Introduction
History

• **2002** – City awarded grant for ATMS construction
  – $4.7 M from LA County Metro
  – Five-year horizon

• **2003** – City began ATMS effort
  – Econolite “icons ATMS” central control
  – 48 Downtown intersections initially planned for connection

• **2004** – City transitions to Siemens “i2TMS”
2005 – City begins design effort for communications
   – Design recommends moving away from larger cabinets, towards new controllers
2006 – Five phase ATMS project approved
   – Additional grant funding received
2007 – Construction of ATMS begins
   – Phase-out of older equipment
   – Phase-out of larger footprint cabinets
2013 – Completed Phase 4 of ATMS (almost 90% completion)
How did we put this all together?

How did we develop a vision?
Developing the Vision

1. Listening
   - Maintenance staff input was critical
   - Leverage needs of other Departments
   - Community concerns/needs

2. Standardize
   - Design
   - Equipment
   - Maintenance
3. Simplify
   - Standardizing = simplifying
   - Get rid of outdated equipment

4. Update
   - Stay current
   - Standards & Specifications
   - Training
Developing the Vision

- Listen
- Standardize
- Simplify
- Update

1. Signal Equipment
2. Communications
3. Signal Controllers & Cabinets
4. Workplace Overhaul
5. New Central Control Software

Then we had to get there...
Achieving the Vision

1. Signal Equipment
New Pedestrian Indications
Video Detection Systems
2. Communications
Pull Box Layout & Organization
Achieving the Vision
332 Cabinet Interior
332 Cabinet Interior
“Old” Damaged Conduits
Interduct in Existing Conduits
Interduct in Existing Conduits
Achieving the Vision

3. Signal Controllers and Cabinets
Large Footprint
“P” Cabinet
Achieving the Vision

332 Cabinet
332 Cabinet Interior
New Battery Backup System Cabinet
Old Cabinet and Foundation
New Cabinet and Foundation
New Locks
Achieving the Vision

4. Workspace Overhaul
“Old” Signal Shop Office
“New” Signal Shop Office
Old Traffic Signal Storage Shed
New Traffic Signal Storage Shed
New Traffic Signal Storage Shed
New Signal Test Board
Achieving the Vision

5. New Central Control Software
Traffic Management Center (TMC)
TMC in Signal Shop
Lessons Learned

Standardize!
• Standard plans
• Better inventory management
• Throw out/recycle what you don’t need

Simplify!
• Will make your job easier
• Improves performance and efficiency
Benefits

• Traffic Signal Supervisor’s perspective
  – Better maintenance
  – Ease of operations
  – Sense of accomplishment!

• City Traffic Engineer’s perspective
  – Increasing community support
  – Council support = more $$$!
  – Positive work attitude/morale
Closing

• Listen
• Standardize
• Simplify
• Update
This presentation couldn’t have been completed without help from:

- **Andrew Maximous** - Transportation Engineer
- **Dave Cook** - Lead Traffic Signal Technician
- **Ed Escarcega** - Traffic Signal Technician
We’re Hiring!

Traffic Signal Technician Position
See flyers for more information
Deadline April 3, 2014
Questions?

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