

Water Supply Planning

Technical Work plan for 2013-2015

MAWSAC May 22, 2013



Work Plan Outline



**COUNCIL
RELEASES**

Thrive

**Water Resource
Policy Plan**

Systems Statements

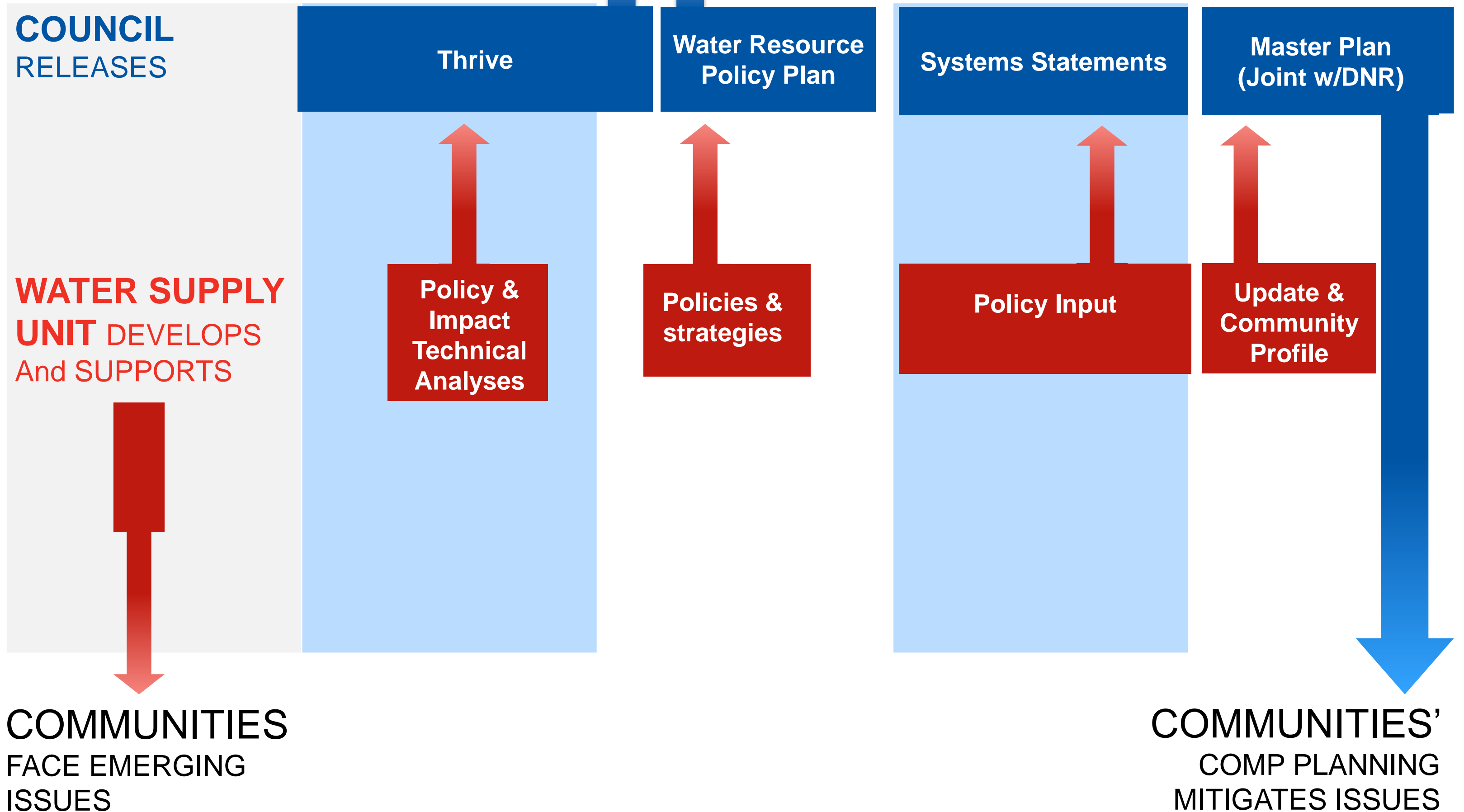
**Master Plan
(Joint w/DNR)**

**COMMUNITIES
FACE EMERGING
ISSUES**

**COMMUNITIES'
COMP PLANNING
MITIGATES ISSUES**



Work Plan Outline



Work Plan Projects

- Rebalancing water use in Metro Area: Feasibility analysis
- Technical Capabilities Enhancement
- Water Implementation projects

Rebalancing water use in Metro Area: Feasibility analysis

- **Goal:**
 - How to achieve reliability and sustainability
 - *Affordably and practically*
- **Outcomes:** Implementation plan: regional targets, timelines and defined milestones
- **Tasks:**
 - Engineering analysis of
 - *System capacities for existing surface water systems*
 - *Need and locations for new surface water treatment systems*
 - System operating conditions
 - Capital costs and operation and maintenance costs
 - Potential solutions to sub-regional issues such as Northeast and other parts of the Metro.

Technical Capabilities Enhancement

- **Goal:** Improve the council and local capacities to better protect and manage the water supplies of the region.
- **Outcomes:** Technical information and tools
- **Tasks**
 - Impact of water supply development on lake levels, stream flow and water quality
 - Developing, updating and enhancing Tools
 - *Groundwater Recharge Implementation Guide*
 - *Water Conservation Toolbox*
 - *Wastewater and stormwater reuse guides*
 - Updating and enhancing groundwater modeling tools
 - *Sub-regional and Web-based model applications*
 - *Scenarios to address water supply management change*
 - *Pumping Optimization*

Water Implementation projects

- **Goal:** Provide cost-effective solutions to water supply sustainability issues
- **Outcomes:** Environmental benefit and examples of how to plan and implement
- **Task**
 - Stormwater Reuse Project Engineering Design and Construction
 - Conservation Project Engineering Design and Construction

Going Forward

- **Outcomes of proposed work**
 - Support Council Planning effort, THRIVE and, Master Plan and WRMPP
 - Assist local water supply Planning effort
 - Inform and guide decision making
 - Efficient water management
 - Reliability of water supplies
 - Infrastructure investments
 - Sustainability