Strengthening Community Development Through Integrated Water Master Planning

Drinking Water 1-2-3 Regional Event #4
What is Master Planning and why is it Important?

- Capital planning
- Prioritizing improvements
- Managing risk and resiliency
- Best management practices
- Sustainable improvements
- Replacing aging infrastructure
- Opportunities for collaboration with other agencies and communities
- Growth opportunities

Evaluation of source water, water treatment facilities, distribution system, storage, and ancillary facilities to meet the evolving needs of communities.
Water Industry is Economic Driver of Community

Water, wastewater, and stormwater utilities will contribute $524 billion to the economy over the next decade, supporting 189,000 permanent jobs.

$1M = 5 Jobs + 11 Jobs = 16 Jobs

Investment  Direct Impact  Indirect & Induced Impact  Total

From WERF September 2014, National Economic & Labor Impacts of the Water Utility Sector
What is your Brand?

• What are you required to do?
  • Safe and Reliable Treatment and Conveyance of Water

• What are your vision and goals?
  • Economic Health
  • Public Perception
  • Community Leader
  • Technical Innovations
  • Sustainable Solutions

What is important to your community?
Pillars of Water Equity

Pillar 1

- All people have access to clean, safe, and affordable water services
Pillars of Water Equity

Pillar 2

- Maximize the economic, social, and environmental benefits of water infrastructure investment for the entire community
Pillars of Water Equity

Pillar 3

- Foster community resilience in the face of a changing climate
# Utilities of the Future: A New Paradigm

<table>
<thead>
<tr>
<th>Past</th>
<th>Future</th>
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</thead>
<tbody>
<tr>
<td>Handlers of water</td>
<td>Managers of sustainable resources</td>
</tr>
<tr>
<td>Seeking permit compliance</td>
<td>Watershed-scale environmental leaders seeking least-cost, highest</td>
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<td></td>
<td>return solutions</td>
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<tr>
<td>Engineers designing treatment plants</td>
<td>Regional planners of weather-resilient, green communities</td>
</tr>
<tr>
<td>Isolated public services units</td>
<td>Integrated members of economically thriving local communities</td>
</tr>
</tbody>
</table>
What Factors Drive Decisions?

- Economic
- Political
- Community
- Regulatory
- Business

All decisions can be made with a Return on Investment

Water Levels in the Sandstone Aquifer (feet above sea level)
Envision Sustainable Infrastructure Framework

- **QUALITY OF LIFE**
  - Purpose, Community, Wellbeing

- **LEADERSHIP**
  - Collaboration, Management, Planning

- **RESOURCE ALLOCATION**
  - Materials, Energy, Water

- **NATURAL WORLD**
  - Siting, Land and Water, Biodiversity

- **CLIMATE AND RISK**
  - Emission, Resilience
Questions?

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