



ARTBA OVERVIEW AND BRIDGE PRESERVATION ACTION TEAM

ARTBA – A *Federation*

- 5,000+ member federation based in Washington, DC
- Represents transportation construction industry before Congress & agencies
- Members include contractors, design firms, materials suppliers, safety industry, public-private ventures, transportation officials, educators and companies that provide a variety of services to the industry.
- Network of State Chapter Affiliates
- Has many committees and councils focused on industry issues and specific modal issues.

Bridge Policy and Promotion Council (BPPC)

- Formed at the end of 2008, ARTBA's Bridge Policy and Promotion Council (known as "BPPC") provides a collective voice and forum for all who are interested in growing and improving the U.S. Bridge Market.

Bridge Policy and Promotion Council (BPPC)

- The BPPC's Action Agenda is led and supported by seven, member-driven "Action Teams" of industry leaders focused on specific missions designed to meet the business needs of the bridge design and construction industry . The Action Teams are:
 - ▣ Bridge Policy & Regulations
 - ▣ Bridge Market Promotion
 - ▣ Bridge Financing Issues
 - ▣ Bridge Inspection Issues
 - ▣ Bridge Project Delivery Methods
 - ▣ New Bridge Technologies
 - ▣ Bridge Preservation Action Team (BPAT)

Bridge Preservation Action Team

- **BPAT Genesis: “Bridge Preservation Association” Concept—St. Louis (April, 2007)**
- **Roundtable: TRB 2008**
 - **FHWA, NCPP, FP², Agencies (Caltrans, VDOT, NCDOT, LA DOTD, NYSDOT)**
- **AASHTO Monterey – “BPA” Rollout (July 2008)**
- **Supported TSP2 Development (2009-2010)**
- **NHI Webinar w/ FHWA, AASHTO, & BPA (2010)**
- **BPA Founding Members are organizing the ARTBA Bridge Policy & Promotion Council’s Bridge Preservation Action Team (BPAT)**
 - **Facility, organizational and professional staff support from ARTBA.**

Bridge Preservation Action Team: Program of Work

1. Formation of Subcommittees in these areas:

- ▣ Foundations
- ▣ Super Structures
- ▣ Bearings
- ▣ Joints
- ▣ Drainage
- ▣ Steel Coatings
- ▣ Concrete Coatings
- ▣ Corrosion Protection
- ▣ Deck Wear & Waterproofing
- ▣ Deck Repair
- ▣ Seismic

2. Subcommittee Development of “Best Practice” White Papers

3. Subcommittee Development of “Best Practice” Webinars

4. Continued Interaction with FHWA & AASHTO task forces

Bridge Preservation Action Team: Program of Work (cont.)

5. **Development of BPAT and Bridge Preservation Internet Presence**
6. **Development of ARTBA national policy on bridge preservation**
7. **Participation in & Support of “TransOvation 2011” innovation in transportation design and construction workshop (Lansdowne Conference Center, Leesburg, Va., Sept. 7-9)**
8. **Development of bridge preservation promotion article for “Transportation Builder” magazine.**

What is Preservation?

- **All activities that help to realize or exceed design life**
- **Question: what is the difference between maintenance and preservation?**
- **Maintenance: proactive & reactive; Preservation: proactive, both are necessary**
- **Patching – reactive / Washing – proactive**

What is Preservation?

- **Preservation is not...**
 - **Reactive (emergency repair)**
 - **Structural (structural improvement)**
 - **Operational (widening)**
- **Philosophical shift**
- **From “reactive putting out fires” to “proactive planning for tomorrow’s problems”**

What are the Problems?

- **Early Replacements**
 - **Decks replaced in 25 to 35 years**
 - **Substructures replaced in 40 to 50 years**
- **Design Lives – 75 to 100 years**

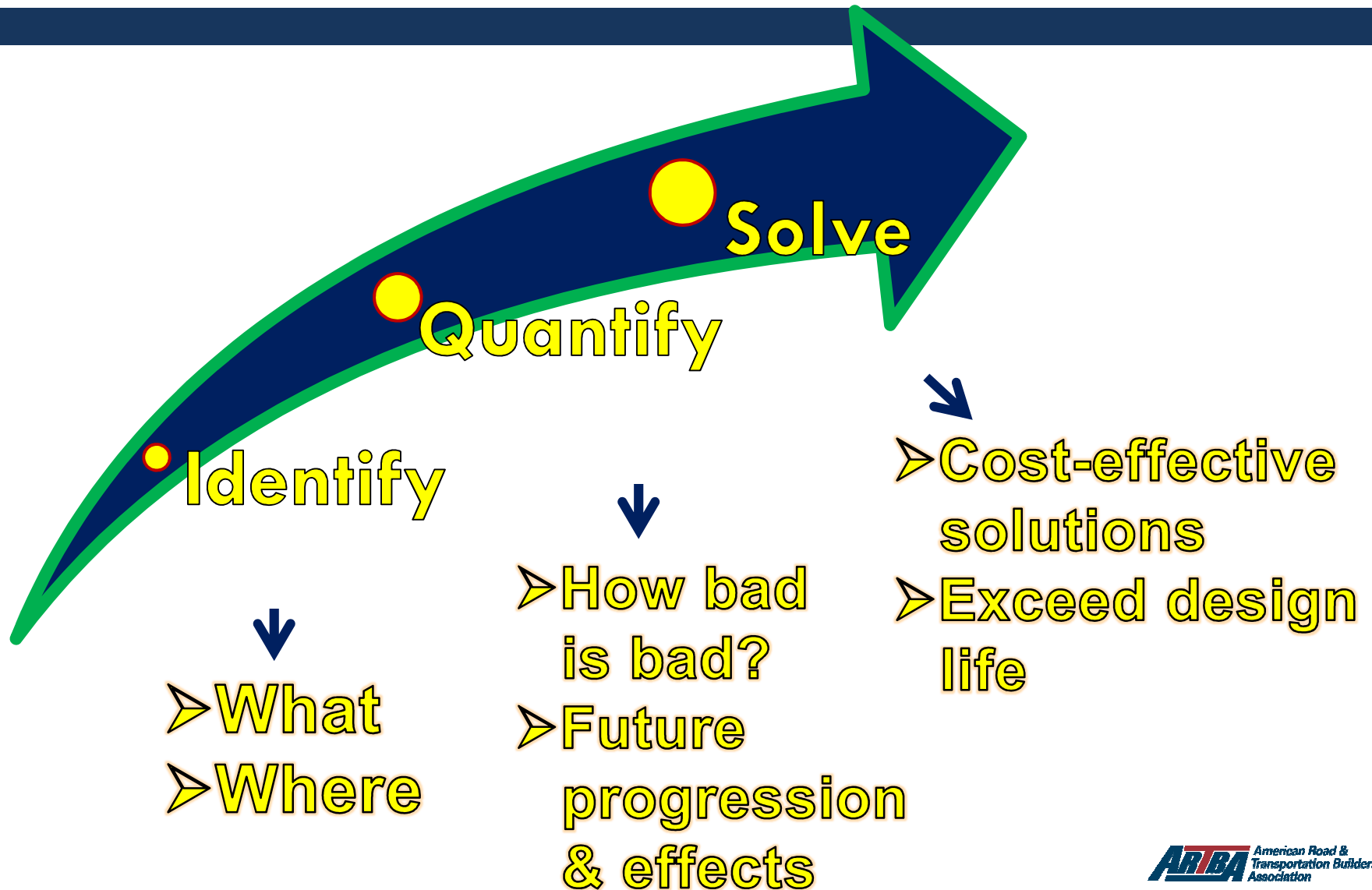
What are the Problems?

- **Structures built in 1950's and 1960's will need increasing attention**
- **We have to learn to do more with less**

Future Problems: What will we face?

- **Bridges are very expensive to replace**
- **Currently they are achieving only 50% of design life, thus doubling the life cycle cost**
- **Structure conditions going from bad to worse**
- **Increasing future DOT Budget burden due to the increasing number of assets requiring repairs**

Preservation



What are the Solutions?

Bridge Preservation Action Team (BPAT)

Providing a “base of operations” for private sector firms to work together and also partner with government agencies to promote and advance bridge preservation activities in the public interest.

Objectives: What Do We Promote?

- **Exceeding design life (increased service life)**
- **Tools necessary to quantify and solve given problems**
- **Documented evidence to promote best practices**
- **Life Cycle cost savings outweigh initial investments =
Preservation**

Objectives: What Do We Promote?

- **Utilize Industry Experts to Develop Component Specific Preservation Procedures**
- **Work with DOT and Engineers to Identify Preservation Needs**
- **Promote Interaction and Education with Stakeholders**

Objectives: What Do We Promote?

- **Provide a knowledge bank and forum for best practices, materials, and tools**
- **Seek active members to contribute and learn**
- **Develop best practices – what has worked, where, when, and how**

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Questions ?

