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Incorporating Innovation Into Infrastructure To Address Current and Future Community Needs

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INFRASTRUCTURE CHALLENGES

- Increasing Costs to Operate, Maintain, Repair and Replace
 - Rising internal costs
 - Bidding environment
 - Equipment and material costs, etc.
- Increasing Demands and Expectations - “More, Faster, Cheaper”
 - Safety/Security
 - Community
 - Development
 - Elected Officials and Staff
 - Changing Regulations





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INFRASTRUCTURE CHALLENGES

- Lack of sustainable funding
 - Flat Or Modest Revenues
 - Tax caps
 - Fee caps
 - More demand for each dollar
- “Easy has already been done”
 - Environmental
 - Geographical
 - Regulatory
 - Social



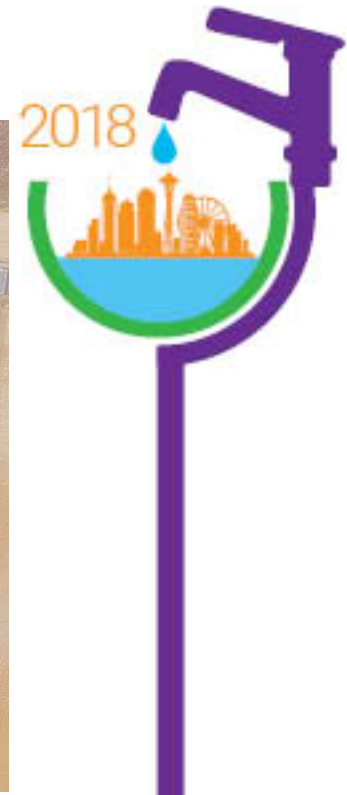


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American Society
of Civil Engineers
– Infrastructure
Report Card 2017
Nation = D+
Nevada = C-





Apple: \$1B Data Center Expansion



Switch Tahoe Reno: Largest, most advanced data center campus in the world



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Question? Are we building resilient communities today that are sustainable for tomorrow?

The Growth Ponzi Scheme*

- As communities grow, not planning for the increasing growing costs to operate, maintain, repair and replace infrastructure
- Belief that future sufficient financial resources will exist through continued growth
- Challenge; Achieving growth that builds economic engines, fosters overall resiliency and supports sustainability

*Chuck Marohn – “Building Resilient Communities” – 2018 ICMA Conference





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INNOVATION

: Introduction of something new

: A new idea, method, or device

NO LONGER A QUESTION OF WHY, BUT HOW

What Allows Innovation to Occur

- Experience
 - Establishing a foundation to build on
- Knowledge
 - What others have done and are doing
- Implementation
 - Allow staff time and the ability to try new things



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Water Innovation Institute – University of Nevada Reno

Collaborative approach between the UNR and local agencies to create water research programs to promote water sustainability and resiliency throughout the region.

Innovation for the development of sustainable water management;

- Water
- Waste Water
- Effluent
- Storm Water

NEVADA Today

New multi-agency water partnership to address regional challenges

University of Nevada, Reno leads effort to provide solutions to sustainable clean water

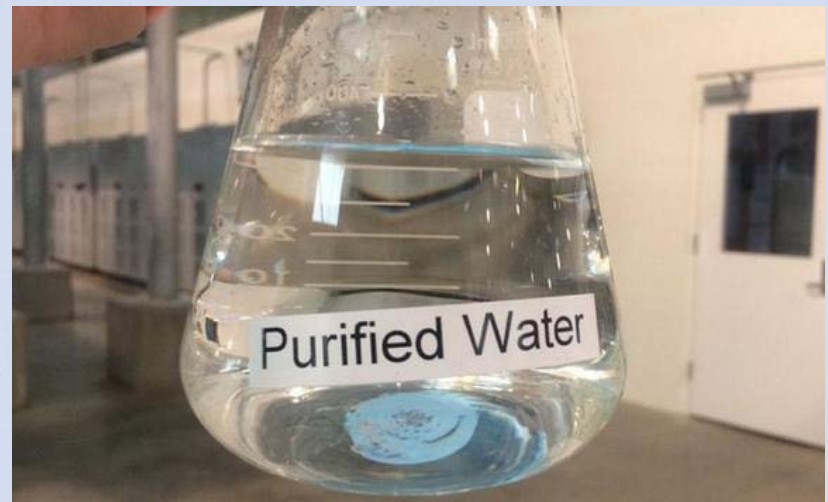




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CLASS A+ Effluent

Determine if Nevada's newly adopted *Exceptional Quality Reclaimed Water Category (A+)*, which creates a regulatory pathway for indirect potable reuse, offers beneficial water management opportunities for the Truckee Meadows region.





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A few thoughts.....

- Provide strategic direction and set realistic expectations
- Eliminate redundancy and duplicative work processes
- Increase training opportunities and participation in regional, state and national organizations
- Demand collaboration and information sharing, both internally and externally
- Challenge staff to incorporate innovation into work practices
- Challenge your community to get more involved



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Questions?

