

The Road Ahead

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The Collaborative Sciences Center for Road Safety











Mission: To create and exchange knowledge to advance transportation safety through a multidisciplinary, systems-based approach

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A SPECIAL THANK YOU to the Summit Planning Committee!

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Principles of "systems" oriented approaches



Summit Goals

- Recognize and explore our most wicked, complex transportation safety problems
- Share principles of systems-oriented approaches and real-world practices in different contexts
- Build relationships and skills to accelerate and adapt our approach to fundamentally change roadway systems
- Showcase tools that can inform decision-making, manage complexity, and support shared values, purpose, and urgency

Summit mindset: a learning community

- I have some information; so do other people
- Each of us may see things that others don't
- I may be contributing to the problem
- Differences are opportunities for learning
- People may disagree with me and have pure motives

Along with a learning mindset-

- Involvement and advocacy from the community
- Buy-in/support/championing from organization leadership
- Awareness of technology disruptions
 - Roles are being redefined by technological advances
 - Emerging data

(some) Summit Themes

- Safe Systems
 - Collaboration & Engagement
 - Building Capacity in our Communities for Safety Advocacy
- Systems Science
 - Defining our Questions in Systems Terms
 - Collaborating on Solutions Development
 - Measuring Success using Systems Thinking



(some) Summit Themes

- Problem Identification
 - Data Ownership
 - Data Integration across Domains
- Adapting to a Changing World
 - Evolving Safety Technology
 - Evolving Tech Distractions
 - Evolving Road User Behaviors
- Tech is a tool. Not a goal, nor a value.



Systematic Inequalities

- Historically, infrastructure investments in America's transportation system created huge disparities in health and safety (Norton, Foxx)
- We can use safe systems and systems science to bridge these divides (Thomas, Spurlock, Freichs)
- Can we also use these tools to address inequalities in access to CAV systems?

Top infrastructure official explains how America used highways to destroy black neighborhoods

LAN PYKE 💆

MAR 31, 2016, 12:47 PM



FAMILY PICTURES SHOW U.S. SECRETARY OF TRANSPORTATION ANTHONY FOXX AS A YOUNG MAN, AND HIS GRANDPARENTS ON THE STEPS OF THE CHARLOTTE, NC, HOME WHERE HE GREW UP CREDIT: DEPARTMENT OF TRANSPORTATION/ANTHONY FOXX

It's time for America to reckon with the role that highway projects too often play in ripping apart underprivileged communities around the country, Transportation Secretary Anthony Foxx said Wednesday at the Center for American Progress.

Some Goals to Take Home with You (1 of 2)

- Every week…
 - Take 10 minutes to draw a diagram of a system
 - draw anything at all...how your family plans and prepares a special meal...how the NCAA picks awards a basketball championship
- Every month...
 - Build one new partnership in transportation safety
 - Give your new partner a seat (and a voice) at your table
- Every year....
 - Find another conference (or similar opportunity) to learn more about systems science or safe systems



Take-Home Goals (2 of 2)...Models for New Names

OLD NAME

POSSIBLE NEW NAME

Driverless Car → Software-Drive Mode

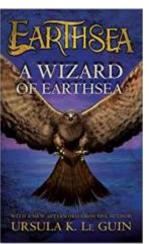
Traffic Calming → Time-Saving Road

System → Environment

Safety → Protecting Our Communities

Accident → Crash





Thoughts for the Transportation/Land Use Community

Follow Steve's advice...

AND

- Recognize the opportunity for planners/engineers/policymakers to change status quo on critical road safety levers:
 - Speed
 - Roadway design
 - Safe crossing
 - Land use/site design

Thoughts for the Transportation/Land Use Community

- Systems science approaches provide opportunity for planners/engineers to build competencies needed in future of our field
 - All standards re-thought in next 10-20 years
 - Long-range plans acknowledging inability to predict future travel patterns

A Final Closing Thought

- Let's Rethink "Safety"
 - Not a Property of Places
 - Not a Property of Objects
 - Not a Property of Individuals

- Safety is a Community Resource
 - We all need to invest in it, so that there is plenty available when we need it

