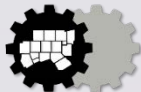


# 18th Annual SAME Infrastructure Forum

Rejuvenating our Infrastructure:  
Making Smart Cities of the Future

A Showcase of Regional Efforts

February 2, 2018



# What is NCTCOG? (North Central Texas Council of Governments)

Voluntary association of member governments

Established in 1966 to assist member governments in:

- Planning for common needs
- Cooperating for mutual benefit
- Strengthen their individual and collective power
- Coordinating for sound regional development

One of 24 COGs in Texas

A political subdivision of the state

Governed by 18 member Executive Board

[www.nctcog.org](http://www.nctcog.org)

2017 Population  
of over 7 Million



**16 Counties**

**169 Cities**

**53 School &  
Special  
Districts**

**North Central  
Texas**

# Rejuvenating our Infrastructure: Making Smart Cities of the Future

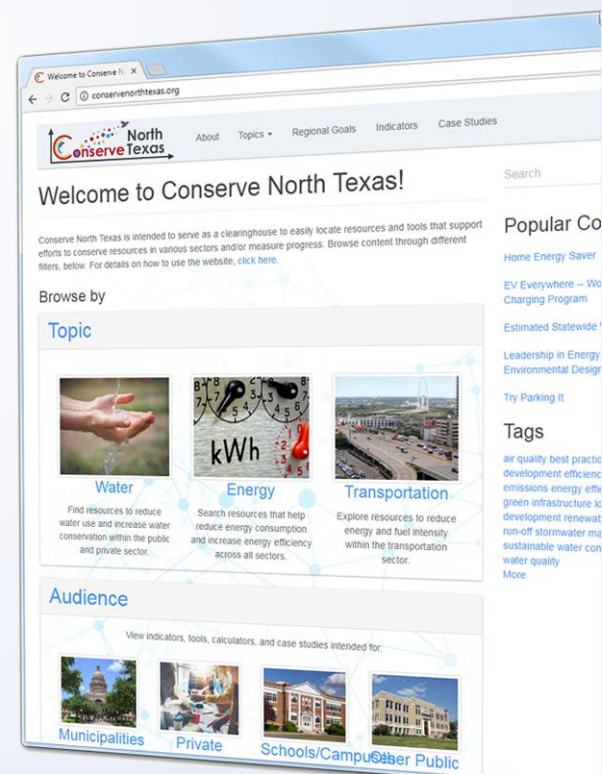
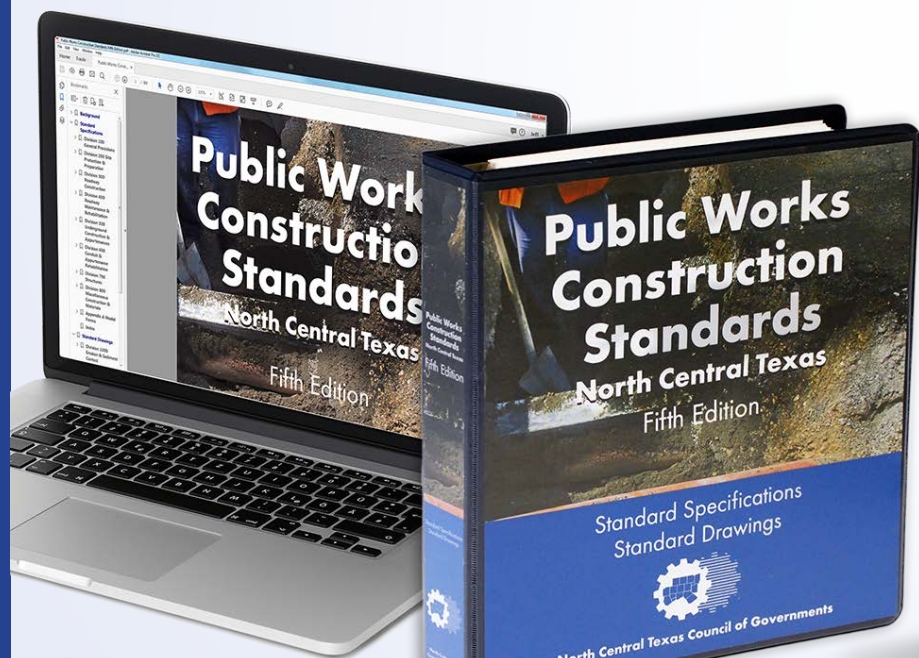
## A Showcase of Regional Efforts

- 2017 Public Works Construction Standards, Fifth Edition
- 2017 Green Infrastructure Guidebook (focus on transportation elements)
- North Texas SHARE - Pavement Analysis Services, Regional Early Flood Warning Software, and SMART Meters
- Community Health and Resource Management (CHARM) elected officials planning workshop and GIS technician training
- Regional Recycling Campaign for common regional recyclable items, Medication Take-Back strategies, reduction in tire litter
- CTP Flood Risk Reduction, County Watershed Management
- Defend Your Drains Regional Campaign and Holiday Grease Roundup to reduce SSOs
- SmartScape outreach to reduce water consumption
- Conserve North Texas website for energy/water/transportation nexus, water conservation and energy conservation, GoSolar website, and Solsmart communities, SECO wastewater treatment plant evaluations, and ISD sustainability plans
- Center of Development Excellence Case Studies, Tx Trees Foundation Tree Inventory Tool
- Regional Building Codes 2018 International Suite of Codes review and evaluation of software for standardized electronic plan review and permit process

# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Publications:

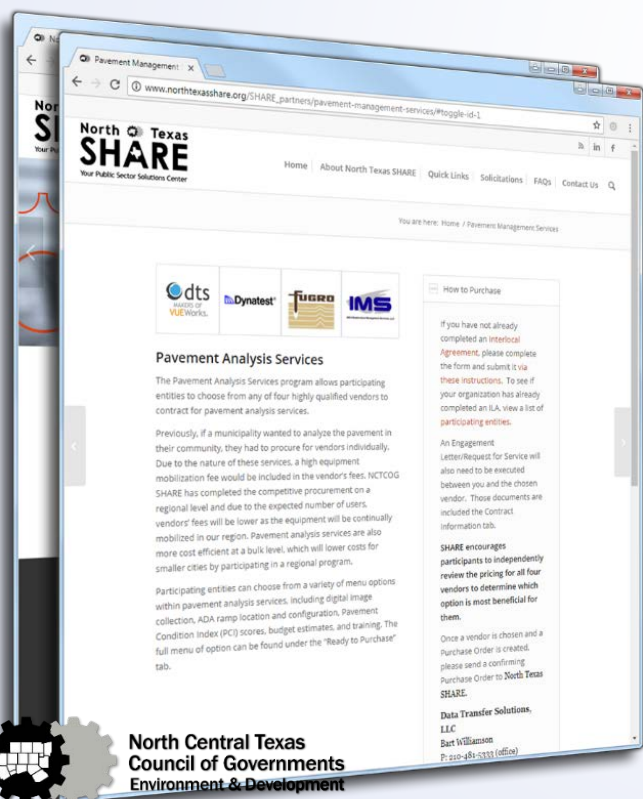
- 2017 Public Works Construction Standards, Fifth Edition
- 2017 Green Infrastructure Guidebook (focus on transportation)
- Conserve North Texas website for energy/water/transportation nexus, water conservation and energy conservation



# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Shared Services:

- North Texas SHARE - Pavement Analysis Services, OneRain Regional Early Flood Warning Software, and potentially SMART Meters
- Also Proposed/Potential - evaluation of software for standardized electronic plan review and permit process




# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Education &/or Policy Tools:

- Community Health and Resource Management (CHARM) elected officials planning workshop and GIS technician training
- Medication Take-Back strategies
- CTP Flood Risk Reduction, County Watershed Management



  
North Central Texas  
Council of Governments

**Menu of Regionally Recommended Standards in Watershed Management  
For New Development Within County Regulated Areas**

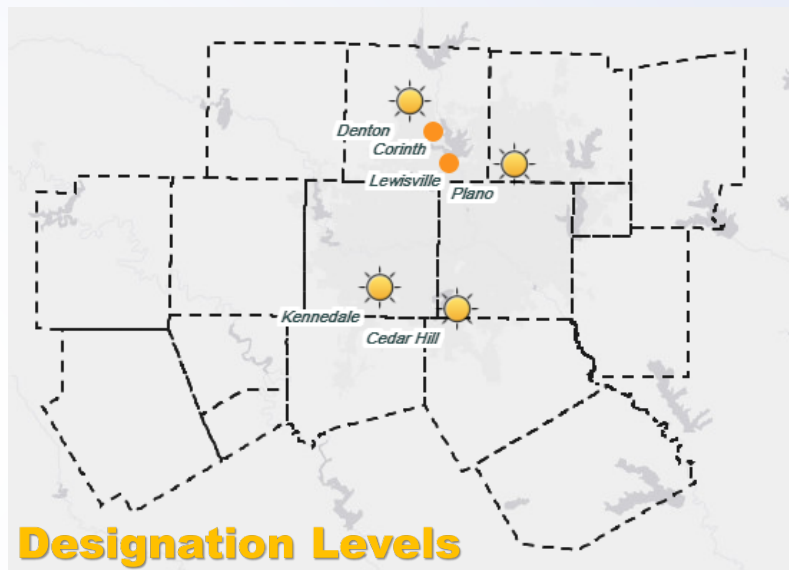
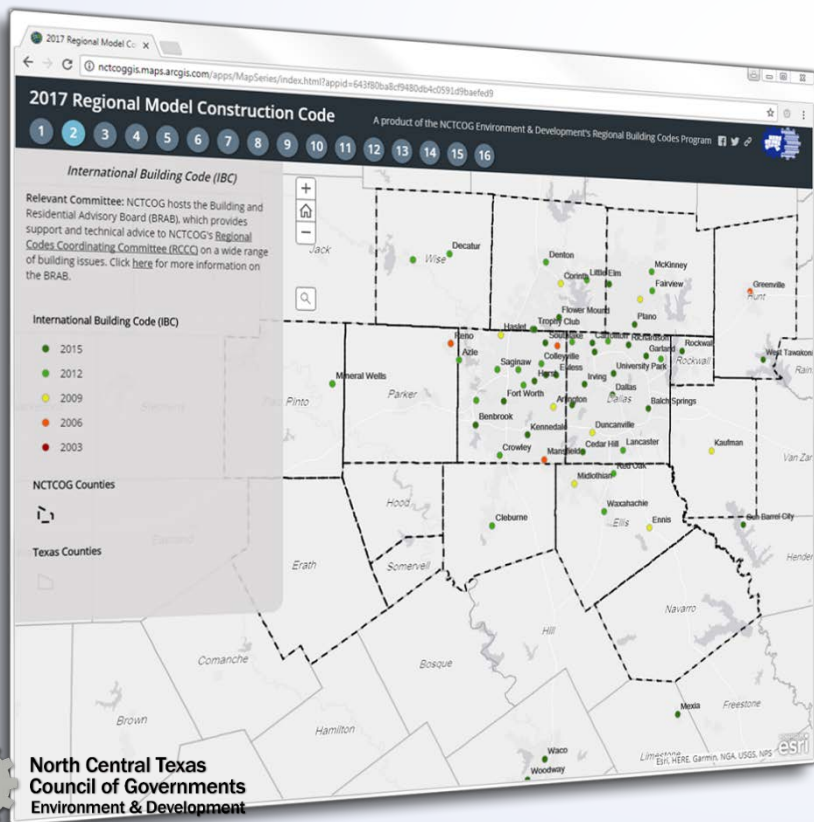
1. Design infrastructure to fully developed conditions with approved land-use maps if data is available
2. Begin protection at the most upstream end of the watershed above Federal Emergency Management Agency Limit of Detail Study
3. Maintain unfilled valley storage areas
4. Protect against and reduce erosive velocities
5. Match pre-developed site runoff
6. Verify/require adequate downstream conveyance
7. Require freeboard from fully developed (if data is available) and changing watershed conditions
8. Define written operation and maintenance responsibilities
9. Size conveyance of street and storm systems adequately to safely convey traffic
10. Create stream buffers and preserve open space; limit clearing and grading
11. Consider regional (on or off stream) detention incentives
12. Implement Conservation and/or Cluster Development incentives
13. Encouraging low impact development techniques and/or green infrastructure



# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Education &/or Policy Tools:

- Solsmart communities
- ISD sustainability plans
- Regional Building Codes 2018
- International Suite of Codes review



- Satisfy bronze prerequisites
- Solar Statement
  - Permitting Checklist
  - Zoning code review

Each 20 points in permitting

Earn 20 points in PZD

Earn 20 point in Special Focus

Earn bronze designation

- Satisfy silver prerequisites
- Solar by-right in all major zones
  - Cross-train inspection and permitting staff

Earn 100 points in total

Earn Silver designation

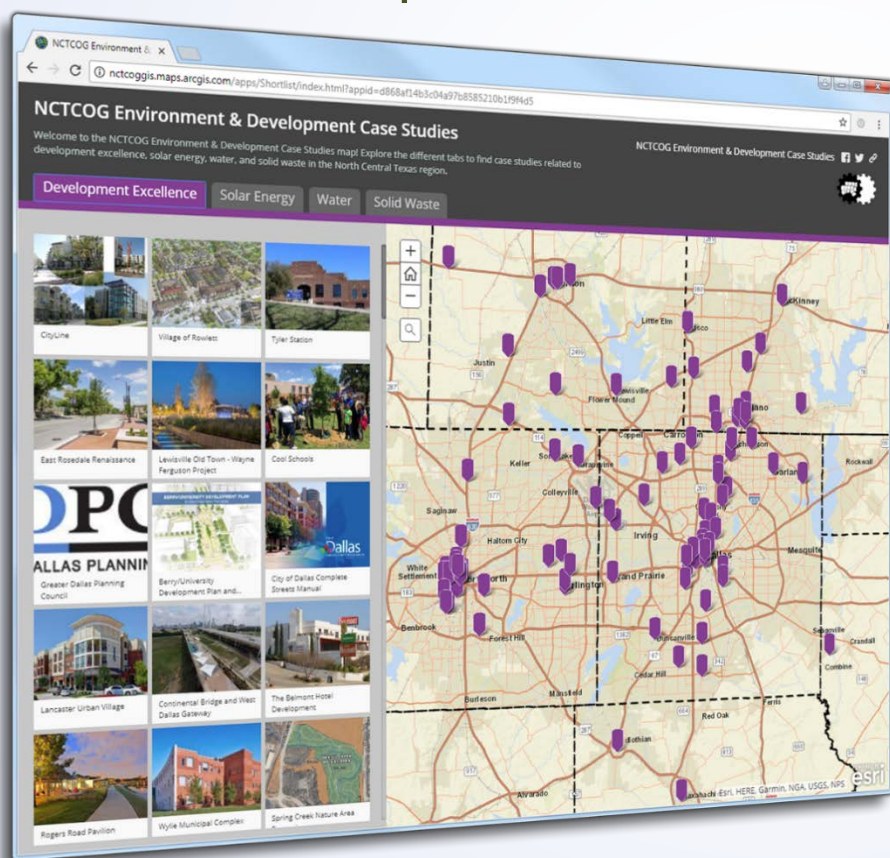
- Satisfy Gold prerequisites
- PV permitting turnaround for small systems of 3 days or less

Earn 200 points in total

# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional In-Progress Outreach Tools:

- SECO wastewater treatment plant evaluations
- Tree Inventory Tool
- Center of Development Excellence Case Studies



### PRELIMINARY ENERGY ASSESSMENTS

SECO provides preliminary energy assessments (PEAs) at no charge to municipal and county governments, independent school districts, county hospitals, port authorities, major airports, public water authorities and municipally-owned utilities. A PEA details recommendations for cost-effective resource efficiency measures that could be implemented to reduce utility consumption or utility costs.

SECO's PEA services apply to public, indoor administrative or teaching facilities and infrastructure owned and operated by the public entity requesting the service. Buildings, facilities or infrastructure that are leased or rented by the entity are not eligible for these services.

Investing in infrastructure through improved energy efficiency in public buildings is a win-win opportunity for both local communities and the state as a whole. Energy-efficient buildings reduce utility costs, increase available capital, spur economic growth and improve working and living environments. PEA services provide a viable strategy to achieve these goals.

A PEA includes the following elements:

- Analysis of utility bills and other building information to determine facilities' energy and cost utilization indices
- Recommended maintenance procedures and capital energy retrofits
- Design and monitoring of customized procedures to control run times of energy-consuming systems
- Informal on-site training for building operators and maintenance staff
- Follow-up visits to assist with implementation of recommendations and determine associated project savings



# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Campaigns:

- Regional Recycling Campaign for common regional recyclable items, reduction in tire litter
- Defend Your Drains Regional Campaign and Holiday Grease Roundup to reduce SSOs



**DEFEND YOUR DRAINS**  
Published by Jeff Florey [?] · December 1 at 12:00pm ·

Fats, oils, and grease (FOG) come from meats, butters and margarine, lard, food scraps, sauces, salad dressings, dairy products, and cooking oil. When FOG goes down the drain, it hardens and clogs sewer pipes. This can lead to a sanitary sewer overflow (SSO) where raw sewage actually backs up into your home, lawn, neighborhood, and streets.

Nobody wants sewage for the holidays, so take part in The 2017 Holiday Grease Roundup! NEVER put FOG down the drain; Recycle your grease instead. Find out how at [www.DefendYourDrainsNorthTexas.com](http://www.DefendYourDrainsNorthTexas.com)  
#DefendYourDrains #CeaseTheGrease #RethinkWaste

**DEFEND YOUR DRAINS**

**CEASE THE GREASE**

Defend Your Drains North Texas  
Community

[Learn More](#)

# Rejuvenating our Infrastructure: Making Smart Cities of the Future

## New Regional Campaigns:

- SmartScape outreach to reduce water consumption
- Go Solar website



## Contact

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[emarvin@nctcog.org](mailto:emarvin@nctcog.org)

817.695.9211

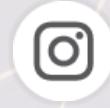
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