



# Context Sensitive Solutions

## A Mn/DOT Flagship Initiative

Scott Bradley - Mn/DOT Director of CSS – May 2010



*Your Destination... Our Priority*





# Mn/DOT's New Strategic Vision & Plan

## How Does Context Sensitive Solutions (CSS) Fit In?

**Minnesota Department of Transportation**

*Safety • Mobility • Innovation • Leadership • Transparency*

**Minnesota Department of Transportation Strategic Vision**

**Dear citizens of Minnesota,**

When the Governor offered me the Minnesota Department of Transportation Commissioner position, I joined it as a calling, a calling to serve Minnesota in a different capacity. I'm here to serve the citizens of Minnesota. I'm here to serve you.

I have a vision for transportation. As your commissioner, I have two prime objectives: one, build the trust and confidence in Mn/DOT and two, regenerate a spirit of innovation and creativity in the department. Minnesota has a longstanding tradition of being innovative and creative in transportation. We have great potential to take Mn/DOT to a higher level of performance.

This document is Mn/DOT's strategic vision. It conveys our vision, mission, values and strategic objectives. It defines our framework for success and helps for the future. YOU are a part of that hope. YOU are a part of our success.

**Your commissioner,**  
**Tom Sizemore**

**Your Destination... Our Priority**  
12-15-08

**Your Destination... Our Priority**

**Strategic Directions**

**Safety** - Promote and maintain a safe, reliable and modern transportation system

- Reduce transportation-related fatalities and injuries through the use of new and improved technology and safety measures
- Monitor the condition of existing infrastructure in order to maintain a reliable and efficient transportation system

**Mobility** - Improve access and enhance the movement of people and freight

- Ease congestion, reduce commute times, and improve the quality of life and economic well-being of all Minnesotans
- Promote more transit and use all modes for increasing mobility and accessibility in the Metro and in Greater Minnesota
- Maximize operational efficiency of Interregional Corridor

**Innovation** - Promote a culture of innovation in the transportation

- Foster innovation and collaborative partnerships within the transportation community to deliver 21st century transportation solutions
- Design ground breaking, multi-modal transportation solutions that will accommodate the diverse needs of all individuals and communities
- Encourage research and build capacity to develop, implement and sustain solutions that balance preservation needs and address congestion issues

**Leadership** - Promote the transportation leader and employer of choice for Minnesotans diverse populations

- Attract, focus talent, public, private and external partnerships to deliver value to the public
- Value service, excellence and diversity to be an employer of choice
- Provide development and advancement opportunities for all employees
- Empower all employees to be leaders and ambassadors for Mn/DOT

**Transparency** - Build public trust in Mn/DOT

- Develop a simple, yet comprehensive tool for measuring performance across functions that is efficient, accurate, cost effective and will show accountability to the public
- Build relationships within local, metropolitan and statewide public involvement in developing transportation solutions
- Effectively link the strategic vision to Mn/DOT's long range transportation plan, strategic plan and investment decisions, serving as an ethical compass for decision-making at all levels

**Icons:** Airplane, Bus, Car, Bicycle, Train, Boat, Footprints



# Supporting The Strategic Vision & Plan

## A CSS approach supports:

- Building responsiveness and accountability
- Building relationships and trust with stakeholders
- Building collaborative alliances and sustainability
- Partnering to share resources, responsibilities, opportunities, risks and benefits
- Accomplishing more with less ... *balancing competing objectives while optimizing returns on investments ... requiring thoughtful application of flexibility in design*



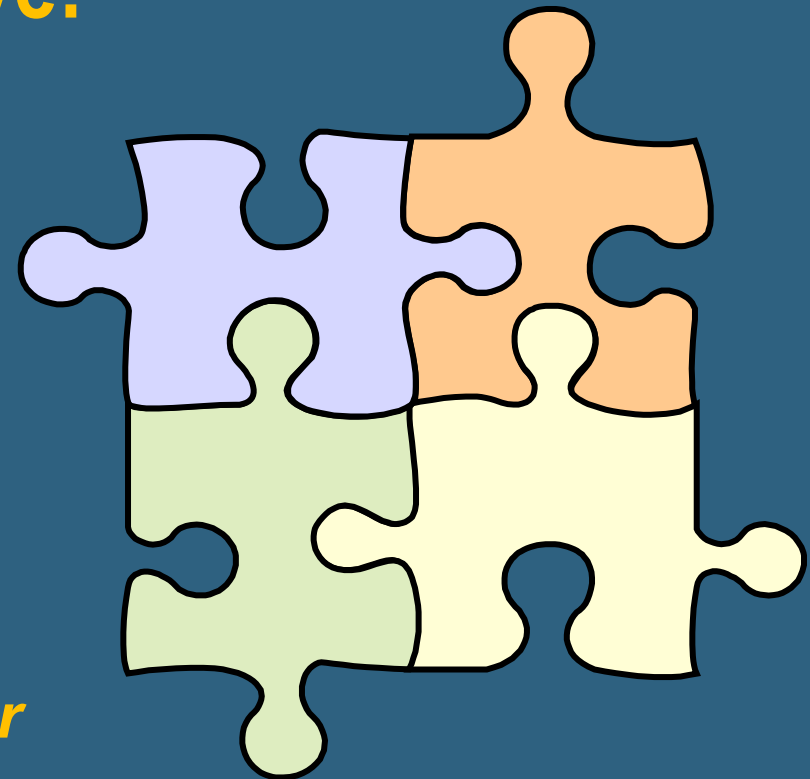


# Supporting The Strategic Vision & Plan

## The CSS Flagship Initiative:

*Seeks to integrate CSS in Mn/DOT as a business model to improve our processes and to balance competing objectives while enabling Mn/DOT to achieve benefits correlated to applying CSS philosophy and principles ...*

*Tying more key pieces together*





# Context Sensitive Solutions

## Definition by FHWA & AASHTO

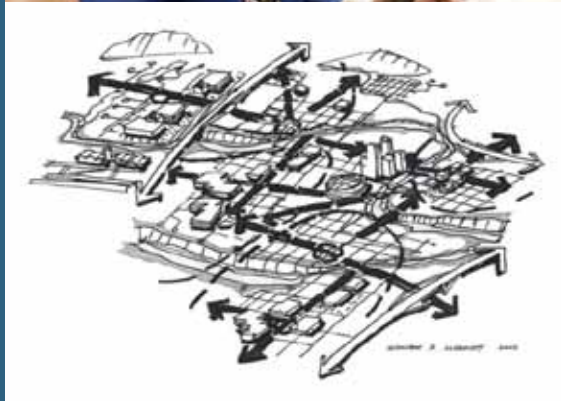
CSS is a collaborative, interdisciplinary approach that involves all stakeholders in providing a transportation facility that fits its setting. It is an approach that leads to preserving and enhancing scenic, aesthetic, historic, community, and environmental resources while improving or maintaining safety, mobility & infrastructure conditions.





# Context Sensitive Solutions

Philosophy and Principles applying to Programs, Services, Planning, Project Development, Construction, Operations, and Maintenance ...





# Context Sensitive Solutions

## The Philosophy & Strategy

- Strive towards a shared stakeholder vision to provide a basis for decisions
- Demonstrate a comprehensive understanding of contexts
- Foster continuing communication and collaboration to achieve consensus
- Exercise flexibility and creativity to shape effective transportation solutions while preserving and enhancing community and natural environments





# CSS Principles

## Original CSD (Now CSS) Principles “Paraphrased”

- Use interdisciplinary teams
- Involve your stakeholders
- Seek broad public involvement
- Use a full range of communication strategies
- Seek consensus in determining purpose and need
- Address alternatives and all modes of transportation
- Seek safe facilities for all users
- Seek environmental harmony
- Address community and social issues
- Address aesthetic concerns and integrations
- Utilize a full range of design choices and flexibility
- Document project decisions
- Track and meet all commitments
- Use agency resources effectively
- Create lasting value for communities







# CSS Benefits – Agency Emphasis

**Correlated To Applying CSS Principles** (NCHRP Report 642)

1. Improved predictability of project delivery
2. Improved project scoping and budgeting
3. Improved long term decisions and investments
4. Improved environmental stewardship
5. Optimized maintenance and operations
6. Increased risk management and liability protection
7. Improved stakeholder/public feedback
8. Increased stakeholder/public participation, ownership & trust
9. Decreased costs for overall project delivery
10. Decreased time for overall project delivery
11. Increased partnering opportunities





# CSS Benefits – User Emphasis

**Correlated To Applying CSS Principles** (NCHRP Report 642)

12. Minimized impact to human and natural environment
13. Improved mobility for users
14. Improved walkability and bikeability
15. Improved safety (vehicles, pedestrians, and bikes)
16. Improved multi-modal options (including transit)
17. Improved community satisfaction
18. Improved quality of life for community
19. Improved speed management
20. Design features appropriate to context
21. Minimized construction related disruption
22. Improved opportunities for economic development





# Scope of CSS Flagship Initiative

## Enabling CSS Change Management





# CSS Flagship Initiative

## FY 2010 Milestone Targets

### Awareness, Knowledge & Skill Building

- **Refine & deploy the new 2-day CSS Workshop** (core foundations)  
(Developed and deployed March 9-10, 2010)
- **Refine & deploy the new 2.5-day Advanced Flexibility in Design Workshop**  
(Developed and deployed March 24-26, 2010 and May 5-7, 2010)
- **Co-sponsor & co-host a 1-day CSS National Dialog**  
(Planned and deployed April 22, 2010)
- **Develop & deploy an on-line CSS E-learning Module** (introductory overview)  
(Under development and with deployment scheduled in late June 2010)
- **Plan & conduct a 1-day CSS in Construction, Operations & Maintenance Forum**  
(Under development with deployment scheduled for June 29, 2010)

