

TPF-5(372) BIM for Bridges and Structures

Project Introduction



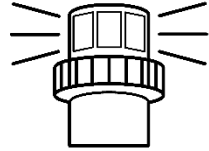
BIM FOR
BRIDGES
AND STRUCTURES
TPF-5(372)

Introductions

Connor Christian

- Transportation BIM Program Manager
- Internationally recognized BIM Thought Leader
- Project Technical Lead
- Connor.Christian@hdrinc.com

CONSULTANT TEAM



FAIR CAPE
CONSULTING

UF | UNIVERSITY of
FLORIDA

PROJECT MANAGEMENT

Connor Christian
Will Sharp, PE, PTOE
Julie Rivera, PE, SE

INVESTIGATION & EXPLORATION

Aaron Costin, PhD

IFC DEVELOPMENT

Thomas Liebich, PhD

ROI

Stéphane Gros, PhD

COLLABORATION & IMPLEMENTATION

Francesca Maier, PE
Katie Hatfield Edstrom, PhD

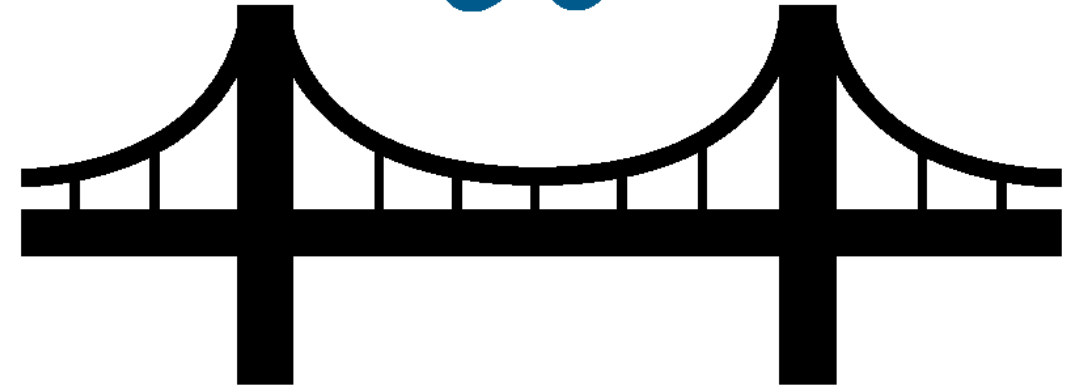
INDUSTRY INVOLVEMENT



NEMETSCHEK
GROUP

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BIM



AGENDA

1. General overview
2. Key project activities

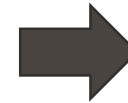
VISION



Develop a National Standard for open exchange of modeled bridge and structure data to be used for design to construction and fabrication

Transportation Pooled Fund - TPF-5(372)

ACHIEVING THE VISION



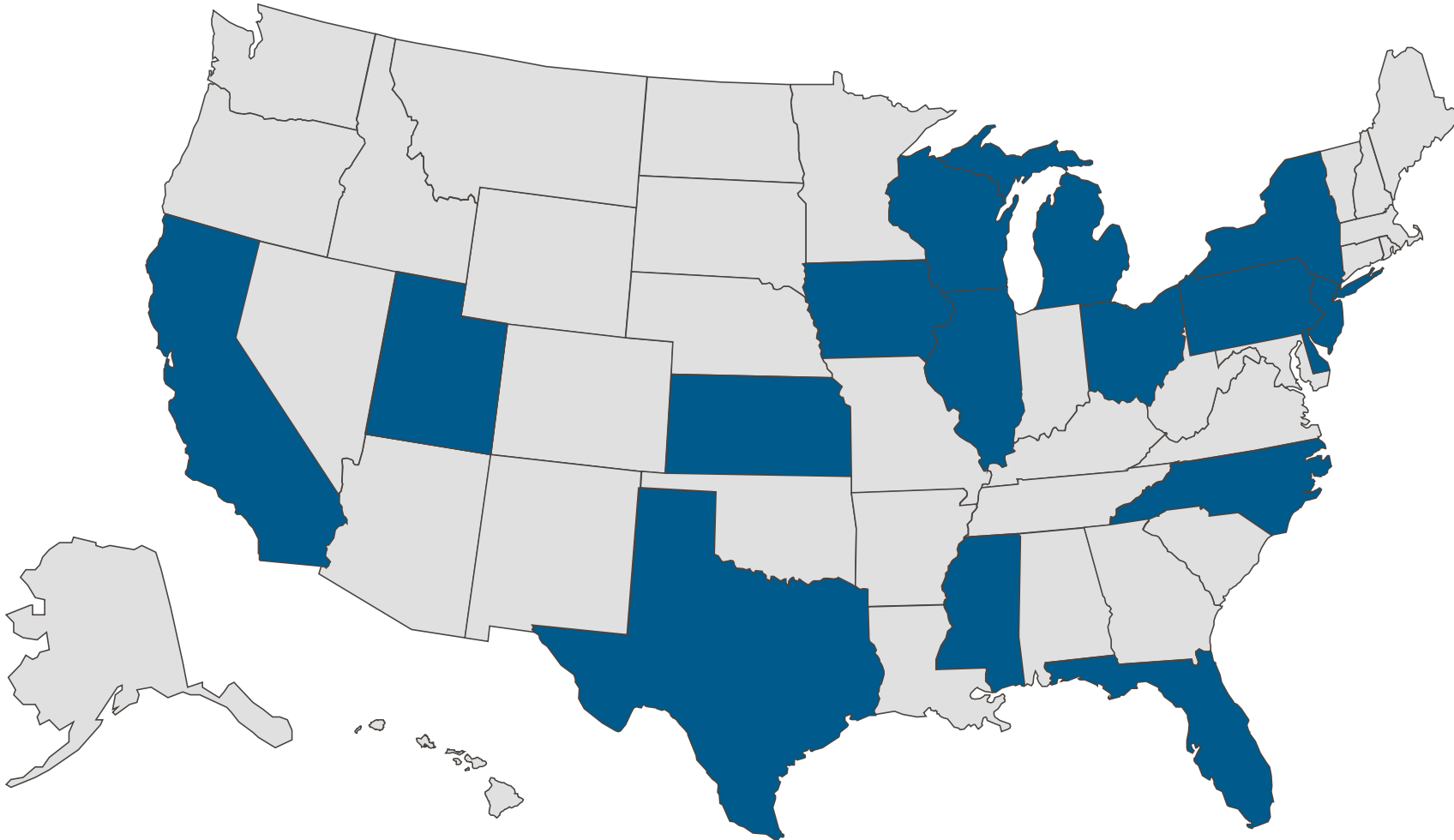
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TRANSPORTATION POOLED FUND – TPF-5(372)

16 STATES PARTICIPATING

- 01** California DOT
- 02** Delaware DOT
- 03** Illinois DOT
- 04** Iowa DOT
- 05** Kansas DOT
- 06** Michigan DOT
- 07** Mississippi DOT
- 08** North Carolina DOT
- 09** New Jersey
- 10** New York State DOT
- 11** Ohio DOT
- 12** Pennsylvania DOT
- 13** Texas DOT
- 14** Utah DOT
- 15** Wisconsin DOT
- 16** Florida DOT
- +** FHWA
- +** Roger Grant (NIBS)



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KEY PROJECT ACTIVITIES

INVESTIGATION & EXPLORATION



INVESTIGATION & EXPLORATION

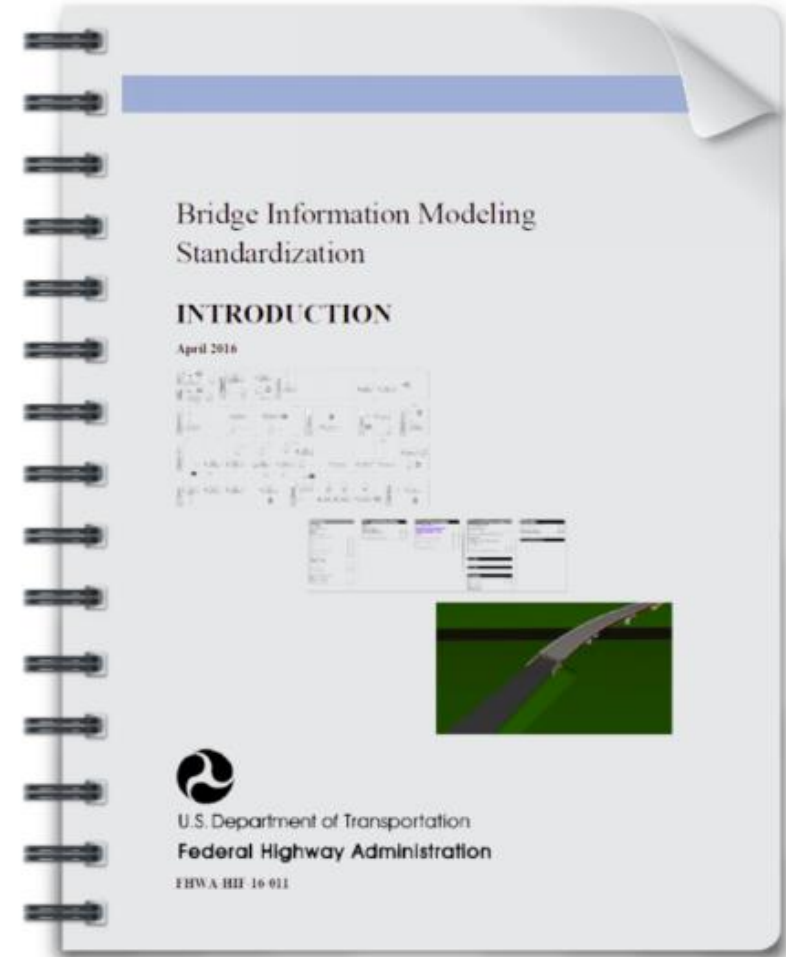
Build On Previous Efforts



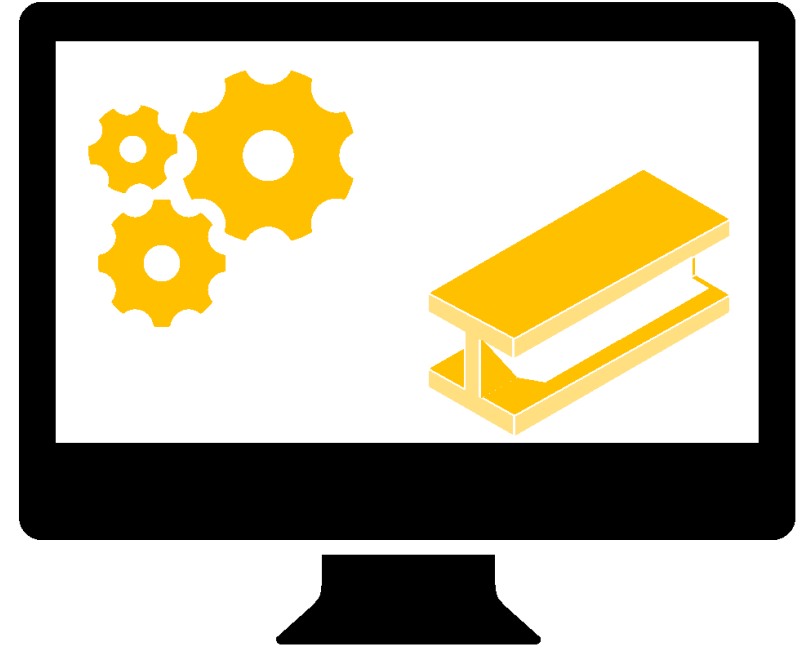
American Concrete Institute
Always advancing



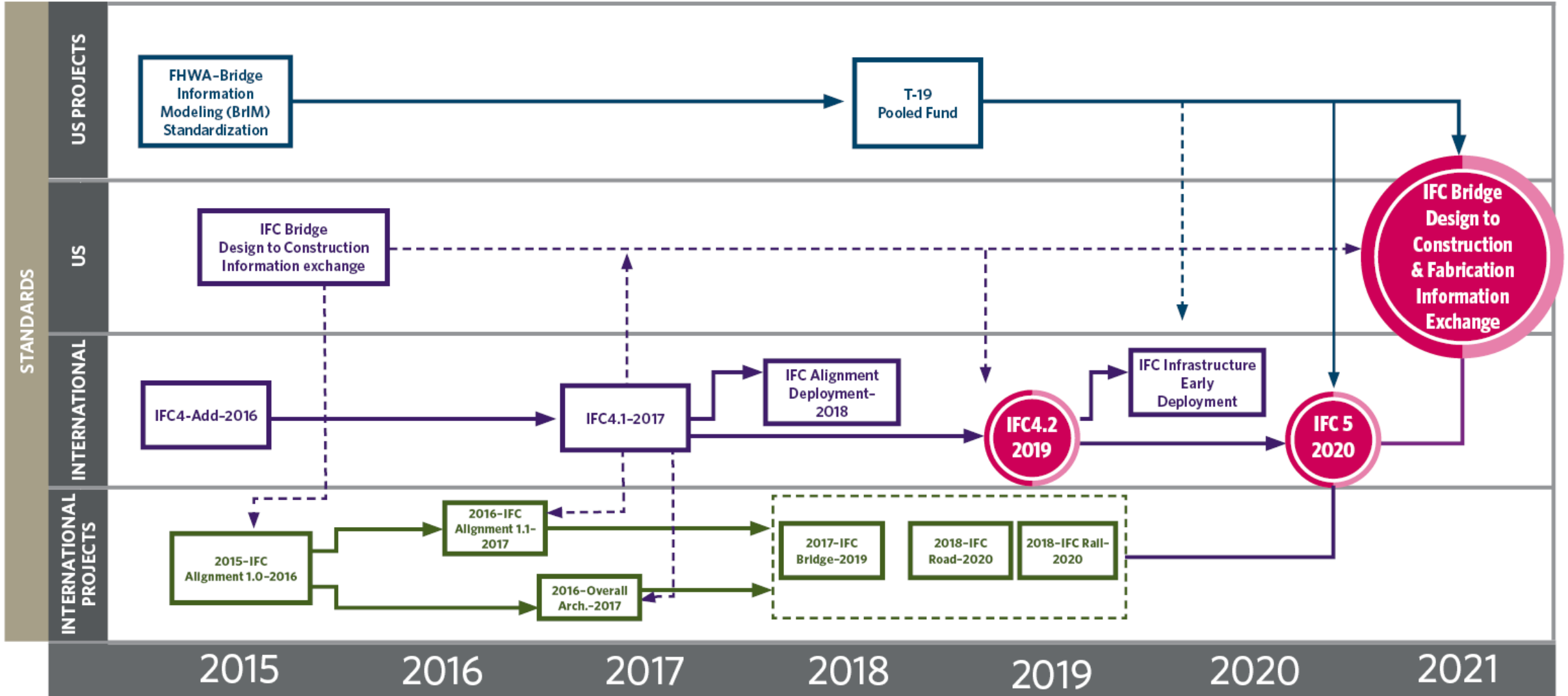
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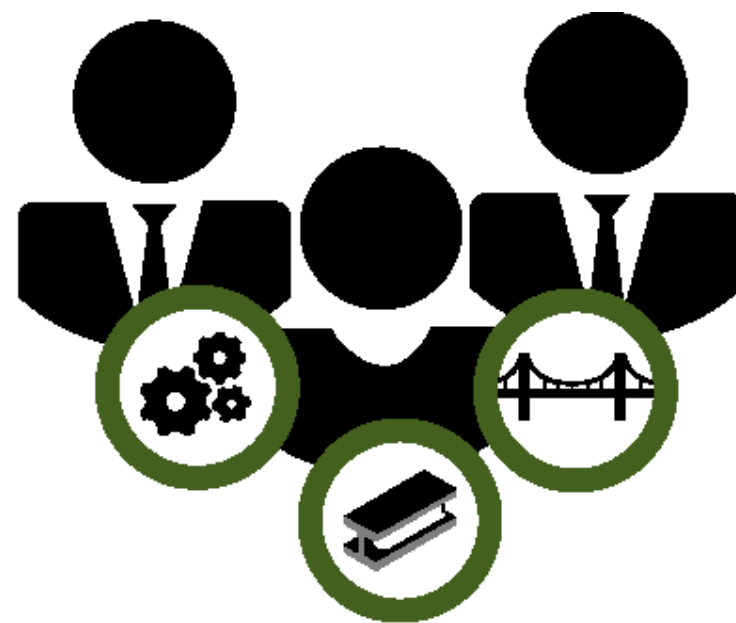


IFC DEVELOPMENT



IFC DEPLOYMENT



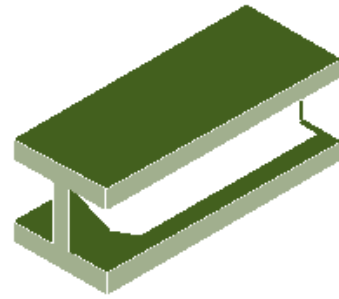


Industry Outreach

INDUSTRY INVOLVEMENT



Bridge Engineers



Fabricators



Consultants



Contractors



Developers



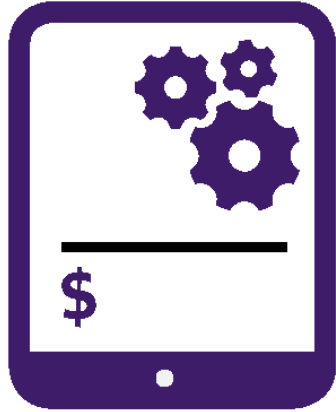
Software Vendors



Communicators

SOFTWARE VENDOR COLLABORATION

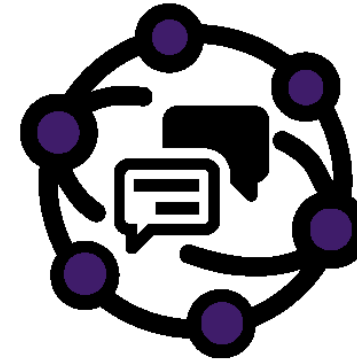
OBJECTIVE: Incorporation of MVDs into software = Implementation



**Software vendor
inclusion is paramount**



**Certification
process through BSI**



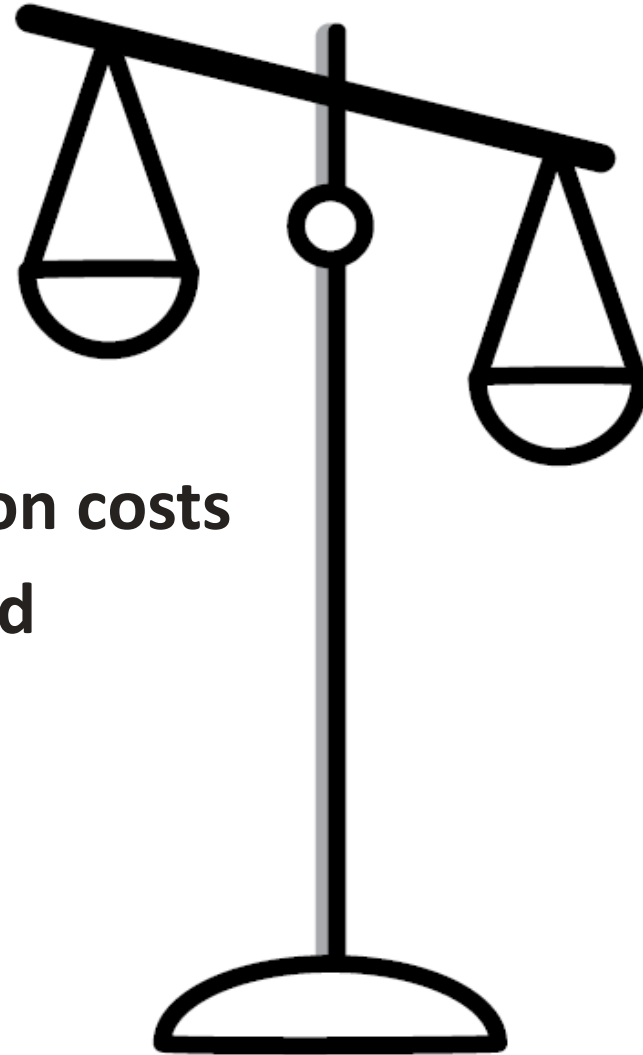
**Training & effective
communication**

ECONOMIC ANALYSIS



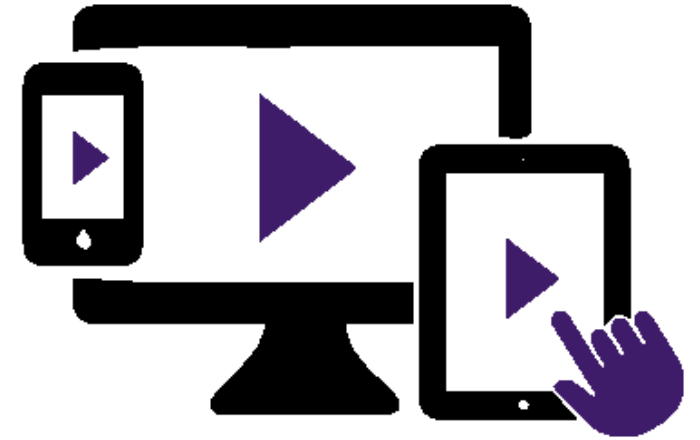
ECONOMIC ANALYSIS

- Training
- Implementation costs
- Operations and maintenance



- ✚ Improved productivity
- ✚ Faster project delivery
- ✚ Reduced asset management costs
- ✚ Reduced safety risks
- ✚ Lower construction costs

EDUCATION AND COMMUNICATION



Education and Communication

Stakeholder Collaboration Forum



- Discussion threads
- Educational tools
- Videos
- Case studies
- Quick polling
- Stakeholder input

For more information contact:

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- Connor.Christian@hdrinc.com
- John.Reese@hdrinc.com



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