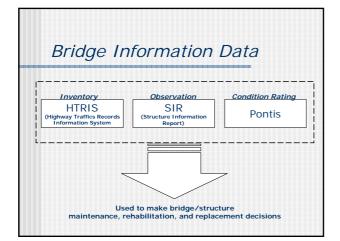
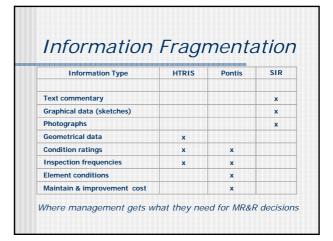
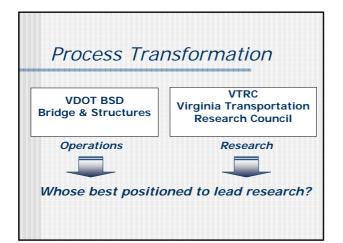
OWNER INITIATED MODERNIZATION OF BRIDGE SAFETY INSPECTIONS Thomas Mills, Ron Wakefield, Virginia Tech University William Bushman Virginia Transportation Research Council

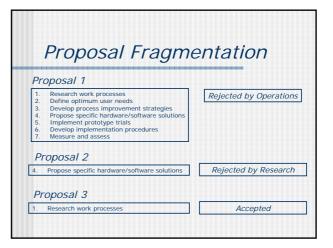
■ Owner Initiated Goal • Transform from a paper-based inspection process to a mobile computer assisted process. ■ What's at stake

- Internationally annual bridge management costs are estimated in the billions.
- 1 hr/bridge time savings could annually yield:
 - 5 additional inspectors, or
 - 1000 additional inspections, or
 - \$300,000 savings









Who's on First?

- Recommendations
- Inspection procedural adjustments,
- Standardize upstream/downstream information flows,
- Facilitator led transformation workshops,
- Investigate three proposed strategies, Create pilot program, Present pilot results.

- **Actions**
- Operations ignored the research,
- Proceeded with hardware first solution,
- Quick and fast,
- Wrong hardware solution,
- Problems,
- 6. Failure

Predictable Outcome...

- Hardware changes do not fundamentally alter operational procedures.
- Organizational structures can hinder process changes.

Leadership roles...

- End users (operations) should drive the research agenda
- Research should drive the investigation
- Each should "buy-in."

