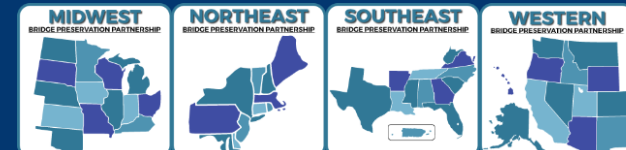


The Future of Bridges Challenges and Opportunities for Preservation

Carmen Swanwick, S.E
Utah Department of Transportation
Project Development Director



Mission and Vision

Collectively leading and serving the bridge community to provide safe bridges and structures that are:

Resilient, Innovative,
Sustainable, and
Efficient
(RISE)



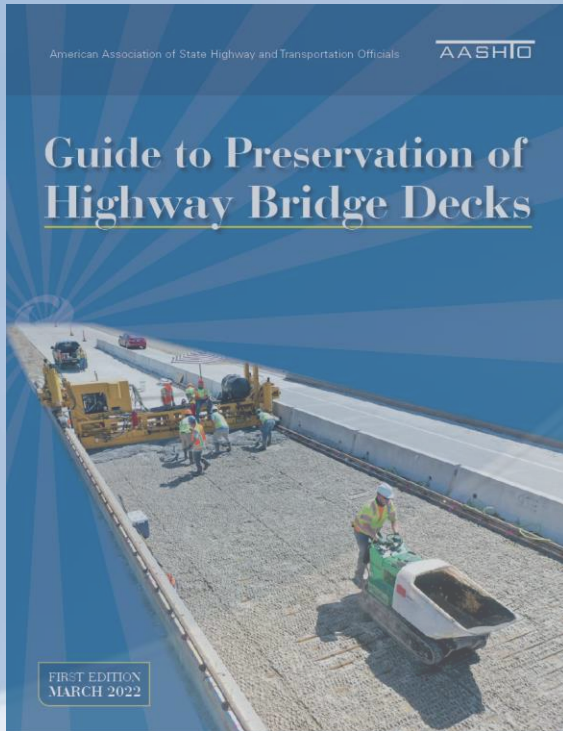
Development Committee

Technical Committee

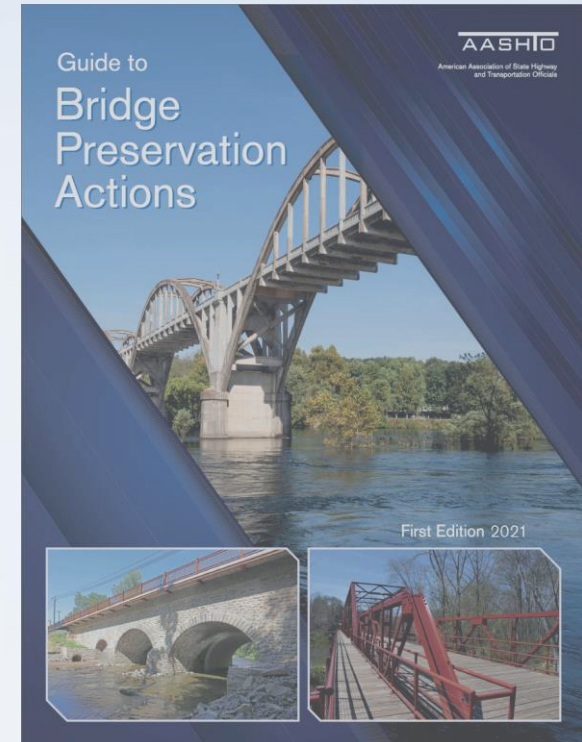
Strategic Plan Goals

- GOAL 1:** Maintain and enhance the AASHTO specifications
- GOAL 2:** Maintain, enhance and grow the workforce
- GOAL 3:** Assess the condition of bridges and structures
- GOAL 4:** Manage the inventory of bridges and structures
- GOAL 5:** Advance methods for project delivery
- GOAL 6:** Strategically plan and promote research
- GOAL 7:** Contribute to national policy

Technical Committee on Bridge Preservation



- AASHTO Guide to Bridge Preservation Actions
- AASHTO Guide to Preservation of Highway Bridge Decks
- Guide Specifications for Service Life Design of Highway Bridges
- Historic Bridge Preservation Guide
- Guidelines for Historic Bridge Rehabilitation and Replacement



National Aging Infrastructure

Cracking
Spalling
Corrosion



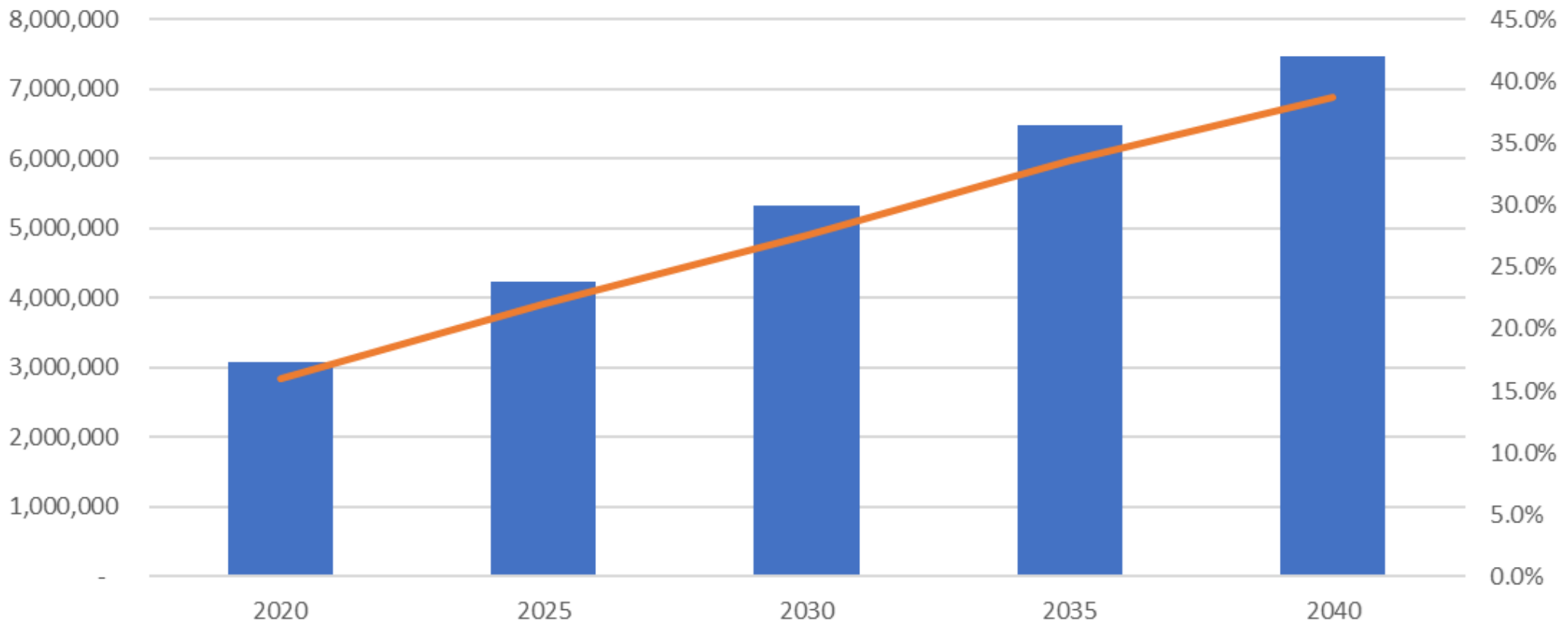
Age
Deicing chemicals
Vehicle overloading



Condition assessments
Better materials
Treatment options
Decision making tools

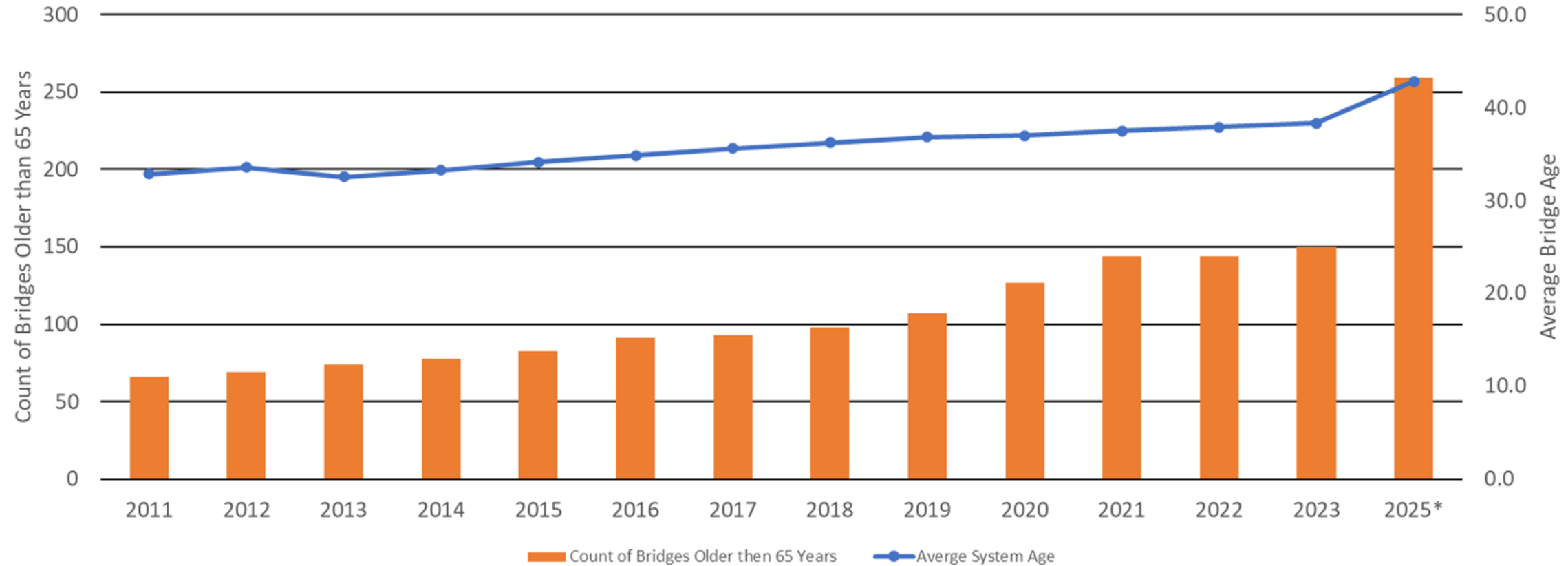
Utah Bridges

Surface Area of State Owned Bridges Beyond Service Life Projection with current Funding (50 Year Design Life)



Utah Bridges

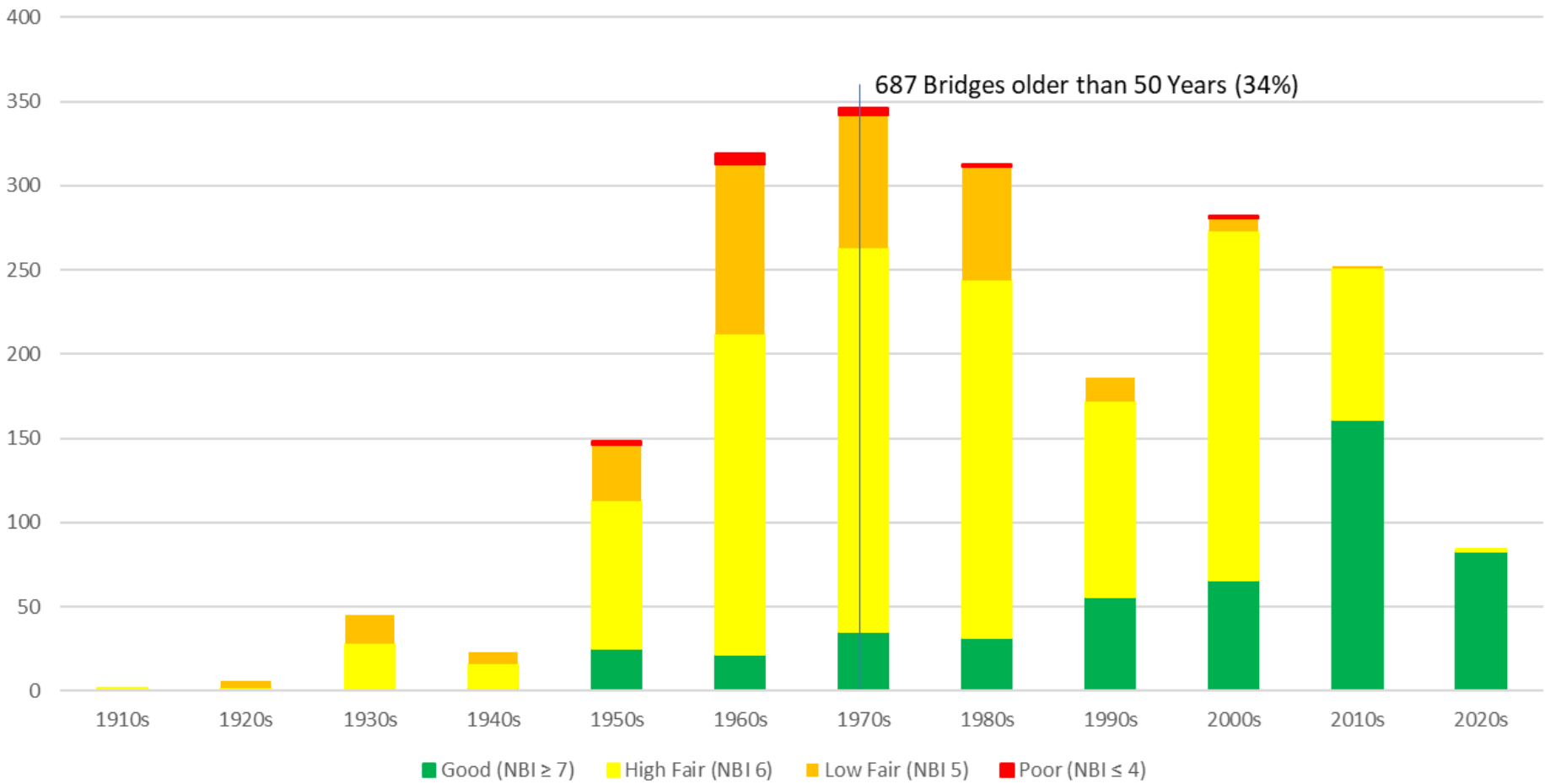
Age of State Owned Bridges



*2025 Values assume no replacements between now and 2025

Utah Bridges

State Owned Bridge Component Condition By Decade Built (By Bridge Count)



Challenges



Next Steps

- Develop cyclical preservation plans
- Create a national database of material products and performance
- Perform more research to validate improvements
- Develop better decision making tools for preservation treatments
- Continue to message the needs and benefits of preservation

Workforce Development



Thank You