

Pipeline SMS Workshop

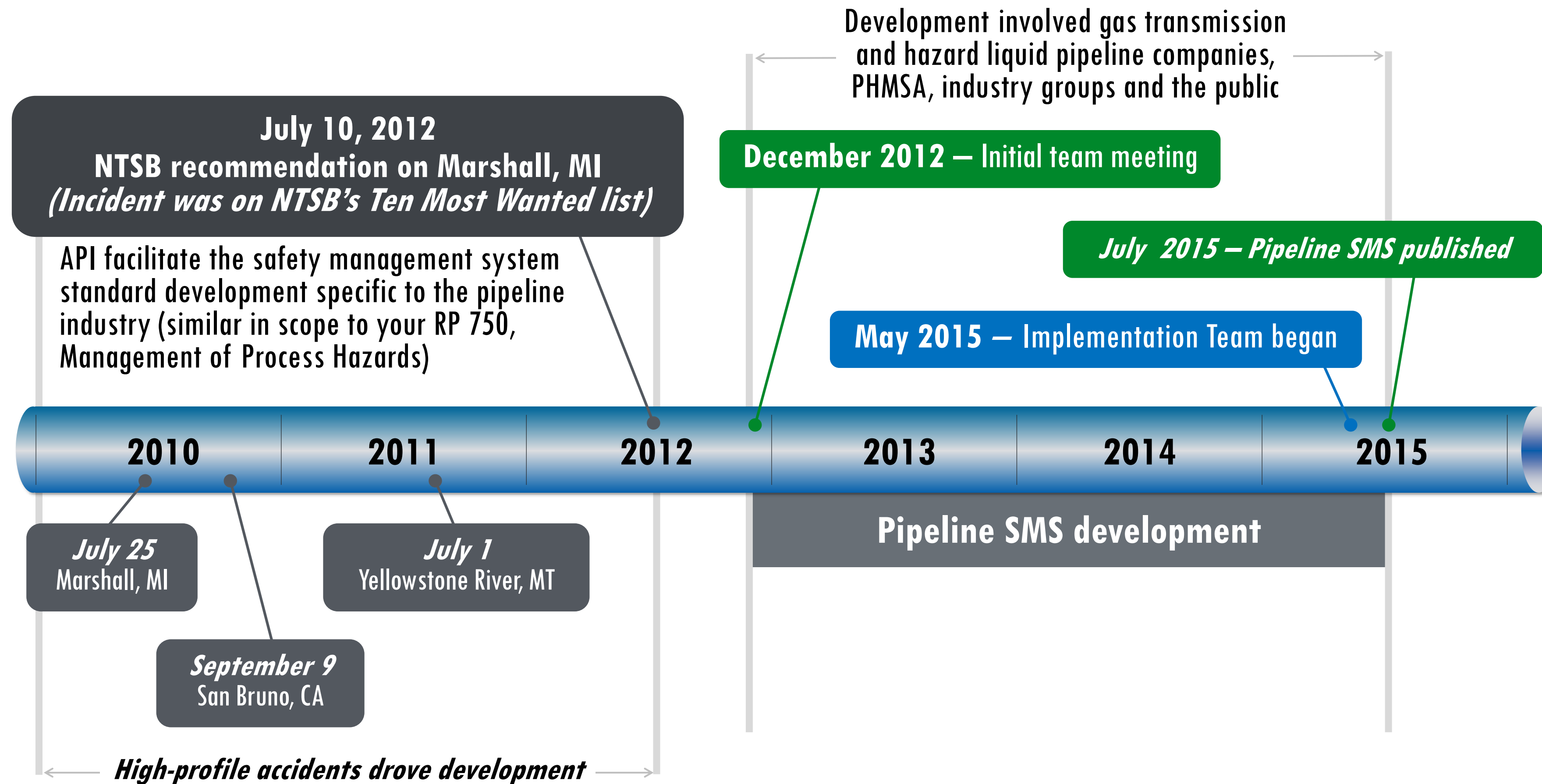
December 4-5, 2019



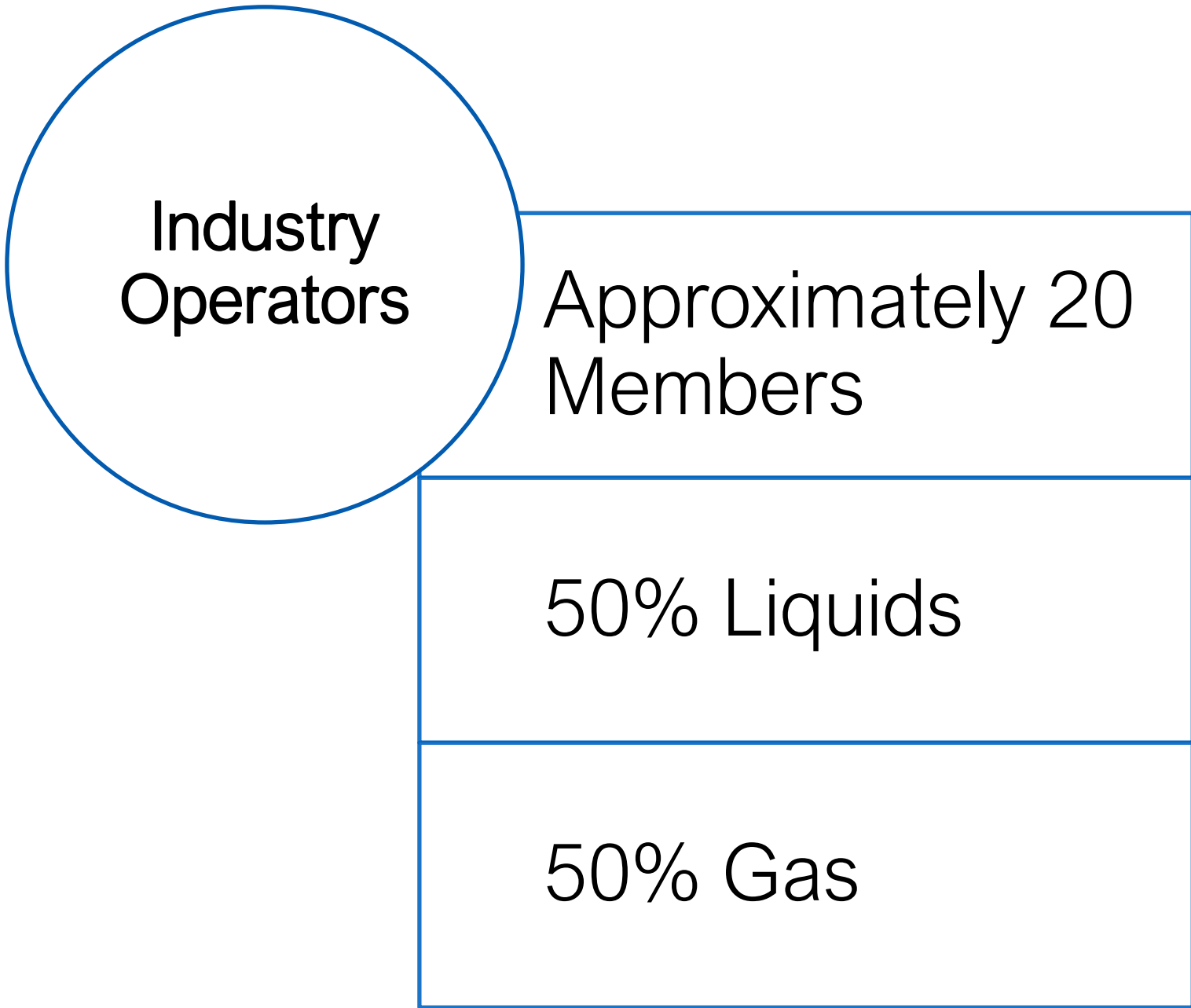
Pipeline SMS



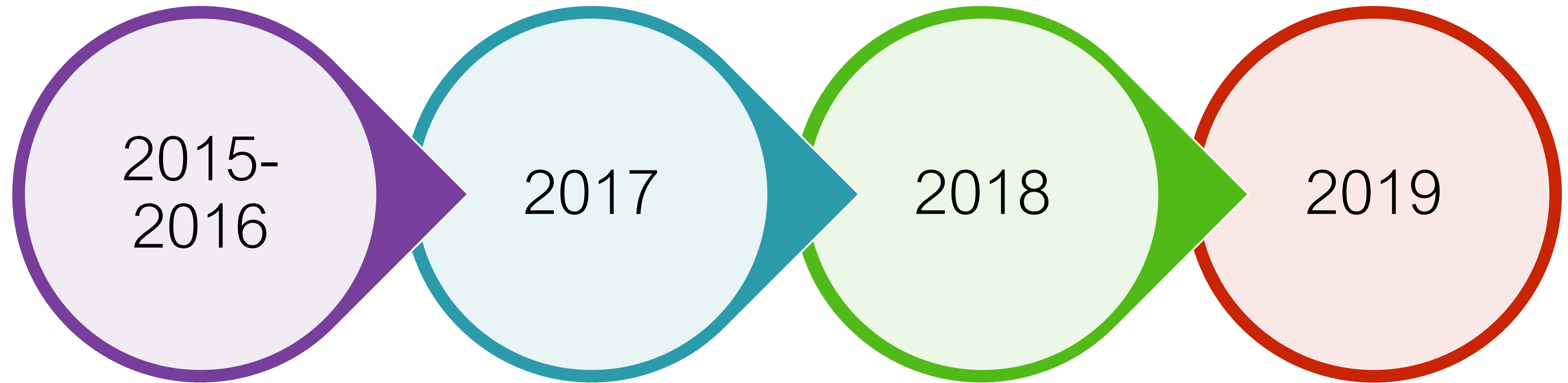
Pipeline SMS Background



SMS Pipeline Industry Team



Team History



- RP 1173 Published
- Implementation tools provided
- Individual implementation efforts began

- Liquids and gas joined forces
- Formed SMS Cross-Industry Team

- Transitioned focus to increase participation
- Developed Team Governance

- Maintaining focus on strategy & tactics to ensure implementation across the industry



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Improving Performance (more than just safety)

PIPELINE SAFETY MANAGEMENT SYSTEM – API RP 1173

10 ELEMENTS

Yields a cohesive system

SYSTEM

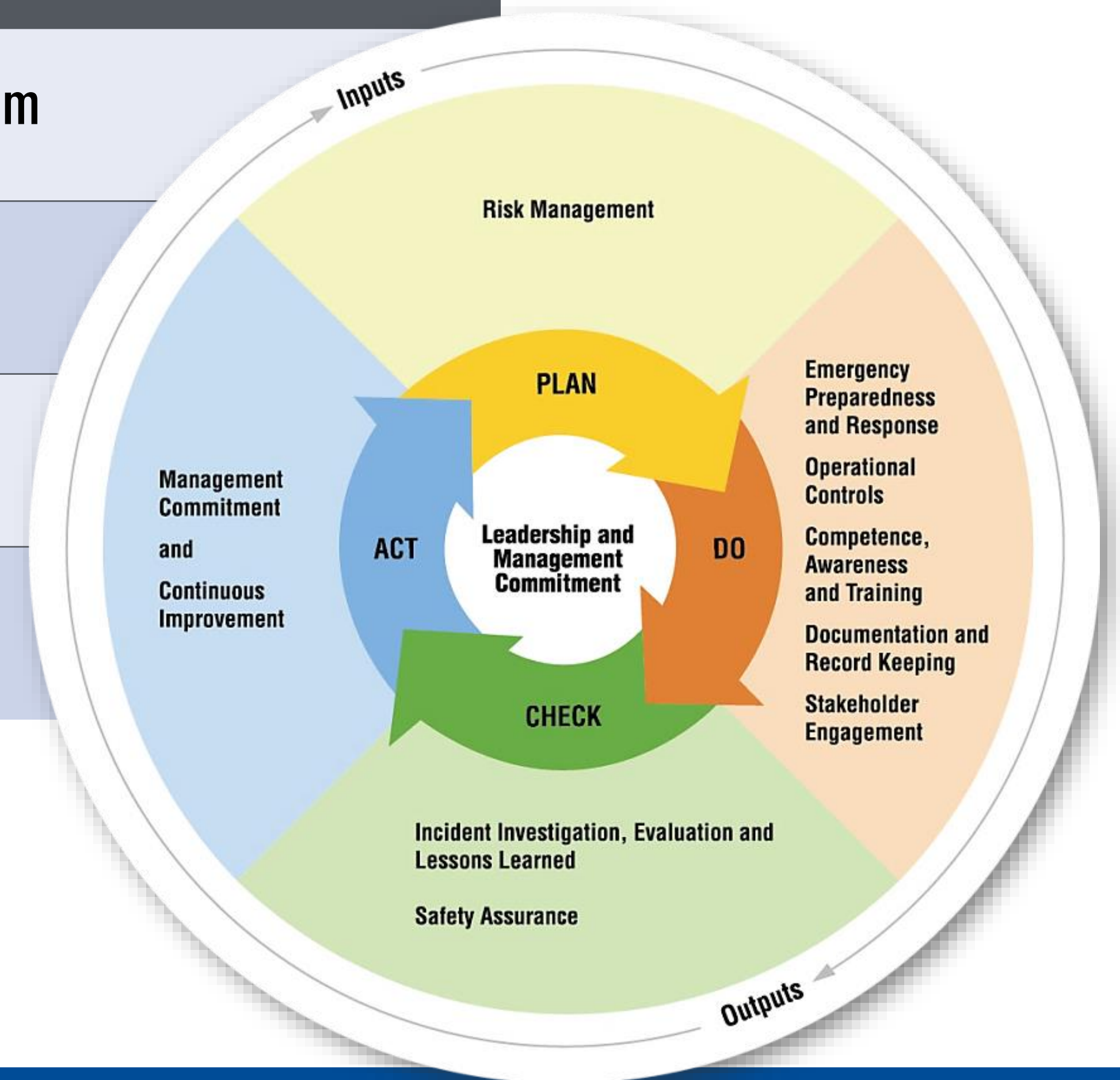
Flexible & scalable

JOURNEY

Plan-Do-Check-Act

CULTURE

A must!



Guiding Principles



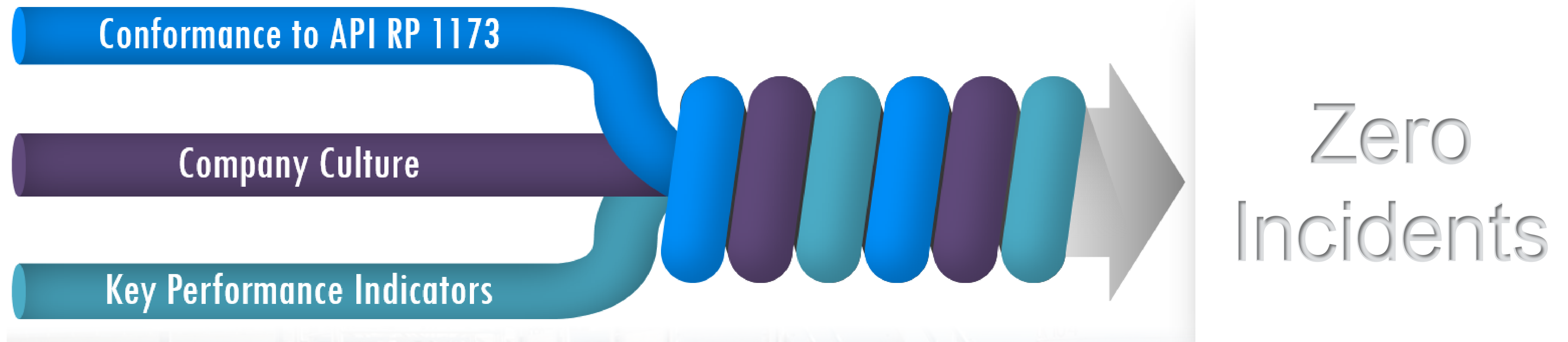
- ① **One Industry, One Goal**
- ② **Improve overall performance**
- ③ **It's a journey, not a destination**
- ④ **Flexible and scalable**
- ⑤ **Stay true to RP 1173 (especially terminology)**
- ⑥ **Provide tools to assist all operators**
- ⑦ **First conformance, then effectiveness**
- ⑧ **Voluntary implementation equals unlimited results**
- ⑨ **Proactive vs. reactive**



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Pipeline Safety Management Systems

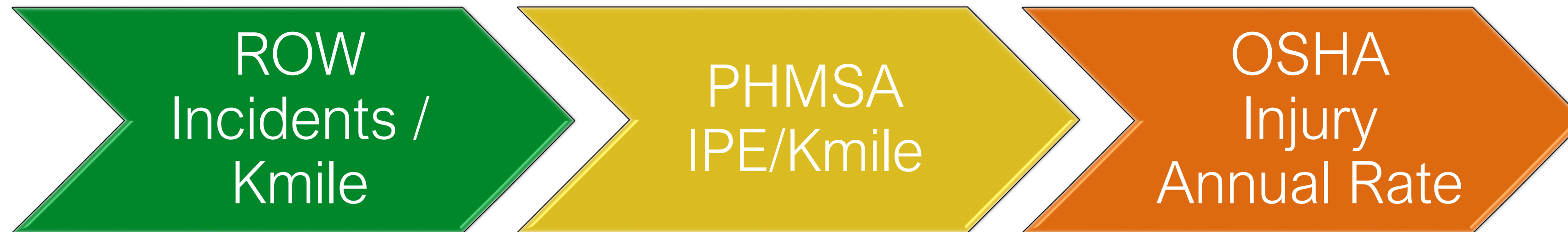


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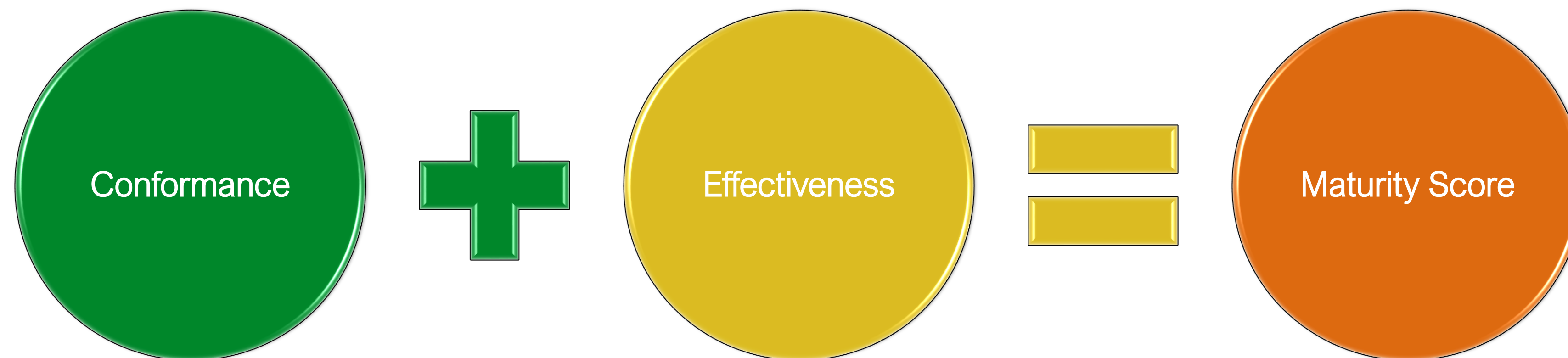


MEASURING EFFECTIVENESS

3-Year
Averages



Key metrics used in comparison to industry averages provide the effectiveness score as an addition conformance.



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Industry Team Objectives



Getting the Word Out



- AGA Workshop
- API Annual Conference
- NTSB Investigative Hearing (2018)
- International Pipeline Conference
- APGA Operations Conference
- Pipeline Leadership Conference
- PHMSA & NTSB Updates
- Annual Survey
- Annual Report
- Web-Site
- Industry-wide Webinars
- SMS Workshop

2018 and 2019
Communications



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2018 Accomplishments



Making It Real

- **Continue *One Industry, One Goal***
- **2018 Webinar series**
- **2018 Workshops**
- **API voluntary third-party assessment program development**
- **Metric development**



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Demonstrating Progress



LEADERSHIP COMMITMENTS



SAFETY CULTURE SURVEYS



GAP ASSESSMENTS



CLOSURE PLANS



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Demonstrating Progress

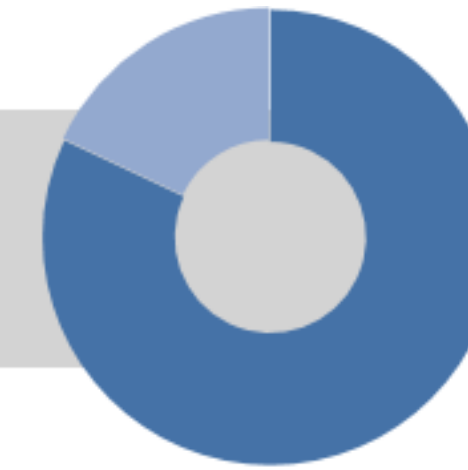
48%
Pipeline
mileage
surveyed

71%
Gap
assessment
completion

88%
Assessing
safety
culture

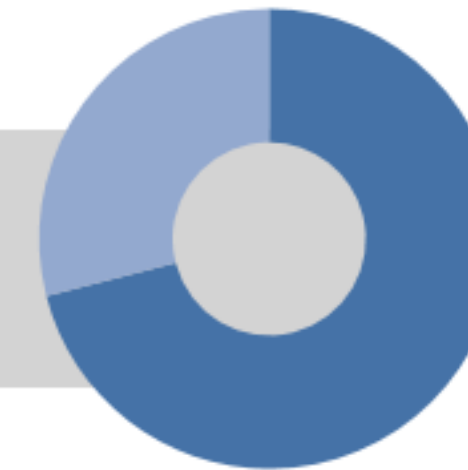
74%
Operators who reported
identified improvement
opportunities from
gap analyses

82% Yes
18% No



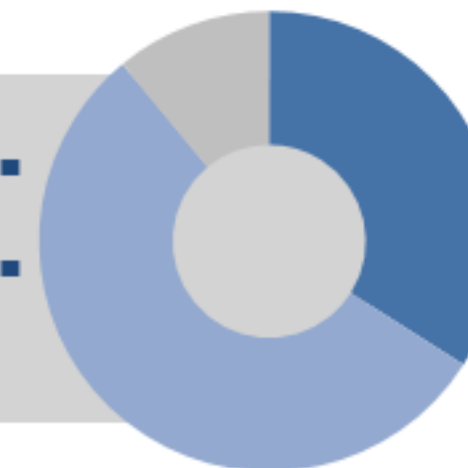
Has leadership demonstrated a tangible commitment to the implementation of their SMS?

71% Yes
29% No



Has the company performed a gap assessment or evaluation of level of maturity of their SMS?

34% 1-2 yrs.
55% 2-5 yrs.
11% >5 yrs.



What is the time frame for closing initially identified gaps or addressing improvement opportunities?

88% Yes



Has your company taken any steps to assess your safety culture post 2014?

- 2018 data from liquid, gas transmission & gas distribution pipelines
- Survey responses represent 48% of the liquids and gas pipeline mileage



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2019 Accomplishments



Continuing to Make It Real

- **Continue *One Industry, One Goal***
- **2019 Webinar series (114 & 171 participants)**
- **2019 Workshop (87 attendees + presenters and facilitators)**
- **API and APGA conference sessions targeting SMS (200+ attendees)**
- **Standardizing approach to the API voluntary third-party assessment; conducted two pilots to achieve this goal**
- **Metric implementation**
- **Annual Survey going on now**



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2020 Strategic Objectives



Increase Industry Participation

- Industry Annual Survey
- Industry SMS Annual Awards Development
- “Barrier to Entry” Determination

Ensure Proactive External Engagement

- Ongoing PHMSA Engagement
- PST Engagement
- Newsletter
- Annual Report
- Web-site
- PHMSA Reauthorization

Provide Ongoing Support for Operator Journeys

- Culture Survey for Operator Use
- 3rd Party Voluntary Assessment
- Education
 - Workshops
 - Webinars

Provide Governance & Oversight

- Industry Team Strategy
- Reaffirmation / Reauthorization of 1173
- Team Structure & Membership
- Metrics



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API RP 1173 PSMS Assessments: Program



PROCESS

- Third party assessments **NOT** Audits
- Use of industry RP 1173 tool & protocols
- Evaluation against industry maturity model
- Assessors with 20 years SMS & pipeline experience

OBJECTIVES

- Share best practices
- Inform future activities
- Drive Operator improvement
- Aggregated data demonstrates industry progress

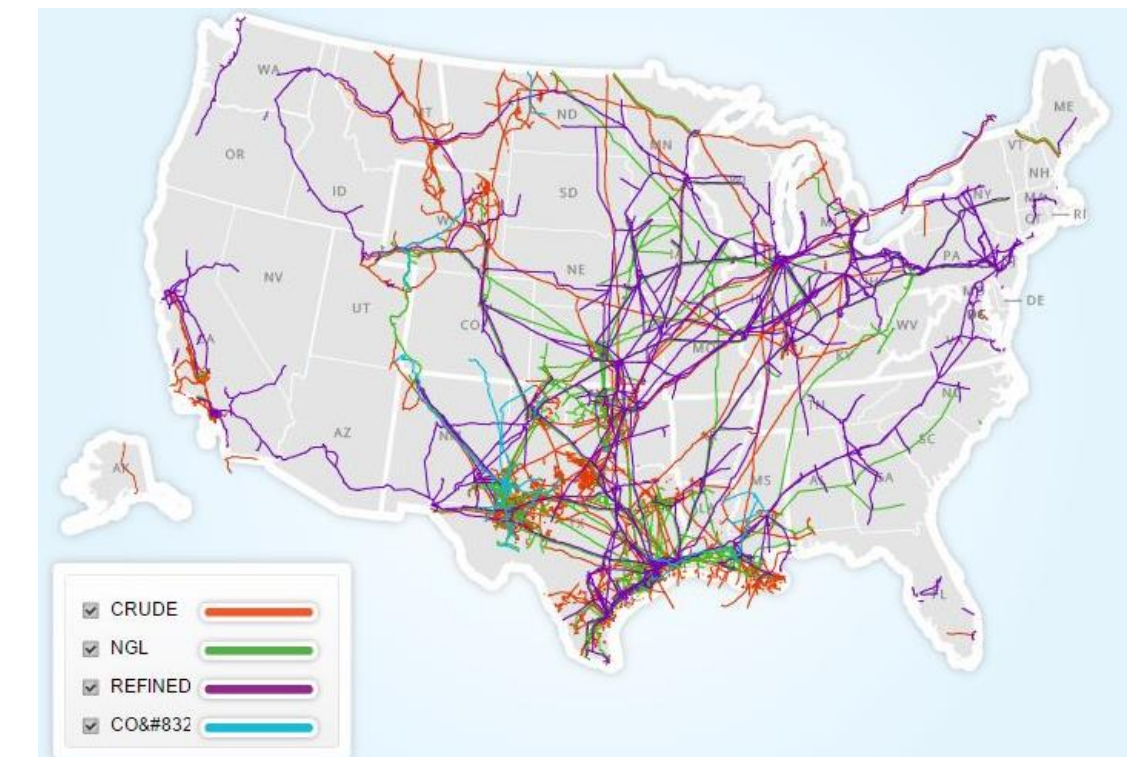


VALUE ADD

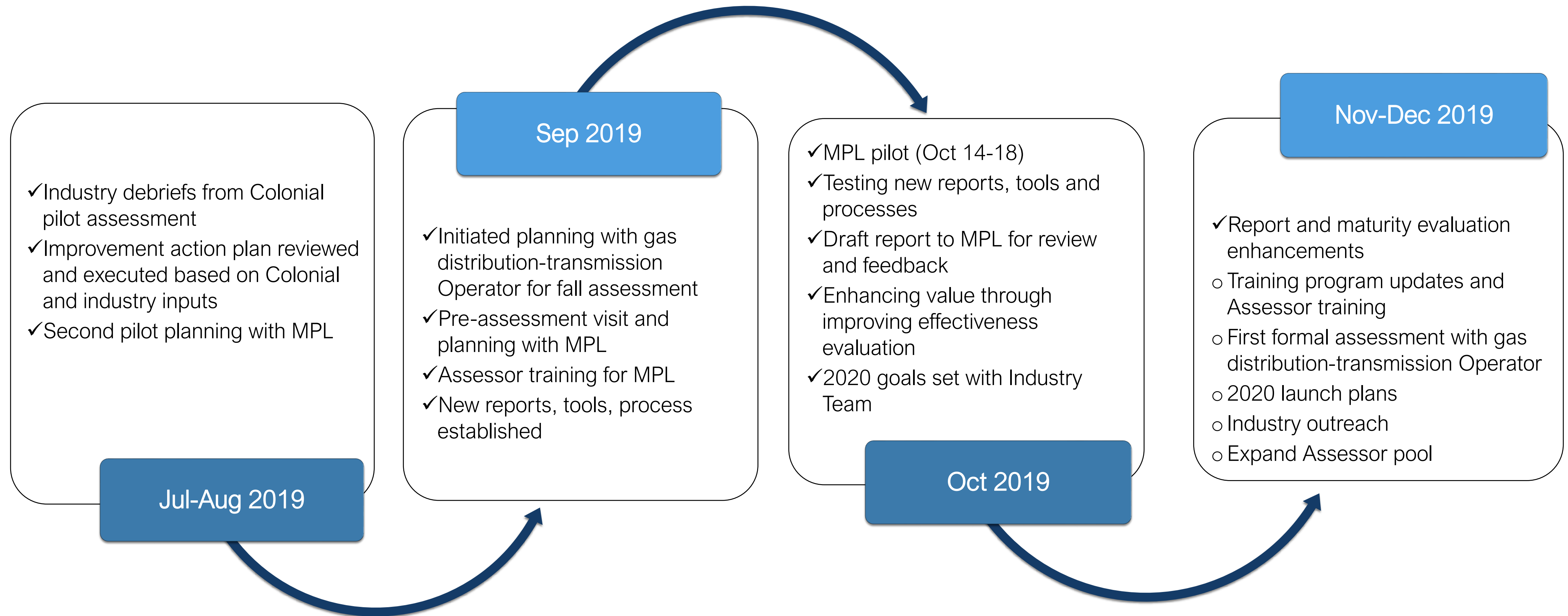
- API coordination and experienced Assessor pool
- Standardized, industry driven approach
- Aggregation of data across pipeline industry
- Direct industry feedback mechanisms
- Members designing and improving program

OPERATORS

- Domestic pipeline operators
- Liquids & gas distribution & transmission
- API, AOPL, AGA, APGA & INGAA members



API RP 1173 PSMS Assessments: Development Status



Governance – Path for RP 1173 Update



Extension Request 2019

- Submit request to COPS in October
- Request to extend to July 2022

Ad-hoc Group 2020

- Reports to SMS Steering Committee
- Include PHMSA and Pipeline Safety Trust
- Collect proposed revisions

Task Group 2021-2022

- Draft revisions based on ad-hoc group recommendations

Voting Group 2021-2022

- Develop and implement voting group (as needed)

Current Landscape



- NTSB and PHMSA supported voluntary nature of Pipeline SMS
- Importance of industry demonstrating growing commitment and progress critical
- Pipeline SMS Industry Team proactively advancing tools and resources to support industry
- Industry needs to continue to champion and mentor to build upon commitment
- Pipeline SMS as a voluntary program under scrutiny by Congress
 - Mandatory provision in Senator Markey bill
 - Provision for PHMSA to report on progress of industry in Senate Commerce discussion draft

Pipeline SMS in the News



Senators Ed Markey and Elizabeth Warren from a Boston Globe article, October 4, 2018 regarding the September 16, 2018 natural gas explosion Merrimack Valley, NJ

"The omission of these sorts of safety measures from Columbia Gas' operating procedures prior to this disaster is alarming and unacceptable," the senators wrote, according to a copy of the letter they provided to the Globe. **"It raises serious questions as to why these policies were not in place for Columbia Gas' systems and whether that failure was the result of negligence, cost considerations or incompetence."**

Columbia Gas has not finalized a Pipeline Safety Management System that the American Petroleum Institute recommended in 2015, with input from federal regulators...

October 2018: API provides Pipeline SMS brief to newly confirmed NTSB Board Member Jennifer Homendy



THANK YOU!

Visit us at: pipelinesms.org

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