

# An Introduction to Leakage Component Analysis

*Better Understanding Your System's  
Leakage Profile*

W S O



May 16, 2019

# Leakage Component Analysis

1

Different  
types of  
leakage,  
different  
solutions

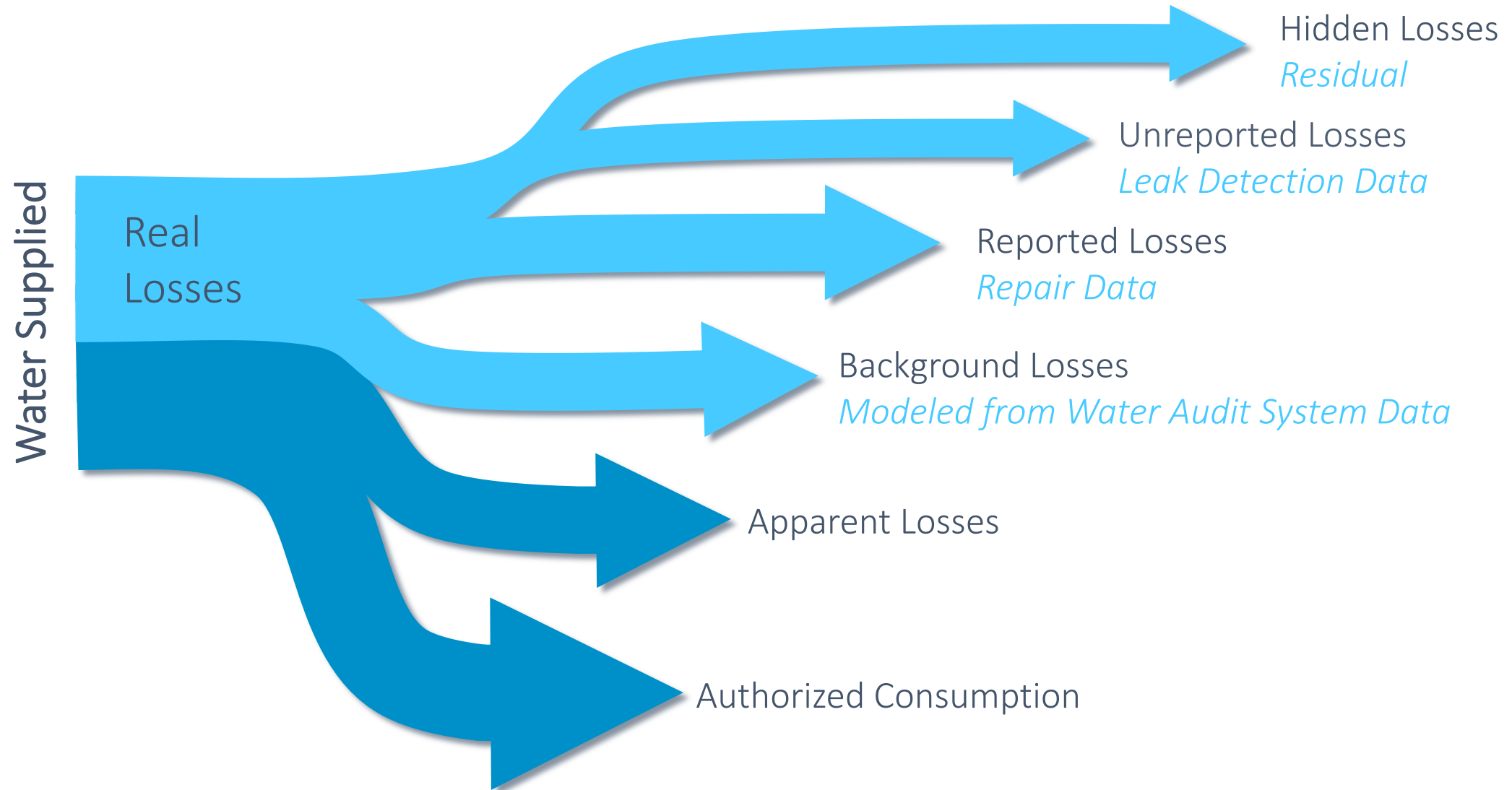
2

Modeling  
volumes >  
assumptions

3

Outcome:  
informed  
interventions

# Leakage Component Analysis



# Leakage Component Analysis



THE  
**Water  
Research**  
FOUNDATION

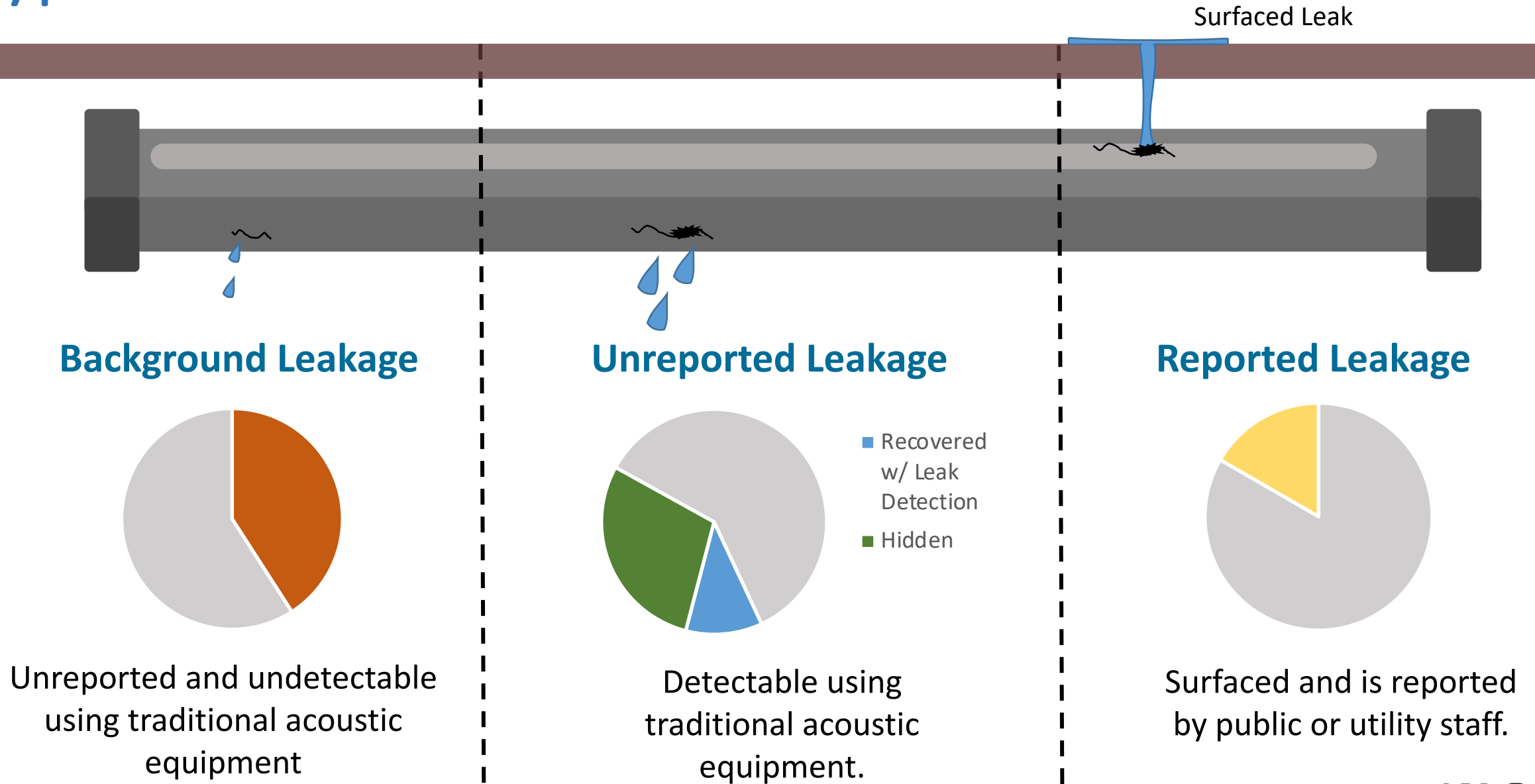
Project 4372A:

*Real Loss Component Analysis – A Tool for Economic Water Loss Control*

*available for free on the WRF website*

1. Complete a water audit (as required by SB555).
2. Collect all leakage repair data available.
3. Complete the component analysis model.
4. Inform development of leakage recovery program.

# Types of Real Losses



# Reported and Unreported Leakage

*# of leaks    x    average flow rate    x    average run time*

Infrastructure	Diameter	Count of Leaks	Flow Rate (gpm)	Average Run Time (hours)	Annual Leakage (MG)
main	8"	6	46	8.25	3.3



# Considerations for What's Next

- **Who** or what department is responsible for reporting and storing repair data?
- **How** do you currently track repair data (white board, work order system, spreadsheet?)
- **What** fields do you track in your repair data?

# Thank You!

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