

INDUSTRY PERSPECTIVE

PETROBRAS APPROACH TO ASPECTS OF ASSET INTEGRITY / PROCESS SAFETY

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The presentation may contain forecasts about future events. Such forecasts merely reflect the expectations of the Company's management. Such terms as "anticipate", "believe", "expect", "forecast", "intend", "plan", "project", "seek", "should", along with similar or analogous expressions, are used to identify such forecasts. These predictions evidently involve risks and uncertainties, whether foreseen or not by the Company. Therefore, the future results of operations may differ from current expectations, and readers must not base their expectations exclusively on the information presented herein. **The Company is not obliged to update the presentation/such forecasts in light of new information or future developments. All projects forecasted herein are subject to approval by the appropriate stakeholders.**

CAUTIONARY STATEMENT FOR US INVESTORS

The United States Securities and Exchange Commission permits oil and gas companies, in their filings with the SEC, to disclose only proved reserves that a company has demonstrated by actual production or conclusive formation tests to be economically and legally producible under existing economic and operating conditions. **We use certain terms in this presentation, such as oil and gas resources, that the SEC's guidelines strictly prohibit us from including in filings with the SEC.**

- PETROBRAS IN NUMBERS
- PROCESS SAFETY
- ASSET MANAGEMENT
- PROCESS SAFETY X INTEGRITY

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PETROBRAS IN NUMBERS

Totally Integrated Company



Exploration & Production

- Oil and Gas Production: 2,4 million boe/d
- Oil Fields: 293
- 96% of Brazilian production
- 34% of total production in deep and ultra-deep water

Downstream

- 12 refinery in Brazil
- Capacity: 2.0 million bpd
- Oil Production in Brazil: 1,997 thousand bpd

Distribution

- 7.642 service stations
- 38,1% share in Brazilian market
- 20% of gas stations in Brazil

Gas & Energy

- 9,190 km of gas pipeline
- Natural Gas: 74,9 million m³/d
- 3 LNG plant of total capacity of 41 million m³/d
- 7,028 MW of Power Generation

International

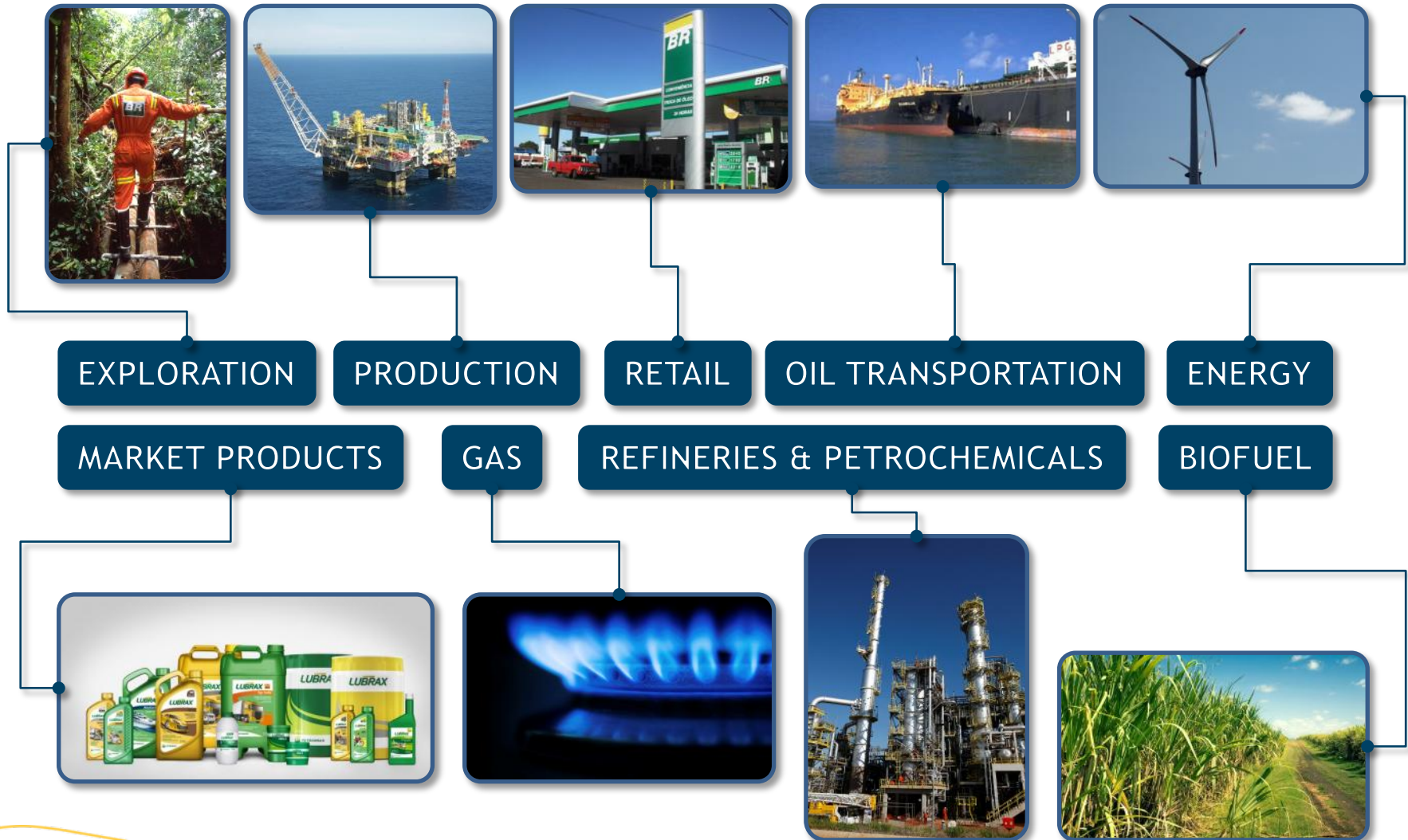
- 17 countries
- Proven reserves: 0,7 Bi boe (SPE)
- Oil and Gas Production: 235 mil boed
- Refinery capacity: 231 mil bpd

Biofuels

- 3 Biodiesel plants
- Alcohol – New markets
- Largest producer of biodiesel in Brazil
- 3rd largest producer of ethanol in Brazil

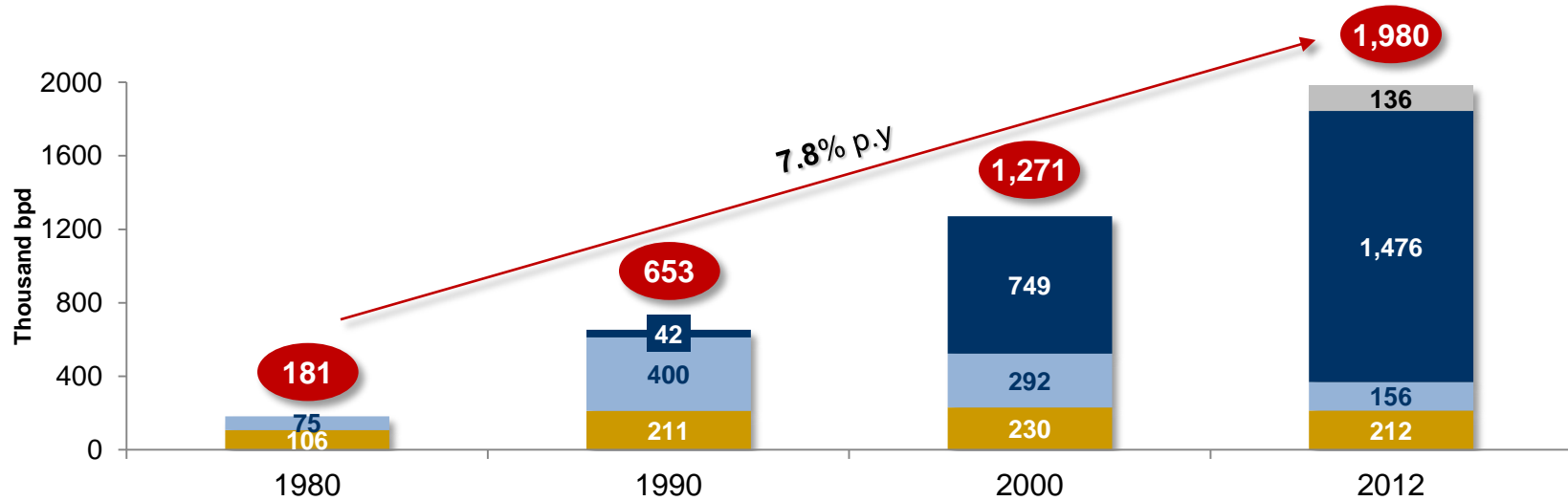
PETROBRAS BUSINESS AREAS

Totally Integrated Company



PRODUCTION

Long History of implementing offshore projects in Brazil



191 offshore units (45 floating) • **68** offshore rigs • **63** onshore rigs



Onshore
Rig



Onshore
Facilities



Fixed
Platform



Shallow
Water



FPSO
Deep Water



FPSO
Ultra Deep Water



Reserves

- Proven reserves **12.3** billion boe (SEC)
- Internal Reserve Replacement >100% in the last 21 years

Production

- **2,355** thousand boed

Exploratory Area

- **168** Exploration Blocks
- **21** sedimentary basins

Human Resources

- **27.000**



E&P Installations

- **9** Operations Units
- **9,689** wells
- **262** Onshore Production Facilities
- **8** GPP (Gas Processing Plant)
- **114** Platforms
- **28** FPSO

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PROCESS SAFETY

Petrobras' HSE Policy and 15 Guidelines

HEALTH, SAFETY AND ENVIRONMENTAL POLICY

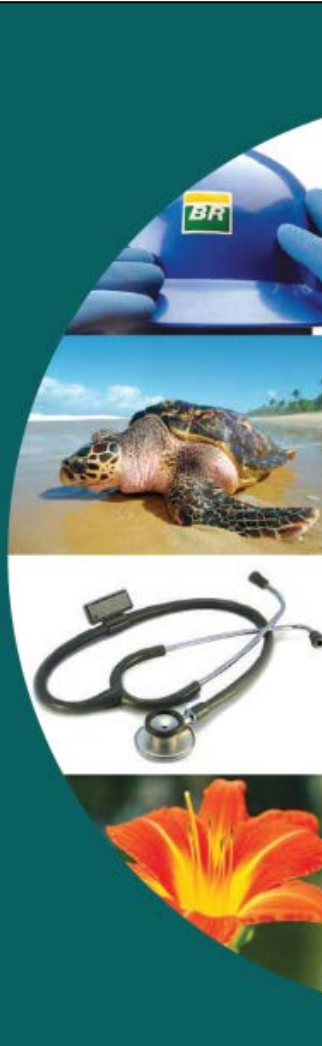
Educate, train and commit employees on questions of HSE, involving suppliers, communities, regulatory authorities, unions and other interested parties;

Promote reporting and investigation of HSE issues, and consider HSE performance into consequence and recognition systems;

Promote health, the protection of human life and the environment, through risk identification, control and monitoring, bringing safety procedures into line with the best international practices and maintain a permanent state of readiness for emergencies;

Ensure the sustainability of projects, undertakings and products over their life cycle, considering the impacts and benefits from an economic, environmental and social viewpoint;

Consider the ecoefficiency of operations, minimizing the local adverse impacts inherent in the activities of the industry.

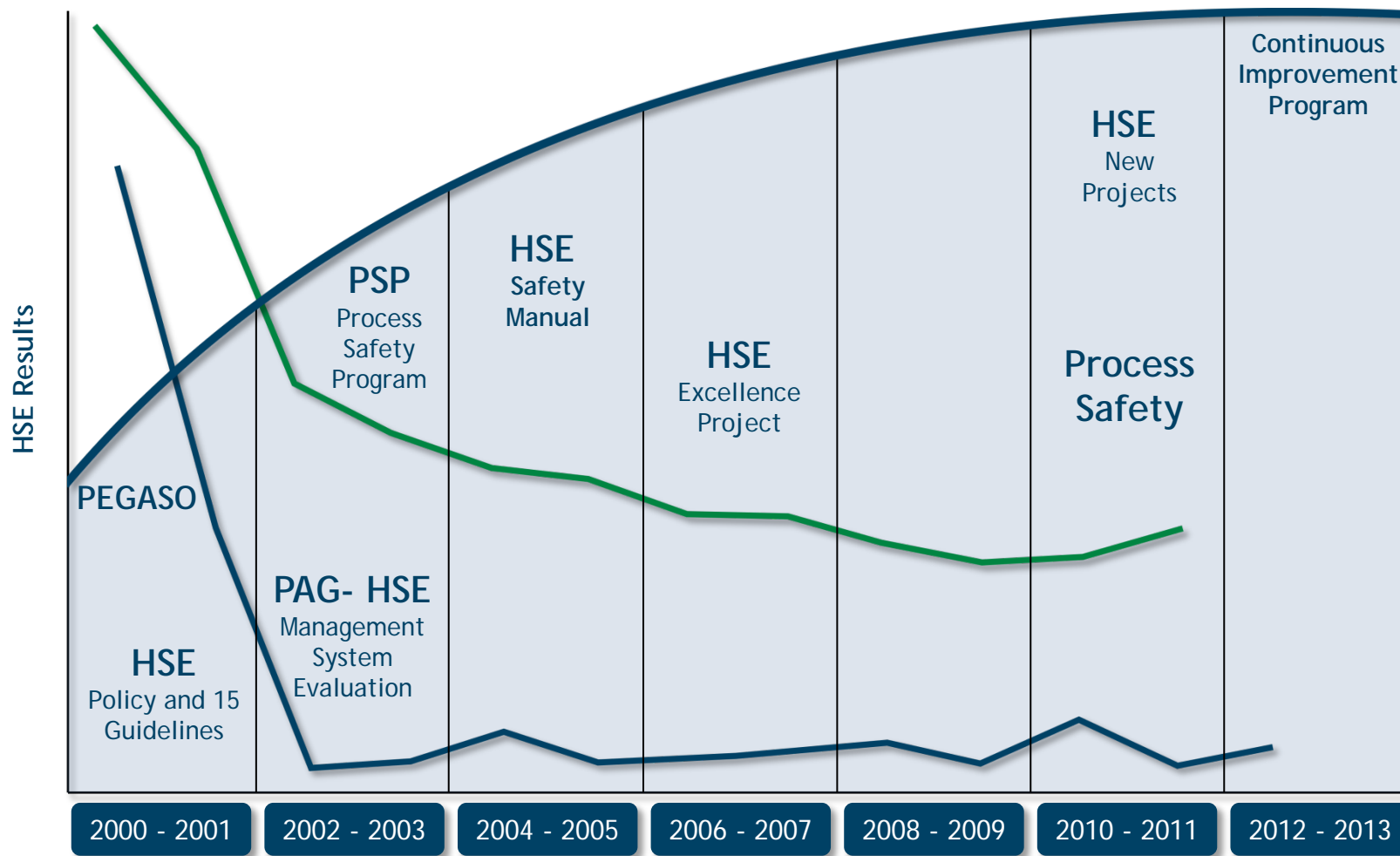


GUIDELINES

- 1 Leadership and Accountability
- 2 Regulatory Compliance
- 3 Risk Evaluation and Management
- 4 New Projects
- 5 Operations and Maintenance
- 6 Management of Change
- 7 Acquisition of Goods and Services
- 8 Training, Education and Awareness
- 9 Information Management
- 10 Communication
- 11 Contingency
- 12 Community Relations
- 13 Accident and Incident Analysis
- 14 Product Stewardship
- 15 Assessment and Continuous Improvement

PROCESS SAFETY

Petrobras' HSE Results





Management of Change

PROCESS

PROCESS
PLANT

EQUIPMENT
INSTALLATION

TRANSPORT

Engineering and Design

Risk Analyzes

Management of Change

Maintenance and Inspection

Alarms and Process Control

Operational Procedures

Human Factor

PEOPLE



Procedures

Safety analyze of tasks

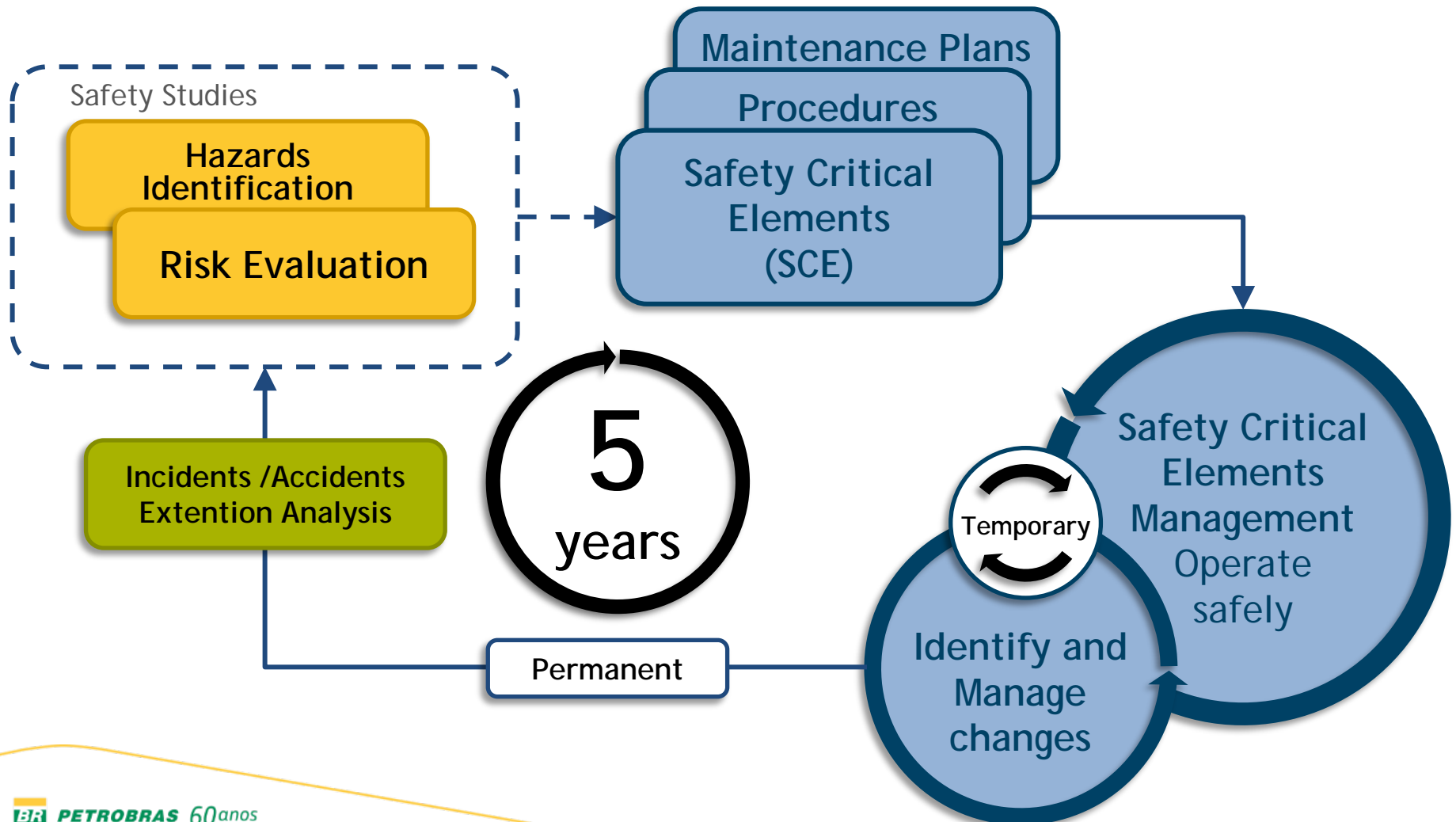
Qualification/ Training

Behavior

Workplaces

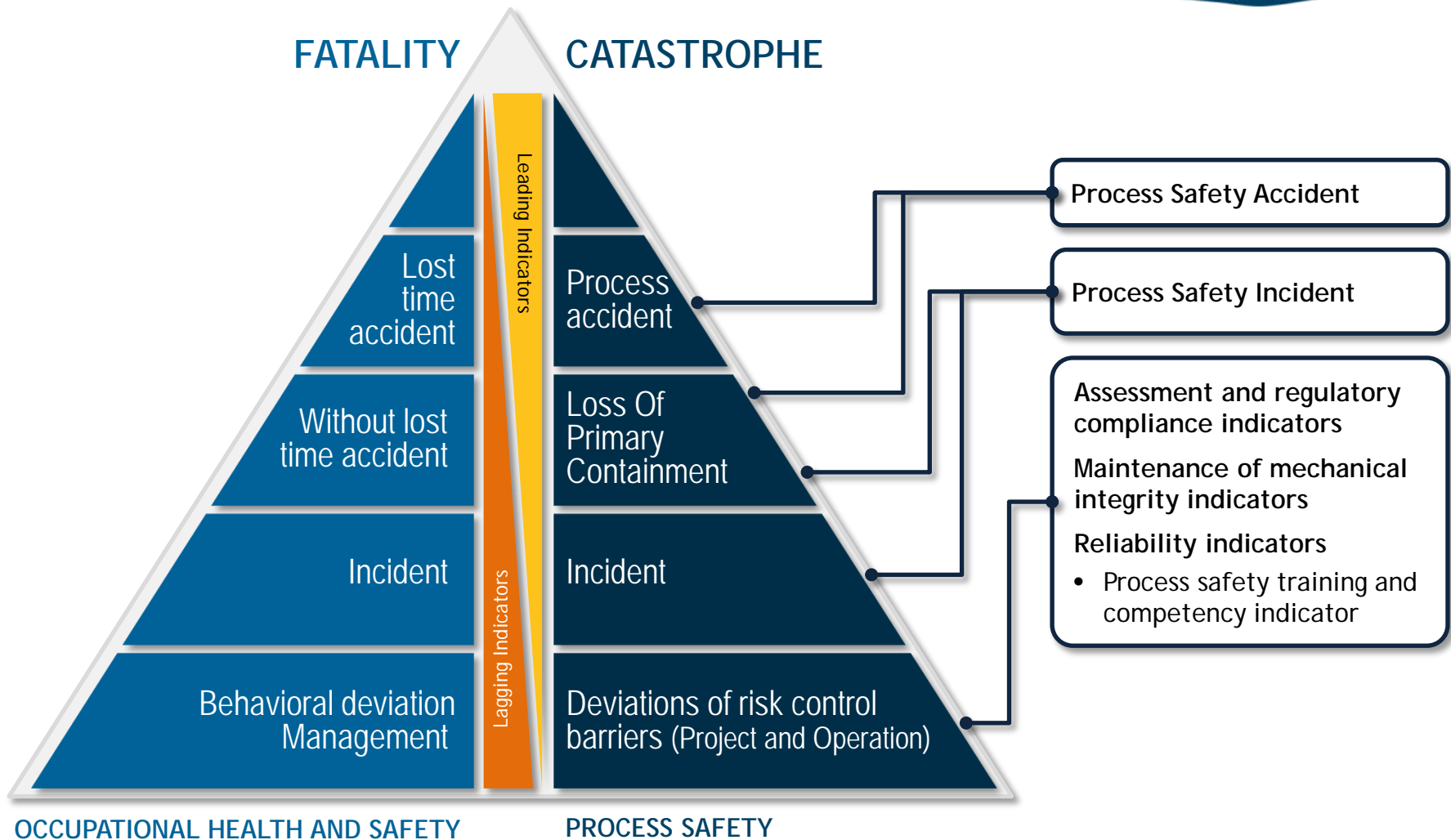
Organizational factor

Process Safety Guidelines and Policies



PROCESS SAFETY

Indicators



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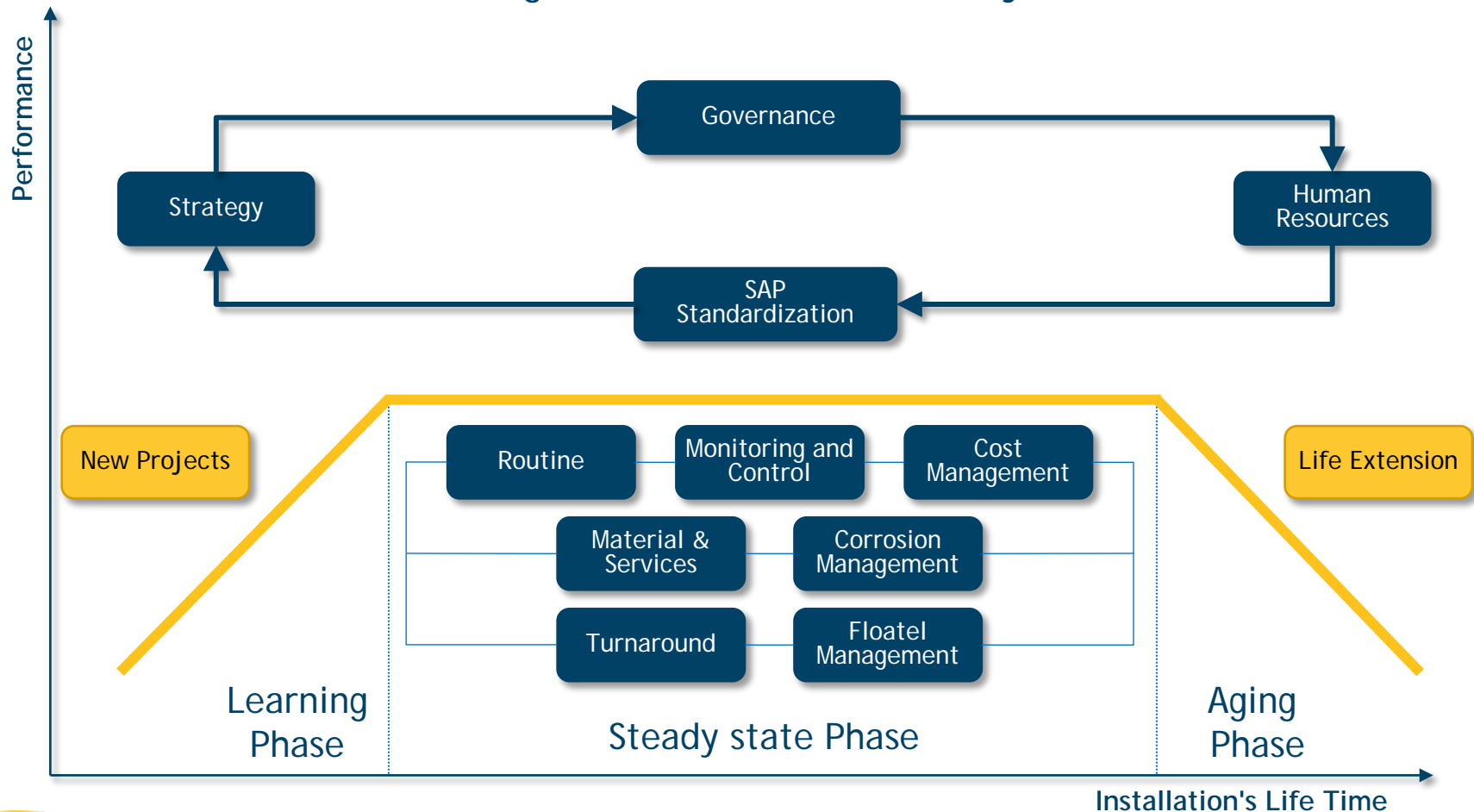
The Petrobras's Asset Integrity management strategy, for the present days and for the future, is supported by two initiatives:

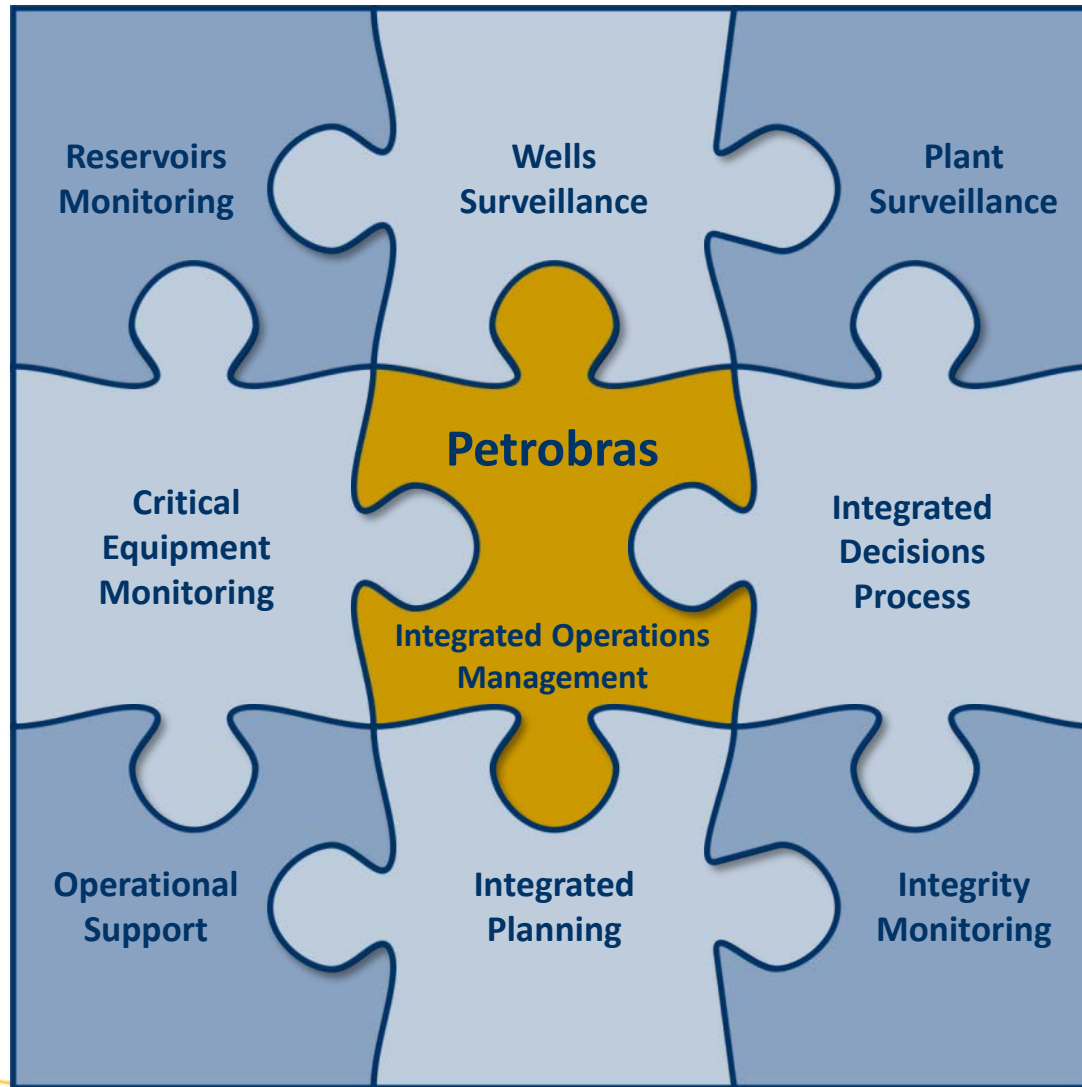
1. **E&P Asset Integrity Management**
2. **GLOp (IO)**
Integrated Operations Program



E&P Asset Integrity Management

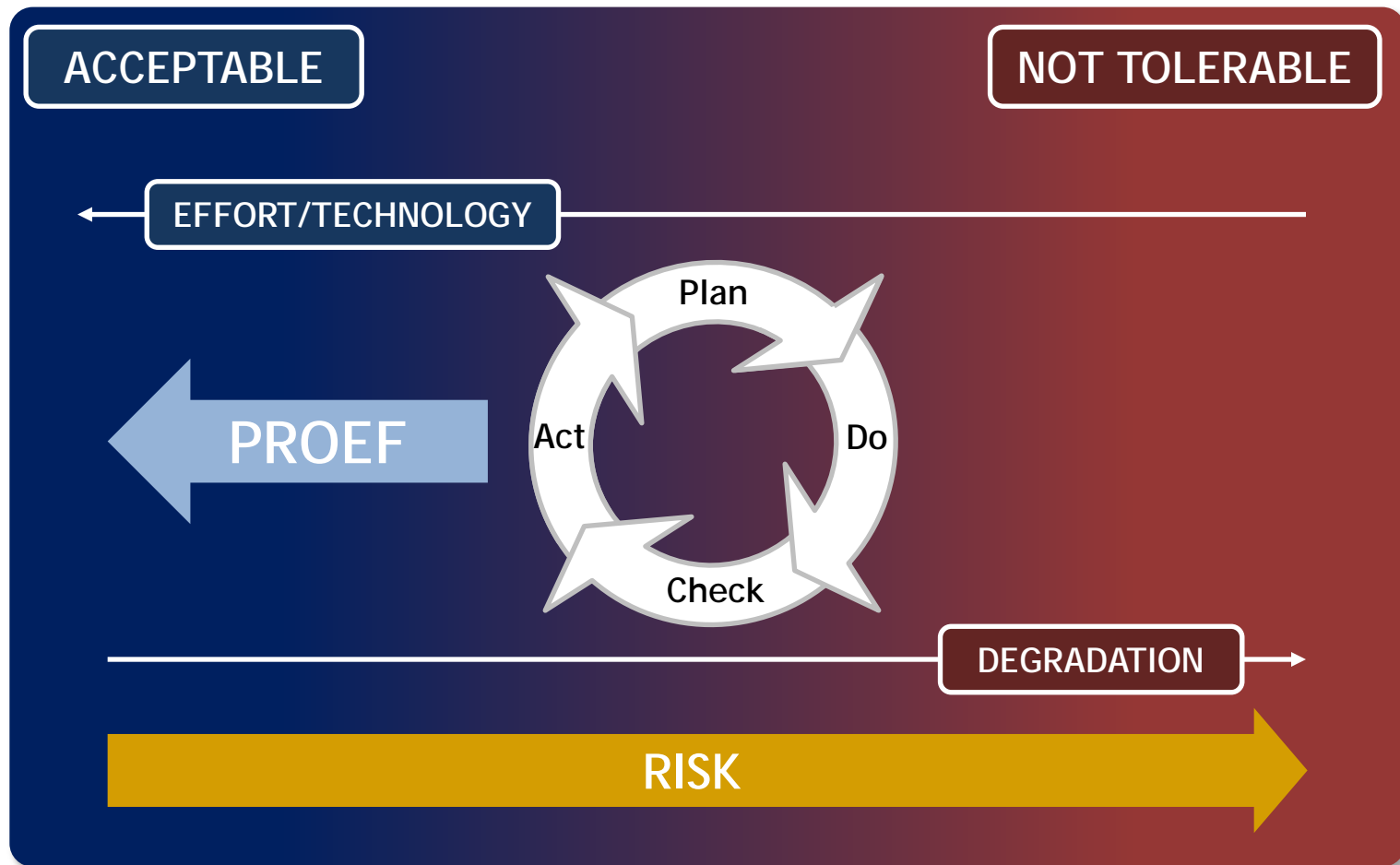
Management and Technical Projects:





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PROCESS SAFETY x ASSET INTEGRITY



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Thank you!



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