

**Voluntary Information-sharing System  
Federal Advisory Committee  
Process Sharing Subcommittee**

Report Out Presentation

**April 5, 2018**

# Process Sharing Subcommittee Members

- Alternate Designated Federal Official: [Sherry Borener](#)
- Subcommittee Chair: [Mark Hereth](#)
- Subcommittee Members :
  - Eric Amundsen
  - Kate Blystone
  - Bryce Brown
  - Dan Cote
  - Alicia Farag
  - Leif Jensen
  - Walter Jones
  - Mike LaMont
  - Randy Parker
  - Joe Subsits
  - Michelle Thebert
  - Chris Warner
  - Mark Zuniga

# **Subcommittee Process Sharing Recent Activities/Actions**

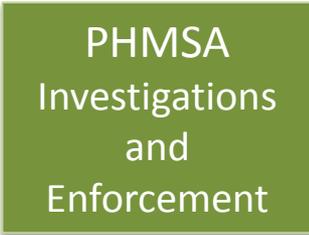
- **Representative of the The MITRE Corporation made a presentation. MITRE is the third party that administers and manages data under ASIAs. They provided key perspectives on security, de-identification, analysis and evaluation of data and information as well as process sharing. They also discussed the diversity of data that is managed.**
- **Held a discussion on a possible gap, governance, identified in previous discussions. Subcommittee members were supportive of the Mission and Objectives Subcommittee proposing to the full Committee to add governance to their task statement.**
- **Process Sharing Subcommittee members met with Technology Subcommittee members to discuss overlap of scope. The discussion clarified that architecture will be addressed by the Technology Subcommittee. The Technology Subcommittee requested that the Process Sharing Subcommittee develop a listing of data and information to be shared for use in specifying architecture. Process Sharing will initially develop an set of categories of data to be shared to enable the Technology Subcommittee to proceed with its work. The categories will be refined and built out in greater detail and shared.**
- **A review of final product concepts was planned but will be deferred to a later web meeting; recognizing the importance of envisioning the end product and thinking about possible recommendations.**
- **Additional membership status was discussed – Approved additions, Warren Randolph, FAA and Drew Hevle, Kinder Morgan; 3 other applicants submitted.**

# Future Subcommittee Business

- **Presentation on API 1163 ( Drew Hevle, Kinder Morgan)**
- **Members on our committee who use the process so we will have a robust discussion within the meeting; in-between meeting set up WEBEX, allot an hour**
- **End product expectations will be discussed in a Web meeting – to provide guidance on outputs and a view of the content.**
- **Direct Assessment – Service provider Chris Warner, what are the topics that should be addressed**
- **Presentation on API RP 1163 – In Line Inspection System Qualification - Drew Hevle**
- **Work with Committee Chair and DFO to develop presentation structure for presentations from API/ AOPL, INGAA/ INGAA Foundation, AGA, Labor**
- **Consider Data and information – structured and unstructured. Develop map of data, information and stakeholders**

# Conceptual View of VIS Future State

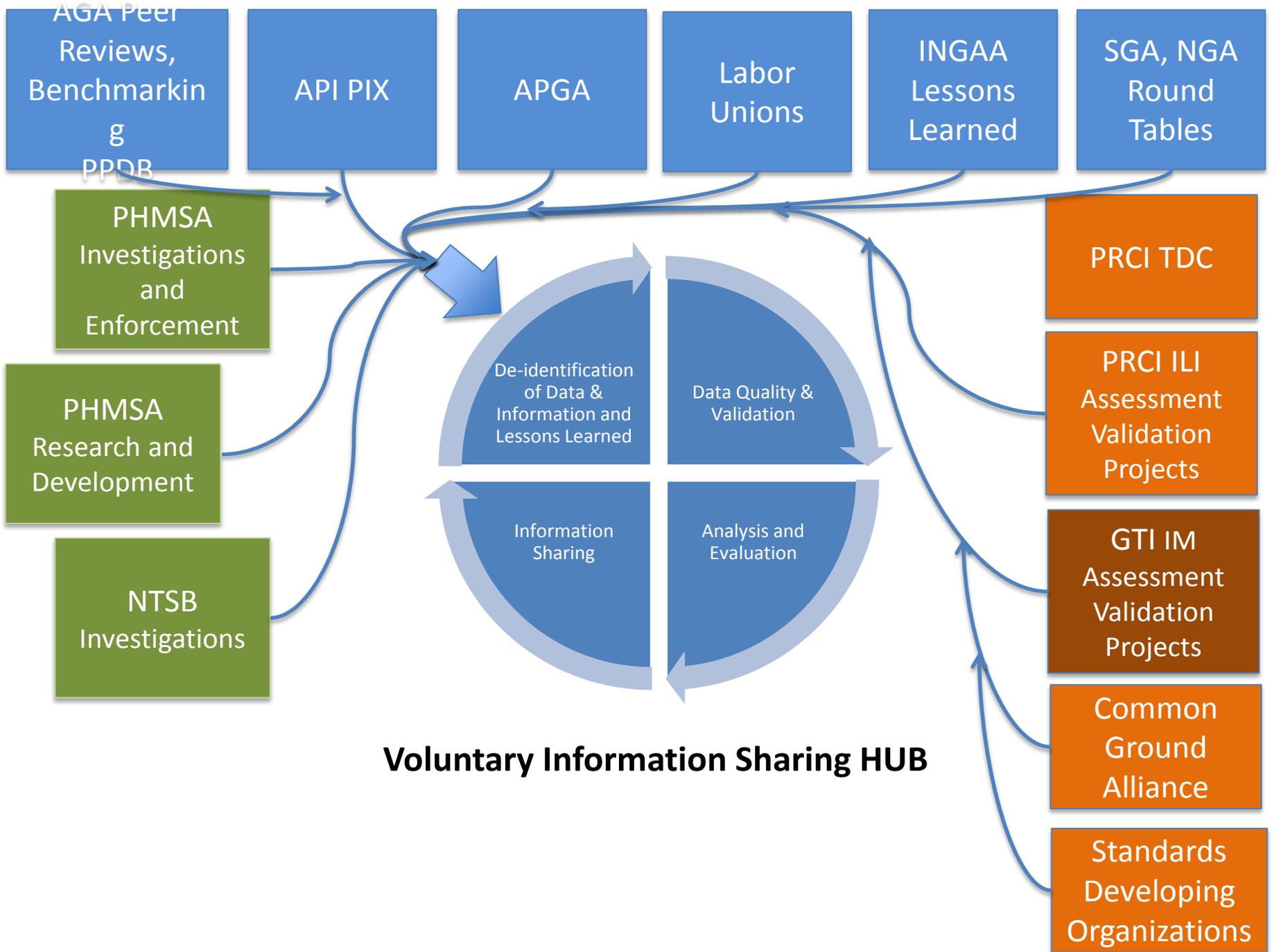
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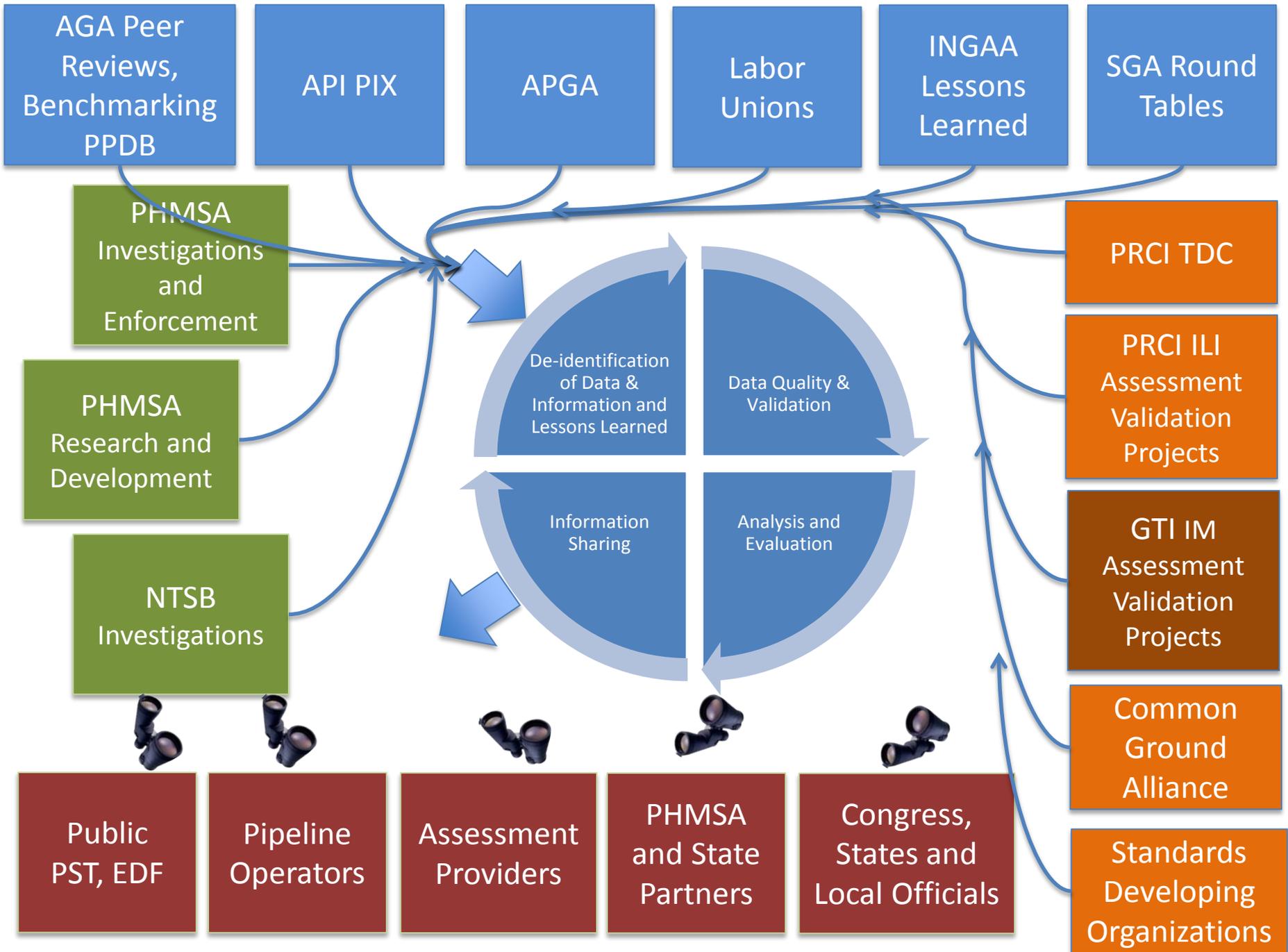


# Today



API RP 1163 Validation/ Sharing





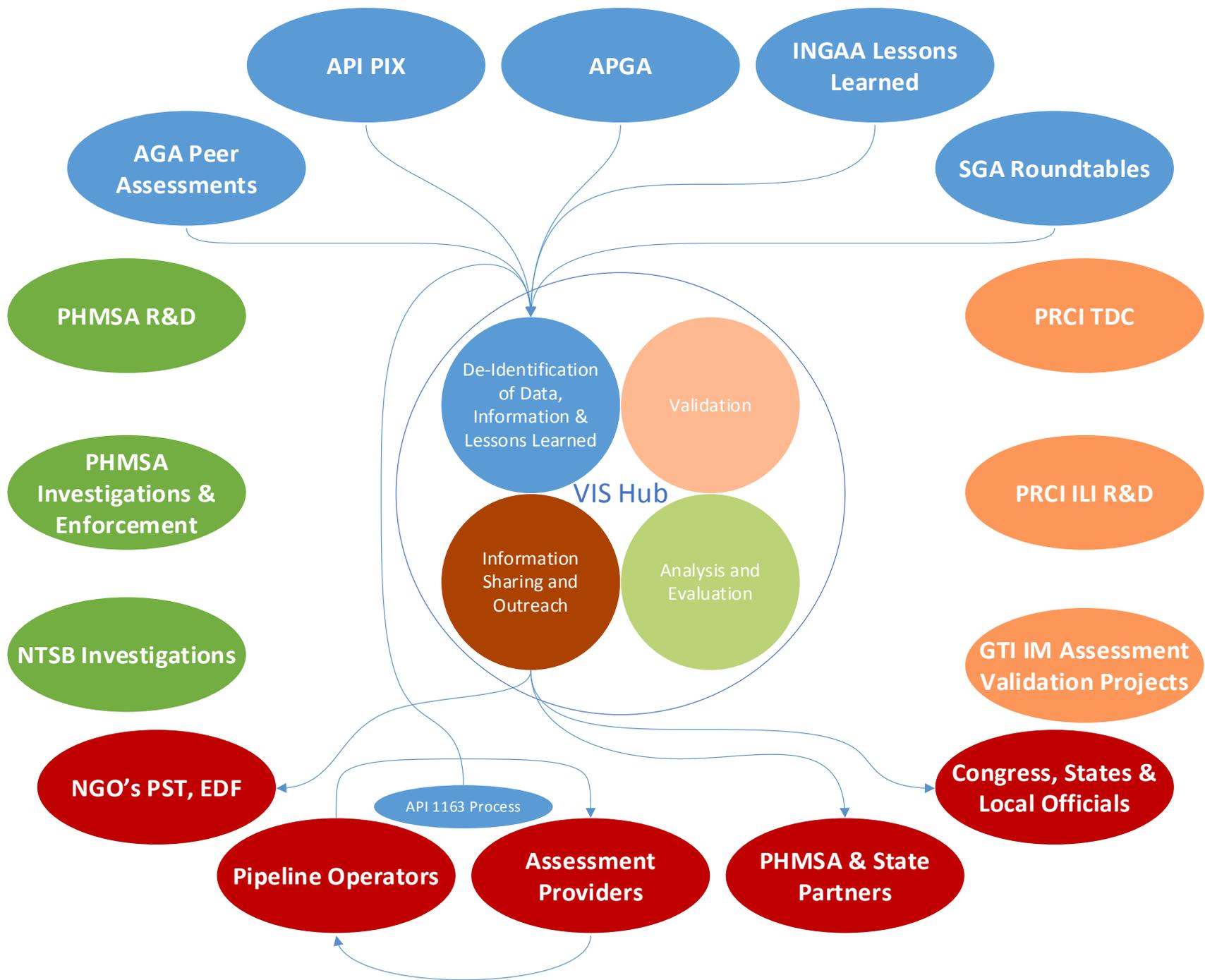
# Questions/Comments

# Process Sharing Subcommittee Task Statement

- Task Statement No.:
- Task Statement Description(s):
- **Task Description(s):** The Process Sharing sub-committee will
- In the spirit of improving pipeline safety and technology development, this subcommittee will produce a recommendation to the VIS working group for identification and improvement in the types of information and data shared among key stakeholders. Examples of stakeholders may include; congress, state and federal regulators, industry associations and service providers, hazardous liquids and gas transmission operators, gas distribution operators, public representatives and the general public. This will be accomplished through subcommittee deliberation, coordination with other subcommittees, consultations with outside experts, and synthesis of information collected during the subcommittee deliberation period. This includes (but is not limited to) Root Cause Analysis, “Good catches”, Close calls, safety management systems, mitigative measures and pipeline assessment data and processes.
- Deliverable(s):
- Target milestones & dates: Will be addressed at our next virtual meeting.

Governance Board





# Making VIS Compelling?

- *Build upon* current trade association initiatives *without disrupting or changing* their current approaches. *Enables them to share* their own lessons but *benefit from all lessons*
  - Lessons Learned from failures (including near misses)
  - Lessons Learned from routine assessments
- *Draw upon* operator/IM assessor/NDE process defined by *API RP 1163* and *integrate into a common validation process* to build database with great depth
  - Sharing of discrete data to enable assessment providers to accelerate learning and advancement
- Specify *formalization of “views”* for each stakeholder, with regular, scheduled sharing
- Include “Analysis and Evaluation” to *identify gaps which can drive research and development*

# Making VIS Compelling? (Cont'd)

- Create enhancement of PHMSA data used for analysis, evaluation, inspection prioritization and NPMS
- Center PHMSA in sharing of lessons learned of accident/incidents and operator responses; could also improve consistency in enforcement
- More broadly, create an opportunity for industry to increase cooperation and share engineering standards, specifications, procedures, including welding procedures, coating procedures, line pipe specifications, among others.

# Future VIS Hub Concept

**De-identification  
of data and  
lessons learned.**

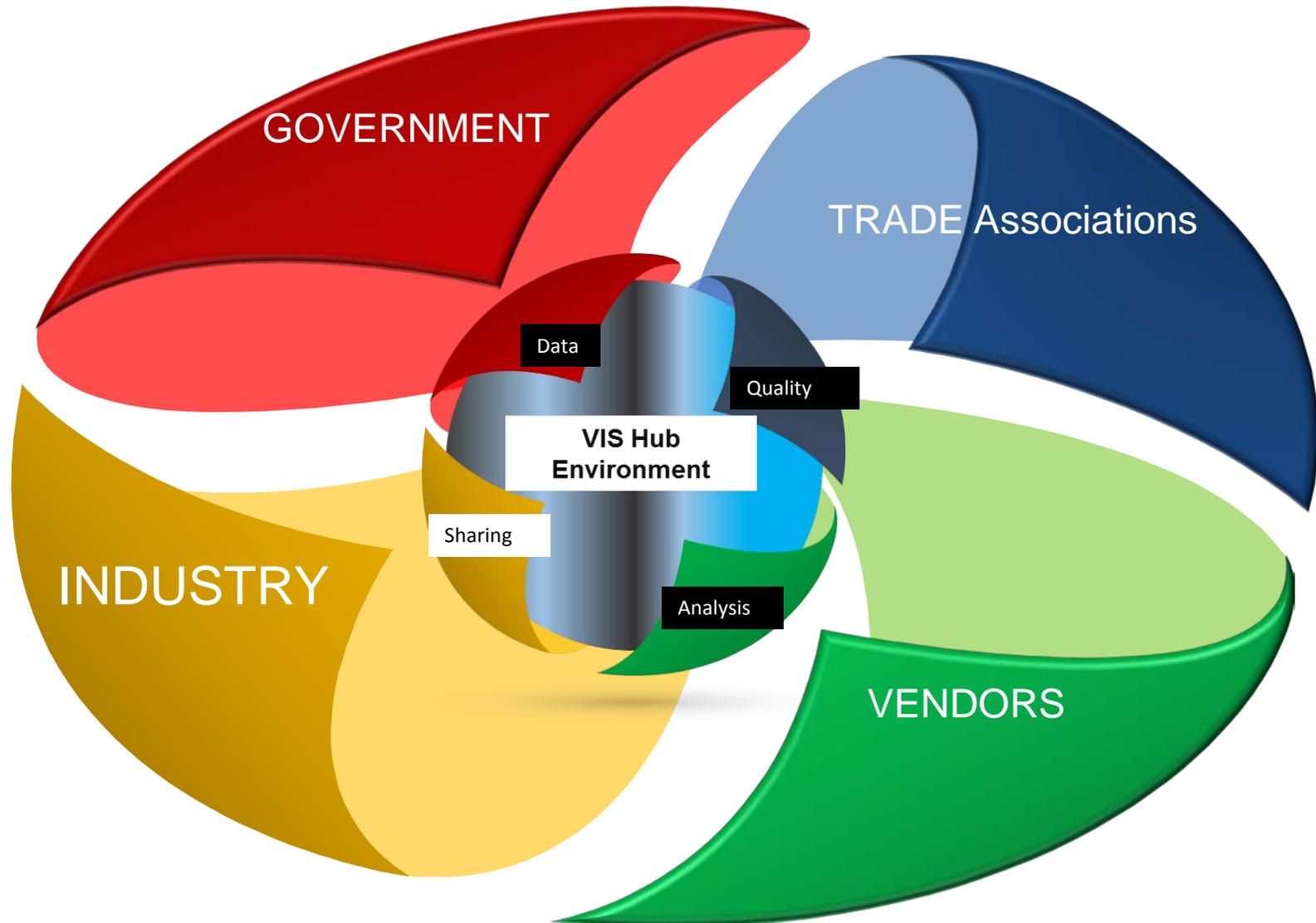


**Data Quality  
and  
Validation.**

**Information  
Sharing.**

**Analysis and  
Evaluation**

# VIS Stakeholder and Hub Interaction



# **Voluntary Information-sharing System Federal Advisory Committee Mission and Objectives**

Report Out Presentation

**April 5, 2018**

# Subcommittee Mission and Objectives Members

- Alternate Designated Federal Official: Nancy White
- Subcommittee Chair: Dan Cote
- Subcommittee Members:
  - Bob Buchanan
  - Walter Jones
  - Randy Parker

# Subcommittee Mission and Objectives

## Task Statement

- Task Statement Number: 18-01
- Task Statement Title: Mission and Objectives
- Task Statement Description(s):
  - Previous Task Statement complete on February 28
  - **NEW Charge: Assume the discussion of governance**
    - Develop recommendations related to the organizational structure and governance rules
    - Develop recommendations on data sharing amongst and between the organizational structure, members, participants and the public
- Deliverable(s):
  - Recommendations on how to develop organization structure (including roles and responsibilities) and governance rules (including types of supporting governance documents)
  - Recommendations on how to develop data sharing amongst and between the organizational structure, members, participants, and the public (including types of information sharing protocols and processes)
  - Recommendations on approach to fully vetting governance structure once developed
- Target Milestones and Dates:
  - Approval to assume the governance responsibilities from the Parent VIS WG Committee – April 5
  - Governance Rules and Organization Structure Recommendations – July 30
  - Data Sharing Recommendation – July 30
  - Governance Vetting Recommendation – July 30

## **Subcommittee Mission and Objectives**

### **Recent Activities/Actions**

**Complete:** Strategic Mission Statement and Objectives approved on February 28, 2018.

**Next Step:** Receive full VIS Committee approval for the Mission and Objectives Subcommittee assuming responsibility for providing recommendations on governance and organizational structure. Adjust the Task Statement as necessary based on the action of the full Committee.

The proposed timeline is based on VIS Committee approval occurring on April 5, 2018.

# Recommendations for the VIS WG Committee

If approved, next steps include:

- Meet with Federal Aviation Administration to continue discussions of their governance structure
- Meet with Bureau of Safety and Environmental Enforcement or Bureau of Transportation Statistics to discuss in-depth the elements of their governance structure
- Identify other information sharing systems, as needed
- Map the organizational structure(s) against our perceived future organizational needs as the basis for our recommendations

# Subcommittee Mission and Objectives

## New Committee Members

- VIS Committee Volunteers
  - Member of the public?
- Someone from FAA (or other information sharing system)
- Legal Counsel
- Representative from a State

# Questions/Comments

**Voluntary Information-sharing System  
Federal Advisory Committee  
Regulatory, Funding, and Legal**

Report Out Presentation

4/4/2018

# Subcommittee Regulatory, Funding, and Legal Members

- Alternate Designated Federal Official: Michelle Freeman
- Subcommittee Chair: Randy Parker
- Subcommittee Members:
  - Dan Cote
  - Leif Jensen
  - Holly Pearen
  - Eric Amundsen

## Subcommittee: Regulatory, Funding, and Legal Meeting Report Out – April 4, 2018

Speaker: Cindy Dominik, Deputy Assistant Chief Counsel for Enforcement, FAA

In the late 90s, the FAA concluded that it was necessary to create two key **incentives** that would encourage the airline industry to voluntarily share safety information with the FAA:

1. Protection from FAA Enforcement Action based on the shared information
2. Protection from FAA release of the shared information under FOIA

FAA has utilized **policy, regulatory** and **statutory** tools, as needed, to create incentives to industry participation in the voluntary information sharing programs.

### Enforcement Protection

- ASAP Program – Enforcement Protections were developed through FAA **policies**, issued in the form of Advisory Circulars (AC)
  - Advantage of the AC process – FAA can change the enforcement protection rules without a rulemaking or Congressional action

## Subcommittee Regulatory, Funding, and Legal Meeting Report Out – April 4, 2018

- FOQA Program – Enforcement Protections were embedded in **regulations** (14 CFR 13.401)

### FOIA Protection

- 1996 **statute** provides a specific FOIA exemption for voluntarily shared information, 49 U.S.C. 40123
  - followed by implementing **regulations** in 2000, 14 CFR 193
- 2012 **statute**, the Safety Information Protection Act provides a much broader FOIA exemption, applicable across all FAA voluntary information sharing programs; it is a self-executing statute, therefore no implementing regulations are necessary, 49 U.S.C. 44735

# Recommendations for the VIS WG Committee

- Cindy Dominik will be providing us additional information and is willing to have future meeting with the subcommittee as needed
- Recommend inviting Cindy Dominik to join the RFL Subcommittee as an external member
- Subcommittee also identified a desire to research and discuss additional potential barriers to information sharing:
  - Confidential/proprietary information related to voluntarily shared information
  - National security/critical infrastructure information related to voluntarily shared information
- Recommend having FAA funding experts present to the subcommittees in the joint session at the meeting on June 19

# Questions/Comments

**Voluntary Information-sharing System  
Federal Advisory Committee  
Subcommittee – Best Practice**

Report Out Presentation

April 5, 2018

# Subcommittee Members

- Alternate Designated Federal Official: Max Kiebia
- Subcommittee Chair: Eric Amundsen
- Subcommittee Members In Attendance:
  - Leif Jensen
  - Mark Hereth
  - Mike LaMont
  - Joe Subsits
  - John MacNeill
  - Kate Blystone
  - Bryce Brown
  - Walter Jones
  - Randy Parker
  - Cliff Johnson (Guest)

# Best Practices Subcommittee

## Task Statement – Reviewed and Confirmed

Evaluate existing processes (including other industry VIS models and practices) and make recommendations on best practices that will promote the sharing of data and information that accomplishes:

- Active participation of all stakeholders: Compelled by the value proposition
- Integrity management process and technology improvements
  - Identification of current industry VIS processes and systems (PRCI, API, INGAA, SGA, Service Providers) and assessment of active participation by stakeholders
  - Identification of current gaps in data, technology and/or analytics that need to be closed
    - Sharing occurs between technology providers and operators
  - Sharing of enhanced processes and practices i.e. solutions to known problems including experience with new data/information technology
  - Training and education of lessons learned with respect to execution of the various integrity management processes
    - Improved analytics
    - Near misses
- Post incident related RCFA's and subsequent company/regulator learning
  - Systemic or acute process improvements
  - Cultural improvements
  - Technology/Technology deployment improvements
- Communication to and with stakeholders including regulators, public advocacy, public

# Current State

API PIX

APGA

INGAA Lessons  
Learned

Common Ground  
Alliance

AGA Peer  
Assessments

SGA Roundtables

PHMSA R&D

PRCI TDC

PHMSA GIS,  
Incident & PL Data

PRCI ILI R&D

PHMSA  
Investigations &  
Enforcement

Standards Making  
Organizations

NTSB Investigations

GTI IM Assessment  
Validation Projects

Assessment  
Providers

Congress, States &  
Local Officials

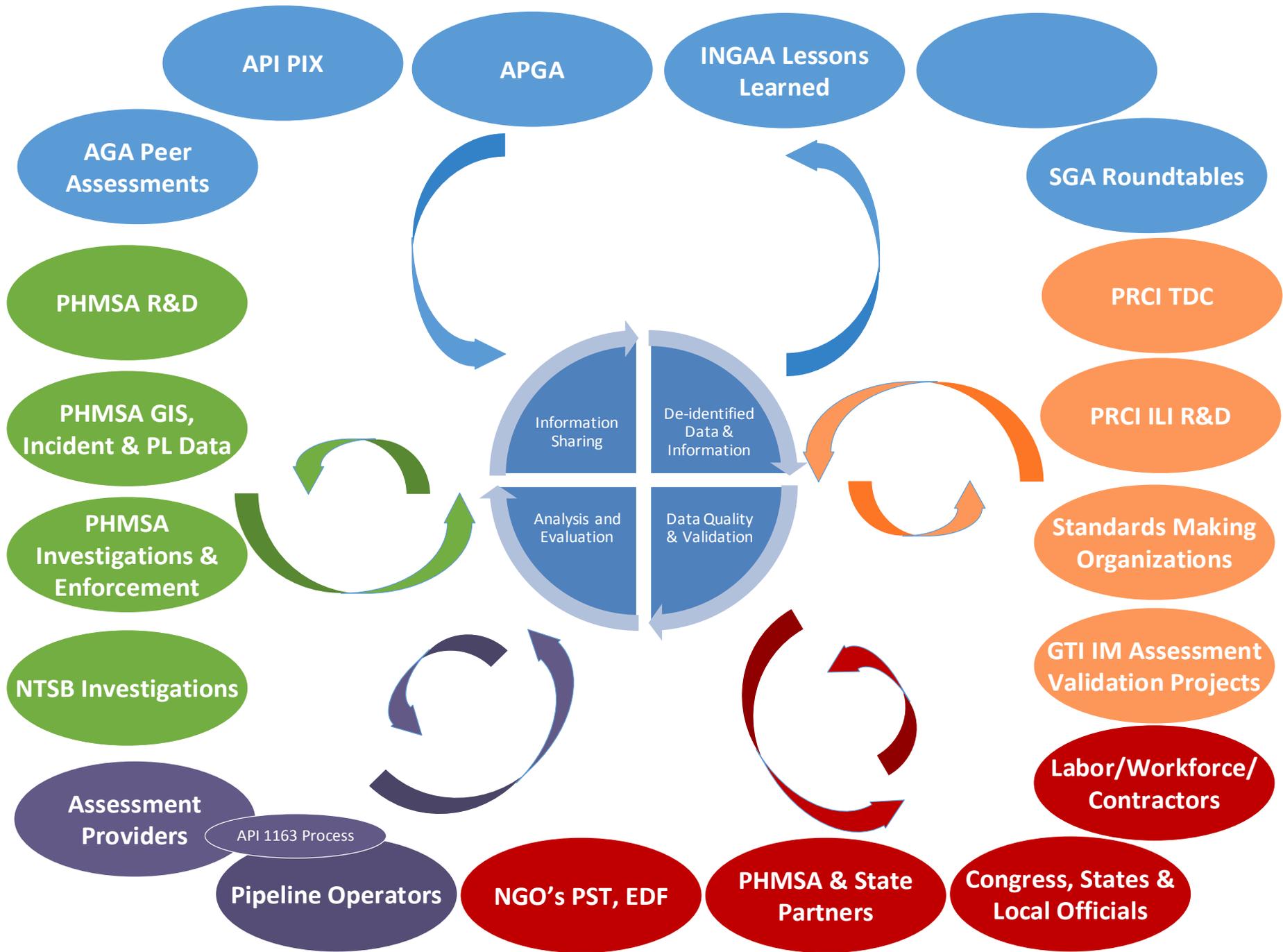
API 1163 Process

Pipeline Operators

NGO's PST, EDF

PHMSA & State  
Partners

Labor/Workforce/  
Contractors



## Data and Information

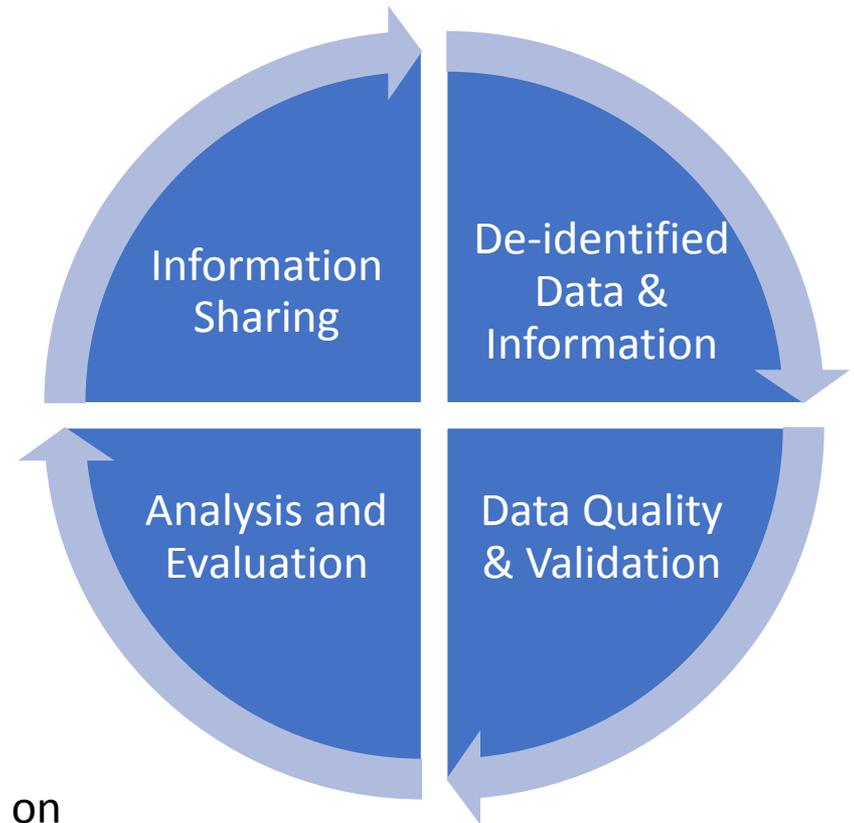
### Layers/Records/Focus Areas

#### De-Identified Information

- ILI Data
- In-the-ditch Data
- Specific threat or interacting threats
- Near Miss Data
- Incident Based RCFA Recommendations
- IM and Operational Lessons Learned
- Technology Gaps

#### Improvement Resolution/Outputs

- R&D Projects to address gaps
- Corrective/Consent Actions
- Best Practices/Procedures
- Engineering Standards
- Performance Metrics/Leading Indicators on VIS



# Best Practices Subcommittee Path Forward

- Is the Task Statement appropriate for the VIS strawman concept? Yes, no changes recommended
- Identify key interdependencies with other sub-committees and clear view of critical path for report writing:
  - Best Practice sub-committee is focused on learning from past experience and processes to effect viable voluntary information sharing systems and bring those to bear for this Committees task.
  - Clear overlap with Process Sharing and Technology – the CAST/ASIAS model is emerging as one to emulate; it can potentially provide initial studies and reports used as a catalyst for its formation. Additionally and equally useful would be existing governance documents, operating procedures, cooperative agreements, etc. that might be applicable to our industry model.
  - Establish Work teams to focus on current best practices which address fundamental process needs in a voluntary information sharing context:
    - ✓ Governance
    - ✓ Quality Assurance/Quality Control
    - ✓ Security of Data and Information
    - ✓ Barriers to participation and methods to mitigate
    - ✓ Communication of results and performance

# Best Practices Subcommittee

## Path Forward

Established work groups to pursue the existing best practices currently being deployed in the following areas which align with our task statement:

- **ILI Data and In-ditch Data Management – Cliff, Bryce, Jason**
  - Individual Operator processes and procedures – best practice (over and above RP 1163)
  - API 1163 Process between ILI Service Providers and Operators
  - PRCI ILI Data Analytics (PRCI Project NDE4-X) – Data Standards, Data Gathering, De-identification Techniques, Security
  - ASIAs Data Standards (impacting how operators report data, statistics, information), De-identification Techniques, Security
- **Pipeline Safety and Integrity Management Process Improvement – Eric, Mike, Mark, Joe, Max**
  - INGAA, API, AOPL, SGA PLS Committee Lessons Learned
  - PRCI R&D Programs – Technology and Knowledge Base Improvements and Programmatic Efforts (NDE4, etc.)
  - Industry and Operator PSMS 1173
  - CAST Safety Data Analysis Process and Resolution (ASIAs, Pilots, Maintenance and Inspection, Manufacturers turning data and information into actionable improvements)
  - Training and Qualification Programs within the Industry – SGA, PRCI, others
  - Incident and RCFA Based Learning
    - ✓ PHMSA and State Enforcement Actions/Operator Process Improvement
    - ✓ NTSB recommendations and resolutions
    - ✓ Individual Operator Internal Processes
    - ✓ Industry and Operator PSMS 1173 Lessons Learned Process – AOPL/API Best Practice
- **Communication and Stakeholder Outreach – Kate, John, Leif, Warren**
  - Common Ground Alliance Processes and Practices (DIRT)
  - PHMSA Performance Metrics and Annual Reporting – Leverage and Enhance

# Best Practices Subcommittee Notes

How did the Commercial Airline Safety Team and ASIAs come to be?

- Can we gain access to the NASA report that compelled its formation, structure, governance and operating processes?
- Voluntary Safety Information Sharing Advisory Rulemaking Committee (VSIS ARC) final report (analogous to VIS committee)
- How was participation encouraged, trust developed and membership grown?
- Can we gain access to the CAST and ASIAs governance documents including cooperative agreements, operating procedures etc.

## **Best Practices Subcommittee Next Steps/Action Items**

- Cynthia Dominick – will request participation as needed for BPSC as guest contributor
- AGA Staff for BPSC Membership – decided to not pursue, will invite as guest for presentation purposes as deemed necessary
- Develop and deliver BPSC work group charters (3) including schedule expectations – Eric 4-11-18
- Develop BPSC meeting schedule - Eric 4-11-18
- Disseminate reports to BPSC:
  - NASA/VSIS A
  - CAST/ASIAS Governance Documents to the extent accessible

**Voluntary Information-sharing System  
Federal Advisory Committee  
Reporting Subcommittee**

Report Out Presentation

**April 4, 2018**

# Reporting Subcommittee Members

- Alternate Designated Federal Official: [Karen Lynch](#)
- Subcommittee Chair: [Vacant](#)
- Subcommittee Members:
  - [Kate Blystone](#)
  - [Holly Pearen](#)
  - [Walter Jones](#)
  - [Simona Perry](#)
  - [Randy Parker](#)

# Reporting Subcommittee Task Statement

- Task Statement Number:

18-07

- Task Statement Title:

Subcommittee Governance and Management of VIS Working Group Report

- Task Statement Purpose:

To fulfil essential governance needs by serving as the integration point for all subcommittees and by delivering strategic direction/management of a comprehensive report that will enable the VIS Working Group to provide the Secretary of Transportation with independent advice and recommendations on the development of a secure, voluntary information-sharing system(s).

- Task Statement Description(s):

1. Establish a web-based tool to facilitate collaboration, communication, and records retention.
2. Develop guidance and templates for subcommittee report/document submissions that will be used to consolidate reports and documents from all subcommittees.
3. Consolidate subcommittee reports and common taxonomy and develop the Recommendation report. Incorporate changes as needed.
4. Draft VIS report in accordance with established timeframes and report outline. Report should be written in plain language.

- Deliverable(s):

1. Web-based Collaboration Tool
2. Guidance and Templates
3. Report Samples
4. Document Comment Resolution Matrix
5. Draft and Final VIS Working Group Reports

- Target Milestones and Dates:

1. Web-based Collaboration Tool (March 2018)
2. Guidance, Templates, Report Samples, Comment Resolution Matrix (March 2018)
3. Draft Report (August/September 2018)
4. Final Report (December 2018)



## **Reporting Subcommittee Recent Activities**

1. Drafted subcommittee guidance and templates for submission of sections of the VIS WG report.
2. Drafted VIS WG report template.
3. Researched and collected sample advisory committee reports.
4. Developed framework and mockup of Vbulletin web-based collaboration tool.
5. Finalized dates for Reporting Subcommittee meetings/teleconferences.

# Reporting Subcommittee Action Items

1. Finalize guidance and templates (Due: April 13)
2. Finalize report template (Due: April 13)
3. Update the report outline to align with subcommittee task statements (Due: April 13)
4. Provide subcommittees with guidance, templates, and report samples (Due: April 14)
5. Finalize Vbulletin web-based collaboration tool (Due: April 20)
6. Schedule web-based demo/overview of Vbulletin (Due: April 27)
7. Conduct a kick-off meeting with editors/writers (TBD)

# Key Recommendation Report Sections

- Table of Contents
- Executive Summary
- Key terms, acronyms, and definitions
- Introduction
- Background
- Information Sharing Topics\*\*
- Findings
- Recommendations
- Conclusion
- Appendices

# Report Timelines

## Subcommittee Work Commences February 2018 – June 2018

Report Section	Timeline
Subcommittees Submit initial recommendations and findings to parent committee	July-Aug 2018
Initial Recommendation Report Drafted	Aug - Sept 2018
Parent Committee Review #1 on initial Recommendation Report	Sept-Oct 2018
Revise Recommendation Report	Oct-Nov 2018
Parent Committee Review #2 on initial Recommendation Report	Nov-Dec 2018
Final Recommendation Report Vote	Dec 2018
PHMSA/DOT Review and Submission	Dec 2018 - Feb 2019

## **Recommendation for the VIS WG Committee**

Recommend that each VIS WG Subcommittee Chair designate one of their members to serve as a liaison and primary point of contact to the Reporting Subcommittee to ensure that their report sections and recommendations are conveyed accurately and reflected appropriately in the report.

# Questions/Comments

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

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

## **Report Out Presentation**

April 5, 2018

## Subcommittee - Technology and R&D, Members

- Alternate Designated Federal Official: **Chris McLaren (Max Kieba)**
- 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

### Invited Guests

- Cliff Johnson, PRCI
- Jason Skow, C-FER
- Sean Keane, Enbridge (TBA)

# 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

## Work Groups Established

1. **Assumptions** (understand the overlap/integration between Process Sharing and Best Practices Subcommittee in order to document the assumptions for the “Functional Specification(s)” and further define Taxonomy)
2. **Architecture/IT** (IT, user authorization, accessibility, security, database/software, etc.)
3. **Continuous Improvement/R&D** (considerations for improvements and/or developments)

# Subcommittee - Technology and R&D

## Review Subcommittee/Work Group Accomplishments

### 1. Assumptions - Bryce Brown

- Review overlap between Subcommittees, Process Sharing and Best Practices – Discussion (Mark Hereth and Eric Amundsen)
- Process Sharing will come up with the basis for needed Taxonomy
- Architecture/IT will be reviewed by Process Sharing, Best Practices and mainly focused upon by Technology/R&D
  - What?, How? ..... “people-process-technology”

# Subcommittee - Technology and R&D

## Review Subcommittee/Work Group Accomplishments

### 2. Architecture/I.T. - Jason Cradit

- Requires the Input and Output (e.g. “buckets” of types of information from Process Sharing)
- Options are being considered for the needed Architecture/IT
  - De-Centralized, API (Application Program Interface)
  - Centralized, ASIAs/FOQA (FAA)
  - Progressive evolution
- De-Identification is a challenge, many Operators, Service Providers, Technology Providers, etc.
- Will offer preferred option in recommendation based on knowing the inputs/outputs.

# Subcommittee - Technology and R&D

## Review Subcommittee/Work Group Accomplishments

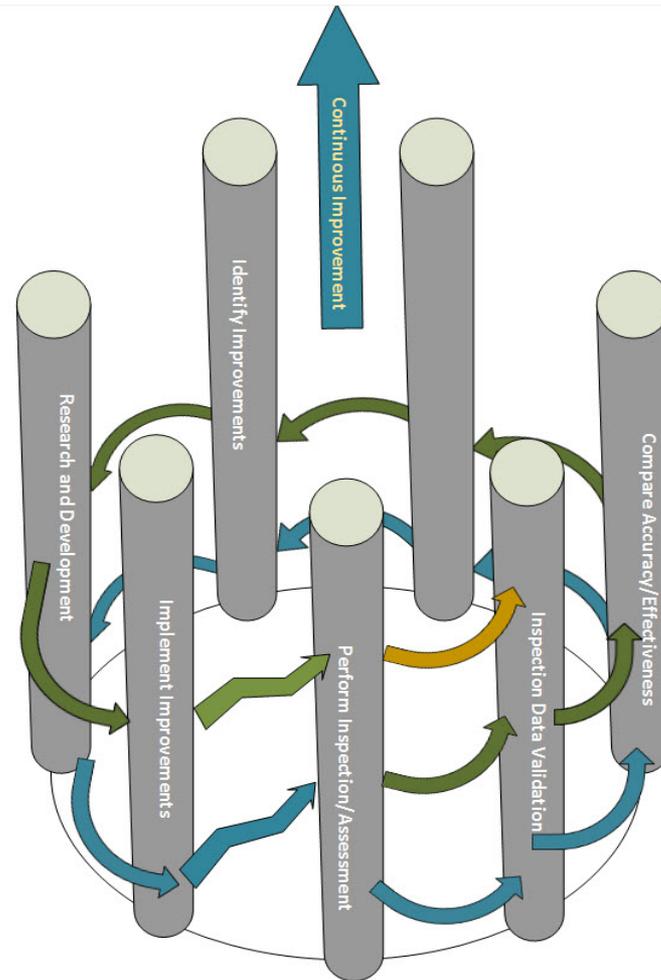
3. **Continuous Improvement/R&D** (considerations for improvements and/or developments) - Chris Warner
  - Varied stakeholders' and the need for data
  - The aspects of 'continuous improvement' that are being addressed with VIS?
  - "Virtuous Cycle" of Continuous Improvement
  - Varied integrity assessment methodologies, tools, technologies, etc. (technology independent)
  - Benefits of participation by large number of Operators and service providers
  - How to encourage participation?
  - Foundational requirements for success and suggested KPI's during implementation

# Subcommittee - Technology and R&D

## Review Subcommittee/Work Group Accomplishments

### Virtuous Cycle for Continuous Improvement (example)

Step #	What	Who
1	Perform inspection/assessment	Carried out by the pipeline operator as part of normal operations using existing technology & processes
2	Inspection data collection & validation	Submitted by operator for validation and incorporation into database
3	Compare accuracy/effectiveness	Could be carried out by the organisation managing the database, or via database queries made by participating entities
4	Identify improvements	Comparison of technology performance between vendors, and against published specification will highlight gaps
5	Research & development	Vendors and/or research organisations choose to spend their own budgets, or receive funding, to close the gaps identified in step 4
6	Implement improvements	New improved tools, techniques and processes adopted by the industry



**Questions/Comments**

**Voluntary Information-sharing System  
Federal Advisory Committee  
Subcommittee Training and Qualification**

Report Out Presentation

**April 5, 2018**

# Subcommittee Training and Qualification Members

- Designated Federal Official: Dr. Christie Murray
- Subcommittee Chair: Leif Jensen
- Subcommittee Members in Attendance:
  - John MacNeill
  - Hung Nguyen
- Subcommittee Members Not in Attendance:
  - Bob Buchanan
  - Yiming Deng
  - Michelle Thebert
  - Michael Keller

# Subcommittee Training and Qualification

## Training Categories

- Motivating and compelling stakeholders to participate
- Training and qualifying participants
- Output to stakeholders
  - Findings
  - Recommended actions
  - Required actions

# Subcommittee Training and Qualification

## Motivating and Compelling Stakeholders to Participate

- Tenants: Trust and Leadership
  - Leadership includes PHMSA, Operators, ILI and NDE Vendors, Trade Associations, Advocacy Groups, Unions, University R&D
  - Build initial trust by:
    - Emphasizing data security criteria
    - Data analysis algorithms, data, and systems are preserved and secure
    - Describing process flows (including data encryption protocol). Defining who will see 'identified' data.
    - Describing how 'risk' will be categorized and described
    - Preservation of Intellectual Property
- Signature SMS Initiative

# Subcommittee Training and Qualification

## Motivating and Compelling Stakeholders to Participate

- Raise the industry safety bar
- Summarize experiences of FAA
  - Not only threat of regulations, but passenger dissention – had to prevent crashes to preserve business. Analogous to anti-pipeline media today
- Benchmarking your company relative to aggregate of all VIS Participants
- Identify barriers and how the VIS will overcome them (perhaps a FAQ document)
- Actions identified proactively rather than retroactively
- Clearly communicate the Governance Process, Policies, Procedures (Rules of the Game)
- Industry – PHMSA Partnership w/ non-punitive & de-identified data paramount
- Actionable items to mitigate risk well before or without need for regulation

# Subcommittee Training and Qualification

## Training and Qualifying Participants

- VIS Training is not vocational or OQ training
- Hiring Criteria – math, statisticians, well degreed – assuming 3rd party vendor (e.g. ASIAS - MITRE)
- Pairing dB analytical staff with ‘domain’ SMES (e.g. vendors, operators, providers)
- Code of conduct for handling data – both ‘identified data’ and ‘de-identified data’
  - Develop robust rules w/ degrees of separation to preserve anonymity
  - Training modules w/ certificate for entry into the data room

# Subcommittee Training and Qualification

## Training and Qualifying Participants

- Data entry accuracy – QA/QC protocols
- Data submittal consistency – perhaps a data pull at first (similar to PRCI approach)
- Qualified instructional designers for creation of curriculum
- Taxonomy, Definitions, Glossary, Acronyms

# Subcommittee Training and Qualification

## V.I.S. Group Output to Stakeholders

- Vision: Vulnerability Discovery (aka predictive maintenance program)
- Audience to include small operators in addition to large
- Categorize/Tier information for applicable audience
- Allow a 'trigger' within analytical phase to discretely pair up two operators that may be experiencing similar issues without compromising their anonymity
- How to interpret reports

# Subcommittee Training and Qualification

## Future Business

- Suggestions how to provide training/on-boarding for these three categories
  - Trade association brochures and websites
  - State and Federal Regulator websites
  - Conferences – trade associations, labor unions
  - PHMSA Inspector Training & Qualifications Center (for example)
  - Industry training venues
  - Sources for effective marketing of the VIS

Questions/Comments?