

Phase 1 Accomplishments



Collection System Improvements

- Constructed 87 miles of sewers & lined 54 miles of sewers
- Developed industry leading risk-based prioritization tool for capital needs
- Evaluated more than 47,000 building sewers with Duke Energy



Treatment & Pumping Improvements

- 145 projects constructed to improve all 7 WWTPs
- 45 Pump Stations eliminated or upgraded
- Emphasis on robust control for off-site odors



Watershed Management Improvements

- 2 Wet weather treatment and 6 storage facilities constructed
- Wet Weather SCADA system initiated
- Green Infrastructure opportunities explored & under review



Neighborhood Improvements

- Constructed 75 projects to eliminate 703 HSTS
- Installed nearly 1,000 sewer backup prevention devices
- Lick Way Greenway cornerstone project for overflow mitigation

Lick Run Greenway

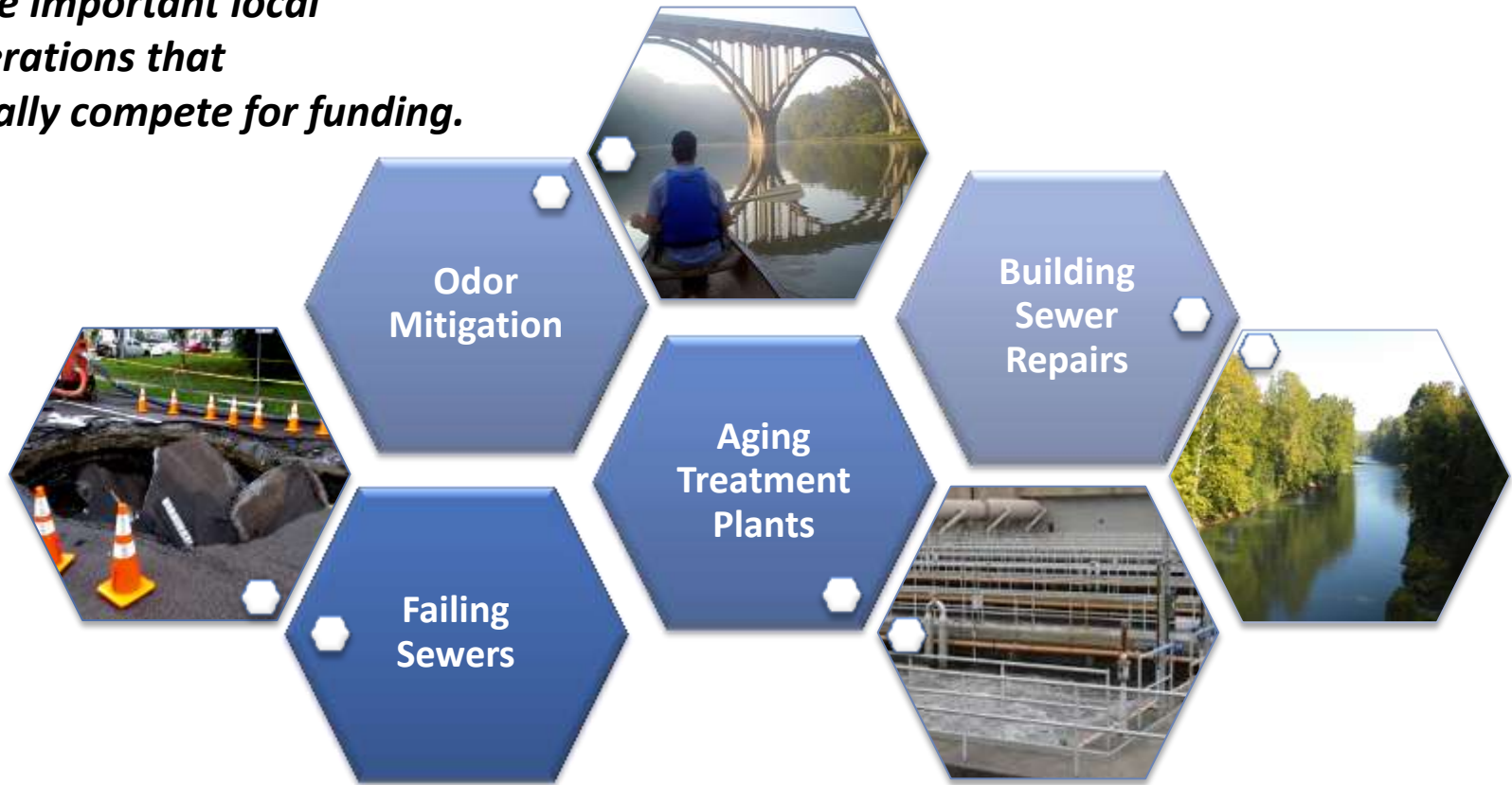
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Phase 1 Lessons Learned

- **Hyper focus on wet weather projects**
 - has over-shadowed asset management needs
- **Innovative approaches will inform future solutions**
 - Lick Run, Werk and Westbourne Facility, Real Time Controls
- **10-Year program duration**
 - Tried and true length for Phased Implementation
 - Short enough that assumptions are likely to hold, long enough to provide real benefit
- **Parametric curves for estimated construction cost**
 - 2006 estimates did not include local build and natural conditions
- **Asset Management provides wet weather benefits**

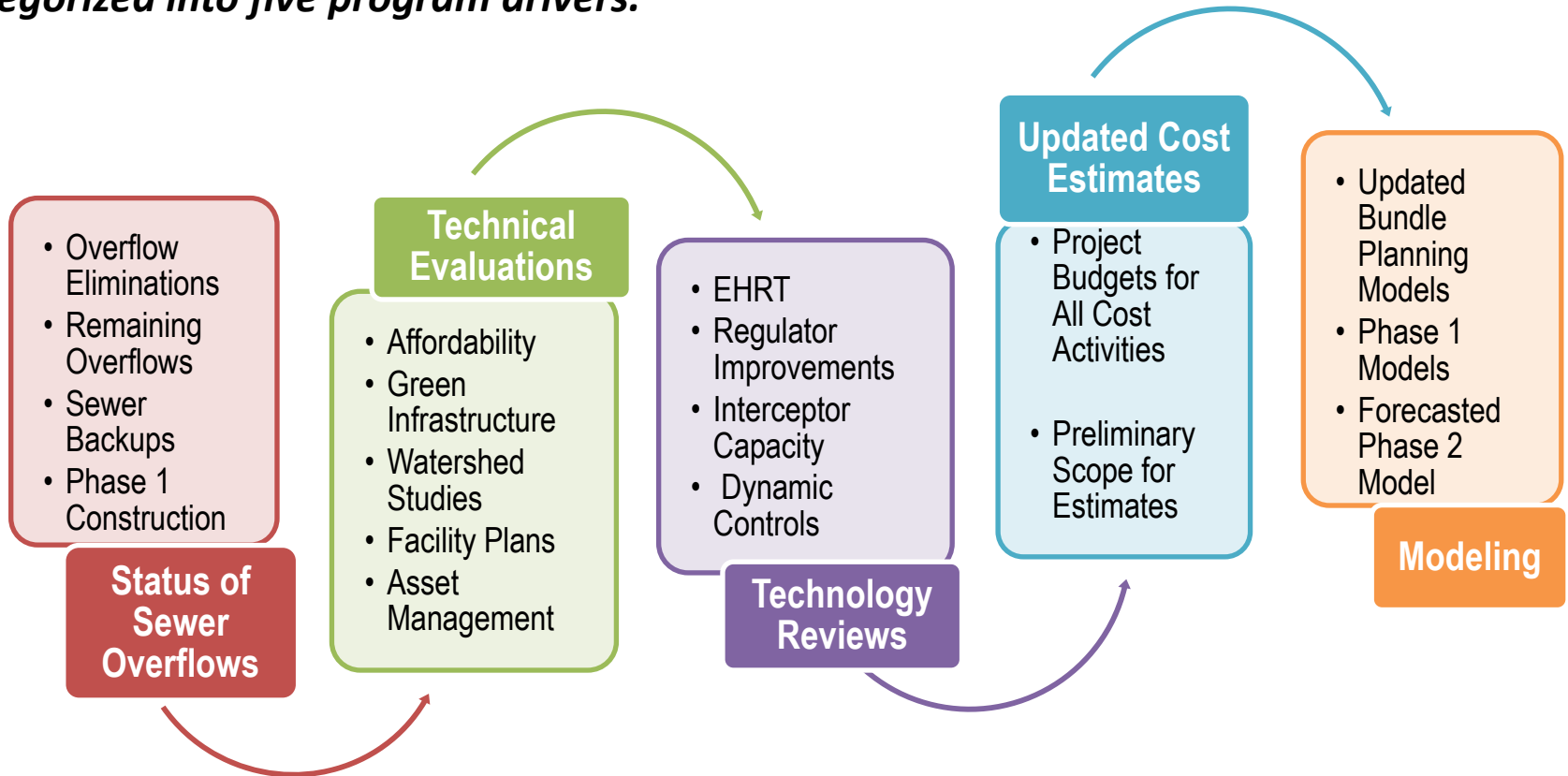
Competing Objectives

In addition to Consent Decree mandates we have important local considerations that essentially compete for funding.



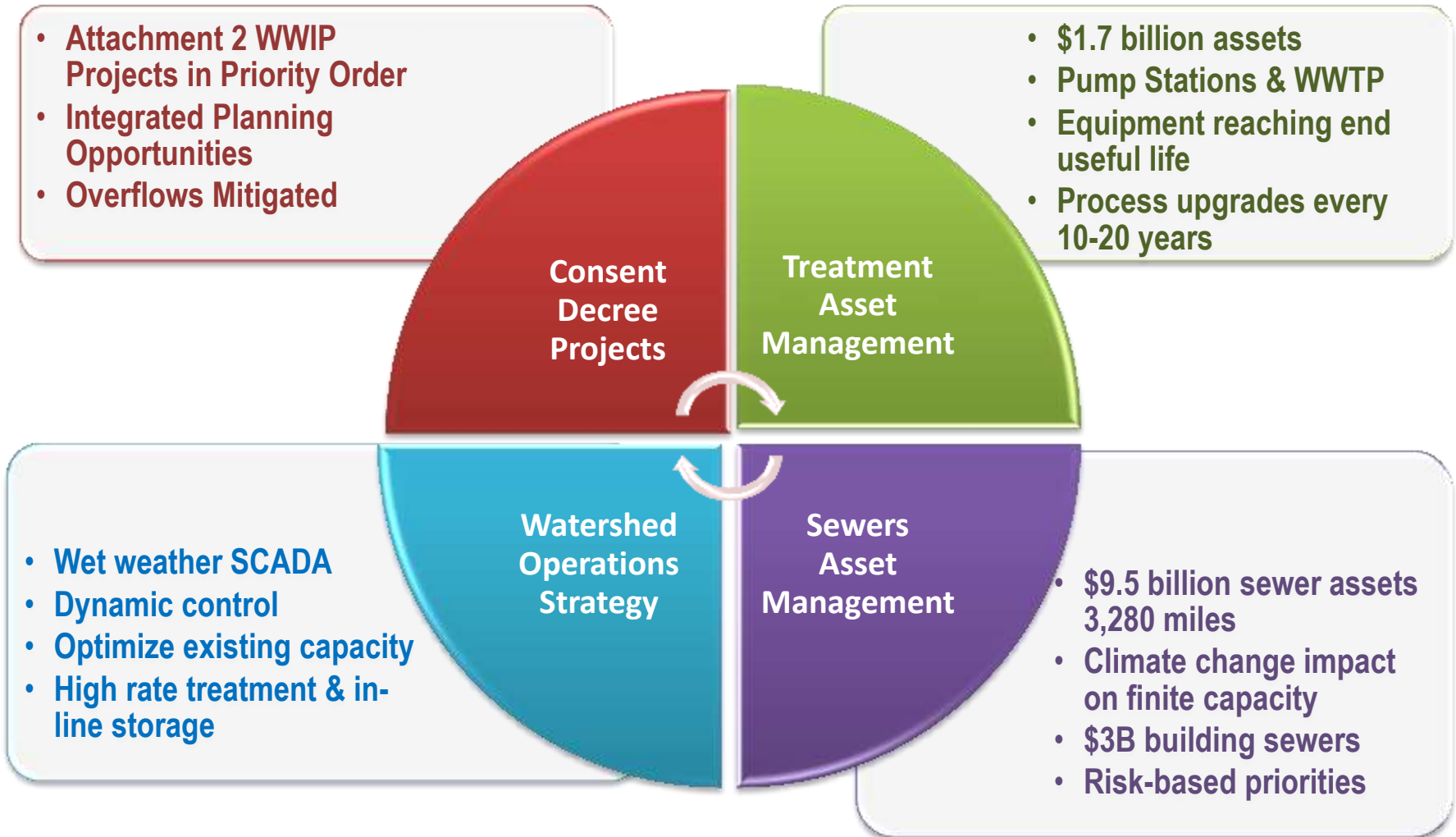
Phase 2 Work Plan Activities

The Phase 2 Work Plan's 600 tasks can be categorized into five program drivers.



Phase 2 Capital Program Basis

– 4 Focus Areas for maximum public health & environmental benefit for the ratepayer dollar



Anticipated Outreach & Coordination

Co-Defendants will be engaging the
Regulators & Public in 2017

Anticipated Open Houses in Spring and
Newsletters to Interested Parties

Anticipated Public Hearings in May 2017

Official Regulatory Submittal in June 2017