

EPA Engagement: Water Technology Cluster Organizations, Confluence and More

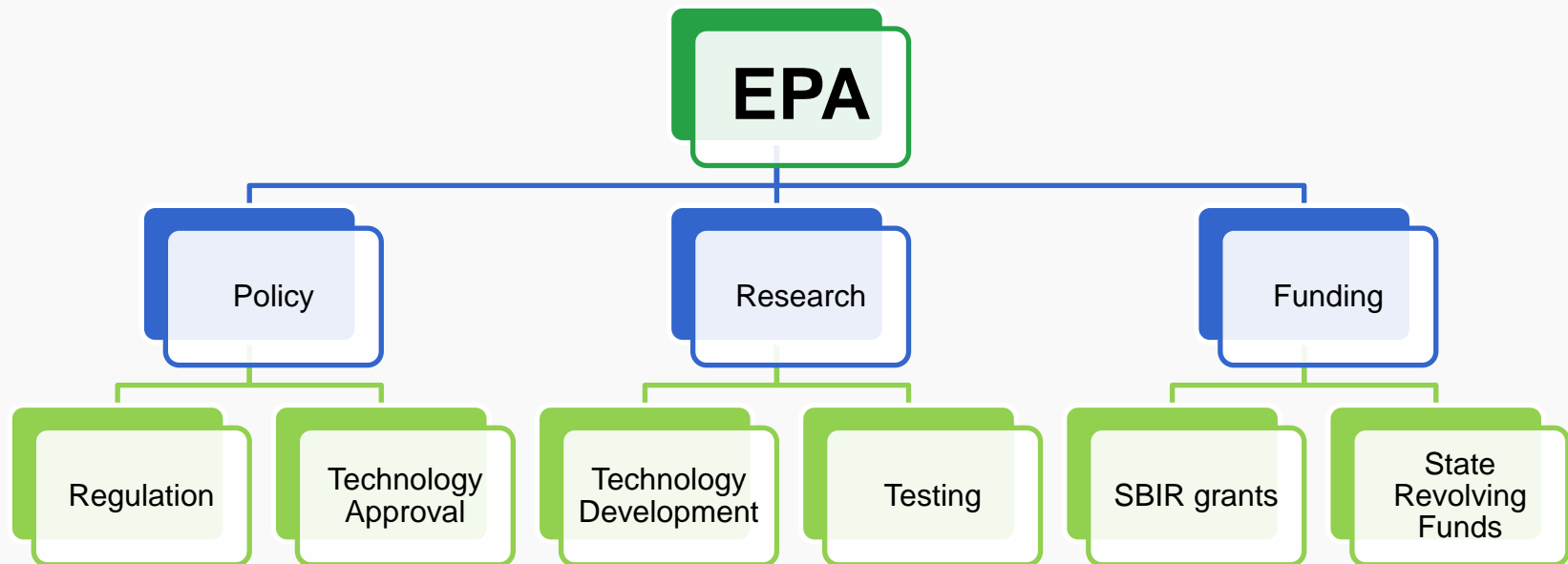


Teresa Harten

Office of Research and Development
U.S. Environmental Protection Agency
Cincinnati, Ohio



EPA's Involvement in the Water Sector





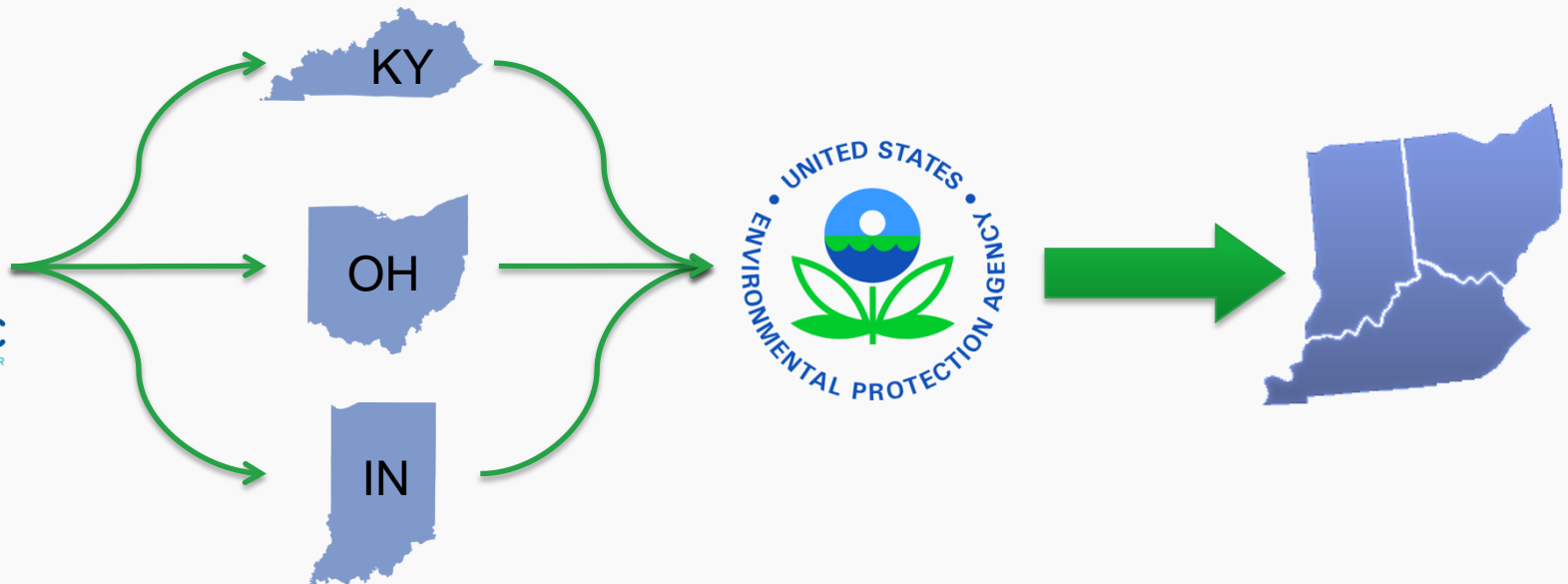
Confluence's Formation

- 2010 - Community leaders from the SW Ohio/SE Indiana/N Kentucky region agreed to proceed with formation of Confluence after EPA/SBA led engagement and analysis process
- January 18, 2011 – EPA Administrator Jackson and SBA Administrator Karen Mills announced launch of Confluence
- EPA announced commitment of over \$5 million in support for water technology innovation in the tri-state area





Tri-State Approval Process Harmonization



Confluence proposes agreement

States negotiate MoC

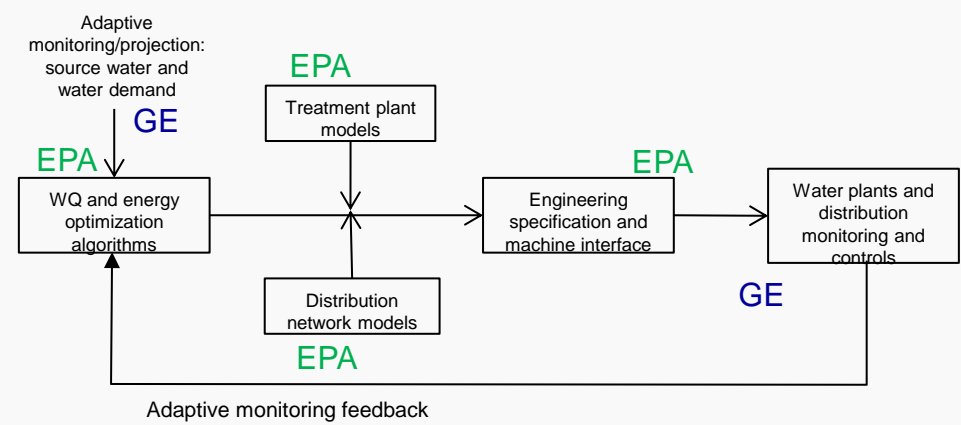
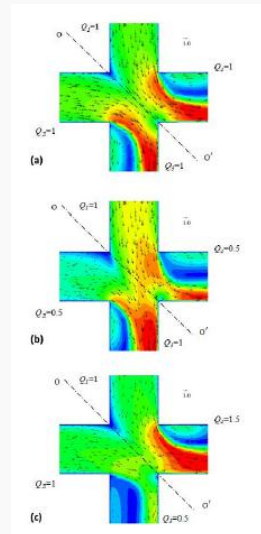
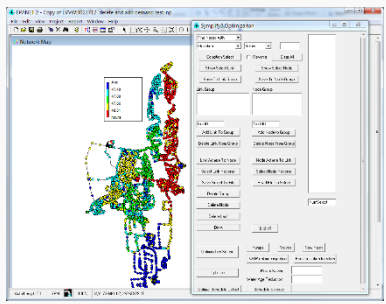
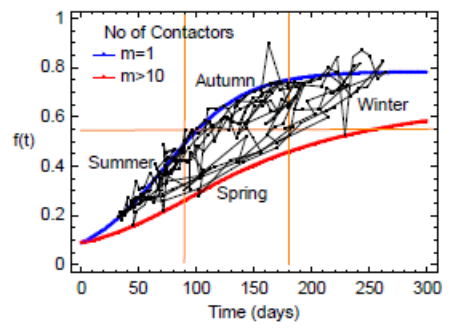
EPA and states develop protocol
EPA and local utilities test

States adopt harmonized approval, potentially fast-tracking permitting

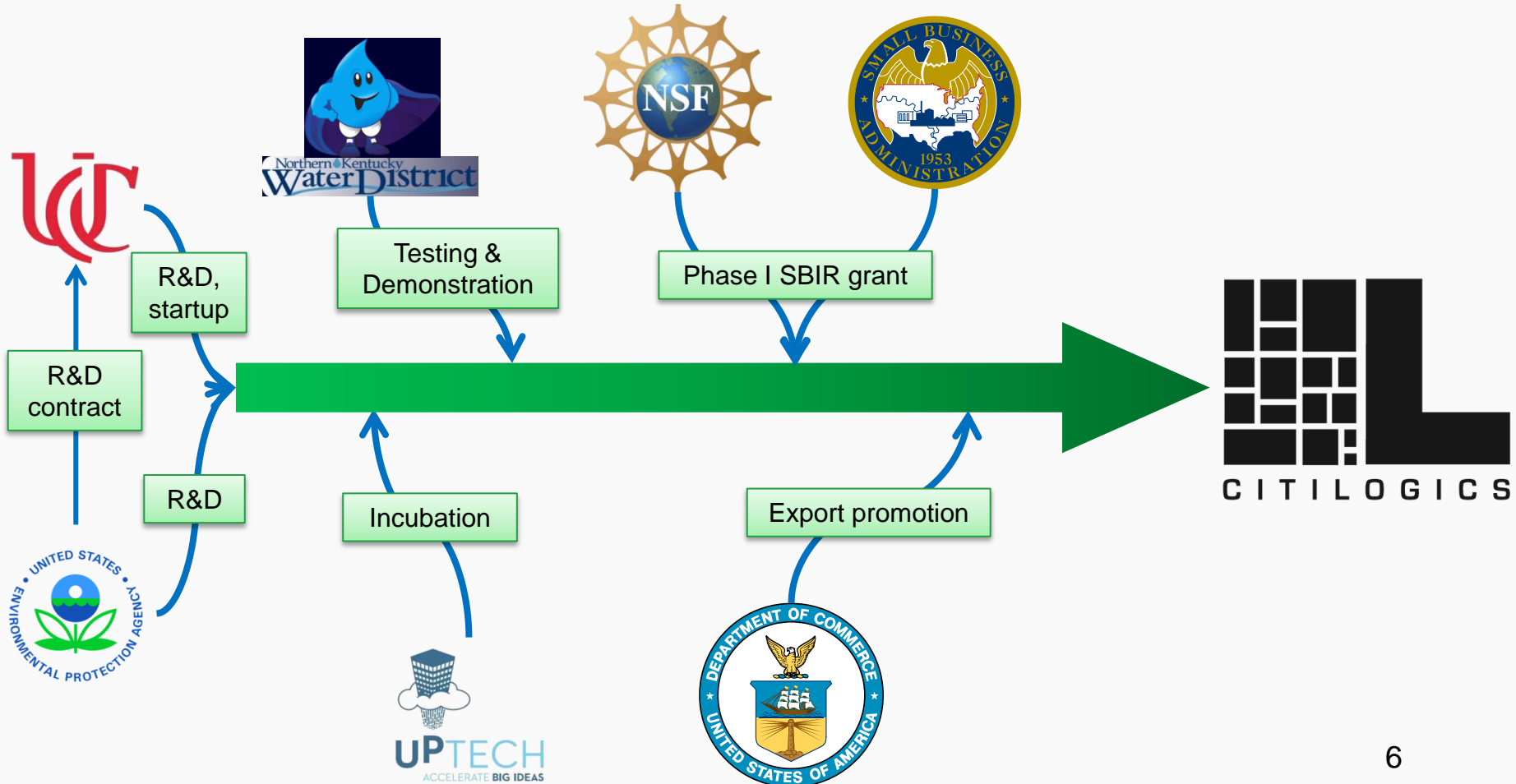
SmartWater Project

Systems Approach for Energy and Water Quality

- Optimize water treatment and distribution together
- Model-based data-driven technologies
- Benefit:
 - ❖ Energy reduction up to 15%
 - ❖ Better water quality control (DBP, LT2SWT rules)
- True public-private partnership
- Cooperative research among US and China scientists
- Pilot study in Greater Cincinnati Water Works



Cluster in Action: CitiLogics



Locations of U.S. Water Cluster Organizations and Technology Initiatives



National Atlas of the United States

1. **Clean Urban Water Technology Zone** (Tacoma, WA)
2. **The BlueTechValley** (Central and San Joaquin Valleys, CA)
3. **Las Vegas Cluster Effort** (Nevada)
4. **Southwest Water Technology Cluster** (Tucson, Arizona)
5. **Colorado Water Innovation Cluster** (Fort Collins, CO)
6. **Surge Accelerator** (Houston, TX)
7. **The Water Council** (Milwaukee, MI)
8. **Michigan Water Technology Initiative**
9. **Confluence WTIC** (SW Ohio/N Kentucky/SE Indiana)
10. **The Cleveland Water Alliance** (NE Ohio)
11. **Water Economy Network** (Pittsburgh, PA)
12. **New England Water Innovation Network** (Massachusetts)
13. **Emerging cluster organizations**

Full map available at www2.epa.gov/clusters-program/clusters-map.

This map is not intended to be comprehensive, and may not include some emerging water clusters.