Experiences Implementing

Leading Pedestrian Interval

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Background

- **WALK display begins before traditional GREEN**
- **Typically 3 – 7 Seconds**

Source: MassDOT Municipal Resource Guide
Background

- Recognized by FHWA (SA-17-063) & NACTO
- 60% Reduction in pedestrian-vehicle crashes at intersections
- MUTCD Guidance – Section 4E.06
My Presumptions

- Equipment programming would a relative ease
- Worried would need to revamp Coordination Times
- Naturally would apply to both RTs and LTs

- My presumptions were a off.......
History

Tested in CBD

- Fall 2016
- College / Oneida
- Steady complaints by PEDs
History

Tested at two more intersections at Lawrence University

- Fall 2017
- College / Drew, College / Lawe
- Complaints by PEDs was increasing
History

Citywide implementation

- Summer 2018
- 85+ Signals
- Supports Mayor’s initiative to be PED friendly
- Reinforce PED right-of-way over turning vehicles
Implementation

- Equipment
- Controller
- Malfunction Management Unit (MMU)
Implementation

- Controller
  - Programed by Phase
Implementation

- Controller Compatibility
- M50/M60 good to go
- M40 – Min. Firmware
  - OS#3.33
  - DB Check Chip (7 Units)
Implementation

- **MMU**
  - Walk Disable Setting
    - Need Set to “ON” (TS1 Cabinets)
    - Dip Switch (12 Units)
    - LED (14 Units)
Implementation

- Malfunction Management Unit (MMU / Conflict Monitor)
  - Firmware Flaw
    - EDI r6.5 (6 Units)
    - Ignored WALK DISABLE Setting
Implementation

- Inventory and track changes
Implementation

- Controller
- Check Preemption
- MMU Conflict Flash
- “Skipped Yellow Clearance”
Implementation

- No need to redo Coord Data to implement (if min green okay)
- Loss Green Time in Coordinated System
- DB Check Offsets
Implementation

- Independent PED phases

Source: NITC-RR-782
Forced Simultaneous Greens
- MMU Jumper & PED phase (M40)(TS2)
- Not needed with M50/M60
- Program Controller
  - Add PED Phase
Mason & Northland (FYA)
Bennett & Northland (FYA) (single PED crossing)
Lessons Learned

Before Implementation
- Get inventory of equipment Model & Firmware
  - Controllers & MMUs
- Discuss with Vender

Implementation
- Test a few locations first, get familiar
- Test Preemption
- Monitor and Adjust
  - Independent Phases – Y or N