

Mix Design and Analysis Track

Pooled Fund TAC Meeting

I-2015

Mixtures that are consistently
long-lasting, constructible,
and cost efficient

CP ROAD MAP
shaping the future of **concrete pavement**



The CP Road Map – MDA Track

- Work by others:
 - IN Permeability
 - MI Air void system
 - SD Joint distress
 - ...

Pooled Fund - Tasks

- Four Sub-Tracks
 - Tests
 - Models
 - Specifications
 - Communication

Pooled Fund - Tasks

- Tests

- Mix Proportions in fresh concrete -
Portable XRF Year 1
- Set time – calorimetry and/or acoustic
methods Year 1
- Rheology test Year 1
- Foam Drainage Test Year 2

- Other models if funding is available:

- Alternative air test

Pooled Fund - Tasks

- Tests being covered elsewhere
 - Foam index test
 - AVA
 - Coefficient of Thermal Expansion (CTE)
 - Permeability

Pooled Fund - Tasks

- Models
 - What air do we really need Year 1-2
 - Mix proportioning Year 1
 - Paste content and shrinkage Year 2
 - Standard data Year 2
- Other models if funding is available:
 - Minimum working temperatures
 - Interaction Hyperdoc
- Specifications
 - Guide specification Year 1-2
 - Check sheets Year 2

Pooled Fund - Tasks

- Communication
 - Field trials for
 - New tests
 - New models
 - New specifications
 - Training materials as needed

Year 2 - 3

Pooled Fund – Budget – Year 1

Pooled Fund – Subcontractor Year 1

- Subcontractors
 - Trinity (Proptns, Guide)
 - Fugro (Guide spec)
 - OK State (Air system)