2018-B0158

King County
Department of
Natural Resources and Parks
Solid Waste Division

Waste Prevention | Resource Recovery | Waste Disposal

2019 Comprehensive Solid Waste Management Plan

Key Policy Choices

Disposal

Transfer Services

Recycling

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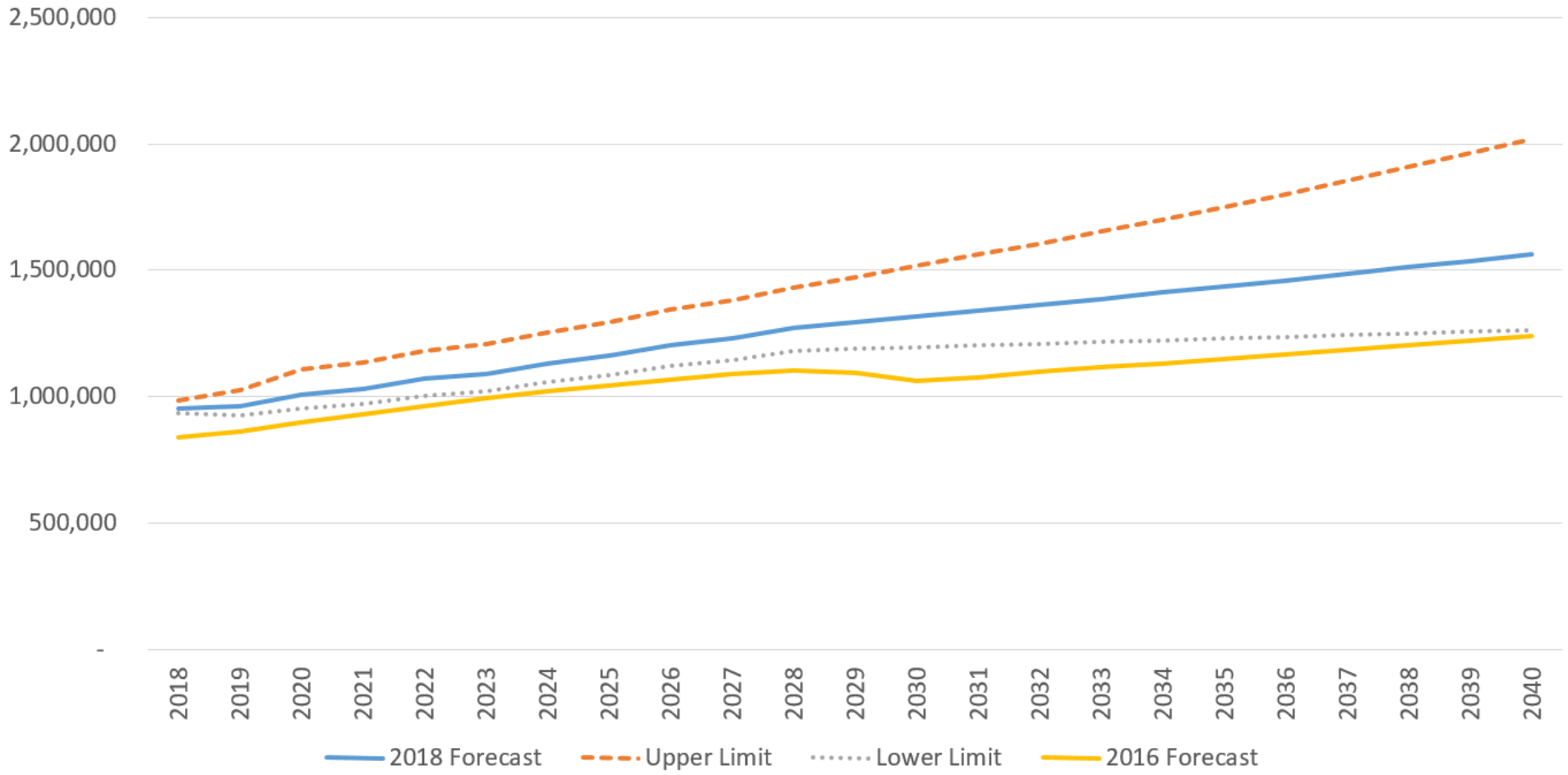
All The Easy Choices Have Already Been Made!

2018 Tonnage Forecast higher than 2016 Forecast



Cedar Hills Reaches Capacity in 2028 – What's Next?

Long Term Disposal

- Build new capacity to maximize Cedar Hills' life
- Export waste via rail
- Build a Waste to Energy facility

We only have 10 years to implement the right solution!

Comparison of Disposal Options

COMPARATIVE ATTRIBUTE	FURTHER DEVELOP CEDAR HILLS	EXPORT TO OUT-OF-COUNTY LANDFILL	WASTE-TO-ENERGY FACILITY
Cost per Ton (2029$)	$41	$55	$136
Life Cycle Greenhouse Gas Emissions (EPA's WARM Model)	(131,000) MTCO2e	(77,000) MTCO2e	12,000 to 80,000 MTCO2e
Annual Greenhouse Gas Emissions (EPA's eGGRT)	95,000 MTCO2e/year	95,000 MTCO2e/year	1,200,000 MTCO2e/year
Recycling Rate	No change	No change	2% increase
Risks	SEPA, Permitting	Rail Capacity, Control	Siting, Sizing

Cedar Hills Is Best Choice For Now
Options For Later Are Open

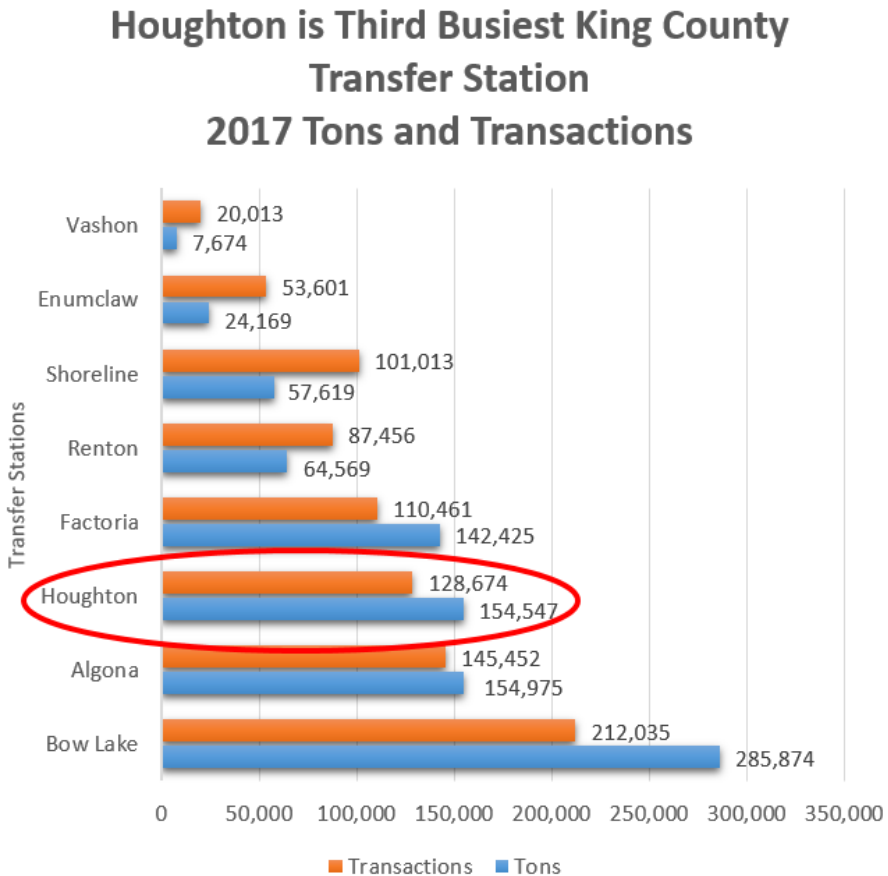
- Cedar Hills Advantages
  - Lowest Cost Per Ton
  - Most Favorable GHG
  - Manages Waste Locally
  - Lowest Experience Risk
  - Advisory Committee Support
- Export
  - Rail Capacity Risks
  - Higher Rate Impact
- Waste to Energy
  - Highest Rate Impact
  - Siting Challenges
  - Plant Sizing Risks

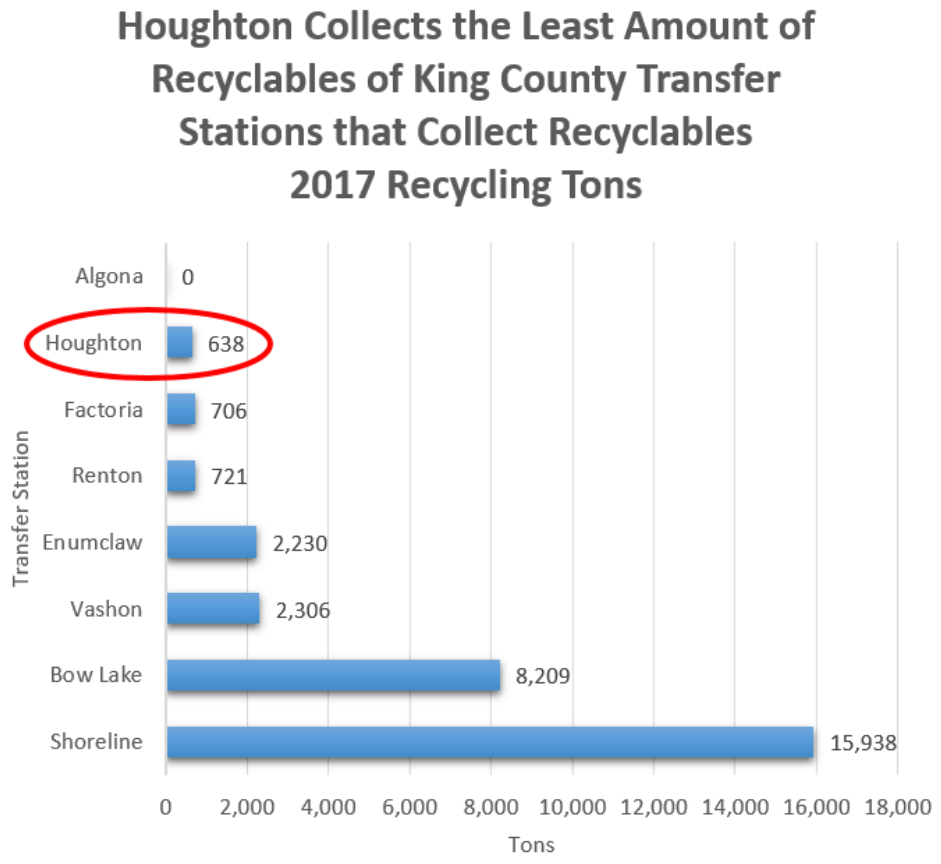
Will Northeast Be Only Urban Area Without Full Service Station?

Transfer Services

- Keep Houghton “As-Is”?
- Site and build a new facility?
- Use a combination of facilities?

Tons/Transactions vs Recycling at Stations





Full Service Station Costs More But Offers Greatest Flexibility and Environmental Benefits

Comparative Attribute	Houghton "As Is"	NERTS	Combo
Total cost per Ton (2029)	$2.39	$13.11	$9.79
GHG Reductions from Station Recycling (2029)	(2,165 MTCO2e)	(32,098 MTCO2e)	(28,802 MTCO2e)
Which of the 6 Key Levels of Service are Supported?	• ~~Daily Tonnage Capacity~~ • ~~Vehicle Capacity~~ • ~~Compaction~~ • ~~Recycling~~ • ~~Time On Site~~ • ~~Emergency Storage~~	• Daily Tonnage Capacity • Vehicle Capacity • Compaction • Recycling • Time On Site • Emergency Storage	• Daily Tonnage Capacity • Vehicle Capacity • ~~Compaction~~ • ~~Recycling~~ • Time On Site • ~~Emergency Storage~~
Recycling	• 3 Recyclable Materials	• 8+ Recyclable Materials	• 6 Recyclable Materials
Risks	• Limited Recycling • Little Flexibility For The Future • Host City Opposition	• Station Siting May Take Time And Be Costly • Potential Host City Opposition	• Limited Recycling • Less Future Flexibility • Siting Can Take Time • Potential Host City Opposition

NERTS is Best Choice for Environment, Equity & Service

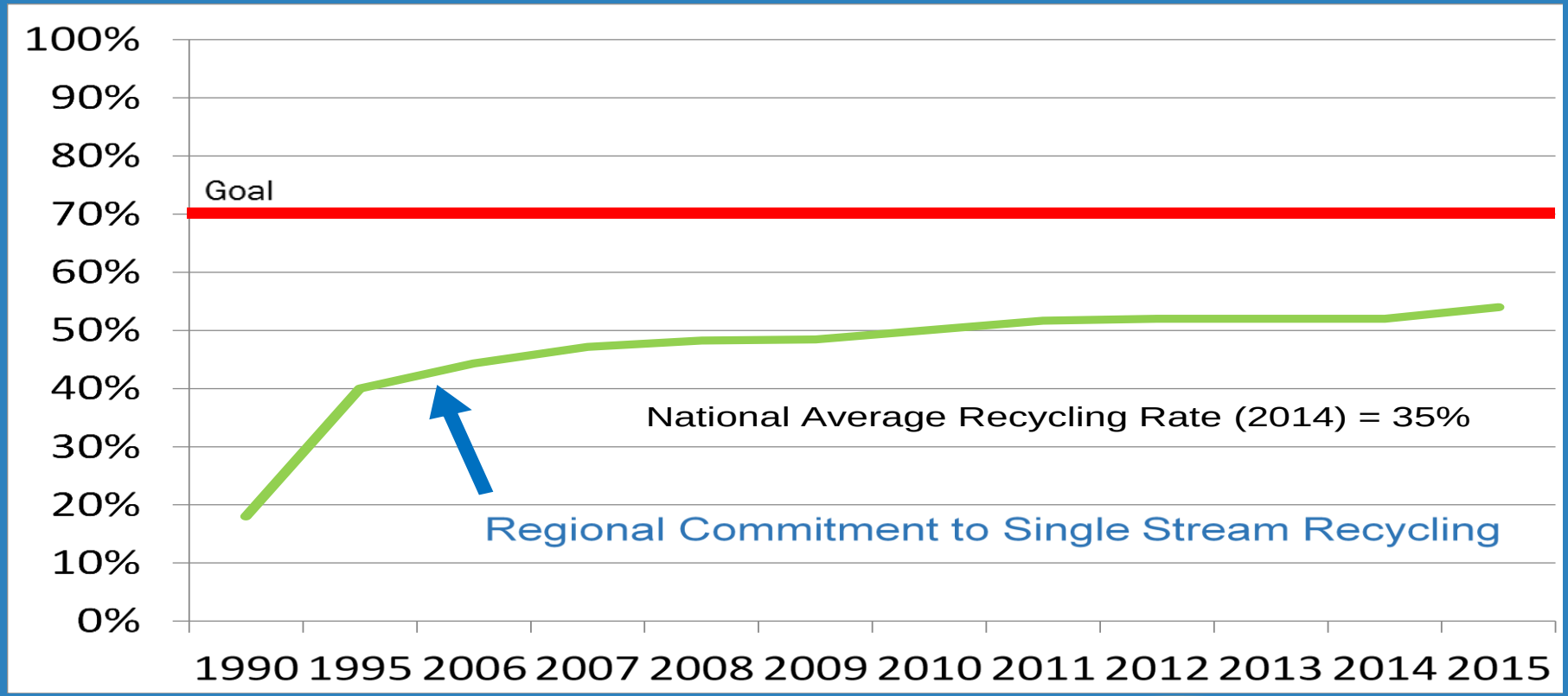
- New NE Station Advantages
  - Addresses Regional Inequities
  - Maximizes Service Offering
  - Most Favorable GHG
  - Most Cities Support Approach
  - Consistent with Long Standing Regional Plan
- Combo
  - Siting Challenges Multiplied
  - See Houghton "As-Is" Issues
- Houghton "As-Is"
  - Minimal Recycling
  - Low Operational Efficiency
  - Host City Concerns

NERTS is most expensive option, but <$1/month for single family customer

Recycling Goals Remain High But Progress Has Slowed

- Plan continues strong recycling focus.
- Plan offers a menu of choices so that recycling can be tailored to city and unincorporated area needs.
- New task forces are formed in King County and across the State to pursue more unified approaches in light of China's recent import restrictions.

It's too confusing – no wonder there is contamination



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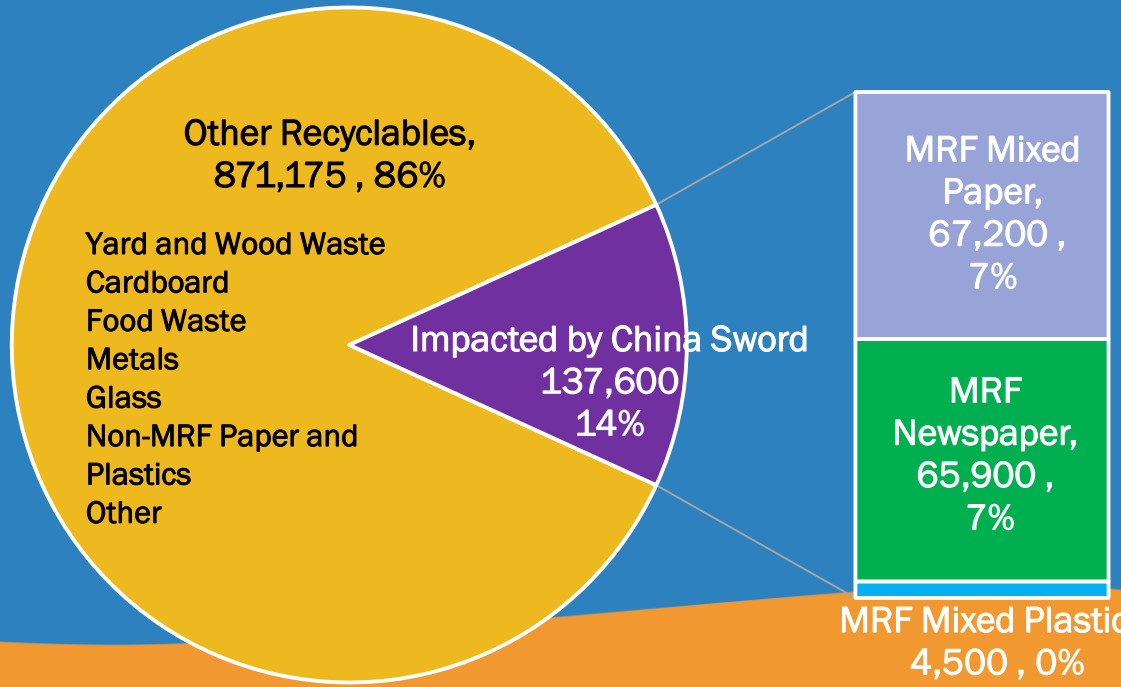
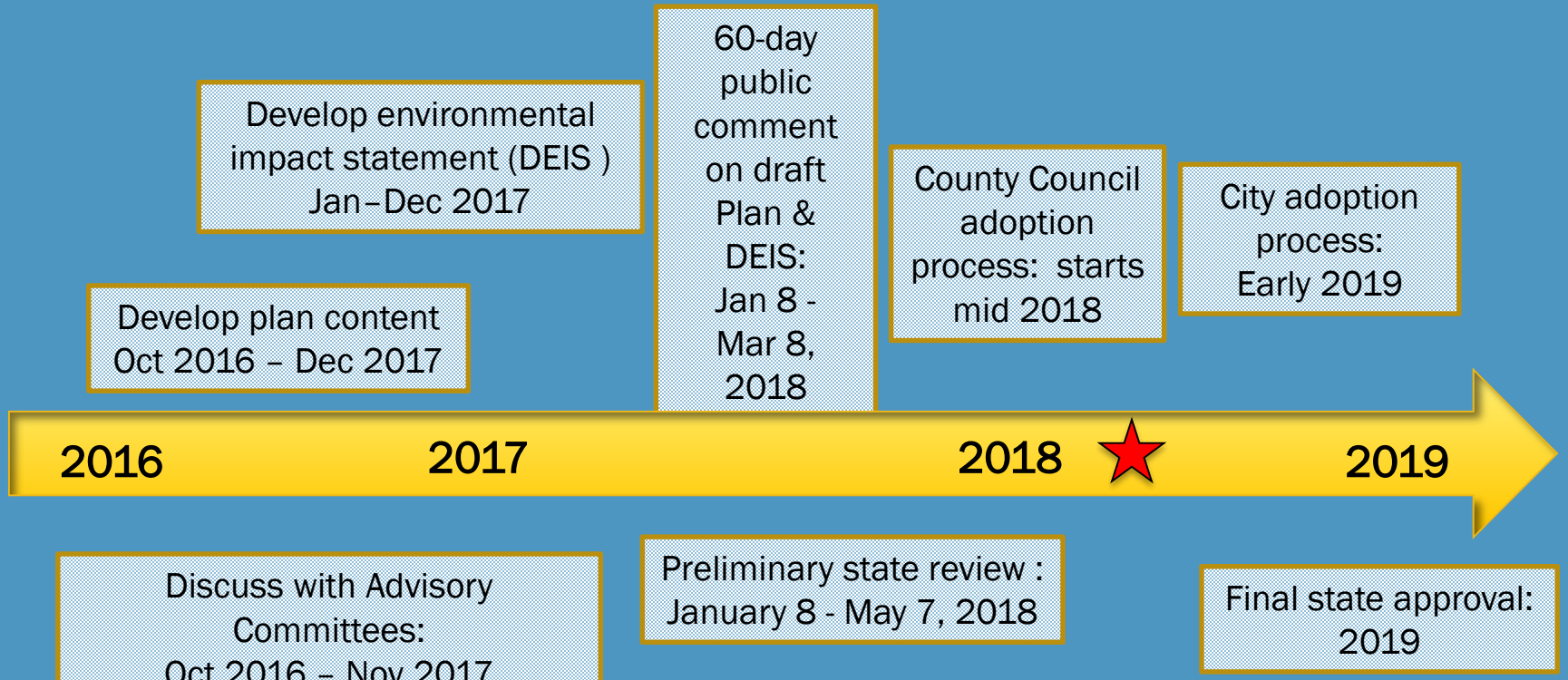
Regional Recycling Rate

China Sword Local Impacts

China Sword Impacts ~14% of Total Recyclables (2017)



Estimated Plan Adoption Timeline



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