

# Update on Evaluation of I/I Reduction Concepts

May 23, 2018

Lisa Tobin, Engineering & Planning Subcommittee



**King County**

Department of Natural Resources and Parks  
**Wastewater Treatment Division**

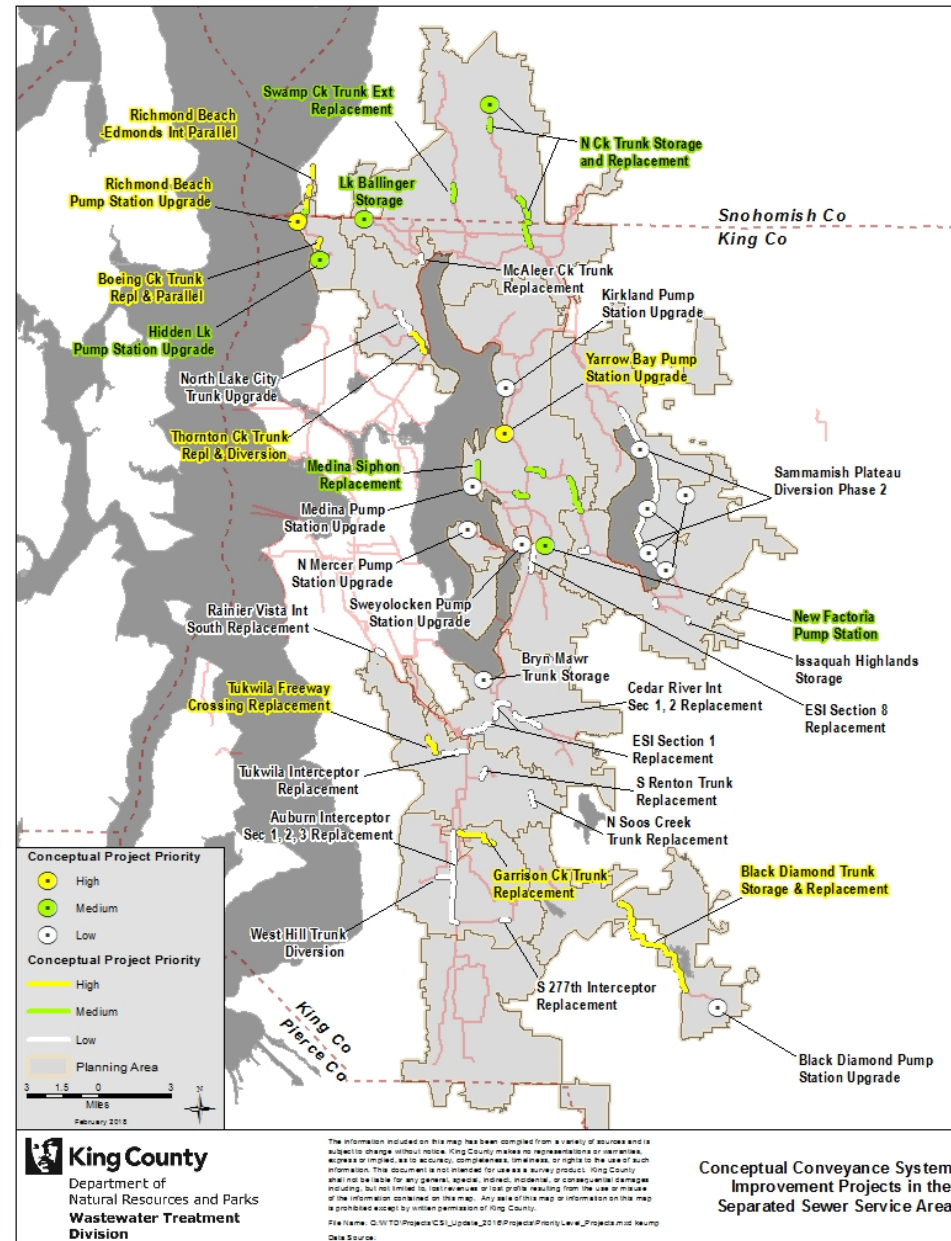
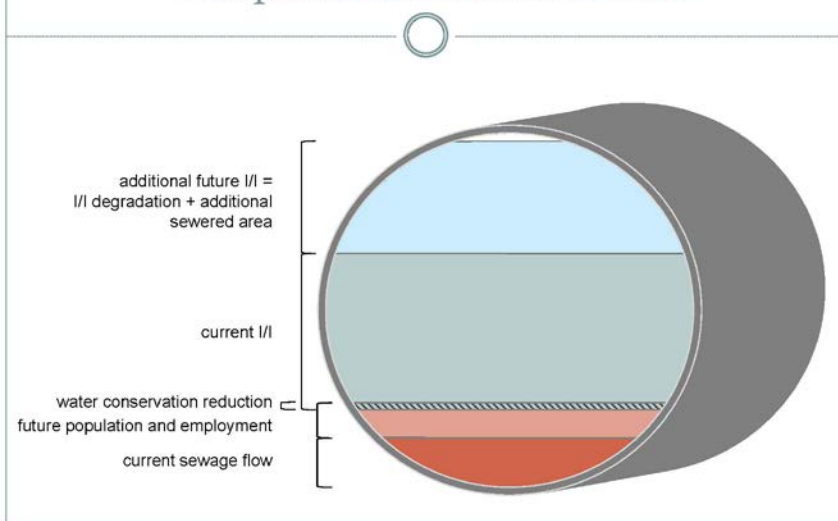
# Agenda

- I. Purpose of current I/I work**
- II. What has been accomplished?**
- III. Where are we now?**
- IV. What is the expected outcome?**
- V. Next steps**

# I/I in the Regional Wastewater System

- As much as 3/4 of pipe capacity used up by I/I
- 50-70% of I/I is from private side sewers
- Will have to spend \$1.7B on new pipes through 2060 for growth and I/I

Components of Future Flows

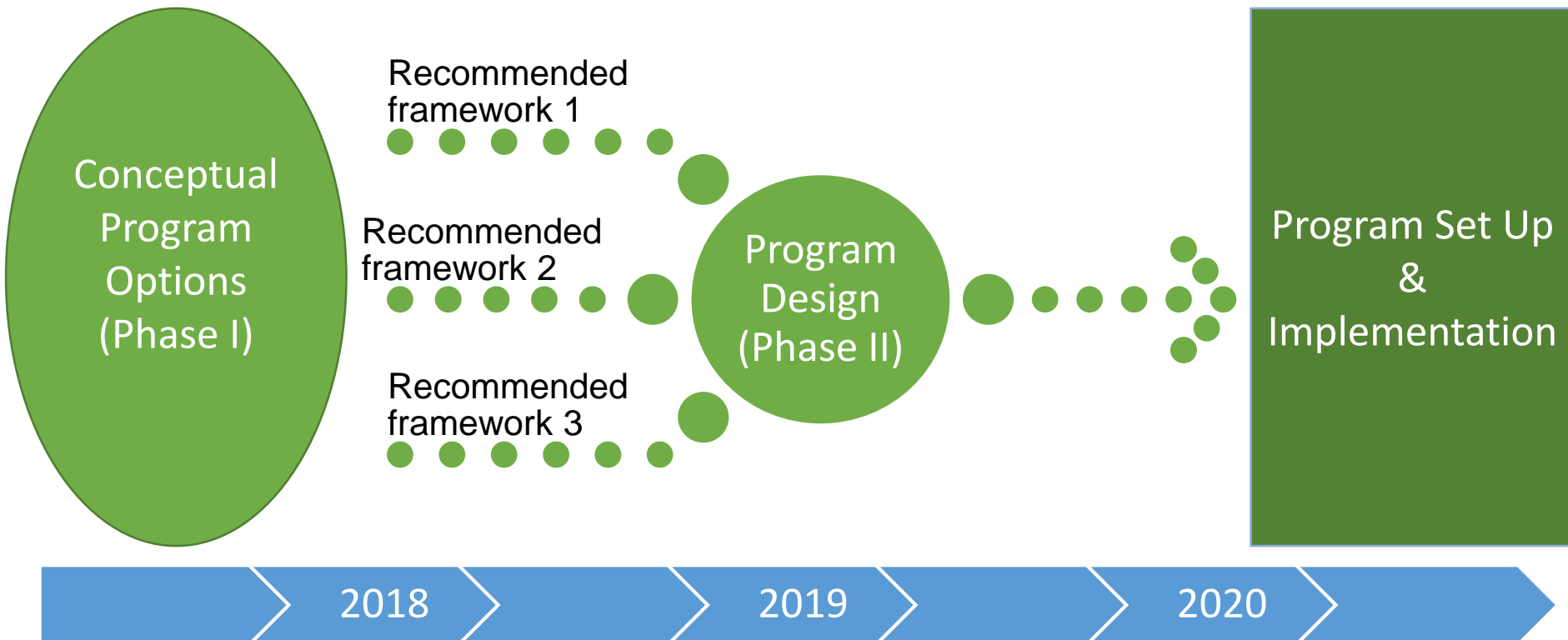


# Regional I/I Program History

<b>1999</b>	Program created as part of RSWP.
<b>2001-2002</b>	Current levels of I/I defined for each local agency.
<b>2003-2004</b>	Implement 10 pilot projects in 12 local agency jurisdictions to demonstrate the effectiveness of collection system rehabilitation projects, test technologies, and gain cost information.
<b>2004</b>	Final draft model standards, procedures, policies, and guidelines developed for use by local agencies to reduce I/I in there systems.
<b>2005</b>	Thorough benefit-cost analysis completed to determine the cost effectiveness of I/I reduction.
<b>2007-2009</b>	Selection of initial I/I project areas.
<b>2011-2013</b>	Initial I/I reduction project in Skyway Water and Sewer District constructed.
<b>2015</b>	MWPAAC I/I Task Force recommended exploring potential non-project components of regional I/I program.
<b>2016-Present</b>	Evaluation of programmatic I/I reduction concepts.

# Current I/I Program Work

Explore and evaluate I/I Program concepts with the goal of adopting a strategy that will reduce I/I over time and reduce the need for capital projects in the separated sewer portion of the regional wastewater system



# Program Frameworks

## Approach to Common Side Sewer Standards

- Focused standardization and voluntary implementation
- Scalable Best Management Practices (BMP) program

## Standard Regional Inspection Training

- Training modules + videos, hands-on sessions for voluntary use
- Training plus certification

## Regional I/I Support

- County-provided resources and vendors

## Regional Side Sewer Inspection Program

- Local agency-mandated inspections within time frame
- Point of Sale inspections administered by local agencies
- Point of Sale inspections administered by WTD

## Side Sewer Grant/Loan Program

- In tandem with inspection program
- Independent of inspection program

# Evaluation Criteria

- Effectiveness of I/I reduction
- Legal and political implications
- Property owner impacts
- Local agency impacts
- WTD impacts
- Equity and social justice

E&P is reviewing Consultant's initial rating of each framework

# Local Agency Questionnaire

Asking each agency to fill out questionnaire about:

- Initial rating of each framework
- Criteria used in the rating
- If/how to weight the criteria
- Which frameworks or combinations of frameworks should be further evaluated

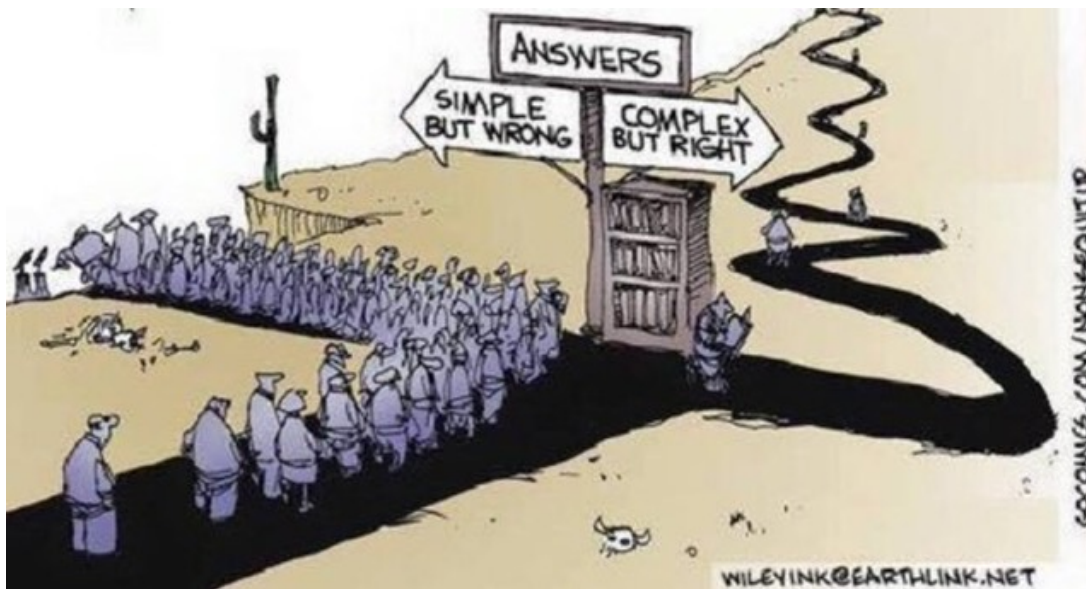
Bring completed questionnaire to June 7 meeting, or email to [Nicole.Smith@KingCounty.gov](mailto:Nicole.Smith@KingCounty.gov)



# Next Steps

MONTH	I/I TOPIC
May	E&P initial discussion on evaluated frameworks
June	E&P final discussion on evaluated frameworks
July	None
August	E&P selects preferred framework
September - December	E&P presents recommendation to full MWPAAC

# Questions?



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