## **Applying (or misapplying!) CMFs:**

The ins and outs of estimating crash reductions



Thursday, Dec. 11, 2014



#### Introduction

Karen Scurry, P.E. FHWA Office of Safety Programs





Daniel Carter, P.E. – *CMF Clearinghouse primer and new features*Engineering Research Associate, UNC Highway Safety Research Center

Frank Gross, Ph.D., P.E. – *Misapplication of CMFs*Highway Safety Engineer, Vanasse Hangen Brustlin, Inc.

John Milton and Jennene Ring – Developing a state CMF short list and using CMFs in benefit/cost analysis

Washington DOT





## Webinar "Housekeeping"

- Rejoining the program
- Questions/assistance
- Post-webinar survey
- Certificate of attendance





#### Poll

 How many people are attending the webinar at your location?





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## New Features: Subcategories

- Some categories were getting too big (roadway, roadside, traffic control)
- Subcategories break it up into smaller, more specific groupings
- Example: Roadway
  - Lane width
  - Number of lanes
  - Lane restrictions
  - Pavement condition and friction
  - Winter weather treatment
  - Roadway rumble strips
  - Other





## Searching the Clearinghouse

- When looking for something specific, search by countermeasure name
  - More search terms = narrower results
- When looking to see what the Clearinghouse has, use a blank search
  - Explore by category
  - Use filters to narrow results





### New Features: Resources

- How to Develop and Use CMFs
- How to Develop and Use SPFs
- Others on b/c analysis and behavioral countermeasures





### Issue: How to Present CMFs

- Some authors develop only one or two CMFs
- Some authors develop hundreds (disaggregate analysis)
- CMF Clearinghouse policy has been to present all CMFs reported by author





#### Poll

 How would you prefer to see the Clearinghouse present the results of a study that developed many CMFs for a countermeasure?





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#### **CMF-Related Resources**

- CMF Training Opportunities
  - Application of CMFs (February 18, 2015 register via NHI)
  - Science of CMFs (no scheduled sessions to date)
  - CMF Development Pilot (March 2015, tentative)
- Technical Assistance
  - http://rspcb.safety.fhwa.dot.gov/p2p/p2p\_app.aspx
- Synthesis of Countermeasure Service Life and Crash Severity Costs (coming soon)
- CMF Clearinghouse User Guide (coming soon)





# What is the EDC-3 Data-Driven Safety Analysis Initiative?

 The application of <u>two</u> science-based analysis approaches into <u>two</u> common transportation processes

Approaches

Predictive Systemic







# Why the Data-Driven Safety Analysis Initiative?

Key Message:







# Recording of Today's Webinar







## www.CMFClearinghouse.org

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