

# **Moving Innovation Into Practice**

Carmen Swanwick, S.E UDOT Chief Structural Engineer



#### **Presentation Outline**

- Program direction
- Implementation
- Practice
- Public outreach
- Evaluation





## **Program Direction**

- Establish goals
- Understand the risks
- Recognize benefits



- Research
- Get involved nationally
- Market internally and externally
- Perform scanning tours
- Conduct pilot project
- Identify program of projects





PBES; Hoytsville Road over I-80 (Wanship); Design-Bid-Build







- Program of projects
  - Prescriptive projects gain experience
    - o Design-Bid-Build
    - Construction Manager General Contractor (CMGC)
  - Performance projects innovations led by contractor
    - o Design-Build





- Conduct workshops
- Establish common applications
- Provide training
- Obtain feedback
- Share lessons learned





### **Practice**

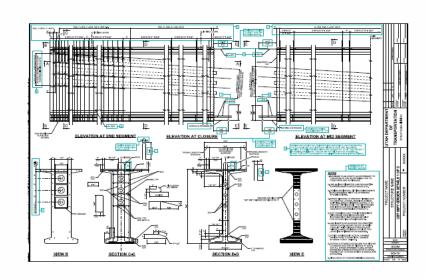
- Integrate innovation
- Perform projects



#### **Practice**

- Integrate innovation
  - Develop common details
  - Establish policies, procedures and specifications
  - Provide training and technical support

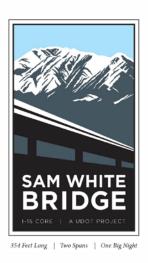






## **Public Outreach**

- Continue industry communication
- Implement marketing and messaging plan
- Prepare visual animations









## **Public Outreach**



Evaluation

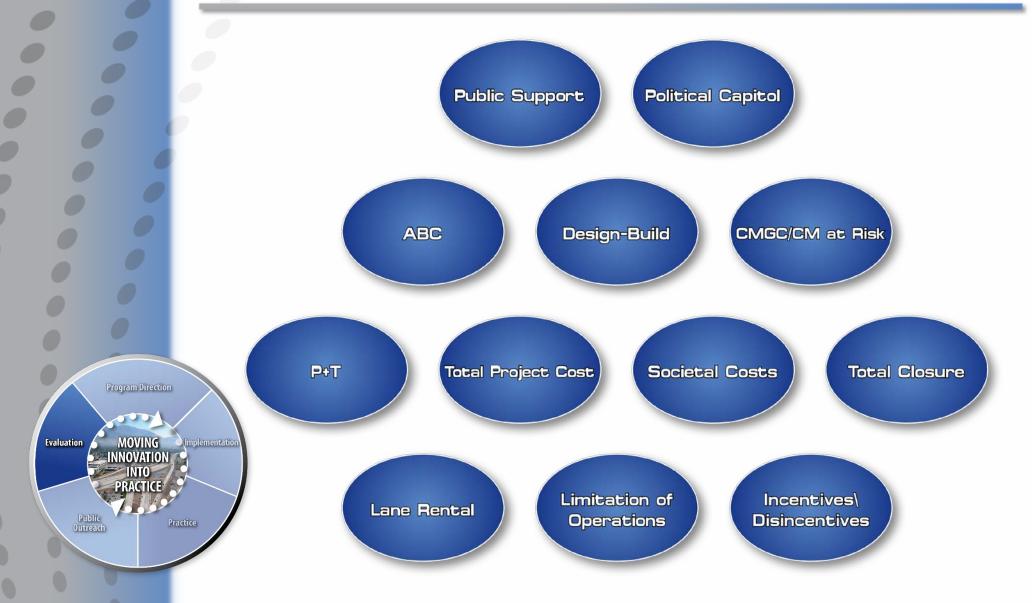
Public Outreach



- Lessons learned
  - Perform program review
  - Find program deficiencies
  - Repair deficiencies
  - Review design decisions
  - Measure design assumptions vs. reality







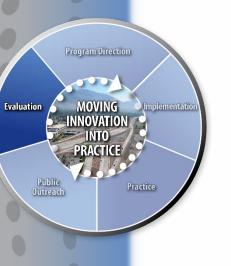


## Public support

- Value added to the public
- Societal costs minimized
- Public support for

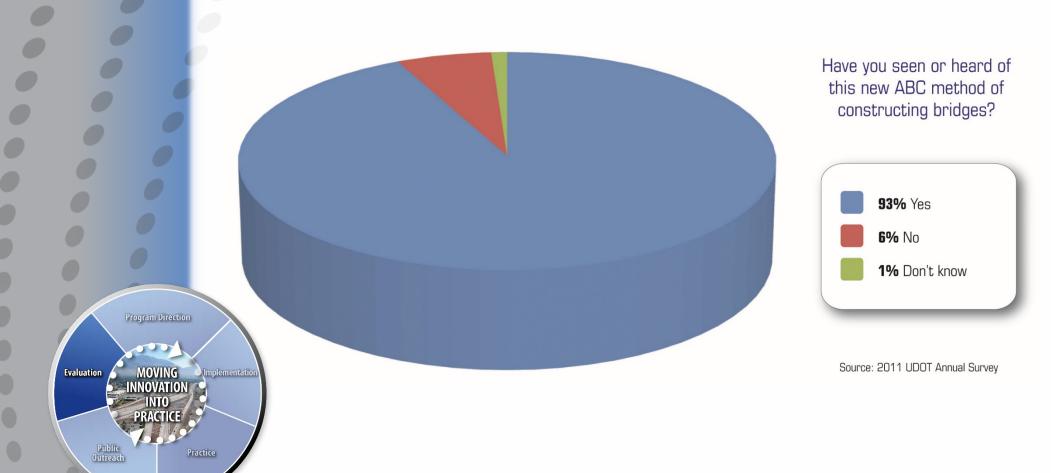
innovation

Political capital

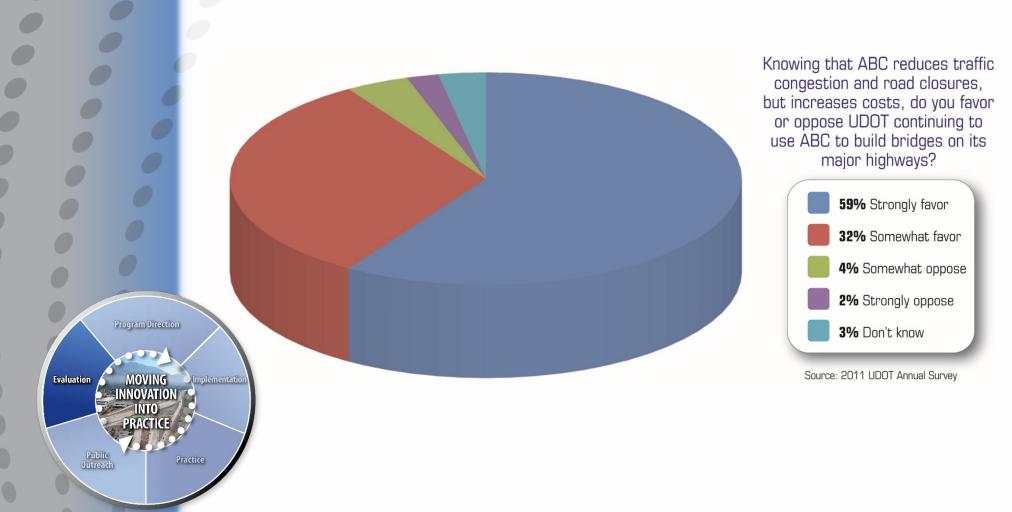














# Thank You!

### **Moving Innovation Into Practice**

Carmen Swanwick, S.E UDOT Chief Structural Engineer cswanwick@utah.gov

