FHWA STIC Program - 2018
Tablet Based Quality Management

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Spring Asphalt Seminar 2018

STIC – State Transportation Innovation Council
Objective

• Bring together QM staff from both contractor and agency
• Electronically integrate roles and responsibilities using tablet-based processes
• Automate quality control, acceptance and payment calculations/decisions
• Enable programmatic-level quality review, as well as in-depth, longer-term research
Elements

• People:
  – Contractor QC techs, project inspectors, researchers, field engineers, and provider professional services

• Activities:
  – Basic asphalt density quality control
  – System level metrics
  – Baseline comparisons
  – Ongoing performance tracking

• Business case study:
  – Review impacts of technology on quality management
Evaluation

• Productivity - time spent with data entry, searching, calculations, etc.
• Data Volume - quantity of observations
• Data Variety - observation types – text, video, etc.
• Data Completeness - components supporting field measured values
• Data Timeliness – when becomes available to others
• Data Availability – accessibility to project participants
Provider Support

- Project Enterprise – up to 3 PM Schedules
- Electronic “field book” – field density
- Collaborating “portal” application
- Training & system support
- Hardware & connectivity:
  - 15 ruggedized tablets
  - Data plan – 2 GB per device
Schedule

- Provider contract – Late February
- Selection of candidate PM Schedules – March (interested?)
- Deployment of Hardware/Training – late May (best case)
- Construction – June through November 2018 (completion of contracts)
- Review of Trial applications – January 2019
- Recommendations – March 2019
Thank you!