

# **Voluntary Information-Sharing System Federal Advisory Committee**

**Subcommittee – Technology and R&D  
Bryce Brown - Chairman**

**Report Out Presentation**

**February 28, 2018**

# Subcommittee Technology and R&D Members

- Alternate Designated Federal Official: **Chris McLaren**
- Subcommittee Chair: **Bryce Brown**
- Subcommittee Members:
  - Eric Amundsen
  - Michael Bellamy
  - Bob Buchanan
  - Jason Cradit
  - Yiming Deng
  - Alicia Farag
  - Michael Keller
  - Holly Pearen
  - Chris Warner
  - Mark Zuniga

## **Subcommittee Technology and R&D Recent Activities/Actions**

- Today's Activities:
  1. Review Mission Statement
  2. Subcommittee Operations Overview
  3. Working Groups' and Subcommittee Meeting Frequency
  4. Review Overall Timeline for Recommendation
  5. Task Statement Development and Approval
  6. Review and Establish Work Groups
  7. Identified Subcommittee External Needs (SME's)
  8. Prepared this Committee Report Out Presentation

# Subcommittee Technology and R&D

## Task Statement

- **Task Statement Number: 18-4**
- **Task Statement Title:** Support Committee by Recommending Secure System(s) Architecture. Make Recommendations required for Continuous Improvement and/or needed Development of Technologies and Methodologies
- **Task Statement Description(s):**
  1. Identify Assumptions from other Subcommittees for our inputs and outputs (Process Sharing & Best Practices) and define Taxonomy.
  2. Determine/Define and standardize the applicable pipeline inspection information (quantitative) and its native data format (tabular, geospatial, etc.)
  3. Conduct historical studies that help in the understanding of current best practices for; managing and sharing pipeline inspection information and the associated areas for continuous improvement.
  4. Analyze/define data security and protection to safeguard the proprietary nature of the pipeline inspection information shared (quantitative).
  5. Determine the Quality Control Procedures required to facilitate the accurate exchange of the pipeline inspection information.
  6. Determine the feasibility of integrating the pipeline inspection information with other relevant pipeline safety data that is already available or envisioned to be developed. Are there data format, completeness, and/or platform issues that need to be addressed?
  7. Determine the needed interpretation of the pipeline inspection information shared and the areas that could be addressed;
    1. understanding the capabilities/limitations, and best practices,
    2. data maintenance, continuous improvement, and/or further research and development, and
    3. perspective predictive analysis capabilities for threat and risk analysis purposes.

# Subcommittee Technology and R&D

## Task Statement

### • Refer to/establish following the working group(s):

1. Assumptions (sit in on Process Sharing and Best Practices Subcommittee meetings to document the assumptions for our “Functional Specification(s)” and define Taxonomy)
2. Architecture/IT (IT, user authorization, accessibility, database/software, etc.)
3. Continuous Improvement/R&D (considerations for improvements and/or developments)

### • Deliverable(s):

1. Summary Recommendation Report to parent committee for approval
  - a) Appendix A: Deliverables Table (from December, 2017 “Timeline” document)
  - b) Executive level roadmap document with a collection of high level models and artifacts as described in Appendix A: Deliverables Table
  - c) List of acronyms and common terminology and definitions
2. Subcommittee Recommendation Report and Presentation(s) to the parent committee

### • Target Milestones and Dates:

1. Submit initial Recommendations to the parent committee (July 2018)
2. Initial Recommendation Report Drafted (Aug/Sept 2018)
3. Final Recommendation Report Approved (Dec 2018)
4. Establish contact and line of communication with the VIS Sub-committees on Best Practices and Process Sharing for collaboration purposes.

# Recommendations for the VIS WG Committee

- Establish 3 Working Groups within the Subcommittee – Technology and R&D – work independently
- Subcommittee Teleconference Friday, March 23<sup>rd</sup> at 10AM EST
- Approve Task Statement 18-4 (with edits)
- External Resources Requested to Support Subcommittee:
  1. Cliff Johnson (PRCI)
  2. Drew Hevle (KM)
  3. Sean Keane (Enbridge)
  4. Jason Skow (CFER)
  5. Peter Veenstra (TRC)
  6. Bill Byrd (RCP)
- Consider moving to a Day 1 AM Combined “Joint” session in April meeting for 3 Subcommittees that may last 1-2 hours and then break out in individual sessions and have option for Day 1 PM subcommittee meetings, as needed:
  - Technology/R&D
  - Process Sharing
  - Best Practices

# Questions/Comments