systems. The progression of the Regional AFIS Program shows that its mission and goals must remain dynamic to meet these emerging demands and opportunities. The following mission statement was adopted in 1996 by the AFIS Advisory Committee to reflect these themes.

AFIS Mission

To provide timely, efficient, and quality fingerprint identification services in support of local criminal investigations through a countywide system linked to state and national fingerprint and criminal history databases.

AFIS Goal Statements

- I. Obtain the highest quality fingerprints for the AFIS Database
- II. Capture as many prints as legally permissible in the AFIS Database
- III. Support timely identification of individuals (adult and juvenile)
- IV. Provide training for King County Sheriff's Office, Seattle Police Department, and suburban police to take ten-prints and lift crime scene (latent) prints with the highest possible quality and give expert testimony



- V. Increase awareness of the Regional AFIS Program to the criminal justice community
- VI. Improve ease of access for local law enforcement agencies to AFIS
- VII. Support criminal investigations by expeditiously processing latent prints (aspire to the fastest possible turnaround time for processing latent prints)
- VIII. Support electronic arrest reporting from the originating agency throughout the system
- IX. Support consistent, complete, accurate and non-duplicative criminal history reporting
- X. Upgrade AFIS equipment in a manner that is consistent with enhancing links to the Washington State Patrol and the Western Identification Network and that supports emerging regional and national standards
- XI. Adhere to state and national standards for technical and operational aspects of fingerprints

The AFIS Advisory Committee recommends continuation of the adopted Mission and Goals for the AFIS Program.

Initiatives 2007-2012

The AFIS Advisory Committee reviewed a set of initiatives to meet the continuing technological and operational needs of the community. The events of 9-11, the court mandate for greater forensic scientific standards, the more mobile nature of the County's population, and technological advancements have necessitated a review of existing AFIS technology. As a part of this evaluation process, the AFIS Advisory Committee received input from experts, law enforcement stakeholders, and end-users. The process was exhaustive and identified many potential enhancements. In the end the committee supported the core enhancements necessary for the Regional AFIS Program to remain efficient, effective, and current with industry and professional standards.

Based on:

- The need to enhance existing programs to meet emerging community needs;
- The need to maintain or improve current systems for the collection and identification of suspects in King County to meet emerging standards;
- Reviewing the performance, finances, and corresponding operations of the Regional AFIS Program; and
- Recognizing that the implementation of the initiatives is dependent on future funding.

¹ See Appendix D.



The AFIS Advisory Committee recommends the following initiatives for the years 2007-2012²:

- Implementation of a New Generation Computer, replacing the existing AFIS Computer;
- Upgrade the current Live Scan Capture Stations to capture data at higher resolution;
- Increase the current inventory of Criminal Live Scan Capture Stations by five units to address remaining gaps in service in the region;
- Implement Palm Searching and Storage capabilities, converting current master card inventory to an electronic database, and adding three positions to search, capture, and identify palm prints left at crime scenes;
- Increase staffing in conjunction with increases in workload ensuring that staffing levels will be re-evaluated annually in the budget cycle based on available funding;
- Implement a "Court Identification Feasibility Study" to consider the legal, financial, and operational policies and needs of the court system to identify and collect fingerprints from defendants;
- Establish the infrastructure to ensure that King County law enforcement entities which implement wireless Mobile Identification can access and communicate with the Regional AFIS computer;
- Add two AFIS Photographers to photographically process and preserve finger and palm print evidence recovered from crime scenes;
- Pilot a three-unit Court Identification Project based on the outcome of the Court Identification Feasibility Study;
- Pilot a ten-unit Mobile Identification Study in order to ensure different wireless vendors can communicate with the AFIS Computer and access the AFIS Database.

² See page 26 for an Overview of the 2007-2012 Initiatives



Future Funding of AFIS - Dedicated Property Tax

The Revised Code of Washington (RCW) 84.520.043 allows jurisdictions to levy a property tax; King County can increase a levy with voter approval under RCW 84.55.050. In King County, the Regional AFIS Program is a countywide, levy-funded program and requires voter approval every levy period.

The AFIS Levy is a regular property tax and is subjected to the growth limitations contained in RCW 84.52.050 which limits the rate of growth in AFIS Levy revenue by one percent plus the prior years' new construction even if assessed values increase at a higher rate.

Based on:

- Valuing the AFIS service as an integrated regional crime solving tool;
- The Regional AFIS Program being a voter- approved, levy-funded program since inception in 1988;
- An extensive review of the Regional AFIS Program including staffing, performance outcomes, technology, and needed enhancements for the future; and
- Ongoing stable funding is required to ensure a consistent regional automated fingerprint identification system.

The AFIS Advisory Committee recommends as its first choice:

• Financial projections based on the implementation of the 2007-2012 initiatives indicate an AFIS permanent statutory levy rate of 5.25 cents per \$1,000 of assessed value for the foreseeable future.

In the event that a permanent statutory levy is not viable, the AFIS Advisory Committee puts forth as its second choice:

• Financial projections based on the implementation of the 2007-2012 initiatives indicate an AFIS statutory levy rate of 5.33 cents per \$1,000 of assessed value for the period of 2007-2012 under RCW 84.55.050 (3) (b) for the multi-year lid lift.

Periodic Review

In recognizing the importance of continuing oversight and evaluation, the AFIS Advisory Committee believes a periodic review is integral to the Regional AFIS Operations. The AFIS Advisory Committee has a continuing commitment to ensure this program is run efficiently and effectively.

Based on:

Acknowledging that the annual work plan is adopted by the King County Council



through the annual budget process;

- Acknowledging the need to ensure that the Regional AFIS Program continues to meet the needs of the community and industry performance standards; and
- Ensuring the continued challenge to meet "best practices" in the fingerprint community.

The AFIS Advisory Committee recommends:

- If the King County voters approve a permanent funding source for the Regional AFIS Program, then every five years the Regional AFIS Program management staff would prepare a comprehensive review of the Program including, at a minimum, staffing, emerging issues, evaluation of workload, and industry best practices.
- If the King County voters approve a six-year levy funding source for the Regional AFIS Program, then AFIS Program management staff would prepare a comprehensive review of the Program upon commencement of the renewal or replacement of the funding stream addressing, at minimum, staffing, emerging issues, evaluation of workload, and industry best practices.
- In addition, the Regional AFIS Program management staff will prepare an update to this review and subsequent comprehensive reviews on an annual basis including, at a minimum, system performance measures and status of the plan initiatives.



INTRODUCTION

The King County Regional Automated Fingerprint Identification System (AFIS) Program is funded by a voter–approved levy³ and provides a technical platform for fingerprint identification services throughout the county with links to other state, regional, and federal databases. The program allows the King County Sheriff's Office (KCSO), its Contract Cities, the Seattle Police Department (SPD), and the Suburban Police Departments within the county access to fingerprint identification information. Central to the program is the AFIS Database and Image Archive System housed at the King County Sheriff's Office and shared by Seattle Police Department and Bellevue Police Department through remote workstations. The King County Regional AFIS Computer was first implemented in 1988, with a "Year 2000" upgrade in 1999.

The current AFIS 2000-2005 Levy⁴ expired on December 31, 2005. Careful management of funds, combined with slightly higher than expected revenues, allowed the Regional AFIS Program to meet its operational costs for an additional year, through December 2006, without additional levy revenues. Effective, January 2007, the AFIS program will require a renewal or other dedicated funding source for continuation of this critical forensic tool.

AFIS PLANNING PROCESS

In November 2005, the AFIS Advisory Committee (AAC)⁵ commissioned the Technical Subcommittee (TSC)⁶ to review the operations of the Regional AFIS Program, and to recommend to the AAC a set of prioritized programs and enhancements to meet emerging community needs and current standards for the collection and identification of suspects in King County.

The TSC met a total of nine times over the period from December 2005 through March 2006. The TSC reviewed in detail each proposed initiative item for the Regional AFIS Program, challenging the assumptions, timing, financial implications, and relevance to the AFIS System. The TSC put forth a set of enhancements to status quo, categorized by funding ranking, to the AAC for its final recommendation⁷.

In addition to the TSC, the AAC also received information from an extensive stakeholder outreach process. All AFIS users were surveyed about Live Scan operations and latent

³ See Appendix A for AFIS Levy history.

⁴ See Appendix A for AFIS Levy history.

⁵ AAC is includes membership from Seattle, Suburban Cities, and King County, See Appendix B for a membership list.

⁶ TSC was commissioned by the AAC and included membership from Seattle, Suburban Cities, and King County. See Appendix C for a membership list.

⁷See Appendix D for TSC Summary of Themes and Funding Priorities.



service operations8.

The AFIS users were asked four questions:

- In relation to AFIS, are there any gaps in service that you have recognized? What are they?
- What is the top thing public and policy makers need to know about AFIS? Why?
- Anything that you, as AFIS users, want to know about AFIS?
- Are there any other enhancements/changes to AFIS that you feel would be important to pursue in the future?

Lastly, the levy planning process included a review of all proposed technological enhancements by the King County Chief Information Officer. His review found no areas of concern with the technological planning effort underway, noting that all the technology solutions would be implemented in compliance with national standards.

⁸ The full survey responses can be found in Appendix E



AFIS BACKGROUND

STRUCTURE OF AFIS

The program's primary functions are to:

- 1. CAPTURE fingerprints from suspects,
- 2. STORE fingerprints in databases,
- 3. SEARCH AND IDENTIFY individuals from fingerprints in order to
- 4. SOLVE CRIMES by identifying prints left at crime scenes, and
- 5. SHARE fingerprint and arrest data with other jurisdictions in order to build more complete criminal histories that will aid in crime solving and prosecution.

The following sections provide information on the operational details of each of the operational units that support these five functions of the Regional AFIS Program and the Administration Team that directs and organizes the program.

CAPTURE Fingerprints from Suspects

Live Scan is a means of capturing fingerprints and other identifying arrest data electronically; then transmitting it directly into local, state, and federal identification systems for processing. The first 22 Live Scan Capture Stations were installed in the year 2000. In 2005, the King County Regional AFIS Program supports 34 active Live Scan Capture Stations located throughout the county, eleven of which are capable of electronic palm capture. Of King County's total volume of fingerprint submissions into the AFIS Database, 97% are transmitted via Live Scan. More than 80,000 Live Scan prints were taken at all sites in 2005. The remaining 3% of fingerprint submissions were received from Suburban Cities that capture inked prints, which are either mailed or submitted via fax for quick response on questionable identities.

King County Regional Jail Identification Unit

Six of the highest-volume Live Scan Capture Stations make up the King County Regional Jail Identification Unit, located at three county detention sites: the King County Correctional Facility in Downtown Seattle, the Regional Justice Center in Kent, and the Youth Services Center (Juvenile Detention) in Seattle. The Jail Identification Unit takes fingerprints, palm prints, and mug shots for all agencies that book suspects into these locations, including the Seattle Police Department. They also take DNA samples for certain offenses, as required by state law. The first goal of the Jail Identification Unit is to print 100% of inmates, so that the King County Sheriff Office (KCSO) and/or Seattle Police Department (SPD) Ten-Print Unit can identify them before they are released from custody.

⁹ See Live Scan Electronic vs Inked Fingerprint Submittals by Agency, Appendices F and G.



The second goal of the Jail Identification Unit is to take the highest quality prints possible, capturing as much clear ridge detail as possible for the AFIS Database. Establishing expertise in fingerprinting has far-reaching effects. Staffing the jails with fully trained, dedicated AFIS personnel has improved the quality of the King County Regional AFIS Database, which has increased the possibility for "hits." In turn, this ultimately increases warrants served on persons using false names ("liars" 11), and crime scene cases solved by the Latent Print Units.

The King County Regional Jail Identification Unit consists of two Supervisors and 24 Identification Technicians.

In 2005, Identification Technicians took fingerprints and mug shots of 59,243 booked individuals. The Jail Identification Unit successfully obtained 100% of all available fingerprints from the King County Corrections Facilities, Youth Services Center, and the Regional Justice Center. Per state mandate, the Unit collected 2,138 DNA samples of in-and out-of-custody convicted felons and gross misdemeanants.

STORE Fingerprints on Databases

The infrastructure of the AFIS mainframe computer consists of three AFIS Databases and an Image Archive System that is housed at a Central Site within the Technical Services Division of the KCSO, and shared by the SPD and Bellevue Police Department through remote workstations.

- The <u>Ten-Print Database</u> currently stores thumbprints only for criminal or applicant searches. At last count, over 1,096,000 thumbprints (548,000 individual's records times two thumbs each) are registered in the AFIS Ten-Print Database.
- The Latent Cognizant Database is a repository containing all ten fingerprints for searching against crime scene or "latent" fingerprints. Both the Ten-Print and Latent Cognizant Databases include adult and juvenile criminal arrests, as well as any applicant prints allowed under RCW (taxi drivers, concealed weapons license applicants, criminal justice employee applicants, entertainers, etc.) It does not include applicant prints that must be collected for a background search, but excluded from storage (teachers, real estate agents, etc.). The Latent Cognizant Database is five times larger than the Ten-Print Database at 5,480,000 fingerprints.
- The <u>Unsolved Latent Database</u> stores unidentified latent prints retrieved from crime scene evidence. When new people are printed, their fingerprints are added to the Latent Cognizant Database and are searched against the Unsolved Latent Database to generate additional matches from the stored crime scene latent prints.

[&]quot;Hit" refers to a positive identification match between an AFIS-searched latent print and its corresponding AFIS Database fingerprint.

^{11 &}quot;Liars" refers to people who use false names



At last count, there were over 32,000 prints in the Unsolved Latent Database.

Status Quo AFIS Technology consists of workstations for ten-print and latent print activities, and the Central Site AFIS Computer with its supporting infrastructure. Currently, KCSO and SPD utilize five Ten-Print Workstations (three at KCSO and two at SPD) for the purpose of receiving electronic fingerprints from Live Scan Capture Stations, searching and analyzing fingerprints, and notifying Live Scan Sites of positive identifications or "hits." Four Latent Workstations (two at KCSO, one at SPD, and one at Bellevue PD) are used for searching and analyzing latent prints from evidence and/or crime scenes.

The Central Site equipment is responsible for workflow management, including editing and updating arrest information, and electronically transmitting the records to Washington State Patrol (WSP), which subsequently transmits the records to the Federal Bureau of Investigation (FBI) for addition to the state and federal rap sheets (criminal history records).

Palm prints are collected in ink at the Jail Identification Unit. The Jail Identification Unit and four other high-volume suburban agencies have access to a Live Scan Capture Station that is capable of taking electronic palm prints, but those palms must be printed out for filing because no search or storage capability exists for electronic palm images. In the current AFIS System, palm prints are paper hard copies manually stored in filing cabinets until crime scene latent prints are submitted with a named suspect.

SEARCH AND IDENTIFY Individuals from Fingerprints

"Ten-Print" refers to the complete set of fingerprint impressions of the first joint area of all ten fingers, typically captured when a suspect is taken into police custody. The Ten-Print Identification Units complete all of the comparisons of fingerprints and verification of identity. In order to positively identify an individual, a search is made first by comparing the thumbprints taken at the Live Scan Capture Stations to the prints in the AFIS Ten-Print Database. AFIS uses the unique arrangement of ridge characteristics on a fingerprint to compare it to the known prints on file. The computer quickly produces a list of possible matches, usually in less than a minute. After the AFIS Computer provides a list of possible matches, a Ten-Print Identification Technician reviews the electronic (or inked) prints to make the final determination of whether the two fingerprints are a positive match. Suspects frequently give false names upon arrest, usually in an attempt to avoid outstanding warrants or to hide a criminal record that might prevent release from custody. Positive fingerprint identification reveals additional aliases and can verify conclusively whether the suspect is wanted in connection with other crimes.

<u>King County Sheriff's Office and Seattle Police Department Ten-Print Units</u>

The Ten-Print Units' main objective is to positively identify inmates prior to release from custody. It also ensures the subjects can be held responsible for any outstanding warrants



obtained in other names given at the time of previous arrests.

The AFIS Ten-Print Operation consists of the KCSO Ten-Print Unit that is located in the King County Courthouse, and the SPD Ten-Print Unit that is located in the Seattle Justice Center. Both Units operate on a 24-hour, 7-day a week basis. In 2005, with Live Scan technology, the KCSO and SPD Ten-Print Units identified booked inmates within an average of 1.4 hours, usually within 18 minutes. For the year, the AFIS Ten-Print Units searched 90,091 inquiries, which included searches for all 39 cities in King County as well as Unincorporated King County.

Of the prints searched through the King County Regional AFIS Database, 59,243 were for King County Jail bookings. The total number of ten-print inquiries resulted in 1,058 individuals who had given false names ("liars). At least 302 of these were found to have outstanding wants/warrants equaling \$3,236,220, plus 128 "No Bail" felony warrants.

The Ten-Print Units are also responsible for establishing and maintaining criminal history record information. By RCW, arrest information, accompanied by fingerprints, is to be sent to WSP within 72 hours of an individual's arrest. This information is then forwarded to the FBI.

The KCSO Ten-Print Unit also takes prints allowed under RCW, such as sex offenders, applicants, teachers, taxi drivers, and entertainers. However, only those prints allowed by law to be stored are registered into the AFIS Databases.

The AFIS-funded Ten-Print Unit staffing consists of:

	Supervisor	Identification Technician	Data Specialist Supervisor	Data / Administrative Specialist	Total
KCSO	1	15	1	12	29
SPD	2	10		9	21 .

In addition to the responsibilities mentioned above, the Ten-Print Units run many other types of inquiries and perform a variety of functions. These include but are not limited to:

- Fingerprinting individuals and/or receiving prints (via Live Scan or fax) upon request by police departments, at all hours, when an identity is in question. Includes out-of-county and out-of-state requests.
- Testifying to fingerprint comparison results in a court of law.
- Assisting any local, state, or federal law enforcement entity, the courts, and identity theft victims to correct records, verify warrants, and resolve problems.
- Processing evidence from property crimes and/or auto thefts for latent prints.
- Searching and processing applicant fingerprints for concealed weapons licenses, criminal justice employment, and other application purposes.
- Identifying deceased persons by fingerprints for the Medical Examiners Office.



- Taking and processing fingerprints of unidentified patients at Harborview Medical Center.
- Establishing criminal history records on arrestees, including notifying WSP and the FBI of arrest information.
- Registering convicted sex offenders

SOLVE CRIMES by Identifying Prints Left at Crime Scenes

AFIS is crucial in identifying fingerprints left at crime scenes, known as latent (hidden) prints, in the attempt to solve crimes. The fingerprint expert uses a variety of powders, chemicals, lighting, and photographic techniques to make a latent print visible on physical evidence, and then records it permanently. Specially trained Latent Print Examiners search the latent fingerprint against the AFIS Database in an attempt to identify the person whose print was left at the crime scene.

In order to prepare a latent fingerprint for an AFIS inquiry, the examiner digitally scans a latent "lift" or a photograph of a latent print from physical evidence into a personal computer and enhances the image by adjusting the properties of the image, such as contrast, color, and density. The Latent Print Examiner traces out the ridges including the identifying characteristics using specific graphic techniques and then makes a printout of the tracing to initiate a search against the AFIS Database. The computer produces a list of possible matches, which are compared by the Latent Print Examiner for positive identification. In the event of a "hit," the Latent Print Examiner verifies the "hit" by checking the latent print against the corresponding inked or Live Scan-captured Ten-Print Card and notifies the detective in charge of the case. If a match is not found, the latent print is then registered to the Unsolved Latent Database. This database is searched every time a new Ten-Print Fingerprint Card is added.

Since the AFIS Computer went online in 1988, a total of 17,141 latent fingerprints have been identified through 2005.

King County Sheriff and Seattle Police Latent Print Units

The objective of the Latent Print Units is to search all AFIS quality latent fingerprints through the system and report back to the detective the results within 30 days. In 2005, the Latent Print Units met and beat this objective with a turnaround time of three weeks.

^{12 &}quot;Lift" refers to dusting the latent print with powder to make it visible, and then lifting it with tape

¹³ Latent fingerprints are submitted to AFIS in two ways. Officers either submit lift cards, which are fingerprints the officers have lifted at the crime scene, or they submit physical evidence from crime scenes. Physical evidence can consist of any object found at the crime scene, such as guns, soda cans, tools, clothing, paper, etc. Lift cards are the result of evidence having already been processed at the crime scene and latent prints developed. Physical evidence submitted to the laboratory can require extensive processing in order to develop finger and palm prints, which may need to be recorded through photography for analysis and search purposes.



Also included in the 30-day turnaround time are comparisons of latent prints to named suspects in a case. This is crucial when there are only latent palm prints in the case because the current AFIS Computer does not have palm search capability.

Work is generated in the Latent Print Units by the submission of evidence and latent lift cards from Latent Print Examiners, Detectives, and/or Officers from their respective police departments. SPD handles incoming work from its police department and for the University of Washington PD. KCSO handles incoming work from its precincts, contract cities, and all suburban police departments. The only exception is the Bellevue Police Department, which has opted to handle its own latent workload and has been provided with a Latent Workstation through the Regional AFIS Program.

In 2005, the Regional AFIS Latent Print Units received 10,646 incoming case submissions:

- 1,994 King County Sheriff Office cases
- 4,354 Seattle Police Department cases
- 2,097 Contract City cases
- 2,201 Suburban Police Department cases

As a part of processing these case submissions:

- 7,135 latent inquiries were made into King County Regional AFIS Latent Cognizant Database
- 13,186 searches were made into other systems⁵
- A total of 3,253 suspects were positively identified from latent prints
 - 1,770 AFIS "cold" hits were identified (where a suspect name was not available)
 - 1,483 manual identifications were made (where a suspect name was available)
- 161 crime scene call-outs were completed

The AFIS-funded Latent Print Units staffing consists of:

	Latent Print Supervisor	Latent Print Examiner	Administrative Supervisor	Administrative Specialist	Total
KCSO	1	16	1	6	24
SPD	1 .	11		2	14

In addition to the duties stated above, Latent Print Examiners perform a variety of tasks, including some or all of the following:

⁵ Other systems include: Washington State Patrol (WSP), Federal Bureau of Investigations (FBI), California Department of Justice, Orange County Sheriff's Office, and Western Identification Network (WIN)



- Assisting major crime detectives in locating possible prints and markings on deceased bodies with the use of an alternate light source.
- Assisting the Medical Examiners Office in obtaining and identifying partial ridge detail from deceased persons.
- Training deputies and officers in proper procedures for the recovery and handling of latent prints.
- Two Latent Print Examiners are hazardous materials-trained to process clandestine drug labs.
- · Testifying in court regarding latent print findings.
- Assisting detectives from local, state, and federal law enforcement agencies in processing evidence with chemicals, alternate light source, and photography for trace, latent, and patent (blood) prints.
- Training Identification Technicians in processing evidence from property crimes and/or auto thefts.
- Photographing evidence and/or latent prints.

SHARE Fingerprint and Arrest Data with Other Jurisdictions

The AFIS Computer communicates with Washington State Patrol (WSP) and through them with the Federal Bureau of Investigation (FBI), to add the latest arrest information to the individual suspect's criminal history record (rap sheet). WSP and the FBI will only accept this information for entry to the rap sheet if it is accompanied by verifiable fingerprints. By RCW, arrest information and fingerprints must be sent to the WSP within 72 hours of an arrest. The King County Regional AFIS Program was unable to meet this timeline prior to Live Scan Technology implementation. Currently, on average, it takes under two hours from the time a person is booked for their arrest record to be transmitted to WSP.

When local searches are unsuccessful, fingerprint experts in the Ten-Print and Latent Print Units are also able to electronically search other databases, such as those at WSP, FBI, California Department of Justice, Orange County (California) Sheriff's Office, and the Western Identification Network.

Courts, correctional facilities, law enforcement agencies, businesses, and citizens also rely on AFIS data to identify criminal history information for multiple purposes:

- Sentencing and release considerations
- Determination of public and officer safety threats
- Police investigations
- Hiring considerations (i.e., teachers, healthcare workers, or other occupations requiring unsupervised work with children, handicapped individuals, and the elderly).



Administrative Team

In order to accomplish the five functions of AFIS, there is an Administrative Team whose objective is to:

- Ensure all participants within the Regional AFIS Program are meeting their objectives of completing workload in a timely manner with the utmost quality, accuracy, and service provided to customers.
- Manage the acquisition, budget, maintenance, and use of AFIS and Live Scan Technology throughout the county. Ensure vendor compliance with all contract requirements.
- Ensure that all technology and procedures comply with State and National Standards.
- Create the foundation for future regional information-sharing projects.
- Optimize communications between KCSO, SPD, and Suburban Police Departments.
- Ensure telecommunications and networking needs are met for the County and State Intergovernmental Networks as well as for the local police departments.
- Coordinate and provide technical training and helpdesk support for all AFIS/Live Scan customers throughout the county.

The AFIS-funded Administrative Team staffing consists of:

	Regional AFIS Program Manager	Admin Support	Project and Operations Managers	IT/Network Admin	Customer Training and Support	Total
KCSO	1	3	3	1	2	10
SPD	1	. 1				2



THE FUTURE OF AFIS 2007 FORWARD

MISSION AND GOALS

During its 18-year history, the original intent of the Regional AFIS Program was to provide a database of fingerprints to solve crimes. AFIS employees learned early on that the capture of quality fingerprints is integral to a successful database. As such, AFIS has grown to prioritize the collection of quality fingerprints. Paramount to the mission is the rapid identification of persons arrested, booked or adjudicated for adult and juvenile offenses. With advances in technology, the future holds great promise for more sophisticated integration with other local, state and national criminal justice systems. The progression of the Regional AFIS Program shows that its mission and goals must remain dynamic to meet these emerging demands and opportunities. The following mission and goals were adopted in 1996 to reflect these themes.

Mission

To provide timely, efficient, and quality fingerprint identification services in support of local criminal investigations through a countywide system linked to state and national fingerprint and criminal history databases.

Goals

- II. Capture as many prints as legally permissible in the AFIS Database

 The success of the Regional AFIS Program is largely dependent upon developing a comprehensive database of fingerprints. Consequently, it is a goal to capture to the extent feasible the fingerprints for all persons arrested, detained, and/or convicted.
- III. Support timely identification of individuals (adult and juvenile)

 Experience has shown that repeat offenders frequently use aliases. Timely identification is critical to avoid releasing a person with other serious matters pending. Maintaining and shortening the time needed to identify inmates remains a goal.
- IV. Provide training for King County Sheriff's Office, Seattle Police Department, and suburban police to take ten-prints and lift crime scene (latent) prints with the highest possible quality and give expert testimony

 For most cases, police officers and local technicians will be responsible for gathering evidence, including latent fingerprints, at crime scenes. A worthwhile



investment is to continue to provide these staff with appropriate training on how AFIS operates and the techniques in taking ten-prints and lifting crime scene prints.

- V. Increase awareness of AFIS to the criminal justice community

 Similar to training, it is important that police officers and their command staff understand the available AFIS services and how these services can assist them in identifying suspects and solving crimes. Moreover, this outreach should occur regularly to ensure that local law enforcement personnel learn about the latest performance and capabilities of the Regional AFIS operations.
- VI. Improve ease of access for local law enforcement agencies to AFIS

 Through improved business protocols and emerging technology, police officers from any jurisdiction in King County should be able to transmit fingerprint searches easily and quickly to the AFIS Database.
- VII. Support criminal investigations by expeditiously processing latent prints (aspire to the fastest possible turnaround time for processing latent prints)

 One of the fundamental purposes of the Regional AFIS Program is to aid police agencies in solving crimes. The most important goal, which directly supports this mission, is to reduce the time it takes to begin and complete latent print analysis. Police will not use the Regional AFIS Program if the results take so long that the usefulness is diminished.
- VIII. Support electronic arrest reporting from the originating agency throughout the system

A long-term goal for managing criminal justice information is to report relevant information once and share this information electronically with other agencies, which require it for their operations. Specifically, the goal is to have police record information at arrest, which will electronically be transferred to the jail, AFIS, prosecutor, courts, and Washington State Patrol.

IX. Support consistent, complete, accurate and non-duplicative criminal history reporting

A further extension of the previous goal is to support protocols and technology which will enable agencies to report criminal history, arrest, and conviction information in an efficient and timely manner. Consistent and complete information would be transmitted to the State in a fashion that eliminates duplicative work and provides quick, complete, and accurate information to all jurisdictions. A number of situations arise in which one jurisdiction is duplicating work of another. Through improved protocols and new technology, this waste of valuable resources should be eliminated or significantly reduced.

serve to enhance these connections.



- X. Upgrade AFIS equipment in a manner that is consistent with enhancing links to the Washington State Patrol and Western Identification Network and that supports emerging regional and national standards

 An essential feature of the current AFIS operation is its connection to the Washington State Patrol and the Western Identification Network (WIN). While cumbersome, this access allows searches on prints extending throughout most of the western United States. Maintaining the ability remains a goal as AFIS equipment is upgraded. Furthermore, emerging technology and standards should
- XI. Adhere to state and national standards for technical and operational aspects of fingerprints

Recommendation Mission and Goals

The AFIS Advisory Committee recommends continuation of the adopted Mission and Goals for the Regional AFIS Program.



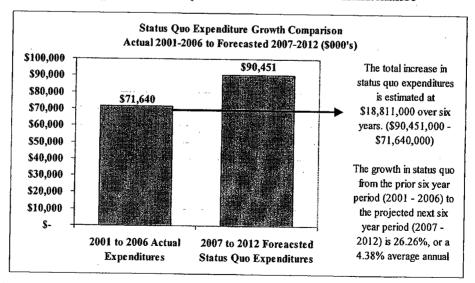
STATUS QUO OPERATIONS

The Status Quo forecast continues the work of the Regional AFIS Program with current technology. Status Quo includes all costs to support the continued operations as described in the "Structure of AFIS" section, starting on page 13, including cost of living increases for salaries and benefits, inflationary increases for non-personnel related costs, and the regular replacement of the existing Live Scan Capture Stations as they reach their end-of-life as determined by when the maintenance contract expires. Live Scan Capture Stations are the critical machines located throughout King County which capture and submit fingerprints electronically to the central AFIS Computer. During the 1995 levy, the policy decision was made to invest in the Live Scan Capture Stations placed throughout King County. There are currently 34 Live Scan Capture Stations in King County, 22 of which will need to be replaced in 2007. In 2005, 97% of the prints collected, were captured and transmitted electronically to the AFIS Computer via Live Scan Capture Stations¹⁴

In addition, the Status Quo includes an innovative approach the maintenance service contracts for Live Scan. Currently, all Live Scan Capture Stations are under 24 hours a day, 7 days a week maintenance contract for call-out by a Customer Service Engineer. After a thorough analysis of the "Live Scan Problem Logs", it was found that the lower volume sites generally called in their issues during normal business hours. Starting with the replacement of Live Scan Capture Stations in 2007, maintenance contract service levels throughout the county will be customized to the volume of prints taken by site. Specifically, all jail facilities and those sites where capture of criminal prints exceeds 500 records per year will remain with 24 hours a day, 7 days a week call-out plan for maintenance service. All other sites with any criminal volume would be supported on a 9:00am to5:00pm, 5 days a week, call-out plan, with continued 24 hours a day, 7 days a week helpdesk support. The proposed Status Quo includes the revised maintenance

contract plan resulting in a total savings from current operations of \$607,000 over six years.

The chart shows the comparison of the 2001-2005 actual expenditures



¹⁴ See Appendices F and G.

King County Regional Automated Fingerprint Identification System
The Future of AFIS Including AFIS Initiatives 2007-2012 – May 15, 2006



plus the 2006 budgeted expenditures (the sum of these is titled "2001 to 2006 Actual Expenditures) to the forecasted 2007-2012. The total growth in the proposed Status Quo from the previous six year actual to the forecasted six year period is 26.26% or a 4.38% average annual increase per year from 2007 to 2012.

Below is the forecasted 2007-2012 Status Quo by year with general assumptions.

Status Quo (000's)	2007	2008	2009	2010	2011	2012	6-Year Total
Salaries & Benefits	\$ 7,763	\$ 8,151	\$ 8,531	\$ 8,918	\$ 9,335	\$ 9,782	\$ 52,480
Supplies & Services	\$ 2,668	\$ 2,544	\$ 2,662	\$ 2,737	\$ 2,968	\$ 3,055	\$ 16,634
City of Seattle	\$ 2,913	\$ 3,027	\$ 3,147	\$ 3,269	\$ 3,396	\$ 3,530	\$ 19,282
Capital	\$ 1,024	\$ 195	\$ 200	\$ 206	\$ 212	\$ 218	\$ 2,055
Total Status Quo	\$14,368	\$13,917	\$14,540	\$15,130	\$15,911	\$16,585	\$ 90,451

Assumptions: The expenditure forecast was created by comparing actual expenditures from 2001 to November 2005--adjusted for full-year spending--and estimating the projected need by account. Salaries, benefits, and intergovernmental services amounts were estimated by using the 2006 Adopted budget amount.

Each account line was given an escalation factor, based on King County Current Expense Fund (CX) financial plan inflationary factors (12/13/05), and projected out for six-years in order to calculate the expenditure needs for the program.

The City of Seattle AFIS transfer was built using City of Seattle internal escalation factors.

Status Quo includes all costs for continuing current operations, including the replacement of 22 end-of-life Live Scan Capture Stations in 2007.

Status Quo also includes funding to achieve adequate laboratory space.

In addition, Status Quo includes salary and benefit costs for two Latent Print Examiner (LPE) positions, one for King County and one for Seattle Police Department. These positions were approved in the 2001 levy, but not added during that levy timeframe. The King County position was scheduled to be added in 2005. This position was not added in 2005 due to lack of need, however, based on workload, this position will be required in 2007. The Seattle Police Department position was not added due to an unanticipated number of LPE retirements depleting the number of qualified candidates and available training staff. Seattle Police Department anticipates having the ability to hire a qualified candidate in 2007.



OVERVIEW OF 2007 TO 2012 INITIATIVES

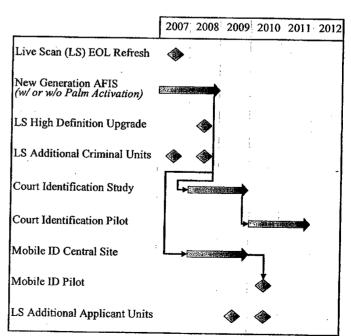
The AFIS Advisory Committee reviewed a set of initiatives to meet the continuing technological and operational needs of the community. The events of 9-11, the court mandate for greater forensic scientific standards, the more mobile nature of the County's population, and technological advances have necessitated a review of existing AFIS Technology. As a part of this evaluation process, the AFIS Advisory Committee (AAC) received input from experts, law enforcement stakeholders, and end users. The process was exhaustive and identified many potential enhancements. In the end, the Committee supported the core enhancements necessary for the Regional AFIS Program to remain efficient, effective and current with industry and professional standards. (See Technical Subcommittee and Survey of users, Appendix E.)

The charts below depict the 13 enhancements that the AAC reviewed and the interrelationships between the projects. The following four proposals were stand alone options that the AAC made recommendations individually (e.g. no other enhancement was needed for these to be recommended, nor was another enhancement delayed or removed due to these not being recommended): Additional Criminal Live Scan Capture Stations, Staffing to Support Increased Workload, AFIS Photographers to support the Latent Print Units, and Additional Applicant Live Scan Units. The remaining enhancements all were inter-related to the New Generation AFIS. In order to implement the Palm Activation, Live Scan High Definition Upgrade, Court Identification or Mobile ID, all require New Generation AFIS to be installed. Below the charts are brief descriptions, and costs associated with each enhancement. (Note: EOL is an abbreviation for End-of-Life)

AFIS Enhancement Decision Tree

Palm Activation New Live Scan & Minimum Generation High Conversion **AFIS** Definition Staffing to Upgrade Support Complete Conversion Court Mobile ID Identification · Central Site · Feasibility Study Pilot · Pilot Project Stand-Alone Enhancements Additional Staffing to Additional Criminal Support **AFIS** Applicant Live Scan Increased Live Scan Photographers Machines Workload Units

AFIS Technology Enhancement Timeline





New Generation AFIS

For greater detail see Appendix H, page 62

The current AFIS Computer requires replacement in order to maintain status quo functionality and to increase crime scene latent hits. The replacement of the current AFIS Computer and its peripheral equipment, installed in 1988 and upgraded for Y2K compliance in 1999, would consist of all hardware, software, and maintenance to support the standard Ten-Print and Latent Databases, Matching System, and an Image Archive System. It is also the foundation for further modular enhancements, such as Palm Activation and Wireless Mobile Identification, and potential realization of higher latent hit rates when implemented.

Costs in 000's	2007	2008	2009	2010	2011	2012	6 Year Total
New Generation AFIS	\$297	\$ 3,053	\$1,212	\$1,022	\$112	\$129	\$5,835

Assumptions: Costs include \$3.5 million computer cost based on two vendor bids (NEC Solutions America, Inc. and Cogent Systems, Inc.)
AFIS Computer costs consist of hardware (50% of costs), software (\$1M), and other associated costs, such as training, documentation, and conversion. Beside computer costs, this estimate includes 1.0 TLT Project Manager, .5 FTE (888 hours) of Information Technology Services Development support, technical expertise consultant support, travel to benchmark RFP responders, 20% contingency on all labor and 10% contingency on all non-labor elements, and 8.8% sales tax on all hardware, software, and maintenance costs. Refreshment assumed in 2014. The AFIS computer costs are spread between 2008 and 2010 in order to reflect the cash requirements of this proposal. All AFIS computer related contingency is assumed in 2008.

Live Scan Upgrade to High Definition

For greater detail see Appendix H, page 65

Upgrade the King County Live Scan Capture Stations from the current level of 500 ppi (pixels per inch) to a higher resolution of 1000 ppi. In many cases, fingerprints left behind at a crime scene are the size of a pencil eraser. The increase in resolution of prints captured will increase the likelihood of identifying suspects of crimes.

Costs in 000's	2007	2008	2009	2010	2011	2012	6 Year Total
Live Scan Upgrade to High Definition	\$ -	\$318	\$20	\$21	\$22	\$23	\$ 404

Assumes 2.7% hardware and 5% maintenance annual price increase on 3/7/06 quote from Identix, Inc. and includes 8.9% sales tax and 10% contingency for all non-labor elements.



Increase in Criminal Live Scan Capture Stations

For greater detail see Appendix H, page 67

In the 1995 AFIS Levy, the decision was made to provide Live Scan Capture Stations throughout King County. An additional purchase of five capture stations will address the remaining gaps in service in King County.

Costs in 000's	2007	2008	2009	2010	2011	2012	6 Year Total
Live Scan Increase - Criminal Units	\$67	\$127	\$24	\$25	\$26	\$28	\$ 297

Purchase and maintenance costs for five additional capture stations. Assumes 2.7% hardware and 5% maintenance annual price increase on 3/7/06 quote from Identix, Inc. and includes 8.9% sales tax and 10% contingency for all non-labor elements. Assumes all units sold and purchased in 2008 or later will be High Definition. Assumes units are replaced seven years after installation, in 2014 and 2015.

Palm Searching & Storage

For greater detail see Appendix H, page 69

The current AFIS Computer does not electronically store palm prints. At the King County Jail facilities, every inmate booked has his/her ten fingers and two palm prints taken with a Live Scan Capture Station. The ten fingerprints are electronically transmitted to the AFIS Database for identification and storage. The palm prints are NOT electronically transmitted to the AFIS Database; instead they are printed on card stock and paper hard copies are filed in file cabinets. The most recent estimates have 600,000 palm print sets (left and right palms) in the file cabinets throughout King County (400,000 are unique individuals, also known as Master Cards, and 200,000 are duplicative cards for those individuals who have been printed more than once.)

With the implementation of the New Generation AFIS, electronic transmittal and storage of palm prints is available. The KCSO Latent staff researched all 2005 cases submitted for KCSO, its Contract Cities and Suburban Cities, and found 34% of the cases had finger and palm prints; and of these, 11% of the cases had palm prints only; and there are 1,933 remaining unidentified latent palm prints in these cases. With the Palm Print Search and Storage capabilities, the potential for crime solving increases.

- The initial Palm Activation and Minimum Conversion will convert the existing 400,000 Master Cards into an electronic database. The remaining 200,000 duplicative cards would not be converted. With the frequency of recidivism in the criminal justice system, the duplicative cards will be added to the system as they are re-arrested or re-booked.
- Increase in staffing with implementation of Palm Search and Storage (For greater detail see Appendix H, page 72) The implementation of electronic palm storage and



search capabilities will require more AFIS entry time, comparison time, and time in court. Add three FTEs over the 6 year period to accommodate increased workload.

• Complete Palm Card Conversion

(For greater detail see Appendix H, page 84). NOTE: The AAC did not recommend this element in the future initiatives of AFIS. As noted earlier, through recidivism in the criminal justice system, duplicate palm prints will be collected in the future. Convert the approximately 200,000 existing secondary inked palm print cards to electronic versions for searching and storage in the AFIS Database.

Costs in 000's	2007	2008	2009	2010	2011	2012	6-Year Total
Palm Activation & Minimum Master Card Conversion	\$-	\$ 1,012	\$13	\$14	\$15	\$17	\$1,071
Staffing to Support Palm Search Capabilities	\$ -	\$ -	\$293	\$298	\$311	\$324	\$1,226
Complete Palm Card Conversion (NOT AAC APPROVED)	\$ -	\$460	\$2	\$2	\$2	\$2	\$ 468

Assumptions:

- Palm Activation & Minimum Master Card Conversion: Palm storage, matcher, maintenance, and conversion cost based only upon Master Palm card numbers. The secondary palm card conversion is not included in the initiative for the AFIS Levy. Estimates are based on vendor estimate (NEC Solutions America, Inc., and Cogent Systems, Inc.) and include 8.8% sales tax and 10% contingency for all non-labor elements. Conversion cost is based on 400,000 cards @ \$2 per card. Assumes refreshment in 2014.
- Staffing to Support Palm Search Capabilities: Estimate consists of 3.0 Latent Print Examiners, 2.0 for King County and 1.0 for Seattle
 Police Department. One time employee startup costs are included for King County and ongoing training costs are included for Seattle
 Police Department and King County. Seattle Police Department did not require one-time employee startup costs.
- Complete Palm Card Conversion: Palm storage, matcher, maintenance, and conversion cost based only upon Extra Palm card numbers. The initial master palm card conversion is not included in this estimate. Estimates are based on vendor estimate (NEC Solutions America, Inc. and Cogent Systems, Inc.) and include 8.8% sales tax and 10% contingency for all non-labor elements. Conversion cost is based on 200,000 cards @ \$2 per card.



Court Identification Feasibility Study

For greater detail see Appendix H, page 73

Conduct a feasibility study to analyze and make recommendations on the concept of taking fingerprints in court, for three purposes:

- 1. To ensure proper identification of the offender through fingerprints.
- 2. To add his/her prints to the AFIS Database for future ten-print and latent print matching and, therefore, assist in solving crimes and providing verification in cases of alleged identity theft.
- 3. To pass on the arrest information electronically to WSP for addition to the individual's rap sheet.

The Court Identification Feasibility Study would research the costs and benefits to the regional criminal justice system of adding a court fingerprinting practice for misdemeanant or gross misdemeanant subjects cited and released in the field without being fingerprinted.

Currently, in most limited jurisdiction courts in the county, only those defendants who are booked in relation to their offense are fingerprinted. Therefore, many offenders appearing in court have never been fingerprinted on the charges for which they are being adjudicated. Based on the outcome of the Court Identification Feasibility Study, implementation of fingerprinting in the limited jurisdiction courts would increase the quantity of prints in the AFIS Database. The court would have fewer identification challenges and better identity information on their defendants.

 Pilot Program based on the outcome of the Court Identification Feasibility Study (Appendix H, page 81)
 Based on the outcome of Court Identification Feasibility Study, the initiatives for the Regional AFIS Program include a proposal to implement a Pilot Project for the courts. The scope of the Pilot Project will be further defined by the Study.

Costs in 000's	2007	2008	2009	2010	2011	2012	6 Year Total
Court Identification Feasibility Study	\$ -	\$48	\$72	\$ -	\$ -	\$ -	\$ 120
Court Identification Pilot Project	\$ -	\$ -	\$ -	\$102	\$51	\$44	\$ 197

Court Identification Feasibility Study: Estimate based on \$100K consultant support with 20% contingency assumed.

Court Identification Pilot Project: Estimate based on three units. Assumes 2.7% hardware and 5% maintenance annual price increase on vendor quotes (Identix, Inc. and Crossmatch) and includes 8.8% sales tax on all hardware and software and 10% contingency for all nonlabor elements.



Mobile Identification

the pilot phase.

For greater detail see Appendix H, page 75

The current AFIS Computer does not have wireless Mobile Identification capability. Mobile Identification is the rapid identification of individuals, potentially in less than three minutes, using wireless handheld devices. With the implementation of New Generation AFIS, Mobile Identification from any police vehicle in King County becomes a possibility. In order for the Regional AFIS Program to start accepting prints from Mobile Identification units throughout the county, the Central Site requires changes in infrastructure to allow any communication with a jurisdiction's choice of mobile units. In order to assess the infrastructure, the Regional AFIS Program will test three different vendor products to assure the proof of concept is sound.

Mobile Identification Pilot Project
 (Appendix H, page 82)
 Once the Central Site infrastructure and proof of concept has been completed, the Regional AFIS Program will run a pilot project with ten Mobile Identification units to test the functionality and the process of receiving and identifying individuals from the field. The AFIS Advisory Committee will determine which agencies will be used in

Costs in 000's	2007	2008	2009	2010	2011	2012	6-Year Total
Mobile Identification Infrastructure (Central Site)	\$ -	\$76	\$394	\$118	\$124	\$131	\$ 843
Mobile Identification Pilot Project	\$ -	\$ -	\$63	\$9	\$ -	\$	\$ 72

[•] Mobile Identification Infrastructure (Central Site): Estimate includes .67 FTE LAN Administrator to support the increased workload expected from project implementation and expanded network management, one time employee startup costs and ongoing training costs, .25 FTE (444 hours) of Information Technology Services Development support and purchase of three field units from different vendors for proof of concept testing. Assumes a 2.7% hardware and 5% maintenance annual price increase on vendor quotes (NEC Solutions America Inc., Cogent Systems, Inc., and Identix, Inc.) and includes 8.9% sales tax on all hardware and software, 10% contingency for all non-labor elements, and 20% contingency for all labor elements.

Mobile Identification Pilot Project: Estimate consists of 10 field units and one year of maintenance with the assumption that Law Enforcement Agencies will fund the wireless service costs for the units they are granted after the initial pilot phase. Assumes 2.7% hardware and 5% maintenance annual price increase on 3/7/06 quote from Identix, Inc. and includes 8.9% sales tax and 10% contingency for all non-labor elements.



Workload Driven Staffing

For greater detail see Appendix H, page 77

AFIS management has created and tested detailed staffing models to determine levels of staffing required for projected workloads, based on timing of tasks and completed caseloads. Two different categories of staffing models are used — one for the Jail Identification and Ten-Print Units based on timed activities and a projected 1% annual volume growth in fingerprints, and a different staffing model for the Latent Print Units based on incoming caseload and completed cases.

Additional Identification Technicians and support staff will be needed in the Ten-Print Units to identify an increasing number of fingerprints in a 24/7 operation, and to assist in latent print processing. The Latent Print Units currently carry backlogs of latent cases every year. On average, the number of incoming cases increases 1.8%-2.3% per year. Without the staff to support the work the growing number of incoming crime scene latent cases and the backlog each year, these backlogs will grow larger every year. The assumption used in this estimate is that workload will increase by 1% per year. The total workload based staffing added over six years is projected to be 4.0 FTE's over the period 2007-2012.

Costs in 000's	2007	2008	2009	2010	2011	2012	6-Year Total
Workload Driven Staffing	\$ -	\$ -	\$131	\$205	\$303	\$315	\$954
Estimate consists of a total of four	additional positio	ns required and	d does not inch	do positione se		,	

employee startup costs and ongoing training costs are included.

AFIS Photographers for the Photo Labs

For greater detail see Appendix H, page 79

Presently, SPD/KCSO Latent Print Examiners rely on non-AFIS Photo Lab personnel to perform forensic-level photography and photographic preservation of latent images. The primary responsibility of the Photo Labs is to provide photographic support for the entire organization. Photographic services done are support of AFIS is secondary to the general operation of the Photo Units. Often this arrangement causes a delay in preserving and processing the latent images, hindering the identification process. By providing the Latent Print Examiners with two dedicated full-time forensic-level photographers, all latent images will be processed in a timely matter. This will reduce the occurrence of the latent images fading prior to preservation, and allow more images to be searched for AFIS hits. The Senior Photographers will be available for on-call response to assist the Latent Print Examiners in the preservation of evidence at crime scenes. Additionally, the new positions will allow for the time-critical expedited processing of domestic violence cases, court cases, and latent cases to be worked concurrently, rather than consecutively.



The Photographic Supervisors for each department will manage the positions.

Costs in 000's	2007	2008	2009	2010	2011	2012	6 Year Total
AFIS Photographers for the Photo Lab	\$146	\$147	\$156	\$162	\$168	\$175	\$ 954

Estimate consists of one photographer to support King County Latent Print Unit and one for Seattle Police Department Latent Print Unit. One-time employee startup costs are included for King County and ongoing training costs are included for Seattle Police Department and King County. Seattle Police Department did not require one-time employee startup costs.

Live Scan Applicant Units

For greater detail see Appendix H, Page 85 NOTE: The AAC did not recommend this element in the future initiative of AFIS. The AAC agreed with the work of the Technical Subcommittee that at this time, capturing prints from applicants was not a priority critical to the overall AFIS mission.

While surveying King County Law Enforcement agencies to identify potential gaps in criminal identification services, five current Live Scan Sites expressed interest in acquiring a second Live Scan Capture Station for the purpose of applicant fingerprinting only. Although the existing Live Scan Capture Stations are capable of capturing both criminal and applicant records, at some sites the units are located in a secure area and agencies are not able to allow the public access for fingerprinting.

Costs in 000's	2007	2008	2009	2010	2011	2012	6-Year Total
Live Scan Applicant Units (NOT AAC APPROVED)	\$ -	\$ -	\$79	\$120	\$28	\$29	\$ 256

Purchase and maintenance costs for seven units. Assumes 2.7% hardware and 5% maintenance annual price increase on 3/7/06 quote from Identix, Inc. and includes 8.8% sales tax and 10% contingency for all non-labor elements. Assumes all units sold and purchased in 2008 or later will be high definition.



Recommendation 2007-2012 Initiatives

Based on:

- The need to enhance existing programs to meet emerging community needs
- The need to maintain or improve current systems for the collection and identification of suspects in King County to meet emerging standards
- Reviewing the performance, finances, and corresponding operations of the Regional AFIS Program, and
- Recognizing that the implementation of the initiatives is dependent on future funding.

The AFIS Advisory Committee recommends the following initiatives for the years 2007-2012:

- Implementation of a New Generation Computer, replacing the existing AFIS Computer;
- Upgrade the current Live Scan Capture Stations to capture data at higher resolution;
- Increase the current inventory of Criminal Live Scan Capture Stations by five units to address remaining gaps in service in the region;
- Implement Palm Searching and Storage capabilities, converting current master card inventory to an electronic database, and adding three positions to search, capture, and identify palm prints left at crime scenes;
- Increase staffing in conjunction with increases in workload ensuring that staffing levels will be re-evaluated annually in the budget cycle based on available funding;
- Implement a "Court Identification Feasibility Study" to consider the legal, financial, and operational policies and needs of the court system to identify and collect fingerprints from defendants;
- Establish the infrastructure to ensure that King County law enforcement entities which implement wireless Mobile Identification can access and communicate with the Regional AFIS computer;
- Add two AFIS Photographers to photographically process and preserve finger and palm print evidence recovered from crime scenes;
- Pilot a three-unit Court Identification Project based on the outcome of the



Court Identification Feasibility Study;

• Pilot a ten-unit Mobile Identification Study in order to ensure different wireless vendors can communicate with the AFIS Computer and access the AFIS Database.

Note: The AFIS Advisory Committee did not recommend the Complete Palm Card Conversion and the Applicant Unit initiatives for the period 2007-2012.



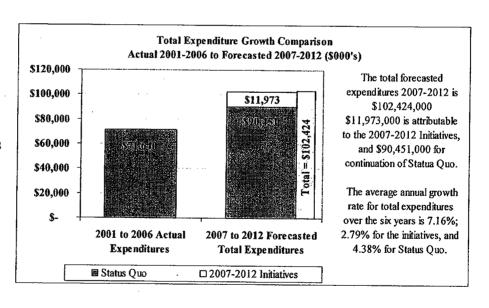
FINANCIAL OVERVIEW AND REVENUE ASSUMPTIONS

Expenditures

The AAC AFIS financial plan includes funding for status quo operations as well as the 2007-2012 initiatives; New Generation AFIS, Live Scan Upgrade to High Definition, Increase in Criminal Live Scan Capture Stations, Palm Activation and Minimum Master Card Conversion, Staffing so Support Palm Search Capabilities, Court Identification Feasibility Study and Pilot Project, Mobile Identification Infrastructure and Pilot Project, Workload Driven Staffing Increases, and AFIS Photographers for the Photo Units. In determining the initiatives to be included in the near-term vision for AFIS, the AAC took into consideration the work of the Technical Subcommittee¹⁵. As noted earlier in the report, the AAC did not support the Applicant Live Scan Units or the conversion of the Duplicative Palm Cards.

The total cost for status quo operations forecasted over 6 years is \$90,451,000. The total forecasted 6 year cost for implementing the initiatives is \$11,973,000¹⁶ for a forecasted six year AFIS expenditure level of \$102,424,000¹⁷. The total increase from the prior six year period to the forecasted six year period is 7.16% average annually, 2.78% of which is attributable to the 2007-2012 initiatives, and 4.38% is an increase in status quo from cost of living increases, benefit rate increases and replacement of current Live Scan Capture Stations.

The chart shows the comparison of the 2001-2005 actual expenditures plus the 2006 adopted budget (in the chart, this total is titled "2001 to 2006 Actual Expenditures) to the forecasted 2007-2012.



¹⁵ See Appendix D.

¹⁶ See Appendix I.

¹⁷ See Appendix I.



Revenues

The Revised Code of Washington (RCW) 84.520.043 allows jurisdictions to levy a property tax; King County can increase a levy with voter approval under RCW 84.55.050. In King County, the Regional AFIS Program is a county-wide, levy-funded program and requires voter approval every levy period.¹⁸

The AFIS Levy is a regular property tax and is subjected to the growth limitations contained in RCW84.52.050, which limits the rate of growth in AFIS Levy revenue by one percent even if assessed values increase at a higher rate.

The AAC reviewed several levy options, narrowing the options down to two -(1) a permanent levy and (2) a Multi Year Lid Lift under RCW 84.55.050 (3) (b). The permanent levy is the preferred option, providing a stable, long-term funding source. The six-year levy option was recommended in the event that a permanent levy proved politically or financially impractical.

The table below shows the two options considered by the AAC, and the levy rates for Status Quo and the 2007-2012 Initiatives.

Item Description	6 yr nominal cost (in 000s)	Permanent Levy Rate per \$1000/AV ¹⁹	Multi Year Lid Lift Rate per \$1000/AV ²⁰
Total Status Quo	90,451	.0466	.0445
Total 2007-2012 Initiatives	11,973	.0062	.0088
Total AAC Recommended Plan	102,424	.0525	.0533

Levy rate calculations are based on the Current Expense Property Tax forecasting model maintained by the Office of Management and Budget. Over a six year period, a multi-year lid lift will generate more revenue than the permanent option, and as a result a lower rate would be needed to fund the status quo. Since many of the proposed new initiatives involve long term capital projects, the permanent levy option permits the use of bonding to more closely link expenditures with expected system lifetimes of more than six years. As a result, a lower permanent rate is needed since some debt service will be funded beyond year six.

Revenue sufficiency was analyzed by comparing with six years of projected expenditures. This represents a reasonable cross-section in the AFIS cycle and provides an appropriate basis for long term financial planning. Clearly, the AFIS program will need to achieve

¹⁸ See Appendix A for AFIS Levy history.

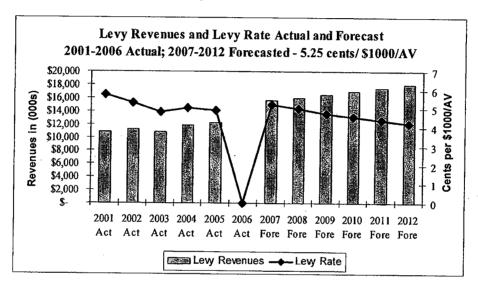
¹⁹ Assumes a 1% rate growth rate in levy revenues; and capital expenditures could be bond financed if needed.

²⁰ Assumes a 3% growth rate in levy revenues under RCW 84.55.050 (3) (b), no bond financing would be used.



efficiencies over time in order to live within Initiative 747 limits. Based on available data and the past record of the agency, the Office of Management and Budget concluded that these revenue levels will be adequate.

The chart below depicts the historical revenue and levy rate since 2001, and then forecasts the levy revenues and rate based on the preferred rate of 5.25 cents per \$1000/AV for a six year forecast²¹. The 2001-2005 Levy had a statutory rate of 5.784 cents per \$1000/AV. Due to strong management practices and an increase in revenue collections, the Regional AFIS program was able to maintain current operations in 2006 with remaining fund balance, e.g., no levy was collected in 2006.



Recommendation - Dedicated AFIS Property Tax:

Based on:

- Valuing the AFIS service as an integrated regional crime solving tool,
- The Regional AFIS Program being a voter-approved, levy-funded program since inception in 1988,
- An extensive review of the Regional AFIS Program including staffing, performance outcomes, technology, and needed enhancements for the future, and
- Ongoing stable funding is required to ensure a consistent regional automated fingerprint identification system.

The AFIS Advisory Committee recommends as its first choice:

• Financial projections based on the implementation of the 2007-2012 initiatives indicate an AFIS permanent statutory levy rate of 5.25 cents per \$1,000 of

²¹ See Appendix I for a historical and future six year financial plan.



assessed value for the foreseeable future.

In the event that a permanent statutory levy is not viable, the AFIS Advisory Committee puts forth as its second choice:

• Financial projections based on the implementation of the 2007-2012 initiatives indicate an AFIS statutory levy rate of 5.33 cents per \$1,000 of assessed value for the period of 2007-2012 under RCW 84.55.050 (3) (b) for the multi-year lid lift.



PERIODIC REVIEW

In recognizing the importance of continuing oversight and evaluation, the committee believes a periodic review is integral to the Regional AFIS Operations. The AFIS Advisory Committee has a continuing commitment to ensure this program is run efficiently and effectively.

Recommendation Periodic Review

Based on:

- Acknowledging that the annual work plan is adopted by the King County Council through the annual budget process;
- Acknowledging the need to ensure that the Regional AFIS Program continues to meet the needs of the community and industry performance standards; and
- Ensuring the continued challenge to meet "best practices" in the fingerprint community;

The AFIS Advisory Committee recommends:

- If the King County voters approve a permanent funding source for the Regional AFIS Program, then every five years the Regional AFIS Program management staff would prepare a comprehensive review of the Program including, at a minimum, staffing, emerging issues, evaluation of workload, and industry best practices.
- If the King County voters approve a six-year levy funding source for the Regional AFIS Program, then AFIS Program management staff would prepare a comprehensive review of the Program upon commencement of the renewal or replacement of the funding stream addressing, at minimum, staffing, emerging issues, evaluation of workload, and industry best practices.
- In addition, the Regional AFIS Program management staff will prepare an update to this review and subsequent comprehensive reviews on an annual basis including, at a minimum, system performance measures and status of the plan initiatives.



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A. AFIS LEVY HISTORY AND EVOLUTION

First AFIS Levy (1987-1990)

In 1986, the voters of King County approved funding of an Automated Fingerprint Identification System (AFIS). King County residents agreed to levy 2.5 cents per \$1,000 of assessed value of taxable property located within King County. The focus of this levy was the purchase and maintenance of the AFIS Computer. It was determined that the King County Sheriff's Office (KCSO) would house the Central Site computer equipment. The KCSO AFIS Section was responsible for searching crime scene latent prints and entering all ten-print cards received from unincorporated King County and all of the suburban jurisdictions into the AFIS Database at the Central Site. The Seattle Police Department (SPD) AFIS Section was responsible for the City of Seattle latent and ten-print work, which they would enter into the AFIS Central Site Database through remote workstations located at SPD.

Although all KCSO and SPD Identification staff used the AFIS equipment, salaries, and benefits for only three latent print examiners (two for KCSO and one for SPD) were funded through the first levy period.

The primary goal of the first levy was to give all police departments within King County a tool to identify perpetrators of serious crimes by matching fingerprints retrieved from crime scenes to known prints stored in the AFIS Database. The system was implemented in April of 1988. In the three remaining years of the levy, KCSO and SPD staff matched 1,208 crime scene latent prints to existing prints and potential suspect names in the AFIS Database. Very few of these latent hits would have been made without AFIS.

Actual Case Story from the first levy: The City of Auburn had been having a rash of commercial burglaries. Over 100 commercial burglaries and nine months later, one latent print from a commercial burglary was submitted to the KCSO Latent Print Unit. The latent print was searched against the newly implemented Regional AFIS Database, and a match was made to a juvenile fingerprint card. Auburn police officers were notified of the identification. The juvenile was placed under surveillance and that very evening committed a commercial burglary. After being caught in the act, the youth confessed that he had committed many others. Officers drove to the locations where over 100 previous commercial burglaries had been committed. Seventy-five of the cases were cleared and of the remaining uncleared cases, the youth couldn't remember if he had burglarized the other establishments or not because there had been so many.

During this levy, it was readily apparent that AFIS was a tremendous crime-fighting tool. Problems also became apparent. The first levy assumed that computerization would save staff time. However, the addition of the inked fingerprint cards from suburban jurisdictions increased the KCSO Ten-Print Unit's workload 144%. No additional staff was funded to deal with this significant backlog. Additionally, it was found that on average, only 60% of the King County Department of Adult Detention inmates were



being fingerprinted when they were booked into the facility. Because many of these fingerprints were of poor quality, they were degrading the AFIS Database.

Second AFIS Levy (1991-1995)

The focus of the second AFIS levy, therefore, became staffing. The goals of the second levy were to:

- 1) Fingerprint all inmates in the King County Jail;
- 2) Determine the identity of all inmates within seven hours of booking to ensure that inmates would not be released with outstanding warrants;
- 3) Search all ten-prints received from the suburban jurisdictions the same day received;
- 4) Maintain a 30-day turnaround from receipt of crime scene latent prints to AFIS search and reporting of the results; and,
- 5) Increase training of police officers in the processing and handling of latent prints.

The second AFIS Levy was approved by King County voters in the fall of 1990. The rate was lowered from 2.5 cents to 2 cents per \$1,000 of assessed valuation of taxable property within the borders of King County. This lower rate was the result of a remaining balance of \$3,000,000 from the first levy and the completion of computer equipment purchases in the first levy so that no significant new equipment was required in the second levy.

During this period, the King County Regional AFIS Program created a Jail Identification Unit. While the physical location of the Jail Identification Unit is in the King County Jail's Intake and Release areas, the staff reports to the KCSO AFIS Section. This Unit is staffed 24 hours a day, seven days a week. The quality of fingerprints received from this Unit has increased the quality of the King County Regional AFIS Database significantly.

The KCSO and SPD Ten-Print Units were expanded to meet the new workloads, reduce backlogs, and to meet the program objective of identifying all inmates within seven hours of booking. These Units are staffed 24 hours a day, seven days a week. During the first half of this levy period, the KCSO Ten-Print Unit was able to eliminate a backlog of 20,000 fingerprint cards.

The KCSO Latent Print Unit's staffing was increased in phases from five to eight Latent Print Examiners during 1992 and 1993. After the new Examiners came on board, a ninemonth backlog of AFIS-quality latent cases was decreased. A more acceptable turnaround time of 30 days to complete an AFIS-quality latent case to court readiness was finally attained.

However, in the last four months of 1994, the KCSO Latent Print Unit experienced a 58% increase in crime scene call outs and a 78% increase in the number of hours spent in court. This trend continued into 1995. These significant increases in demand for staff



time, coupled with temporary evidence processing lab site that is five miles from the Central AFIS Site at the County Courthouse, caused the turnaround time to fluctuate between 30 and 45 days during 1995.

Actual Case Story: The AFIS Jail Identification Unit became a 24-hour, 7-day a week operation in March of 1992. In May of that year, an Identification Technician began to fingerprint an inmate. There was a look of shock on the inmate's face as he asked, "Since when did you guys start fingerprinting everybody?" The Technician answered, "Since March of this year." The inmate went on to tell the Technician that he had been in the King County Jail ten times before, each time giving a different name, and had never been fingerprinted. He then told the Technician his real name. Since 1992 there has been a steady decrease in the number of people found to be lying about their identities. Technicians and Officers have been told by inmates that you just can't get away with lying about your name in the King County Jail, because "they" will just find out anyway.

Third AFIS Levy (1996-2000)

As with the first levy, the successes of the second levy masked significant gaps and problems in provision of AFIS Services. The Technical Subcommittee, which was charged with making recommendations for the 1996-2000 levy, looked behind the statistics and identified many concerns, including:

- Need to capture additional prints: Many juvenile offenders booked into the Juvenile Detention Center were not fingerprinted. Similarly, persons convicted of driving under the influence of alcohol or controlled substances were not printed if they were booked directly into the North Rehabilitation Center to serve their sentence. With the 1997 opening of the Regional Justice Center in Kent, additional staff would be needed to fingerprint persons booked into the facility on a 24 hour a day, seven days a week basis.
- <u>Crime Scene Prints</u>: There remained significant barriers to police agencies using AFIS Services for identifying potential suspects from crime scene fingerprints.

 Lengthy processing times for crime scene prints discouraged police officers from taking prints from crime scenes and submitting them to the Latent Print Units.

 Despite the training that occurred during the previous levy, many officers still had not been trained, so many prints submitted were not of AFIS quality.
- Investment in Technology: The computer initially purchased for the Regional AFIS Program was expected to become obsolete near the end of the levy period, and it was expected that upgrade of the computer and operating system would be needed during the latter years of the levy period. In addition, the Committee recommended purchase of Live Scan technology for remote electronic taking and searching of fingerprints. This Live Scan technology, coupled with the "store and forward" capability anticipated in the AFIS 21 Computer upgrade, was expected



to allow for reduction of duplication that occurred within several aspects of the AFIS services.

- <u>Funding Levels:</u> The Technical Subcommittee found that the Regional AFIS Program was under-funded even at the existing staffing levels, requiring subsidy by both King County and Seattle.
- Access and Service for Suburban Police Agencies: The Technical Subcommittee
 determined that a concerted effort should be made to increase access and service
 for suburban police agencies through increased training, establishment of a
 technology "grants" fund, and establishment of a Regional AFIS Advisory
 Committee.

The County Council ultimately placed before the voters a proposal to fund the King County Regional AFIS Program at a rate of 6.65 cents per \$1,000 of assessed valuation. The AFIS package included funding to address all of the above issues as shown in the following table.

Table 1, Estimate of 1996-2000 Levy Expenditures and Rate Impact

Item	5-Year Total Cost	Rate per \$1,000 Assessed Valuation
Jail Print Taking (King County Jail, RJC)	\$7,196,458	1.08 cents
Juvenile Print Taking	\$290,163	0.04 cents
Print Persons Reporting to NRF	\$203,975	0.03 cents
Training Coordinator/Suburban Liaison Position	\$874,482	0.13 cents
Latent Examiners	\$11,314,981	1.69 cents
Supervision	\$3,691,609	0.55 cents
Ten-Print Unit	\$11,052,362	1.65 cents
Supplies, Equipment and Maintenance and Operations	\$9,307,025	1.41 cents
Sub Total	\$43,931,055	6.58 cents

Additional AFIS Improvements

GRAND TOTAL	\$44,581,589	6.65 cents
Miscellaneous Salary and Benefit Adjustments, and Other Technical Changes	(\$1,709,489)	-0.27 cents
Sub Total	\$2,360,023	0.34 cents
Additional Latent Print Examiners	\$1,035,023	0.14 cents
AFIS Technology Grant Fund (Live Scan)	\$1,325,000	0.20 cents

Fourth AFIS Levy (2001-2005)

The fourth AFIS Levy faced the restrictions on annual rates of growth as required by Initiative 747. Initiative 747 was approved by voters in 2001, and it capped the rate of growth on the revenue to 1% growth plus the prior year rate for new construction.



The fourth levy continued the AFIS implementation of the previous levy and supported several incremental enhancements to the program:

- Continuation of Status Quo Services (five-year total cost of \$50,249,711)
- Staffing additions to handle low range estimates of increased workload (five-year total of \$2,359,822 and 11 new positions)
- Completion of Live Scan implementation by purchasing and implementing an additional seven Capture Stations beyond the 22 funded for 2000 (one-time costs of \$498,400). Ultimately ten Capture Stations were purchased for the same cost through negotiation with the vendor.
- Establishment of print taking at Juvenile Court for juvenile offenders who are never booked into detention. (five-year total cost of \$557,677 and two new positions)
- A target ending fund balance of \$800,000

Estimate of 2001-2005 Levy Expenditures and Rate Impact

Item	Five-Year Total
Status Quo Services	\$50,249,711
Additional Live-Scan Capture Stations	\$498,400
Juvenile Court Print Taking	\$557,677
Workload Driven Additions	\$2,359,822
Target Fund Balance	\$800,000
Total	\$54,465,610
2001 Levy Rate / cents per \$1,000	5.784

Through prudent fiscal management, a fund balance has accumulated over the years. This accumulated AFIS fund balance at the end of the 2001-2005 levy cycle will allow the fund to continue operations in 2006 without an additional property tax levy in 2006. This plan requires AFIS Program management to carefully manage and monitor AFIS fund expenditures in 2006 in order to fund 2006 expenditures without any new levy funds.

In the following real life stories, it is important to note that it does not matter where the incident occurred, because frankly, criminals nor terrorists care about boundaries, whether they be cities, counties, states, or nations:

Kirkland: A woman is brought into the Kirkland Police Department. She is known to have Russian Mafia ties. She is taken to the Live Scan Capture Station where she is fingerprinted, and the record is electronically transmitted to the King County Regional AFIS, on to Washington State Patrol, and to the Federal Bureau of Investigation. Her fingerprints matched those of a woman on the Homeland Security "Terrorist Watch List" as being a known member of Al Queda. Both the FBI and Interpol wanted to know more about this woman's movements while she had been in this area.

Multiple Cities and King County: Ten Home Invasion Robberies crossed King County boundaries into multiple cities. Fathers, mothers and children were tied up and held at



gunpoint for up to an hour. All feared for their lives as they watched their homes being ransacked. Crime scene latent prints were searched on the King County Regional AFIS, which linked five suspects to five of the ten terrifying crimes. Forensic evidence, such as the latent prints and DNA helped the detectives and prosecution team to charge and convict all five of these suspects; ending this horrific crime series. Four of the suspects' sentences ranged from 20 years to 65 years. Suspect 1, sentenced to 65 years; Suspect 2, sentenced to 40 years; Suspect 3, sentence to 38 years; Suspect 4, sentenced to 20 years, and, Suspect 5 (the driver), was sentence to 5 years.

Seattle: A Rape/Burglary occurs in West Seattle. A woman is awakened from her sleep by being punched in the face. She is raped orally and vaginally as her three-month old child lays next to her in bed. The suspect escapes. Five days later, a Burglary in West Seattle takes place one block from the first incident. The suspect opens a closed bedroom window and enters the apartment. He flees when the occupants start screaming. Two days later there is an Attempted Rape/Burglary/Assault, again in the same West Seattle area. The suspect forces a locked apartment window open, enters, and attacks a sleeping woman, who screams. The next unit neighbor, enters her apartment in response to her screams, and confronts the armed suspect. A fight ensues and the Good Samaritan is stabbed three times before the suspect escapes. A Latent Print Examiner located latent prints at the latest crime scene. The latent is searched through the King County Regional AFIS with no success. Through our Regional AFIS networking capabilities to the Western Identification Network, a match was made to a suspect who had criminal history in Sonoma County, California for five similar incidents including Rape, Child molestation, Burglary and Assault. There was no criminal history in either King County or the State of Washington. Officers, acting on a tip from a citizen, arrested the suspect two blocks from the crime scenes locations. The threat to the community is over.

Chief Denise Turner, King County Sheriff's Office



B. AFIS ADVISORY COMMITTEE MEMBERSHIP

AAC Committee Chair: Chief Rick Kieffer, Normandy Park Police Department

AAC Committee Vice-Chair: Lt. Marc Olson, Identification & Evidence Unit, Seattle

Police Department

Members:

Don Berard, Budget Supervisor, Seattle Police Department
Greg Doss, Strategic Advisor, City of Seattle, Department of Finance
Asst. Chief Linda Pierce, Seattle Police Department
Penny Bartley, Auxiliary Services Manager, Renton Police Department
Capt. William Ferguson, Bellevue Police Department
Cathy Schrock, Support Service Manager, Federal Way Police Department
Ryan Bayne, Director of Intergovernmental Relations, King County Executive Office
Clif Curry, Senior Legislative Analyst, King County Council
Marilyn Nault, Regional AFIS Manager, King County Sheriff's Office



C. AFIS TECHNICAL SUBCOMMITTEE MEMBERSHIP

Nick Zajchowski, Policy & Program Analyst, Municipal Court of Seattle

John Amos, Budget Supervisor, King County Office of Management & Budget Don Berard, Budget Supervisor, Seattle Police Department Clif Curry, Senior Legislative Analyst, King County Council Roger Enders, Jail Manager, Issaquah Police Department Trever Esko, Business Systems Analyst, King County Office of Information Resources & Management Major William Hayes, King County Adult & Juvenile Detention Cathy Grindle, System Manager, King County District Court Mike Hirman, Jail Commander, Auburn Police Department Chief Rick Kieffer, Normandy Park Police Department Tim Longley, LAN/Information Systems Manager, King County Adult & Juvenile Detention Captain Gene Markle, Kirkland Police Department Barbara Miner, Director/Superior Court Clerk, King County Judicial Administration Marilyn Nault, Regional AFIS Manager, King County Sheriff's Office Carl Nicoll, Crime Lab Manager, Bellevue Police Department Lieutenant Marc Olson, CSI, Identification & Photo Lab, Seattle Police Department John Slomnicki, LAN/Communications Administrator, King County Correctional Facility Deanna Strom, Program Analyst, King County Correctional Facility Pat Presson, Finance Manager, King County Adult & Juvenile Detention



D. OVERVIEW OF THE WORK OF THE TECHNICAL SUBCOMMITEE

In November 2005, the AFIS Advisory Committee (AAC) commissioned the Technical Subcommittee (TSC) to review the operations of the Regional AFIS Program, and to recommend to the AAC a set of prioritized programs and enhancements to meet emerging community needs and current standards for the collection and identification of suspects in King County.

The TSC met a total of nine times over the period from December 2005 through March 2006. The TSC reviewed in detail each of the proposed initiatives item for the Regional AFIS Program, challenging assumptions, timing, financial implications, and relevance to the AFIS system. The TSC put forth a set of enhancements to status quo, categorized by funding ranking, to the AAC for its final recommendation.

The following pages contain the outcome of the TSC. The Summary of Themes and the Consensus for Funding Survey were the final products. One should not be read without the other, as together, they represent the voice of each member who chose to participate in the final ranking and a summary of the comments received. The Consensus for Funding Survey shows down the left side the final categorization of the enhancements, and across the top the survey of each participating member. The final column represents an average of the participant rankings. The Summary of Themes was approved by the TSC as being representative of the general thinking of the group and gives some insight into why a particular enhancement was ranked as it was.

Overall, there was only one enhancement that received a "1" from all participants, that of the New Generation AFIS.



Technical Subcommittee Summary of Themes

(This is not a standalone document; it is to be read in conjunction with the Consensus for Funding Survey on page 54)

CATEGORY 1

New Generation AFIS

- ☐ The essential foundation to the future capability, operation and success of the Regional AFIS Program.
- ☑ Critical for improving service for future AFIS users

CATEGORY 2 (in alpha order)

Live Scan High Definition Upgrade

- ☑ Will make maximum use of new AFIS Computer and improve Latent Print matches and comparisons
- ☑ Necessary for improvement in print quality.
- ☑ Better print resolution will increase hits. .

<u>Live Scan Increase - Criminal (with Palms)</u>

- ☑ Closes gaps in service area. Complete the regional distribution of Live Scan Capture Stations.
- ☑ Widens the database and potentially solves crime throughout the region
- ☑ Will assist in cold cases and future cases. Important for public safety

Palm Activation and Minimum Conversion (Master card)

- ☑ Future of AFIS identifications. Will result in more hits and crimes solved. Potential to increase hit rates in a significant way.
- ☑ Aligns with new AFIS capabilities.

Staffing to Support Increased Workload

- ☑ This is a regional program. Need additional staff to keep up with progress. Increased awareness continues to bring increased number of fingerprints which will need more staff to process/identify
- Question about the need for this level of increase.

Staffing to Support Palm Search Capabilities

- ☑ Believe palm capabilities will require more staff.
- This is just an estimate. Proceed with the "increased workload staffing" with some success until known staffing related to palms is available.



CATEGORY 3 (in alpha order)

Mobile Identification Central (2-3 units proof of concept)

- ☑ It is the responsibility of the Regional AFIS Program to provide this infrastructure to KC agencies.
- ☑ Important to provide capability to agencies that want to use it and require access to the AFIS database.
- ☑ Luxury item that should only be added if funds available.

Quick Print Capture name change to "Court Identification Study" - Feasibility Study

- ☑ This supports the Regional AFIS Program's goal of accurate and consistent criminal history reporting and fills a critical gap (particularly important with respect to misdemeanor convictions which are not always fingerprinted at arrest, and, therefore, do not appear on the official "rap sheet.").
- ☑ Nice to have, but only if funding available.
- ☑ Rename "Court Identification Study" or similar.

Staffing -AFIS Photographers to Support Latent Processing

- ☑ Latent prints are lost due to inadequate turn-around time with photography. Need to photograph latent prints before lose them, but not take precedence over some other enhancements.
- ☑ Fund work generated by AFIS activities with AFIS funds.
- ☑ Can be supported with other funds as is done currently.
- Better funded as a contract account paid to the Photo Units for service, which they could then use for staff or equipment as needed to manage volume.

CATEGORY 4 (in alpha order)

Completed Palm File Conversion

- ☑ Needed for complete database for latent print matches and comparisons.
- May be negotiated into contract. Nice only if funds are available.
- ☑ Can be converted by staff, day-forward as time allows. Build a duplicate database with the Frequent Flyers. Prioritize cards based on crime type.

<u>Live Scan Increase – Applicants</u>

- ☑ Nice, but not part of AFIS critical mission.
- ☑ Nice only if funds available.
- ☑ Agencies should purchase and maintain their own applicant units.

Quick Print Capture - Pilot Projects (other funding options/vendor testing)



- Doesn't make sense to do the study w/no funding to close gaps as they are identified.
- ☑ Small investment for potentially very large payoff in terms of filling criminal history gaps, a very important AFIS mission.
- ☑ Nice only if funds available.

CATEGORY 5

Mobile Identification - Pilot Projects (50 units)

- Encourage other funding options. Funding may be sought through grants, using homeland security, identity theft, officer safety, and lack of proper officer staffing (i.e. keeping cops on the streets) as a basis. Vendor POC may be an option. Agencies should be able to purchase from any vendor.
- Not certain of regional responsibility to fund this for local jurisdictions that want to use it. At 50 units, is it an implementation plan or a pilot program? Complex both technically and from a business perspective due to the variety of jurisdictions involved and their unique technical configurations.

Consensus For Funding Survey From The Technical Subcommittee

See Summary of Themes for additional comments.

	Potential Enhancement	A	В	ပ	Q	两	124	ن	Щ	=	,	K	ı	Z	z	0	A	0	Overall
-	New Generation AFIS	1	1	-	-	-	-	 -	-	-	-	-	1-	-	-	 -	1-	-	Category
l	Live Scan High Definition Upgrade	2	Ŀ	1	2	3	6	-	-	-	-	1-	-	- -	, ~		, "		,
	Live Scan Increase – Criminal (with Palms)		1	-1	3	-	-	7		6		-	-	-		, -	2	1	1 2
7	Palm Activation and Minimum Conversion (Master card)	-		2	-		-	-	-	2	-	-		-	2	-	7-4	-	2
	Staffing to Support Increased Workload	-		-	2	-		-	1		4	-	<u>س</u>	-	7		-	-	2
	Staffing to Support Palm Search Capabilities	П	2	2	3	4		77	-	ω	-	 	-	8	8	1 -	-	2	2
	Court Identification – Feasibility Study	2	2	7	2	S	S	4	 	-	5	6	ω	m	 _	3	7	2	3
3	Mobile ID Central (2-3 units proof of concept)	2	2	3	2	4	N.	2		7	N.	т п	2	-	-	4	3	4	3
	Staffing —AFIS Photographer to Support Latent Processing	m	-	7	2	1	7	6	m	S	3		-	6	1 8	S	7	7	3
	Completed Palm File Conversion	5		2	n	4	-	'n	2	2	2	†	8	8	5	†_	\v_	4	4
4	Court Identification – Pilot Projects	2	4	3	7	4	5	S	-	-	2	6	3	2	3	, E	, v	4	4
	Live Scan Increase - Applicants	3	4	4	4	S	6	4	2	2	3	60	3	2	5	6	\ \ \	"	4
5	Mobile ID – Pilot Projects (50 Units) ²²	2	4	4	4	S.	3	4	3	4	2	8	2	8	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20	3	2 0	
		İ				1											_		

Overall Scoring Process:

(1=High, 5=Low). The average of the ranking scores was taken to create the overall ranking. The enhancements are displayed based on overall ranking. Each respondent ranked the potential enhancements in order of consensus for funding. The ranking was done based on a numerical scale between 1-5 Within each overall category, the enhancements are displayed in alphabetical order.

from TSC – see appendix D, page 51: "Not certain of regional responsibility to fund this for local jurisdictions that want to use it. At 50 units, is it an implementation plan or a pilot program? Complex both technically and from a business perspective due to the variety of jurisdictions involved and their unique ²² The Technical Sub Committee reviewed the pilot project with an assumption of 50 units. The TSC felt strongly that (quoted from the Summary of Themes technical configurations." The AAC took their comments under advisement and, as a result, reduced the pilot to 10 units.

E. SURVEY OF TEN-PRINT AND LATENT OPERATIONS

Ten Print Service Operations

Agencies Surveyed: Algona Police Department, Auburn Police Department, Bellevue Police Department, Black Diamond Police Department, Bothell Police Department*, Burien (KCSO Pct. 4) (Includes Vashon Island, Clyde Hill Police Department, Des Moines Police Department*, Duvall Police Department, Enumclaw Police Department, Federal Way Police Department, Issaquah Police Department, Kenmore (KCSO Pct. 2) (Includes Woodinville), Kent Correctional Facility, Kent Police Department, Kirkland Police Department, Lake Forest Park Police Department, Maple Valley (KCSO Pct. 3) (Includes Covington, Muckleshoot Tribe, Newcastle, and Towne of Beaux Arts Village) *, Medina Police Department, Mercer Island Dept. of Public Safety, Normandy Park Police Department*, Pacific Police Department, Port of Seattle Police Department, Redmond Police Department, Renton Police Department, Sammamish (KCSO Pct. 2) (Includes Skykomish and North Bend), SeaTac (KCSO Pct. 4), Shoreline (KCSO Pct. 5), Snoqualmie Department of Public Safety, Tukwila Police Department, University of WA Police Department

*Although attempts were made to contact these Law Enforcement Agencies, KCSO AFIS Program was unable to speak with them.

In relation to AFIS, are there any gaps in service that you have recognized? What are they?

- Ability to electronically transmit prints to Interpol**
- Difficulty in returning QID information to the original officer
- Make money and grants available to agencies to purchase Live Scan. Small agencies cannot afford the \$5000 needed to purchase the system

What is the top thing public and policy makers need to know about AFIS? Why?

- Very beneficial to our agency.
- Great response time, quick ID's extremely helpful.
- Immediate results on QIDs vital, building latent print database.
- Saves taxpayers money by allowing officers to do a cite & release at the precinct instead of having to transport to KCCF or RJC, keeps officers local.
- Makes our job easier; gives our officers an important processing and identification tool that is easy to use.
- Good for identification; good to have it open to all agencies in the county.
- Beneficial for identifying liars.
- Quick ID's, access to database is beneficial.
- Beneficial, especially for uncooperative suspects and identification.



- Agencies are relying more frequently on fingerprints for identification versus name or date of birth; this emphasizes the need for Live Scan.
- Interaction with other agencies regarding information sharing services; capture of information to build databases.
- Great system very happy with AFIS as a whole, don't want to lose it.
- Wonderful tool!
- Appreciate the rapid response.
- Instant results can mean the difference between life and death.
- Not just for law enforcement; but also for school districts, nursing and daycare applicants. Helpful to have electronic transmission on those.
- Beneficial in ID's and catching liars; database available to make it easier to find a name to go with latent prints.
- Huge benefit in tracking criminals, by providing fast fingerprint database search.

Anything that you, as AFIS users, want to know about AFIS?

- Information flow has been outstanding, much appreciated.
- Potential costs involved.

Are there any other enhancements/changes to AFIS that you feel would be important to pursue in the future?

- Mobile ID (6)
- Live Scan Upgrade (5)
- Live Scan for both Criminal and Applicant (4)
- Applicant Live Scan (3)
- Court Identification (2)

Latent Service Operations

Agencies Surveyed: Auburn Police Department, Bothell Police Department, Des Moines Police Department, Federal Way Police Department, Kent Police Department, Kirkland Police Department, Medina Police Department, Normandy Park Police Department, Pacific Police Department, Redmond Police Department, Renton Police Department, Tukwila Police Department

In relation to AFIS, are there any gaps in service that you have recognized? What are they?

- All items may not get processed due to time constraints. With a very large volume of evidence to process, reports may not go out in a timely manner.
- Officers are unable to obtain the victim elimination prints because of time constraints.
- LPE callout availability for more serious crimes than auto theft.**



- Additional staffing for processing of property crime evidence. Now, most evidence being sent to the processing lab is from major crimes.
- Processing Lab should be conveniently located to aid in the day-to-day operations.

What is the top thing public and policy makers need to know about AFIS? Why?

- The importance of the service the Latent Lab provides. Bothell services would come to a standstill without the Latent Lab; it is a lifesaver.
- Cases don't get solved as quickly as portrayed in the CSI television series. Cannot get fingerprint comparisons immediately, and DNA cannot be evaluated in a day.
- Appreciate the availability of LPE's to go on callouts to process vehicles, possibly
 involved in more serious crimes than auto theft. DMPD would send more
 evidence from their property crimes to the processing lab if there were additional
 staffing. Now, most evidence being sent to the processing lab is from major
 crimes. DMPD assumes that major crimes and rush cases always take priority.
- The Latent Lab does excellent work, is very responsive, but is understaffed.
- KC Latent Lab provides a necessary service to the agencies in KC that do not have their own latent lab facilities. KC has personnel with specialized training to provide processing and evaluation of latent prints.
- KC Latent Lab is very valuable to small and mid-sized police agencies that do not
 have the budget to fund their own processing labs. They need to provide these
 services for victims and citizens. Need to educate the public on how important
 the passage of the upcoming AFIS Levy is, to maintain current levels of service.
- The Latent Lab examiners and clerical unit have been very responsive to requests.
 NPPD is amazed at how quickly LL locates cases for them with very little information provided.
- The importance of funding police and fire, and not go to the public for the funding.

Anything that you, as AFIS users, want to know about AFIS?

- Can items for processing be mailed to the downtown courthouse?**
- Operating hours of the latent processing lab for receiving evidence.**
- Tour to understand what officers / LPE's do in order to achieve better understanding of services available.**
- Latent Lab availability for crime scene callouts.**
- Amount and type of evidence received and processed.

Are there any other enhancements/changes to AFIS that you feel would be important to pursue in the future?

- Improved turnaround time (2)
- Clearer reports
- Electronic reports
- Officer training for latent and DNA collection



- LPE training to remain current
- Dedicated counter to receive and return evidence
- Better communication between police agencies and King County

Other Comments:

- In the past, service from WSP in Olympia was faster than King County. In the last six months, the turn around time for reports from King County has vastly improved.
- It's very helpful to have clerks at the processing lab on Mondays and Wednesdays from 0900 to 1300. It used to be hit and miss as to when staff was available to receive evidence.
- The multi-agency Hit Report that is sent out each month by the LCU is very useful. It's helpful to see what other agencies are doing, and see that suspects are crossing jurisdictional lines in committing crimes.
- LPE's are helpful and forthcoming with information. There are helpful illustrations at the lab that highlight numerous procedures. Very happy with fast service the Latent Lab provides.
- The Processing Lab is in a very convenient location for Bothell PD. The Latent Lab is always very responsive to callouts and helpful in any way possible. Very satisfied with the current service.

^{**} These items are being addressed within the existing AFIS Program.



F. LIVE SCAN ELECTRONIC VS INKED FINGERPRINT SUBMITTALS

	Location/Agency	Percent of Total Volume
	Auburn Police Department	
ļ	Bellevue Police Department	
	Bothell Police Department	
}	Burien (KCSO Pct. 4)	
	Covington (KCSO Pct. 3)	
	Des Moines Police Department	
l	Duvall Police Department Federal Way Police Department	
į	Issaquah Police Department	
	Kenmore (KCSO Pct. 2)	
	Kent Police Department	
	Kirkland Police Department	
j	Lake Forest Park Police Department	
Live	Maple Valley (KCSO Pct. 3)	
Scan	Mercer Island Dept. of Public Safety	97%
Scan	Muckleshoot Tribe (KCSO Pct. 3)	
1	Newcastle (KCSO Pct. 3)	
	Northbend (KCSO Pct. 2)	
1	Port of Seattle Police Department	
	Redmond Police Department	
	Renton Police Department	
	Sammamish	
	SeaTac (KCSO Pct. 4)	
	Seattle Police Department	
	Shoreline (KCSO Pct. 5)	
	Skykomish (KCSO Pct. 2)	
	Town of Beaux Arts Village (KCSO Pct. 3)	
	Tukwila Police Department	
	Woodinville (KCSO Pct. 2)	
	Algona Police Department	
	Black Diamond Police Department	
	Clyde Hill Police Department	
Inked	Enumclaw Police Department (Agency Declined Unit)	20/
Prints	Medina Police Department (Agency Declined Unit)	3%
ļ	Normandy Park Police Department	
	Pacific Police Department	
	Snoqualmie Department of Public Safety	1
	University of WA Police Department	

KC non-Live Scan agencies submit fingerprints via fax when an identity is in question, for a quick response.

Other agencies outside of King County also submit prints on questionable identities via fax. Medical Examiner (fax and ink) submissions are not included in these numbers.

All agencies that applied and were granted a Live Scan agreed to the following: "All Live Scan Capture Stations that have been installed by the King County Regional AFIS Levy will be shared with any neighboring King County law enforcement agencies and no charge for the use of those devices to other King County agencies will be levied."



G. LIVE SCAN EQUIPMENT LOCATION – 2005

	Live Scan Equipment Location	Number of Machines
	Auburn Correctional Facility	1
ĺ	Bellevue Police Department	1
1	Bothell Police Department	1
	Burien (KCSO Pct. 4)	1
	Des Moines Police Department	1
ŀ	Duvall Police Department	1
İ	Issaquah Police Department	1
	Kenmore (KCSO Pct. 2)	1
TP600	Kent Police Department	1
(end of	King County Courthouse (Applicant)	1
life units	King County Courthouse (Training)	1
to be	King County Youth Services Center (Courts)	1
replaced	Kirkland Police Department	1
in 2007)	Lake Forest Park Police Department	1
	Maple Valley (KCSO Pct. 3)	. 1
[Mercer Island Dept. of Public Safety	1
	Port of Seattle Police Department	1
	Sammamish (KCSO Pct. 2)	1
1	SeaTac (KCSO Pct. 4)	1
1	Seattle Police Department (Public Records Unit)	1
	Shoreline (KCSO Pct. 5)	1
r	Tukwila Police Department	1
	Total TP600 Live Scan Machines	22
	Bellevue Police Department	1
	Federal Way Police Department	1
	Kent Correctional Facility	1
TP3800	King County Correctional Facility	3
(installed	King County Regional Justice Center	2
in 2005)	King County Youth Services Center	1
	Redmond Police Department	2
	Renton Correctional Facility	1
	Total TP3800 Live Scan Machines	12



H. ENHANCEMENTS APPENDICIES



New Generation AFIS

(Dollars in thousands)

6-Year Cost:	\$5,835	Timeframe	2007 - 2008
TSC Category	1	AAC Funded Priority	YES

Program Description and Need:

The current AFIS Computer requires replacement in order to increase crime scene latent hit rates as well as increase storage capacity and functionality. Further, any additional features, such as Mobile Identification, Court Identification, Palm Matching, 1000 ppi resolution, or other technological advancements being implemented by other AFIS Sites throughout the nation are dependent on a New Generation AFIS Computer.

The replacement of the current AFIS Computer and its peripheral equipment, which was installed in 1988 and upgraded for Y2K compliance in 1999, would consist of all hardware, software, and maintenance to support the standard Ten-Print and Latent Databases, Matching System, and an Image Archive System. It is also the foundation for further enhancements, and potential realization of higher latent hit rates when implemented. The features of the New Generation AFIS Computer would include:

- Conversion to Gray Scale: A New Generation AFIS Computer will allow for the conversion of the remaining binary images (64% of the AFIS Database) to gray scale images. This change is expected to increase AFIS accuracy, due to the more true-to-life appearance of the print. This is the last manual database conversion the King County Regional AFIS Program would ever require.
- Full Finger & Flat Impression Storage & Matching: The AFIS Computer used today is capable of storing and matching upon only the first joint of the finger, for both ten-print and unsolved latent prints. The New Generation AFIS Computer can also store the plain (non-rolled) impressions of the thumbs and four fingers of each hand that are taken at the same time. In a recent study performed by the FBI and Los Angeles (California) Sheriff's Office, latent hits increased by 13% with the addition of flat impression storage and matching.
- Increased Capacity: Database storage capacity would be expanded for growth.
- Multiple Record Matching & Storage: Currently, only one full set of
 fingerprints per individual can be stored and searched upon within the AFIS
 Database. In the New Generation AFIS Computer, up to five records per
 individual can be stored and searched on, which could significantly increase the
 chance of a hit.
- Higher Resolution of Matching & Storage: Fingerprints would be electronically stored in the New AFIS Image Archive System at 1000 ppi. Currently, the electronic images are stored at the national standard resolution of 500 ppi, which makes latent comparisons more difficult. The FBI highly recommends capture and storage of fingerprints at 1000 ppi. With the new system, these images will be available for viewing by operators through their PC's, eliminating the need for retrieving, reviewing, and re-filing hard copy fingerprint cards currently used in the comparison process.



- Four-finger Search: Instead of using two fingers for a ten-print search, four would be used by the new system. This change would give the system additional information to search on, moving potential fingerprint matches to the top of the candidate list, reducing the Ten-Print Identification Technician's time spent browsing candidate lists, resulting in a more efficient use of time.
- Modular Design: The New Generation AFIS Computer will be modular in design and will allow for future enhancements to be easily added, without a full-scale system upgrade, unlike the current system that requires total replacement of major components in order to increase storage or throughput. It will be configured to incorporate electronic palm print storage and matching without extensive programming changes.
- Universal Workstations & Improved Operability: With the addition of Universal Workstations, Ten-Print and Latent staff can search the FBI's national Integrated Automated Fingerprint Identification System (IAFIS) and the King County Regional AFIS Database via one workstation rather than two. With improved user interfaces, operators can work faster without losing quality or accuracy. Quality assurance measures that are now being handled manually are built into the new system. Automated ten-print searches would be launched against the Latent Database upon receipt of prints taken of new arrestees.

Impacts on AFIS:

Additional latent and ten-print hits are expected and would be measured, turnaround times of ten-print identifications would improve, and more "liars," would be identified. A New Generation AFIS Computer is essential for the implementation of other technology proposals, such as Palm Storage and Matching, Mobile Identification, and Court Identification. The current system cannot support the infrastructure for these enhancements.

Other Impacts:

Information Technology Services has received a general notification at this point and would be involved in the RFP process, contract negotiations, design phase, and implementation stages. Implementation of a New Generation AFIS would result in additional "hits" and faster response times. The cities have been notified and although minimally impacted, Department of Adult and Juvenile Detention has been notified as well.

Timeline:

This project would be scheduled to begin immediately upon voter approval of the AFIS Levy and the 2007 budget approval process. It is estimated to take approximately two years to complete.

Cost Estimates and Assumptions:

The estimated cost is the midpoint of estimates received from two different AFIS vendors. The estimate includes all hardware, software, and maintenance required to

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implement a new AFIS as well as a three-year TLT project manager, technical consultant expertise and contingency reserves of 20% on all labor elements and 10% on all non-labor elements. The estimates were based upon projections of maximum database capacity, specific daily and peak hourly transactions, and expected response times. The estimate assumes refreshment in 2014.

Other alternatives considered:

To reject this New Generation AFIS Package would result in an intermediate upgrade to the existing AFIS Computer. This upgrade would increase some functionality, but would not increase crime scene latent hit rates and would cost between \$1.0 and \$1.5 million. In addition, the storage capacity would be reached, and no more prints could be registered to the system. The number of latent hits would not be maximized if the first joint of the finger remains the only area to search against and binary images remain in the AFIS Database. Further, no additional features such as Mobile Identification, Court Identification, Palm Matching, or any other technological advancements being implemented by other AFIS Sites throughout the nation, could be added. The current system cannot support the infrastructure for these enhancements.



Live Scan High Definition Upgrade

(Dollars in thousands)

6-Year Cost:	\$404	Timeframe	2008
TSC Category	2	AAC Funded Priority	YES

Program Description and Need:

Upgrade all Live Scan Capture Stations to produce images at 1000 pixels per inch (ppi) with High Definition Scanners and capture the first FBI certified 1000 ppi images in King County. The High Definition Scanners are not currently being produced, and the model being described in this document is not expected to be available until late 2007. The change to 1000 ppi image capture capability is a field upgradeable swap-out of the optical sensor deck and application software. The upgrade should take no more than four hours at each site, and can take place during non-peak work hours.

Impact on AFIS:

In many cases, Latent Print Examiners can positively identify a crime scene print that is the size of a pencil eraser. However, when working with such a small area, the clarity of ridge detail becomes even more important. More pixels per inch means more data captured, which enables Latent Print Examiners to identify fingerprints left at crime scenes and increases the likelihood of identifying a suspect.

This upgrade will improve the quality of the images stored in the AFIS Image Archive System to 1000 ppi. The FBI has recommended capturing fingerprint images at 1000 ppi for many years, although it has not been mandatory for submission. Planning for 1000 ppi will assure that the King County Regional AFIS Program is compliant with any new federal standards.

Other Impacts:

The higher image quality would only be cost effective if the AFIS Image Archive System was upgraded to store 1000 ppi images. This option is being considered in the New Generation AFIS Decision Package. It will also increase file size and the need for additional storage. Storage options are being addressed with the implementation of the New Generation AFIS.

At 1000 ppi, the files will be approximately four times greater than the current size. Transmission time of the entire record from the suburban agencies may increase by up to one or two minutes per record. This increase should be transparent to the user, and is small enough to have virtually no effect on the Ten-Print Unit's ability to identify subjects before their release from custody. The only anticipated impact to other agencies would be a short system downtime while the upgrade is performed.

Timeline:

The field upgrade to all existing Live Scan Capture Stations would occur in 2008.

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Cost Estimates and Assumptions:

This estimate is based on an informal estimate provided by the Live Scan manufacturer to retrofit the current 34 Capture Stations throughout King County.



Live Scan Increase - Criminal Capture Stations

(Dollars in thousands)

6-Year Cost:	\$297	Timeframe	2007 - 2008
TSC Category	2	AAC Funded Priority	YES

Program Description and Need:

In the 1995 AFIS Levy, the decision was made to provide Live Scan throughout King County. The King County Regional AFIS Program has surveyed its customers and reviewed previous requests, and found that there are still areas of the county that would benefit from the use of Live Scan technology. The allocation of full size Capture Stations are based on the estimated volume of potential fingerprints, the location of the facility and their access to another unit, the type of facility (i.e. jail or holding area), and whether the Capture Station would be used for criminal processing or applicant processing. Priority is given to the potential capture of criminal records over applicant.

Allocate funding for the purchase and maintenance of additional Criminal Live Scan Capture Stations to capture additional criminal prints throughout the County proposed for the following agencies:

- Enumclaw Jail Previous space issues preventing deployment have been resolved.
- Snoqualmie Remote location. Can share with North Bend.
- SPD Two units designated for precincts, one north and one south.
- UWPD UWPD's request for a Live Scan was previously denied due to lack of funding to support all requests for Live Scan Capture Stations.

Actual location of the units will be reviewed and established by the AAC based on need and estimated volume at time of implementation.

Impact on AFIS:

Depending on the number and type of Capture Stations purchased, it can increase the number of prints submitted to AFIS by 5,000 to 10,000 records a year. Impacts include an increase in liars identified prior to their release from custody, broader jurisdictional coverage, an increase in the number of prints submitted to the AFIS Database, and the potential for more latent cases solved against newly registered prints.

Other Impacts:

All county and city agencies have been surveyed on their need and willingness to participate in the King County Live Scan Program. This proposal would close existing gaps in services where Live Scan is not available to agencies for capturing criminal prints.

Timeline:

Two Capture Stations would be purchased and deployed in 2007 and three in 2008. Capture Stations would have end-of-life refreshment in 2014 and 2015.

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Cost Estimates and Assumptions:

The costs are based on an informal estimate provided by the Live Scan vendor for five additional criminal units. Annual maintenance fees to maintain 24/7 or 9/5 service, depending on the location and volume of the capture stations, are included. The units should also be considered for end-of-life replacement approximately seven years from the date of purchase.



Palm Activation with Minimum Master Card Conversion

(Dollars in thousands)

6-Year Cost:	\$1,071	Timeframe	2007 - 2008
TSC Category	2	AAC Funded Priority	YES

Program Description and Need:

Enable the AFIS Database to electronically store and search palm prints, and convert approximately 400,000 existing primary inked palm print cards to electronic versions. Convert only the primary or Master Palm Print Card for each individual who has been palm printed.

The Palm AFIS implementation is dependent on the installation of a New Generation AFIS. The Live Scan replacement proposal is also interrelated, in that Live Scan Capture Stations will serve as the main point of input for Palm AFIS.

Impact on AFIS:

The AFIS Ten-Print and Latent Databases contain only the first joint of the finger. It is estimated that approximately 30-35% of the latent prints found at crime scenes are from palms or other areas of the finger. With the capability to store full-hand prints and to match latent prints against them, the number of latent hits would increase, solving more crimes.

Other Impacts:

Implementation of a Palm AFIS would result in additional latent hits. The police departments within King County will experience an increase in hits, and therefore solve crimes that otherwise may have gone unsolved.

Timeline:

Palm AFIS would be an extension of the New Generation AFIS Project, which is scheduled to begin immediately upon voter approval of the AFIS Levy and the 2007 budget approval process. It is estimated to take approximately two years to complete.

Cost Estimates and Assumptions:

The costs are based on the midpoint of estimates received from two AFIS vendors. The estimate includes card conversion of 400,000 Master Palm Cards, additional storage, matching power, and maintenance required for Palm AFIS implementation, and a 10% contingency reserve on all non-labor elements. The estimate assumes refreshment in 2014.

Comparison with Other Jurisdictions:

Pierce County Sheriff's Office

- Palm AFIS went online in December 2004 with no conversion (zero database day forward input of new records)
- Palm database has grown to 50,000 masters only (no duplicates, retains best quality)



 PCSO estimates an overall palm hit rate of 3-5%, but attributes low numbers to the fact that they had no initial conversion and are operating off of a very small database

Source: Alan Johnson, Lead Forensic Technician

Note: There are no other existing Palm AFIS capabilities in the State of Washington for peer review, although Snohomish County does have a current bid for a Palm AFIS scheduled to close on February 14, 2006. This will be Snohomish County's first AFIS system (finger and palm), and is being implemented on a much smaller scale than what is typical for a large metropolitan area, making it of limited value for comparison.

California Department of Justice

- Palm AFIS went online in September 2003 with a conversion of 200,000 master cards only (no duplicates)
- Palm database has grown to 800,000 in two years, largely due to a California Initiative requiring palm prints and DNA collection on all felony charges (currently receiving over 70,000 electronic palms per month)
- CAL DOJ is not able to provide a percent hit rate, but states that they have made over 500 palm hits in the last two years, and were excited to note that many of those were on old "cold cases"

Source: Gordon Lowe, Manager for the California Automated Palm Print System

Indianapolis Police Department

- Palm AFIS went online in June 2003 with a conversion of 15,000 master cards only (no duplicates)
- Indianapolis had close to 200,000 cards on file, but did not convert them all due to cost
- Palm database has now grown to approximately 100,000 records
- Indianapolis has made 398 latent palm hits since implementation. In the same period of time they made 1,251 latent finger hits, which meant palm hits accounted for 25% of the total latent hits

Source: Mike Knapp, Latent Supervisor

San Francisco Police Department/Sheriff (Shared)

- Palm AFIS went online in February 2002 with a conversion of 150,000 master cards only (no duplicates)
- Palm database has grown by approximately 40,000 new records a year since implementation
- SFPD estimates an overall palm hit rate of 23%

Source: Mike Gaynor, Homicide Detective and Former AFIS Project Manager

Los Angeles Police Department/Sheriff (Shared)

Palm AFIS went online in October 2003 with a conversion of 250,000 cards, including duplicates, and then another 100,000 a year later. Receiving about 1,000 palms a day now from Live Scan



LASD estimates an overall palm hit rate of 2%, but attribute the low number to the size of their database, the large number of "old" palms included that are less likely to hit, and the fact that their Palm AFIS does not have an unsolved latent database, so latent palm prints would have to be manually re-run as new subjects' palms are added to the database as they come in (which staffing levels do not allow)

Source: Lisa Jackson, Forensic Identification Specialist and Technical Lead

Conversion Cost Comparison:

Pierce County Sheriff's Office	No conversion
California Department of Justice	Approximately \$3.50/card
Indianapolis Police Department	\$4.50/card
San Francisco Police Department/Sheriff	\$1.00/card
Los Angeles Police Department/Sheriff	\$1.00/card

Two AFIS vendors (NEC and Cogent) stated that while \$2 per card is a good estimated number, it is highly variable based on the number of demographic fields that must be manually entered for each card, and the amount of human intervention requested to adjust the alignment of images on the card. Both vendors also agreed that through a competitive Request for Purchase (RFP) process, it could be possible to go as low as \$1 per card (or even 50 cents), but that \$2 a card was a good average price for estimation.

Both vendors were asked why the cost was higher than a typical document archival process. One vendor cited the need to extract minutiae for the database searches, and the other added that the FBI certified equipment required for conversion was much more costly than a typical scanner. Both stated that there is a significant difference in the detail and image quality between a fingerprint image and a standard document that is being scanned for archive purposes.



Staffing to Support Palm Search Capabilities

(Dollars in thousands)

6-Year Cost:	\$1,226	Timeframe	2009
TSC Category	2	AAC Funded Priority	YES

Program Description and Need:

Additional staffing is needed to support the implementation of Electronic Palm Storage and Searching capabilities. This will require more AFIS entry time, comparison time, and time in court. The King County Sheriff Office (KCSO0 Latent staff researched all 2005 case submittals for the KCSO, its Contract Cities, and Suburban Cities. It found 34% of all cases had latent finger and palm prints, and of those, 11% had palm prints only.

There are 1,933 remaining unidentified latent palm prints in those cases. AFIS management has created and tested detailed staffing models to determine levels of staffing required for projected workloads, based on timing of tasks and completed caseloads. Based on these models, three additional Latent Print Examiners (two at KCSO and one at SPD) will be required in 2009 to support the workload increases due to electronic palm capabilities.

Impact on AFIS:

The estimated increase in solved crimes due to Electronic Palm Storage and Search capabilities should be between 20–30%.

Timeline:

This staff would not be hired until the New Generation AFIS, and associated Palm Activation and Minimum Master Card Conversion were complete, which is projected for completion toward the end of 2008.

Cost Estimates and Assumptions:

This estimate is based on salary and benefit costs for three Latent Print Examiners. Onetime employee start-up costs and ongoing training are included in the cost estimate. King County salaries and benefits are escalated according to the proforma and Current Expense Fund (CX) financial plan assumptions. Seattle Police Department costs assume a 3% annual increase in salaries and a 7% annual increase in benefits.



Court Identification Feasibility Study

(Dollars in thousands)

6-Year Cost:	\$120	Timeframe	2008 - 2009
TSC Category	3	AAC Funded Priority	YES

Program Description and Need:

Conduct a Court Identification Feasibility Study to analyze and make recommendations on the concept of taking fingerprints in court, for three purposes:

- 1. To ensure proper identification of the offender through fingerprints.
- 2. To add his/her prints to the AFIS Database for future ten-print and latent print matching and, therefore, assist in solving crimes and providing verification in cases of alleged identity theft.
- 3. To pass on the arrest information electronically to WSP for addition to the individual's rap sheet.

The Feasibility Study would research the costs and benefits to the regional criminal justice system of adding a court fingerprinting practice for misdemeanant or gross misdemeanant subjects cited and released in the field without being fingerprinted. The project manager will ask the consultant to report on three major pieces: the Feasibility Study, the Pilot Project, and the evaluation component.

Currently, in most limited jurisdiction courts in the county, only those defendants who are booked in relation to their offense are fingerprinted. Therefore, many offenders appearing in court have never been fingerprinted on the charges for which they are being adjudicated. Based on the outcome of the Court Identification Feasibility Study, implementation of fingerprinting in the limited jurisdiction courts would increase the quantity of prints in the AFIS Database. The court would have fewer identification challenges and better identity information on their defendants.

Impact on AFIS:

Fingerprinting in the limited jurisdiction courts could potentially provide upwards of 20,000 non-duplicated prints added to the AFIS Database on an annual basis. With these fingerprints added to the database, hit rates could increase and more 'liars' could be caught.

Other Impacts:

The outcome from the study will have policy and operational impact on the King County Courts. Representatives from both King County Courts and Washington State Patrol would be part of the Court Identification Feasibility Study and court policy makers would be part of the project steering committee. The Court Identification Feasibility Study would also review and evaluate the impact to the County's Wide-Area Network (WAN) of transmitting the additional fingerprint data.

Timeline:

The Court Identification Feasibility Study is estimated to take 12-24 months and would begin in 2008.



Cost Estimates and Assumptions:

The consultant cost for the Feasibility Study is estimated to be \$100,000 over two years. A 20% contingency has been added to the estimate.



Mobile Identification Infrastructure (Including Three-Unit Vendor Proof of Concept)

(Dollars in thousands)

6-Year Cost:	\$843	Timeframe	2008 - 2009
TSC Category	3	AAC Funded Priority	YES

Program Description and Need:

Mobile Identification is the rapid positive fingerprint identification of individuals, potentially in under three minutes, from wireless handheld devices. Significant changes are required at the Central Site to receive these fingerprints for identification: an upgraded AFIS Computer, an upgraded record management server, development of technical specifications for application software and integrations, the development of countywide standards for transaction type, image and data quality, and network security.

Mobile Identification capability is dependent on the implementation of a New Generation AFIS, and is enhanced by the Live Scan Status Quo Upgrade being considered for 2007. The connections are secured with FIPS-140 certified middleware Netmotion. This capability would complement the existing King County Sheriff's Office wireless implementation.

This project supports the necessary changes to the Central Site to allow the King County Regional AFIS Program to begin accepting records from mobile devices, and includes funding for three field units from different vendors to test the system to assure the proof of concept is sound.

Impact on AFIS:

Generally, unless a remote booking option is implemented, fingerprint images captured and searched are not retained in the AFIS Computer. However, positive fingerprint identification at the front-end of the process allows increased identification of potentially wanted or dangerous individuals and keeps officers on patrol, rather than forcing them to return to a precinct for subject identification.

Other Impacts:

Other law enforcement agencies would gain the benefit of access to King County Regional AFIS fingerprint data via Mobile Identification, allowing the officers to focus time in the community instead of at the precincts. It is possible that a system could be devised to link verified identifiers to citations, which would assist the courts and prosecutors with cases. County and Cities have been notified via Regional AFIS User Forums, Regional Auto Theft Initiative Committee Meetings, and ongoing presentations.

Timeline:

This project would not begin until Central Site Live Scan equipment has been upgraded in 2007 and until the Regional AFIS Program has installed a New Generation AFIS with an option for the wireless Mobile Identification capability, which is projected for completion toward the end of 2008.



Cost Estimates and Assumptions:

This estimate is based on informal vendor estimates to prepare Central Site equipment and includes licensing, maintenance, software, customizations and integrations, three field units for proof of concept testing, and a 10% contingency on all non-labor elements. A .67 FTE LAN Administrator is included to assist with the increased workload. This estimate does not include the cellular service to connect to the Central Site or ongoing maintenance for units after the initial testing phase.



Workload Driven Staffing

(Dollars in thousands)

6-Year Cost:	\$954	Timeframe	2009 - 2012
TSC Category	2	AAC Funded Priority	YES

Program Description and Need:

This proposal requests the staffing levels required to maintain status quo activities with the expected workload increase in volume of fingerprints and latent crime scene evidence. AFIS management has created and tested detailed staffing models to determine levels of staffing required for projected workloads, based on timing of tasks and completed caseloads. Two different categories of staffing models are used – one for the Jail Identification and Ten-Print Units based on timed activities and a projected 1% annual volume growth in fingerprints, and a different staffing model for the Latent Print Units based on incoming caseload and completed cases. The process for each of these staffing models is briefly described below.

Jail Identification and Ten-Print Staffing Models

- Time the tasks done by Identification Technicians and Sheriff's Data Specialists
 in each of the Jail Identification Unit (1) and the Ten-Print Units (2) to determine
 average times to perform job functions, such as: fingerprinting subjects booked
 into jail using Live Scan Capture Stations; photographing subjects with the
 C.R.I.M.E.S Capture Station, searching prints against the AFIS Database;
 verifying identifications; editing and transmitting arrest information to WSP for
 rap sheet update and subsequent transmission to FBI; and performing quality
 control measures.
- Allow for a 1% increase in volume growth annually; multiply times for tasks by the number of estimated occurrences per year to calculate the total number of minutes to complete the tasks in a year.
- Estimate the number of minutes available per employee per year, accounting for average vacation, sick leave, holidays, etc. in the year.
- Divide the total number of minutes required to complete work in a year by the
 total available minutes per employee per year to calculate the number of FTEs
 required to complete the workload.

Latent Unit Staffing Models

- Document the number of incoming crime scene latent cases per year for the past four years (SPD) or six years (KCSO) to determine the average increase in cases per year.
- Apply the average increase in incoming cases (1.8% for KCSO and 2.3% for SPD) to determine projected caseload per year over a ten-year period.
- Record the number of completed cases per Latent Print Unit (SPD, KCSO) per year. Divide by the number of Latent Print Examiners (LPE) working in each Unit to get the number of completed cases per LPE. The average over the last two to four years is 416 for SPD and 378 for KCSO.



 Divide the projected caseload by the average completed caseload per LPE to obtain the number of LPE FTEs needed per year.

Impact on AFIS:

Additional Identification Technicians and support staff will be needed in the Ten-Print Units to capture and identify an increasing number of fingerprints in a 24/7 operation, and to assist in latent print processing. The Latent Print Units currently carry backlogs of latent cases every year. On average, the number of incoming cases increases 1.8%-2.3% per year. Without the support staff to work the growing number of incoming crime scene latent cases and the backlog each year, these backlogs will grow larger every year.

Timeline, Cost Estimates and Assumptions:

Over a six-year period, four additional FTEs are requested to continue status quo activities with an increased workload. One-time employee start-up costs and ongoing training are included in the cost estimate. King County salaries and benefits are escalated according to the proforma and CX financial plan assumptions. SPD costs assume a 3% annual increase in salaries and a 7% annual increase in benefits. This cost estimate does not include positions tied to any other decision package.



AFIS Photographers for the Photo Labs

(Dollars in thousands)

6-Year Cost:	\$954	Timeframe	2007
TSC Category	3	AAC Funded Priority	YES

Program Description and Need:

Presently, SPD and KCSO Latent Print Examiners rely on non-AFIS Photo Unit personnel to perform forensic-level photography and photographic preservation of latent images. The primary responsibility of the Photo Units is to provide photographic support for their entire organization. This means that AFIS is secondary to the general operation of the Photo Lab. Often this arrangement causes a delay in preserving and processing the latent images, hindering the identification process. By providing the Latent Print Examiners with a dedicated full-time forensic-level photographer, all latent images will be processed in a timely matter. This will reduce the occurrence of the latent images fading prior to preservation, and allow more images to be searched for AFIS hits.

Fund two full-time Senior Photographer positions, one position each for the Seattle Police Department and the King County Sheriff's Office. The positions will provide forensic level photography and photographic processing of developed latent images. In addition, the Senior Photographers will be available for on-call response to assist the Latent Print Examiners in the preservation of evidence at crime scenes. The Photographic Supervisors for each department will manage the positions. Creating this type of report structure assures that AFIS photography maintains 24/7 call-out coverage.

Impacts on AFIS:

More prints will be submitted into the AFIS Database due to the fact that the images will be preserved and/or processed in a matter of hours, verses the current wait of up to 30 days. This will eliminate the potential for the latent images to fade prior to preservation. The success of this program should be measured by a higher hit ratio, and more submissions into the AFIS Database. Additionally, the new positions will allow for the time-critical expedited processing of domestic violence cases, court cases, and latent cases to be worked concurrently, rather than consecutively.

Other Impacts:

The Latent Print and Photo Units have implemented procedures to shorten the length of time between chemical processing and photographic preservation. For instance, ninhydrin-processed images are no longer photographed using black and white film and filters but are digitized using a flatbed scanner process. However, due to prosecutorial concerns over digital versus conventional photography, photographers shoot a film based overall of the item. The overall holds enough clarity to answer rebuttal over the digital procedure. Additional procedures to shoot latent photography in 35mm film format and scanning images to a CD, allows immediate searchable prints into the AFIS Database.

King County Regional Automated Fingerprint Identification System
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Timeline:

The hiring will begin in 2007. The new photographers will undergo several months of technical and procedural training.

Cost Estimates and Assumptions:

The estimate is based on salary, benefit, and training costs for two photographer positions. Estimates also include one-time startup costs for furniture and equipment.



Court Identification Pilot Project

(Dollars in thousands)

6-Year Cost:	\$197	Timeframe	2010 - 2011
TSC Category	4	AAC Funded Priority	YES

Program Description and Need:

Currently, in most limited jurisdiction courts in King County, only those defendants who are booked in relation to their offense are fingerprinted. Therefore, many offenders appearing in court have never been fingerprinted on the charges for which they are being adjudicated. All charge information is currently updated to a name-only based system, without positive fingerprint identification. As a result, citizens are incorrectly issued court summons then appear at the Regional King County AFIS Ten-Print Unit, seeking assistance in clearing their names.

This project would fund a Court Identification Pilot Project conducted at three locations: one at the Municipal Court level, one at the District Court level, and one at the Superior Court level, based on the analysis and recommendations from the Court Identification Feasibility Study. This Pilot Project would be further defined after the feasibility analysis has been completed, so that recommendations can guide the project. The project manager will ask the consultant to report on three major pieces: the Feasibility Study, the Pilot Project, and the evaluation component.

Impact on AFIS:

Depending on the outcome of the Court Identification Feasibility Study, court fingerprinting could increase the ability of the Regional AFIS Program to capture as many prints as legally permissible in the AFIS Database. Implementation of fingerprinting in the limited jurisdiction courts would increase the quantity of prints in the AFIS Database. With these fingerprints added to the database, hit rates could increase and more 'liars' could be caught.

Other Impacts:

The Pilot Project would be designed to integrate into the New Generation AFIS database. Representatives from both the King County Courts and Washington State Patrol would be part of the feasibility study and court policy makers would be part of the project steering committee. The Feasibility Study would also review and evaluate the impact to the County's Wide-Area Network (WAN) of transmitting the additional fingerprint data.

Timeline:

The Feasibility Study is scheduled to start in 2008 and would take 12-24 months. Following that, the Pilot Project is estimated to take 12-24 months in 2010-2011.

Cost Estimates and Assumptions:

Costs include the purchase, installation, and maintenance of hardware in three pilot court sites, and an evaluation of the Pilot Project after completion. A .33 FTE LAN Administrator position has been included to provide support during the Pilot Project.



Mobile Identification Pilot Project

(Dollars in thousands)

6-Year Cost:	\$72	Timeframe	2009
TSC Category	5 ²³	AAC Funded Priority	YES

Program Description and Need:

Mobile Identification can support rapid positive fingerprint identification of individuals, potentially in under three minutes, from wireless handheld devices,. It would complement the existing King County Sheriff's Office wireless implementation. Cellular carriers Sprint and Verizon provide the existing KCSO wireless infrastructure

This Pilot Project supports purchasing 10 field units to enable local law enforcement agencies to test the technology for utilization in their jurisdictions. It is assumed that after the initial pilot phase agencies will purchase and maintain their own field units.

The Pilot Project is dependent on the Central Site modifications to be completed under the Mobile Identification Central Site project, which is dependent on the implementation of a New Generation AFIS, and is enhanced by the Live Scan Status Quo Upgrade being considered for 2007.

Impact on AFIS:

Generally, unless a remote booking option is implemented, fingerprint images captured and searched are not retained in the AFIS Computer. However, positive fingerprint identification at the front-end of the process allows increased identification of potentially wanted or dangerous individuals and keeps officers on patrol, rather than forcing them to return to a precinct for subject identification.

Other Impacts:

Other law enforcement agencies would gain the benefit of access to King County Regional AFIS fingerprint data via Mobile Identification, allowing the officers to focus time in the community instead of at the precincts. It is possible that a system could be devised to link verified identifiers to citations, which would assist the courts and prosecutors with cases. County and Cities have been notified via Regional AFIS User Forums, Regional Auto Theft Initiative Committee Meetings, and ongoing presentations.

Timeline:

This project would not begin until Central Site Live Scan equipment has been upgraded in 2007, and until the Regional AFIS Program has installed a New Generation AFIS with

²³ The TSC reviewed the pilot project with an assumption of 50 units. The TSC felt strongly that (quoted from the Summary of Themes from TSC – see appendix ______): "Not certain of regional responsibility to fund this for local jurisdictions that want to use it. At 50 units, is it an implementation plan or a pilot program? Complex both technically and from a business perspective due to the variety of jurisdictions involved and their unique technical configurations." The AAC took their comments under advisement and as a result, reduced the pilot to 10 units.

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an option for the Wireless Mobile Identification capability in 2008. The units would be purchased in 2009.

Cost Estimates and Assumptions:

This estimate is based on informal vendor estimates for ten units at \$5000 each, as well as \$820 per unit annual maintenance cost for one year. This estimate includes a 10% contingency on all non-labor elements and assumes that Law Enforcement Agencies will fund the wireless service costs for the units they are granted.



Complete Palm Card Conversion

(Dollars in thousands)

6-Year Cost:	\$468	Timeframe	2007 - 2008
TSC Category	4	AAC Funded Priority	NO

Program Description and Need:

Convert the approximately 200,000 existing secondary inked palm print cards to electronic versions for searching and storage in the AFIS Database.

This completed conversion would only take place if a Palm AFIS were implemented. The Palm AFIS implementation is reliant on the installation of a New Generation AFIS.

Impact on AFIS:

Convert the existing 200,000 secondary inked palm print cards to electronic versions. While the primary cards will be converted during the Palm Activation, secondary cards also provide value. A latent print containing the ridge detail the size of a pencil eraser may be found at a crime scene. If the particular area corresponding to that ridge detail on the primary card were smudged, the match would be missed. With the registration of the additional cards, the chance of a hit would increase.

Other Impacts:

The conversion of the secondary palm print cards could increase latent hit rates. The police departments within King County will experience an increase in hits, and therefore solve crimes that otherwise may have gone unsolved.

Timeline:

The Completed Palm File Conversion would be an extension of the Palm Activation and New Generation AFIS Projects, which are scheduled to begin immediately upon voter approval of the AFIS Levy, and 2007 budget approval process. It is estimated to take approximately two years to complete.

Cost Estimates and Assumptions:

The midpoint of estimates received from two AFIS vendors was used. The estimate includes card conversion of 200,000 secondary palm cards at \$2 per card, additional storage, matching power, maintenance required for Palm AFIS implementation, and a 10% contingency reserve on all non-labor elements.



Live Scan Applicant Units

(Dollars in thousands)

6-Year Cost:	\$256	Timeframe	2009 - 2010
TSC Category	4	AAC Funded Priority	NO

Program Description and Need:

While surveying King County Law Enforcement agencies to identify potential gaps in criminal identification services, five current Live Scan sites expressed interest in acquiring a second Live Scan Capture Station for the purpose of applicant fingerprinting only. Although the existing Live Scan Capture Stations are capable of capturing both criminal and applicant records, at some sites the units are located in a secure area and agencies are not able to allow the public access for fingerprinting. At one site, access was not a problem, but it was felt that the volume of records could justify a second unit.

In response to this interest, a proposal was presented for the purchase and maintenance of up to seven additional Live Scan units for the purpose of applicant printing only. It was suggested that the proposed units be distributed based on the sites' potential volume of records and their access to other Live Scan units, which is the same criteria used when distributing units for criminal processing.

Impact on AFIS:

Implementing Live Scan Technology as a service for applicant printing could make processing faster, cleaner, and more efficient for individual agencies, and may provide for the addition of a small percentage of records to the AFIS Database. However, failing to fund this improvement at a regional level through the levy has minimal effect on the Regional AFIS Program's primary goal of providing criminal identification services for improved public safety.

Other Impacts:

All county and city agencies have been surveyed on their need and willingness to participate in the King County Live Scan System.

Timeline:

The seven Applicant Live Scan Units would be purchased and deployed in 2009 and 2010, with refreshment 2014 and 2015.

Cost Estimates and Assumptions:

The costs are based on an informal estimate provided by the Live Scan vendor for seven additional applicant units, and for the annual maintenance fee to maintain 9/5 service. The Capture Stations should also be considered for end-of-life replacement approximately seven years from the date of purchase.

I: FINANCIAL EXPENDITURE DETAILS AND FINANCIAL PLAN

The chart below shows the total of the expenditures by year and item:

Costs in 000's		2007		2008	7	2009	7	2010	7	2011	73	2012	6 }	6 Year Total
New Generation AFIS	8	297	7	3,053	69	1,212	S	1,022	69	122	69	129	69	5.835
Live Scan Upgrade to High														2222
Definition				318		20		21		22		23		404
Live Scan Increase - Criminal Units		29		127		24		25		26		28		297
Palm Activation & Minimum Master														
Card Conversion			,	1,012		13		14		15		17		1,071
Staffing to Support Palm Search Capabilities				•		293		298		311		324		1.226
Court Identification Feasibility					: :		ì							
Study				48		72		1		•		ı		120
Court Identification Pilot			1	•		1		102		51		44		197
Mobile ID - Central Site				9/		394		118		124		131		843
Mobile ID - Pilots				•		. 63		6		,		,		72
Workload Based Staffing				E		131		205		303		315	Ĺ	954
AFIS Photographers		146	2	147		156		162		168		175		954
Total Initiative 2007-2012	S	510	8	4,781	ક્ર	2,378	S	1,976	69	1,142	S	1,186	€ 9	11,973
Status Quo		14,368	80	13,917		14,540		15,130		15,911		16,585		90,451
Total Forecasted Expenditures 2007-2012	69	14,878	9 9	18,698	89	16,918	€9	17,106	⊗	17,053	∞	17,771	€9	102,424

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King County

Financial Plan Forecast – Revenues, Expenditures, and Fund Balance Forecasted through 2012



2001-2005 Actual Revenue and Expenditures; 2006 Revenue Actual, Expenditures Adopted Budget

2007-2012 Proposed Statutory Rate of 5.25 Cents Per \$1000/AV