Production/Construction Feedback

- PCF – controls and devices designed to provide rapid feedback to the user to improve the density and hence the performance of asphalt pavements.
Production/Construction Feedback

- Areas of concern:
  - Aggregate moisture
  - Asphalt Sampling
  - Compaction
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Types of Rapid Production Construction Feedback

- 8. Both Asphalt and Base
- 7. IC Aggregate Base
- 6. IC Asphalt Pavements
- 5.7 Monitor % Coverage
- 5.6 Monitor Passes
- 5.5 Monitor Roller Speed
- 5.4 Monitor Stiffness
- 5.3 Monitor Stiffness each lift
- 5.2 Truck Samplers
- 5.1 Real-Time Paving Temp
- GPR-Gnd Penetrating Radar
- 4.2 Data Collection - SHA cloud
- 4.1 Data Collection - Thumb-Drive Contractor
- 3.2 use of RCF - SHA
- 3.1 use of RCF - Contractor
- 2. Pft Moisture Sensor
- 1. Belt sampler

Legend:
- Purple: Acceptance
- Green: QC
- Red: Contractor
- Blue: Agency
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Types R-PCF

8. Both Asphalt and Base
7. IC-Aggregate Base
6. IC-Asphalt Pavements
5.7 Monitor % Coverage
5.6 Monitor Passes
5.5 Monitor Roller Speed
5.4 Monitor Stiffness
5.3 Monitor stiffness each lift
5.2 Truck Samplers
5.1 Real-Time Paving Temp
GPR-Gnd Penetrating Radar
4.2 Data Collection - SHA cloud
4.1 Data Collection-Thumb-Drive Contractor
3.2 use of RPCF - SHA
3.1 use of RPCF - contractor
2. Ptl Moisture Sensor
1. Belt sampler

Contractor
Agency
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Planning to Try

- Truck Sampler
- FLIR
- MOBA IR
- Moisture Sensor
- GSSI Rolling Density Meter
- Pav't Temperature
- GPR
- IC Roller

Contractor

State
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Most Promising to Add Value

- Truck Sampler
- Auto. Belt Sampler
- GPR
- Moisture Sensor
- IC Roller
- Pavement Temperature

Bar chart showing contractor and state responses.
States and Contractors Responding to Survey

Questions:
1. How does use of R-PCF devices correlate to FHWA Density Initiative?
2. Are the tools key or is understanding, that makes the tools useful?
3. Next step?
States and Contractors Responding to Survey