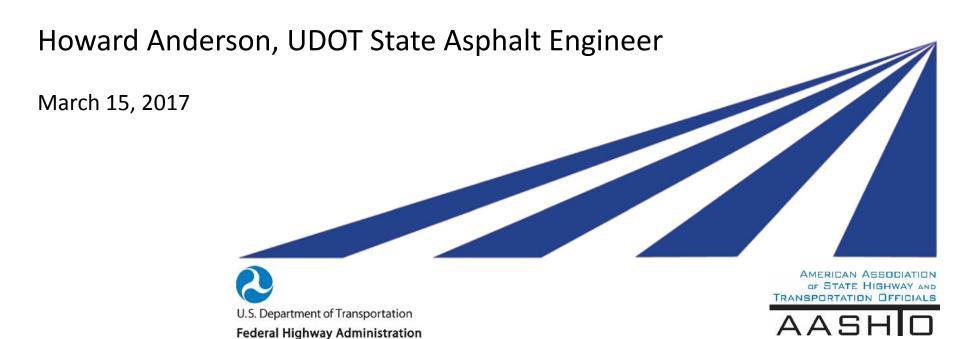




#### **State of Utah Experience**

Performance-Related Tests and Specifications



## Performance Tests: 3 Legged Stool

- Pavement Stripping
- Pavement Rutting
- Pavement Cracking





## UDOT Performance Test History – Asphalt Pavement - Stripping

- Immersion Compression Test
- Lottman Test, AASHTO T 283
- Justified use of hydrated lime in all our HMA
- QMP to audit hot mix plants lime and moisture
- Performance test?

## **UDOT Performance Test History – Asphalt Pavement - Rutting**

- Georgia Loaded Wheel Test
- Asphalt Pavement Analyzer
- Hamburg Rut Test



# Hamburg Equipment - 20 lbs extra load applied



### UDOT Performance, Research – Asphalt Pavement - Cracking

- BBR Beams for cracking performance
- SCB to balance our mix designs

#### Dry brittle pavements

- No longer pay asphalt binder separately
- Superpave and the Hamburg Test along with the use of RAP have left us with dry brittle pavements.

#### **BBR Beams**

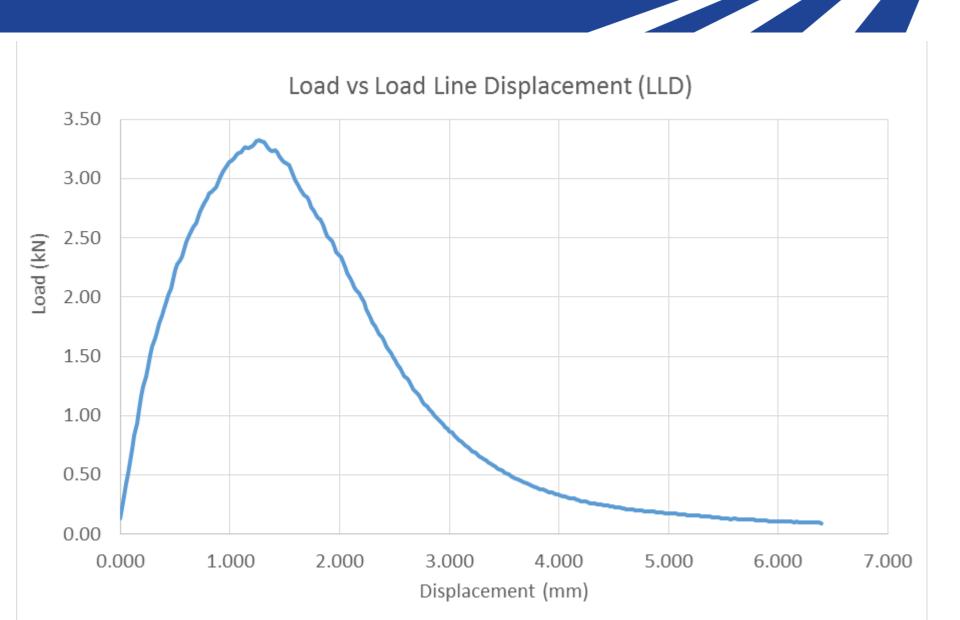
- Dr. Pedro Romero, Utah work with BBR Beams
  - Please notice how this test has demonstrated to relate predicted performance to field performance



SCB Test, I-FIT, Illinois procedure



#### **I-FIT Test**



### **SCB Sample After Testing**



### Questions? Howard Anderson, **UDOT State Asphalt** Engineer (801) 965-4426 handerson@utah.gov