



RPUG 2018 CONFERENCE - SOUTH DAKOTA

30 Years On The Road To Progressively Better Data

Rapid City September 18-21

Pavement Surface Properties Consortium Phase II [TPF-5(345)]

Members: FHWA, CT, GA, IL, MS, OH, SC, TX, VA

TPF-5(345) Managing for Improved Safety

- Continue effort to produce high-quality surface properties measurements
- Focusing on:
 - Enhancing and adoption of emerging **friction and macrotexture** measurement technologies and the integration of these measurements into the next generation of pavement asset management systems
 - Developing and deploying asset management approaches and tools that help **improve the safety** of our road networks by reducing the number of crashes and related fatalities

“New” Scope

- More emphasis on friction and macrotexture
- Different options for the equipment comparisons
- Supporting DOT safety goals
- More technology transfer and training?

2017-18 Activities

- Equipment comparison at the Virginia Smart Road
- 2017 TAC Meetings
 - Blacksburg, VA
 - Golden, CO
- Equipment comparison at the Transportation Research Center in OH
- 2018 TAC Meetings
 - East Liberty, OH
 - Rapid City, SD

TRC Comparison

Report for:
 DOT Pooled Funds TPF-345
 CONSORTIUM FOR PAVEMENT SURFACE PROPERTIES
 TWELVETH ANNUAL EQUIPMENT ROUNDUP (RODEO 2018)
 Dates of Service:
 June 4 - 7, 2018
 Report No. EFTC - 608

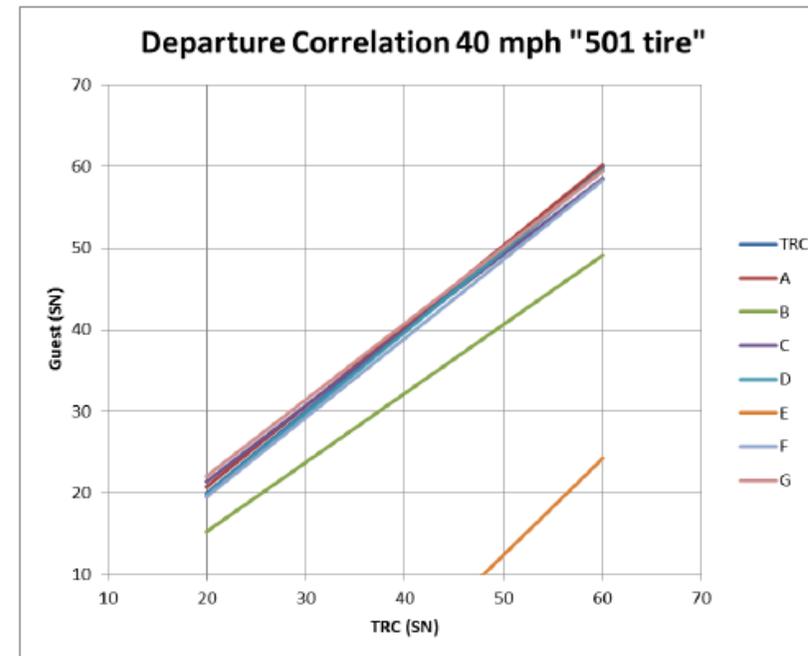
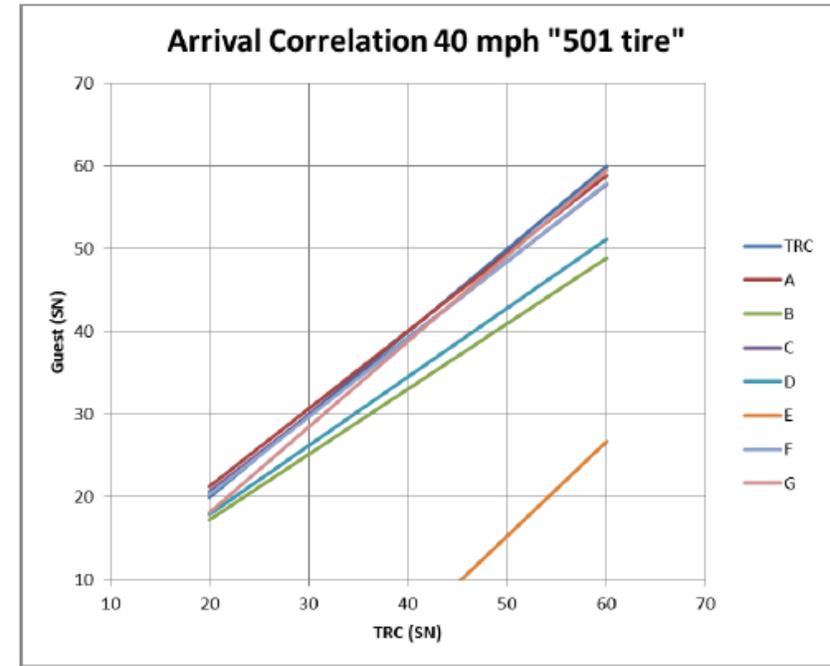
Conducted by:
 Transportation Research Center Inc.
 East Liberty, Ohio 43319



TRC Inc. Project Number: 170675p



Final Report Prepared for:
 Gerardo Flintsch
 Virginia Tech Transportation Institute
 3500 Transportation Research Plaza,
 Blacksburg, Virginia 24060



2019 Planned Activities

- Equipment comparison
 - at the Smart Road?
- 2019 TAC Meetings
 - Blacksburg, VA?
 - Roanoke, VA
- Pavement Evaluation 2019

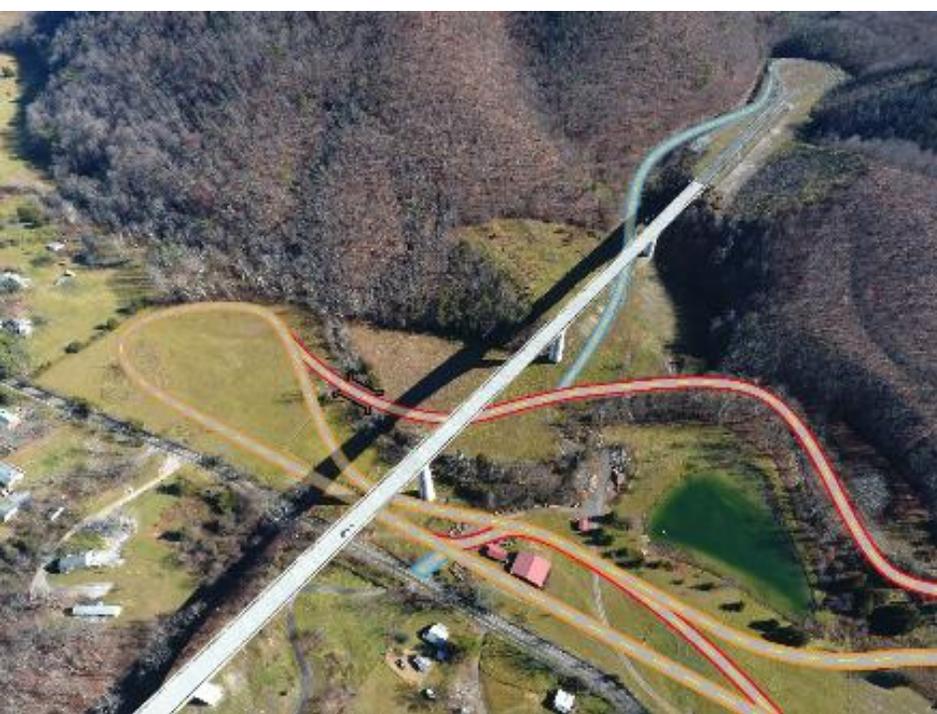


Ideas for Projects / Initiatives

- 1. Collect data to answer the main questions about friction and macrotexture**
- 2. Continue best practice documentation**
- 3. Wallops like workshop or define more standardized procedures.**
- 4. Study finer mixes (4.75 mm)**
- 5. Warranty-projects - how can the pavement and safety folks use friction?**
- 6. Work more with the tire industry more.**

Ideas for Projects / Initiatives (cont.)

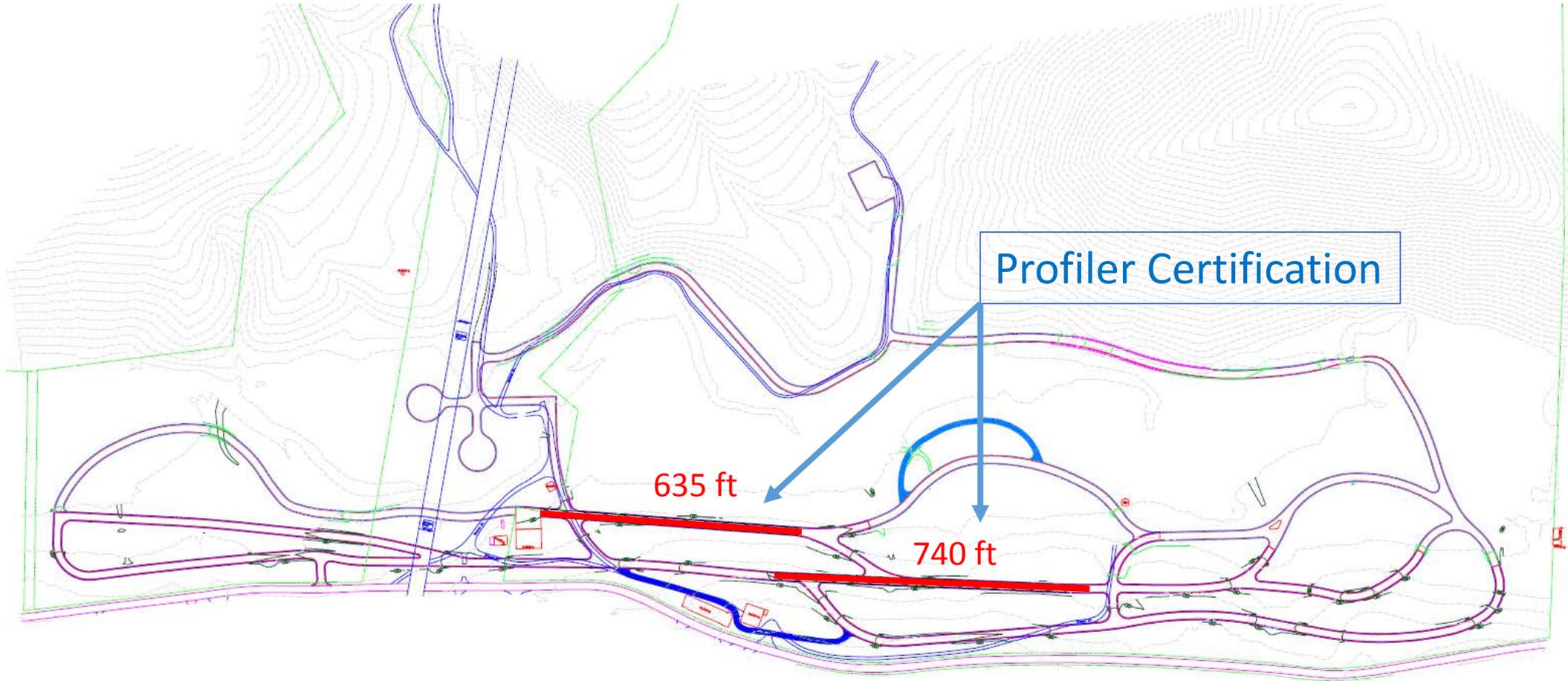
- 7. Operator certification or training**
- 8. Using network aggregate monitoring to support PFMP**
- 9. Build portfolios of treatments and the levels of friction and macrotexture that can be achieved.**
- 10. Use of CFME and correlation with LWST**
- 11. Looking at micro and macro with dry and wet friction – create catalogue with values for different surfaces/ treatments**



Rural Roadway Expansion

- Approximately 103 acres
- Rural testing capabilities:
 - Hilly and flat winding roads
 - Small bridges and narrow sections
 - Off-road testing
 - Rural intersections
 - Roadways will be built to “older” (typical in-service) standards

Rural Roadway – Surface Test Sections







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PAVEMENT EVALUATION 2019



Roanoke, VA

September 17-21, 2019



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The 6th International SaferRoads Conference

is coming to Virginia (USA)
May of 2020



Interested?
To learn more contact
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Thank you to the
6th International SaferRoads 2020 Conference Sponsors



<http://saferroadsconference.com>

May 14 – 16, 2020

**Greater Richmond
Convention Center**

**Host Hotel –
Marriot Richmond**

