

Connecting Quality Management & Safety Management Systems

Tools to Drive a Sustainable Safety Culture



NGA 2019 Fall Operations Conference
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Discussion Outline

- **Reacting vs Learning – *Time for Change is NOW***
- **Safety Management Systems / Quality Management Systems?**
- **Informing *Operational Ownership* through Quality Systems**
- ***Trusted to Work Responsibly vs Trust BUT Verify***
- **QA/QC as a Safety Culture Enabling Tool**
- **Thinking Beyond the *Word* Compliance**

Reacting vs Learning



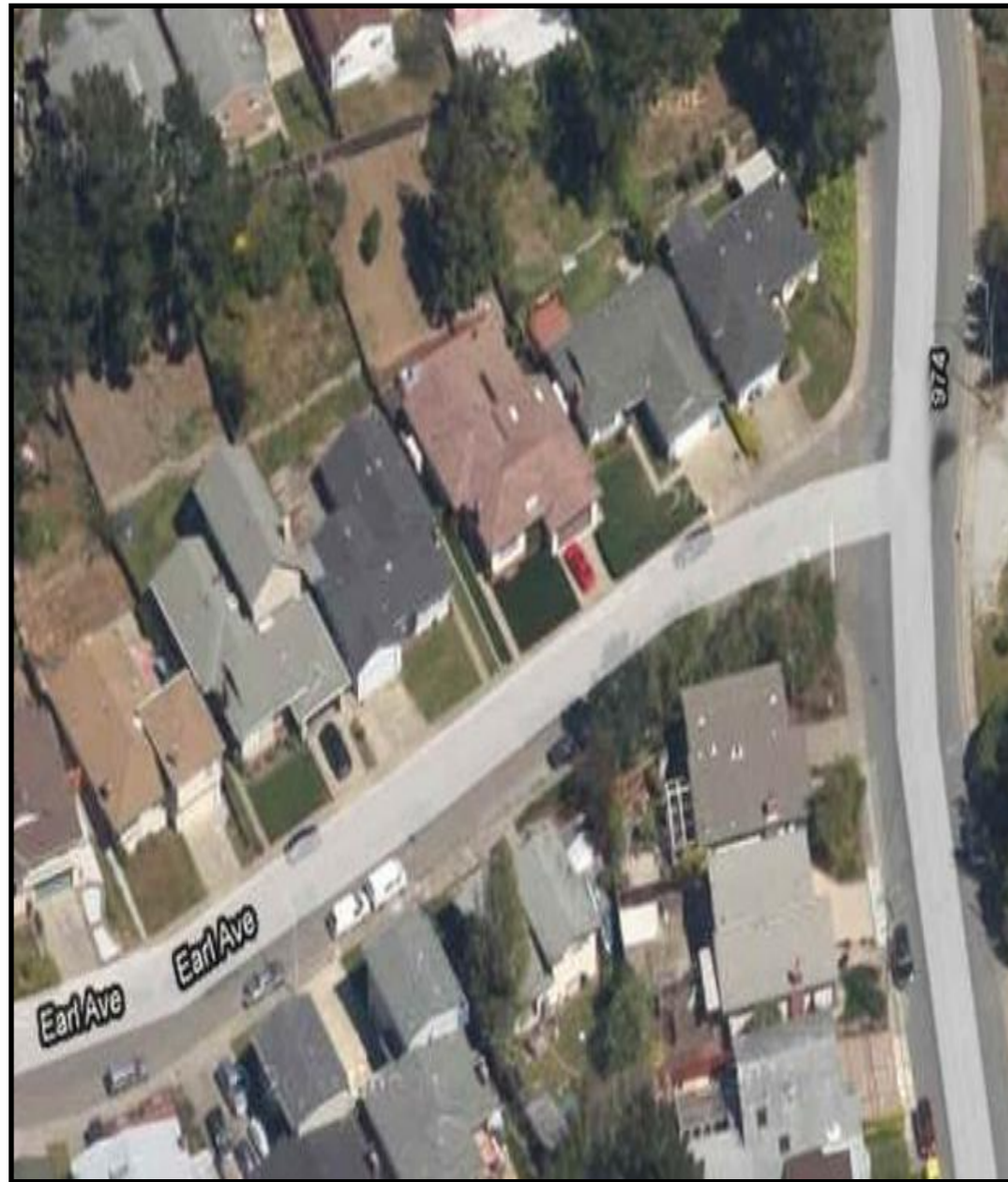
San Bruno 2010

Reacting vs Learning



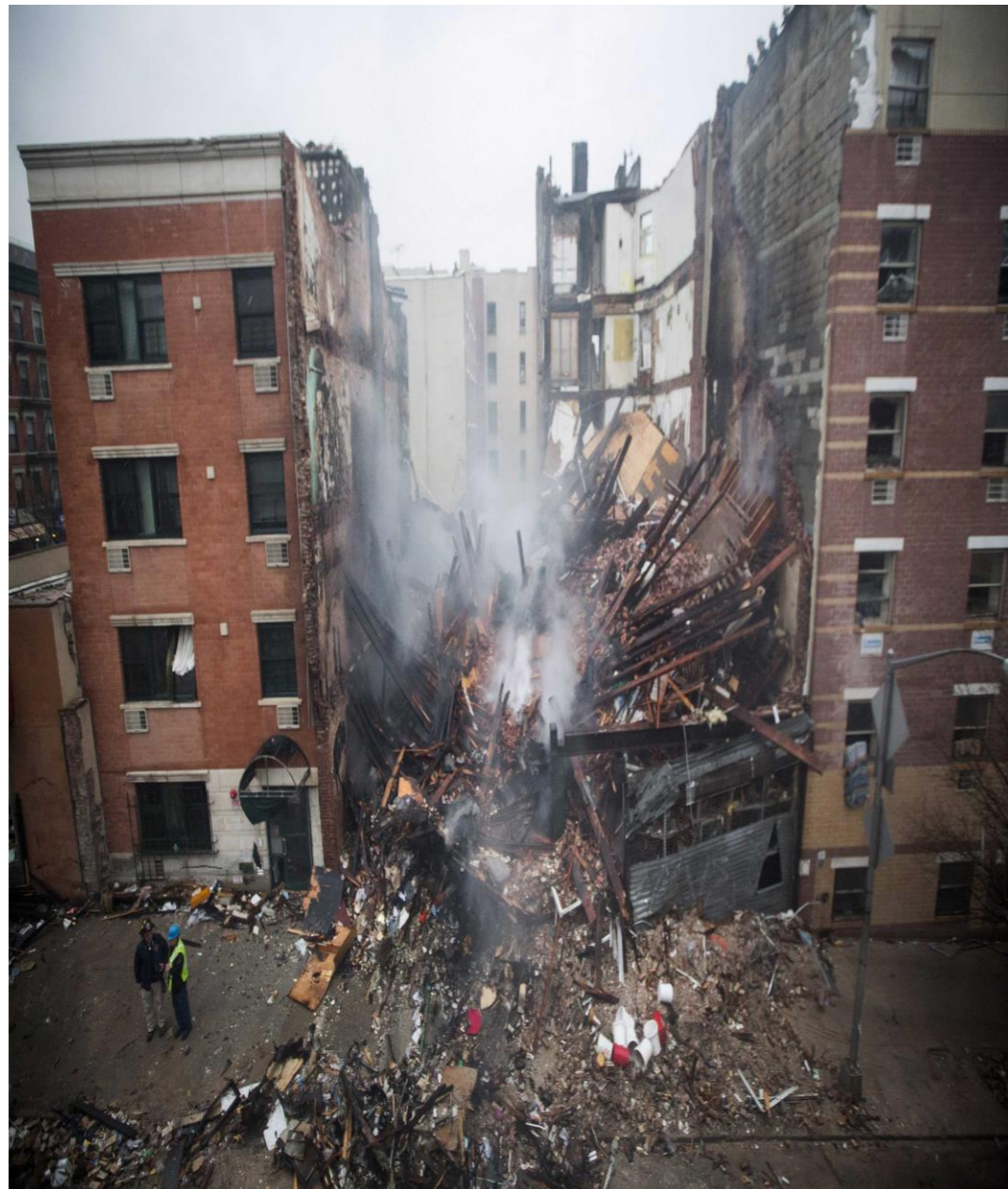
San Bruno 2010

Reacting vs Learning



San Bruno 2010

Reacting vs Learning



Harlem 2014



East Village NYC 2015

Reacting vs Learning



Merrimack Valley 2018

Quality Management Systems

Quality Management System (QMS) - is defined as a formalized system that documents processes, procedures, and responsibilities for achieving quality policies and objectives. A QMS helps coordinate and direct an organization's activities to meet customer and regulatory requirements and improve its effectiveness and efficiency on a continuous basis.



Quality Systems.....

Quality Assurance relates to *how* a process is performed or *how* a product is made.

Quality Control is more the inspection aspect of quality management. An alternate definition is "the operational techniques and activities used to fulfill requirements for quality."



Pipeline Safety Management Systems.....

API RP 1173, *Pipeline Safety Management Systems (PSMS)*, is a recommended practice released by the American Petroleum Institute establishing a systems framework for organizations that operate hazardous liquids and gas pipelines jurisdictional to the US Department of Transportation.

This RP provides pipeline operators with safety management system requirements that, when properly applied, ***provide a framework to reveal and manage risk, promote a learning environment, and continuously improve pipeline safety and integrity.***

Sound Familiar



Pipeline Safety Management Systems

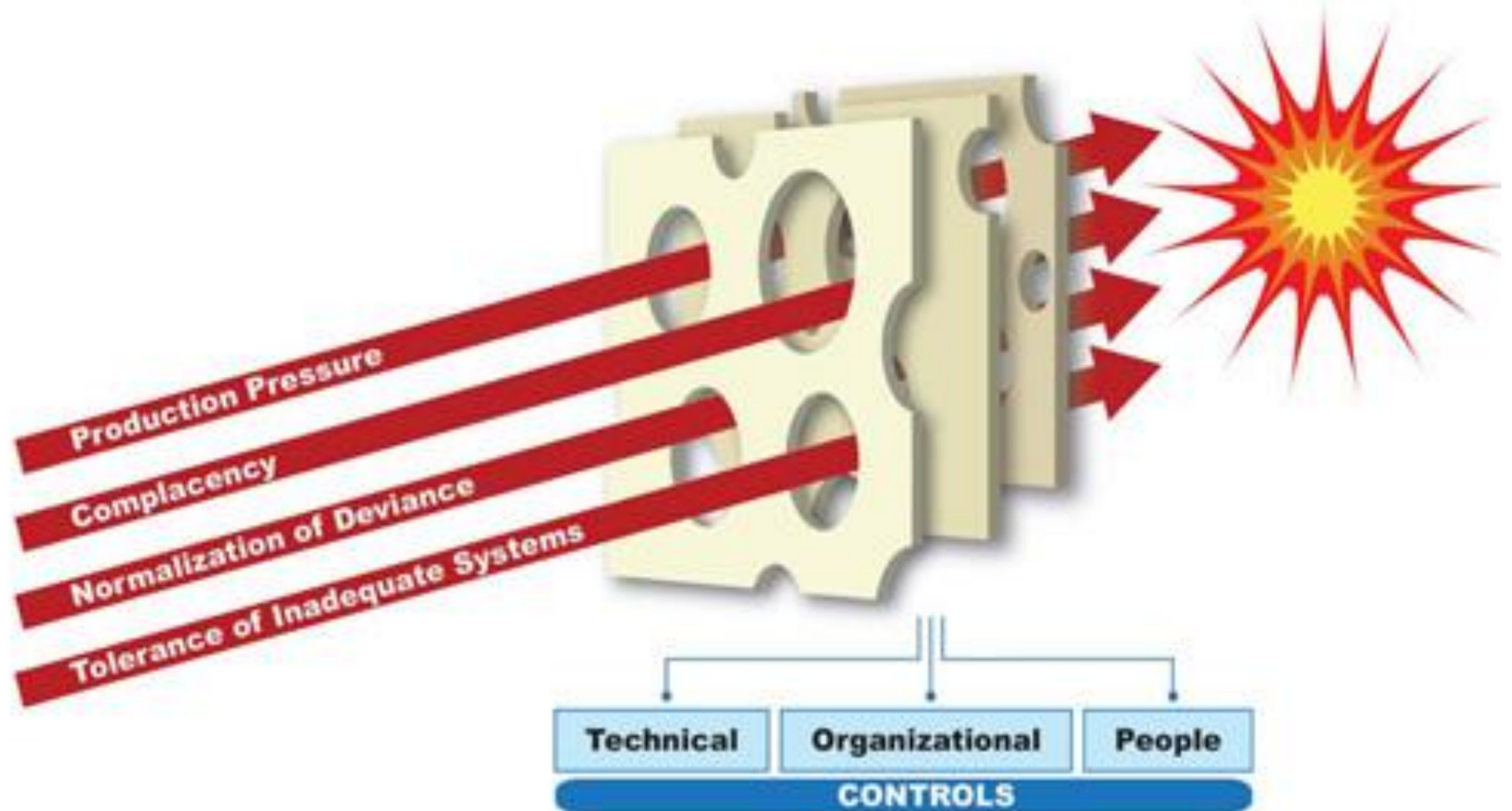
API RP 1173

- At the foundation of a PSMS is the operator's *existing pipeline safety systems, programs & practices*, including the *operator's pipeline safety processes and procedures*.



- These safety management system requirements identify what is to be done; however, *it leaves the details of implementation and maintenance of the requirements to the individual pipeline operators*.

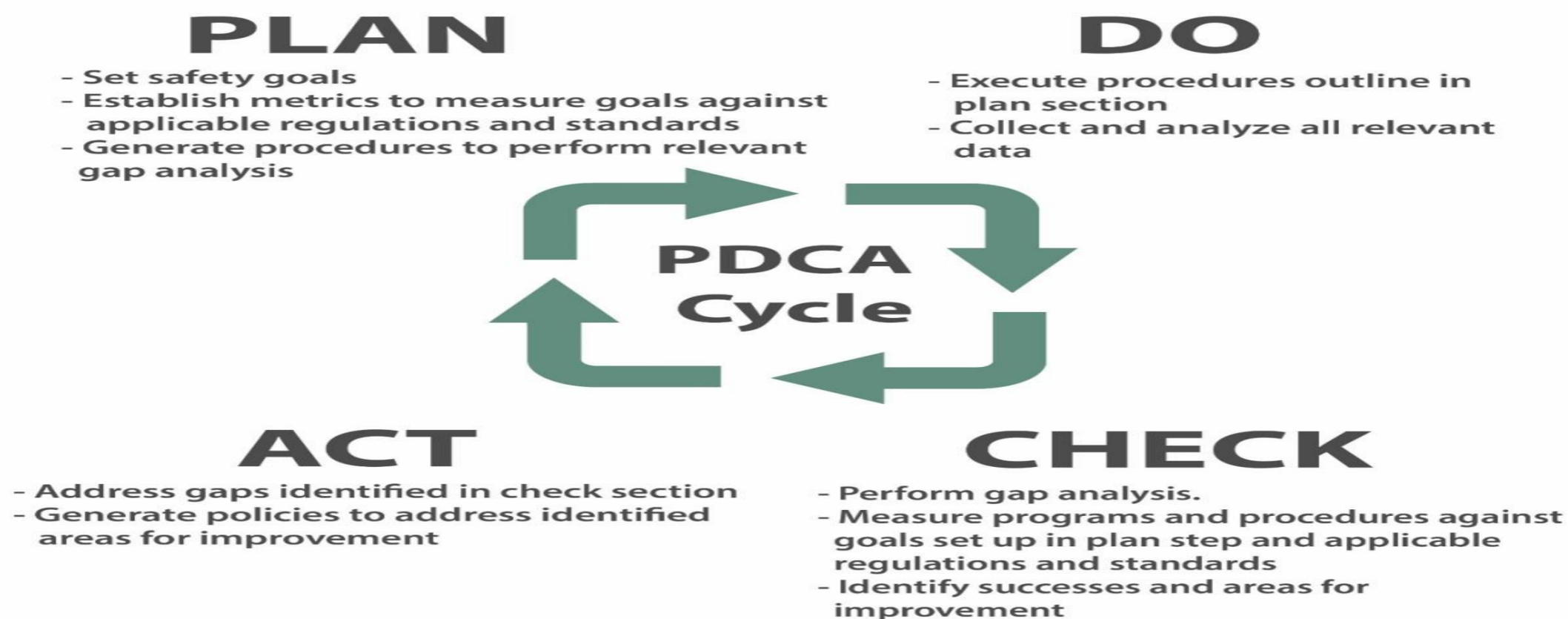
Why & How of QMS & SMS ?



Trusted to Work Responsibly

Trust but Verify....

API RP 1173 incorporates the holistic approach of
“Plan-Do-Check-Act” for pipeline safety management systems



Trusted to Verify.....

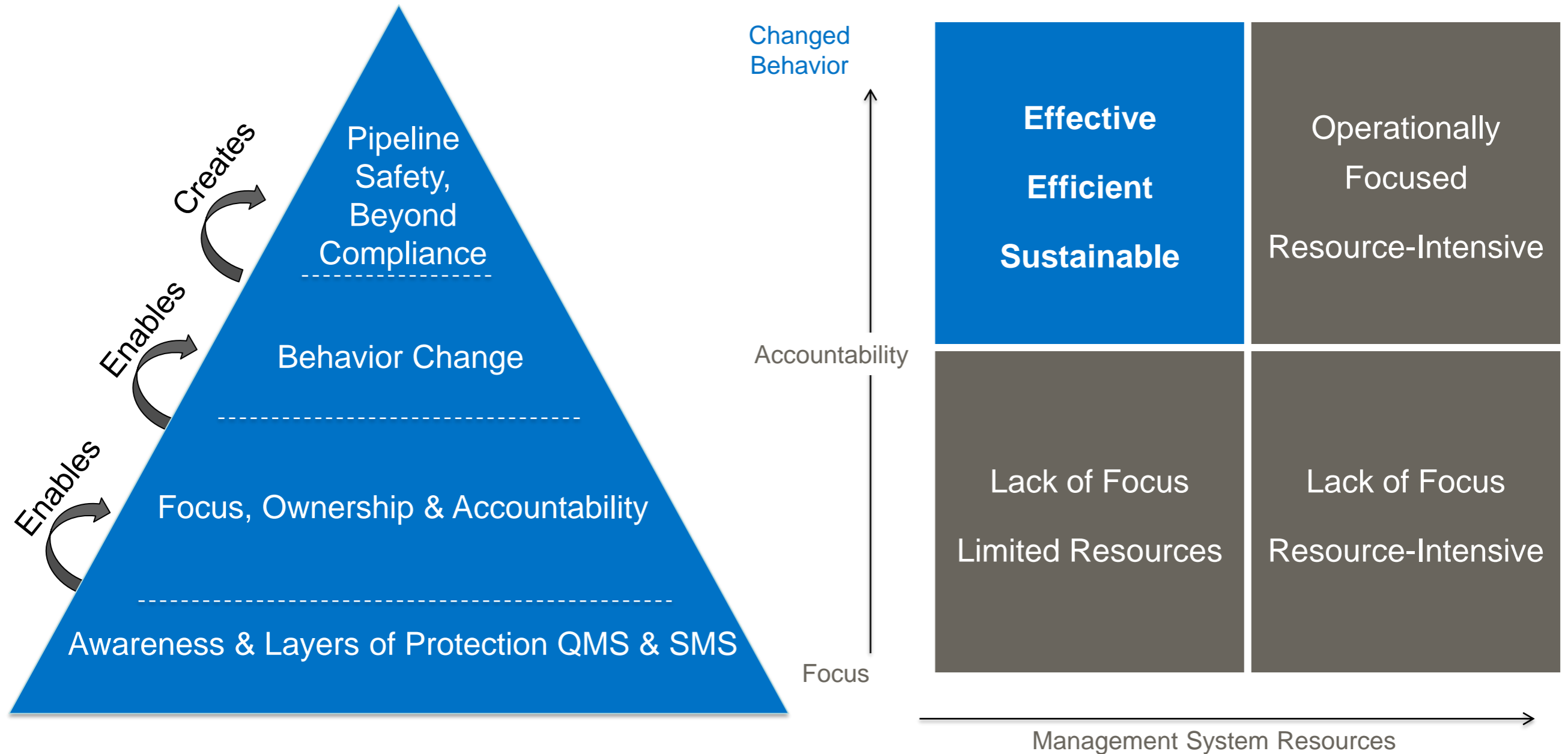
- ✓ Pre-Job Briefs
- ✓ Post Job Assessments
- ✓ Pre-Startup Safety Reviews



Framework for Safety Culture Transformation

Safety Culture Leadership

Safety Culture Transformation



Enhanced Operational Focus & Accountability Underpinned by QMS & SMS

QA/QC & Safety Management

QMS & SMS MUST are ***complementary*** NOT competing and must be constructed to inform each other in the true spirit of continuous improvement.....



Thinking Beyond the *Word* Compliance

Doing the Right Thing.....

Speak-Up !

Listen-Up !!

Follow-Up !!!

*Applies to Every Decision You Make and
Every Action You Take*



THANK YOU!

