Use of Funding for Local Improvements
City Example

Andrew Stone, P.E.
City Engineer & Director of Public Works
City of Athens Overview
Athens Infrastructure

- Roads – over 194 lane miles (not counting alleys)
- Waterline – over 410,000 feet
- Sanitary lines – over 399,000 feet
- Storm line – over 80,000’ mapped – est. over 300,000’
- Sidewalk – 43.8+ miles
- Bridges – 7 major, 6 minor (13 total)
- Water Plant - 1
- Wastewater Plant - 1
- Remote Sites - 45
- Traffic Signals - 36
- Street Lights – nearly 400 city-owned, 1100 rented (AEP)
- Other (buildings, guardrail, signs, vehicles, etc)
City Engineer and Director

Admin

Laboratory and Instrumentation

Assistant Engineer

Admin and Interns

Inspectors (as needed)

Assistant Director

Water Distribution Supervisor

Water crew and meter readers

Sewer Collection Supervisor

Sewer crew

Street Maintenance Supervisor

Street crew and seasonal workers

City Fleet Maintenance and Electrical

Water Treatment Plant Manager

Wastewater Treatment Plant Manager

Plant operators and maintenance

Plant operators and maintenance

# of Employees:
55 full-time
1-4 interns (varies)
4-10 seasonal (varies)
The Challenge for Cities

Typical Athens Street

Seen

Unseen

OU Utility Tunnel
City Electric
City Storm
Columbia Gas
City Water Distribution
City Water Transmission
Old City Water Distribution
Old Columbia Gas
City Sanitary
City Storm

AEP Pole
Unknown Fiber
Time Warner Fiber
AEP Electric
Fiber

R/W

R/W
How do you know what you can do and what you need? You have to examine your revenue
### Local Revenue (2014 estimates, minus note proceeds)

<table>
<thead>
<tr>
<th>Name of Fund</th>
<th>Revenue Source</th>
<th>Total Amount</th>
<th>% toward capital</th>
<th>Amount Available for Capital</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Street &amp; Transportation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Street 220</td>
<td>19% of City Income Tax</td>
<td>$1,776,700.00</td>
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<tr>
<td></td>
<td>92.5% State Gas Tax</td>
<td>$270,000.00</td>
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<tr>
<td></td>
<td>92.5% State Motor Vehicle License Fees</td>
<td>$58,100.00</td>
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<tr>
<td></td>
<td>Other (interest, misc)</td>
<td>$45,000.00</td>
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</tr>
<tr>
<td>Total 220</td>
<td></td>
<td>$2,149,800.00</td>
<td>20.0%</td>
<td>$429,960.00</td>
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<tr>
<td>State Highway 225</td>
<td>7.5% State Gas Tax</td>
<td>$21,700.00</td>
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<tr>
<td></td>
<td>7.5% State Motor Vehicle License Fees</td>
<td>$4,700.00</td>
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<tr>
<td>Total 225</td>
<td></td>
<td>$26,400.00</td>
<td>100.0%</td>
<td>$26,400.00</td>
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<tr>
<td>Permissive Wheel Tax 226</td>
<td>County $5 fee</td>
<td>$54,800.00</td>
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<tr>
<td></td>
<td>Additional county fee</td>
<td>$19,900.00</td>
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<tr>
<td></td>
<td>Additional city fee</td>
<td>$39,700.00</td>
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<td></td>
<td>Other (interest, misc)</td>
<td>$1,300.00</td>
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<tr>
<td>Total 226</td>
<td></td>
<td>$115,700.00</td>
<td>100.0%</td>
<td>$115,700.00</td>
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<tr>
<td>Street Rehab Fund 572</td>
<td>0.1% Income Tax (special levy)</td>
<td>$667,800.00</td>
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<tr>
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<td>Special assessments (sidewalk)</td>
<td>$30,000.00</td>
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<td></td>
<td>Other (interest, misc)</td>
<td>$9,000.00</td>
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<tr>
<td>Total 572</td>
<td></td>
<td>$706,800.00</td>
<td>100.0%</td>
<td>$706,800.00</td>
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<tr>
<td><strong>Total Roadway</strong></td>
<td></td>
<td>$2,998,700.00</td>
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<tr>
<td><strong>Utilities</strong></td>
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<tr>
<td>Water 740</td>
<td>Service Fees</td>
<td>$2,700,000.00</td>
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<td></td>
<td>Sale of Water</td>
<td>$411,300.00</td>
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<td></td>
<td>New Tap (Capacity Fees)</td>
<td>$77,700.00</td>
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<td></td>
<td>Other Fees (red tag, reconnect)</td>
<td>$23,800.00</td>
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<tr>
<td></td>
<td>Other income (interest, misc)</td>
<td>$14,000.00</td>
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<tr>
<td>Total 740</td>
<td></td>
<td>$3,228,800.00</td>
<td>17.5%</td>
<td>$564,690.00</td>
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<tr>
<td><strong>Total Water</strong></td>
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<td>$3,228,800.00</td>
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<tr>
<td><strong>Sewer 750</strong></td>
<td>Service Charges 75%</td>
<td>$2,611,200.00</td>
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<td></td>
<td>Other income (interest, misc)</td>
<td>$5,400.00</td>
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<tr>
<td>Total 750</td>
<td></td>
<td>$2,616,600.00</td>
<td>12.5%</td>
<td>$327,075.00</td>
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<tr>
<td><strong>Sewer Debt 758</strong></td>
<td>Service Charge 25%</td>
<td>$855,000.00</td>
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<td></td>
<td>New Tap (Capacity Fees)</td>
<td>$167,300.00</td>
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<tr>
<td></td>
<td>Other Fees (red tag, reconnect)</td>
<td>$11,000.00</td>
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<td></td>
<td>Other income (interest, misc)</td>
<td>$16,000.00</td>
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<tr>
<td>Total 758</td>
<td></td>
<td>$1,049,300.00</td>
<td>5.0%</td>
<td>$52,465.00</td>
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<tr>
<td><strong>Total Sewer</strong></td>
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<td>$3,665,900.00</td>
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<td><strong>Storm Water 755</strong></td>
<td>Service Charges</td>
<td>$133,100.00</td>
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<tr>
<td></td>
<td>Other</td>
<td>$5,400.00</td>
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<tr>
<td>Total 755</td>
<td></td>
<td>$138,500.00</td>
<td>85.0%</td>
<td>$117,725.00</td>
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<tr>
<td><strong>Total Storm</strong></td>
<td></td>
<td>$138,500.00</td>
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</tbody>
</table>
Apologies to Sun Tzu

• See yourself:
  – Determine minimum necessary for operations and emergencies
  – Remaining = capital improvements
  – Remove annual “all-local” capital needs to determine matching capability

• See the enemy:
  – Major infrastructure needs (short and long term)
  – Elected officials desires (economic development, amenities, etc)

• See the terrain:
  – State and Federal grant fund sources and requirements
  – Loan vehicles

Skin in the game…
Recent Projects

Funding Key:
- Local
- Federal
- State or other
**Richland Ave. / SR682**

**Scope:** First roundabout in SE Ohio, bridge rehab, ped/bike improvements, public art

**Construction Year:** 2010

**Cost:** $6.536 mil

- Local – $1,787K
- Safety - $1,940K
- Muni Bridge - $1,829K
- Trans Enhance 1 - $1,261K
- Trans Enhance 2 - $40K

<table>
<thead>
<tr>
<th>SHEET NUMBER</th>
<th>PARTICIPATION SPLIT</th>
<th>ITEM</th>
<th>ITEM EXT.</th>
<th>GRAND TOTAL</th>
<th>UNIT</th>
<th>DESCRIPTION</th>
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<tr>
<td>19 50 131 16 106</td>
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<td>LUMP</td>
<td>832</td>
<td>15000</td>
<td>LUMP</td>
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<td>LUMP</td>
<td>832</td>
<td>30000</td>
<td>LUMP</td>
<td>EACH</td>
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</tbody>
</table>

*OTEC 2017*
Oxbow Bridge

**Scope:** Historic D.H. Overman Bridge Rehabilitation, OU Utility Repair, Ped, Art

**Construction Year:** 2013

**Cost:** $3.794 mil

- Local – $683K
- Muni Bridge - $2,563K
- Credit Bridge - $185K
- Ohio University - $363K

*OTECH 2017*
West Union

**Scope:** Water main, sidewalks, paving, roundabout, stormwater quality, and signal

**Construction Year:** 2014

**Cost:** $1.315 mil

- Local Road – $524K
- Local Water/Sewer/Storm - $265K
- OPWC Issue 1- $400K
- OEPA SWIF - $126K
Richland South

**Scope:** Storm sewer replacement, water line replacement, sanitary lining, widening for bikelanes, sidewalk & curb replacement, street lighting, repaving/marking

**Construction Year:** 2015

**Cost:** $4.883 mil

Local – $1,896K

Safety - $500K

Transportation Alternatives- $500K

Small Cities - $1,978K
**Access Roads for Economic Development**

**Scope:** Columbus Circle  
**Construction Year:** 2011-12  
**Cost:** $0.622 mil  
Local – $222K  
ARC- $400K

**Scope:** E. State Access Rd.  
**Construction Year:** 2015  
**Cost:** $0.545 mil  
Local – $45K (> $100K private)  
ARC- $400K
Safe Routes To School

**Scope:** Construction of missing sidewalk sections, crosswalks, or stairs on Rardin, Verona, Watt, Fort, Armory, Lancaster, W. State, Second, S. Shannon, and several other locations city-wide.

**Construction Years:** 2009-2013

**Season 1:** $138K ($17K, $121K)

**Season 2:** $150K ($42K, $108K)

**Season 3:** $199K ($20K, $179K)

**Season 4:** $63K ($0K, $63K)

*OTEC 2017*
Bikeways

Columbus Road Bikepath Spur

**Scope:** New bridge and spur from Hockhocking Adena Bikeway to Columbus Rd. area

**Construction Year:** 2016

**Cost:** $2.310 mil

Local – $475K

Transportation Alternatives- $1,335K

ODNR COTF - $500K

E. State Hockhocking Bikeway

**Scope:** Eastern extension to Holzer

**Construction Year:** 2008

**Cost:** $0.698 mil

Local – $100K

Transportation Enhance- $523K

ODNR COTF - $75K
E. State / US33 Interchange and street project

Proposed Scope: Dual turn lanes from and to interchange, repaving, south side sidewalk, pedestrian crossing safety improvements, intersection improvements potential nearby neighborhood utility and sidewalk improvements

Construction Window: 2017-18

Total Cost (Eng and Const): $6,112,800
Proposed Funding

**Local - Street Rehab tax, TIF - $750,000 (Available)**

**Small Cities - $2,000,000 (Awarded)**
(80/20 match from OPWC & Local)

**OPWC – Issue 1 $400,000 (Anticipated)**

**Total project – Design, right-of-way, environmental, and non-federal share of construction**

- **Right-of-Way (as needed), $140,000.00**
- **Design (est 10%), $509,400.00**
- **East State St. Sidewalks, Paving, Remark, Unspecified intersection improvements, $1,650,000.00**

**Traditional Signal and Turn Lanes Construction, $3,304,000.00**

**Contingency (10%), $509,400.00**

**Safety or Other $2,962,800 (Awarded)**
(Local + OPWC + Small Cities = 52%)

**Traditional Turnlanes and Signal Interchange – Design and Construction**

**TOTAL: $6,112,800**

**Repaving, sidewalks, markings, signals, interchange – Construction Only**

**Total project – Non-federal share of Construction Only**
Other Considerations

- Federal vs. State matching rules
- Lining up Fiscal Years
- Where can your raise revenue and where can’t you?
- All grants have strings attached
  - Federal environmental and right-of-way rules (cost!)
  - Buy American provisions
  - Federal vs. State prevailing wage
  - DBE goals
  - Paper, paper, and more paper
- Environmental and right-of-way clearance timelines
Questions?

Andrew Stone, P.E.
City Engineer & Director of Public Works
astone@ci.athens.oh.us
740-593-7636