



Innovarpel 2025

TECHNICAL DAYS

**DIGITAL TRANSFORMATION
& INDUSTRIAL CYBERSECURITY**
IN THE OIL&GAS INDUSTRY

arpel 

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Rio de Janeiro, Brazil

Real-Time Optimization in Refineries

William Pilaszek – Mora Puricelli

Jefe de planta – Ingeniera de planificación operativa

YPF SA

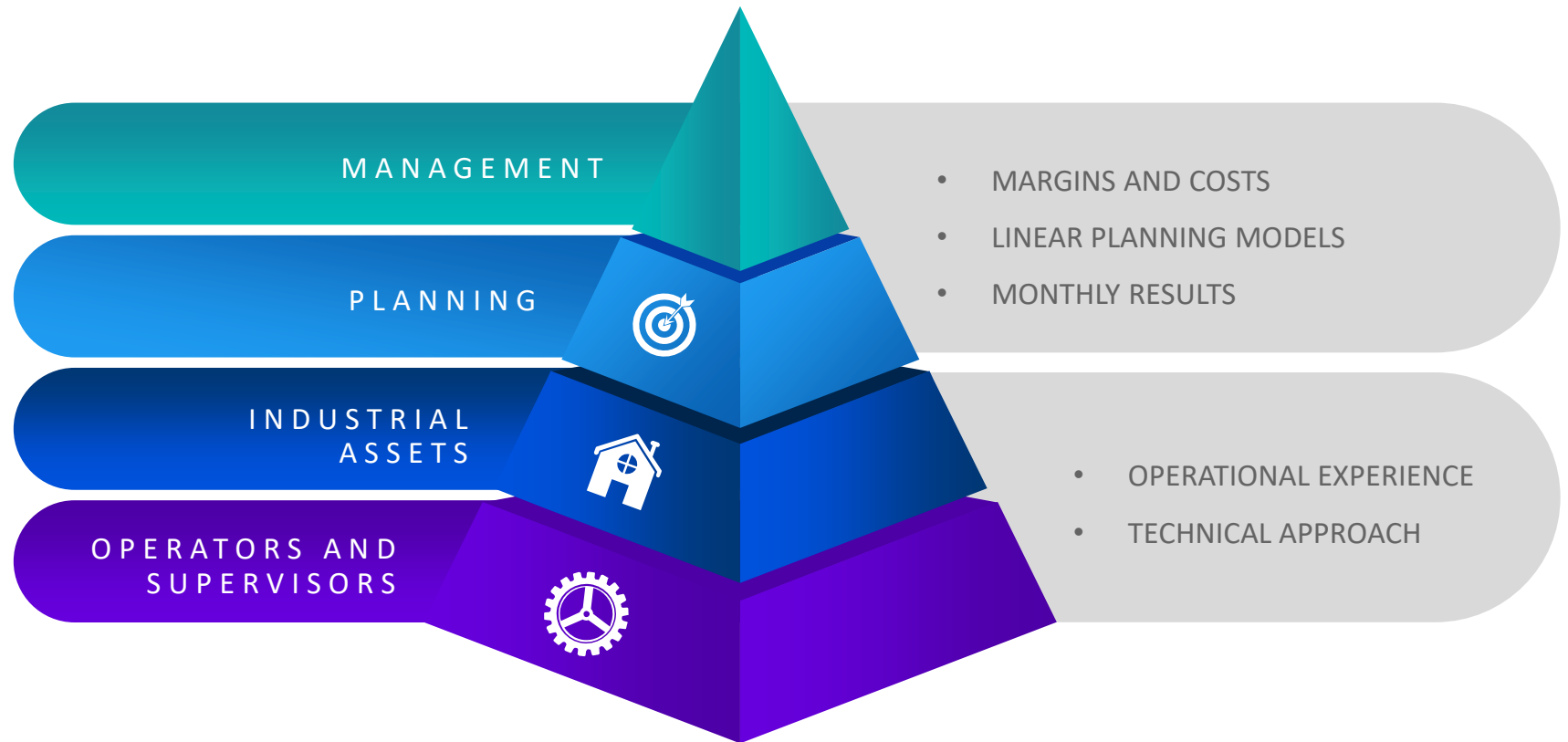
NEED FOR CHANGE

Pursuit of cultural change focused on operational excellence and margin maximization

Minimizing the gap between these approaches leads to cost reduction and asset value enhancement.

Beginning of cultural change.

Development of a tool to optimize operational decisions and maximize economic benefits.



Incorporation of tools to align the vision and strengthen commitment to financial outcomes

Maximize **adherence time** to operational guidelines.

Minimize reprocessing and quality giveaways

Guide operations toward the production of **high-value products**

Ensure the **correction of deviations** in the shortest possible time.



Evolution in the way operations are monitored and optimized

TRACKING THE LOCAL OPTIMUM



EARLY DEVIATION DETECTION

Proactive deviation management.



EVENT LOGGING AND REDUCTION OF TIME OUTSIDE THE OPTIMUM

Measurement and benchmarking against standards



CHALLENGING EXISTING STANDARDS

Proposing alternatives to minimize event and intervention times



REDUCTION OF OPERATING COSTS

Minimize total energy consumption through efficient use of resources



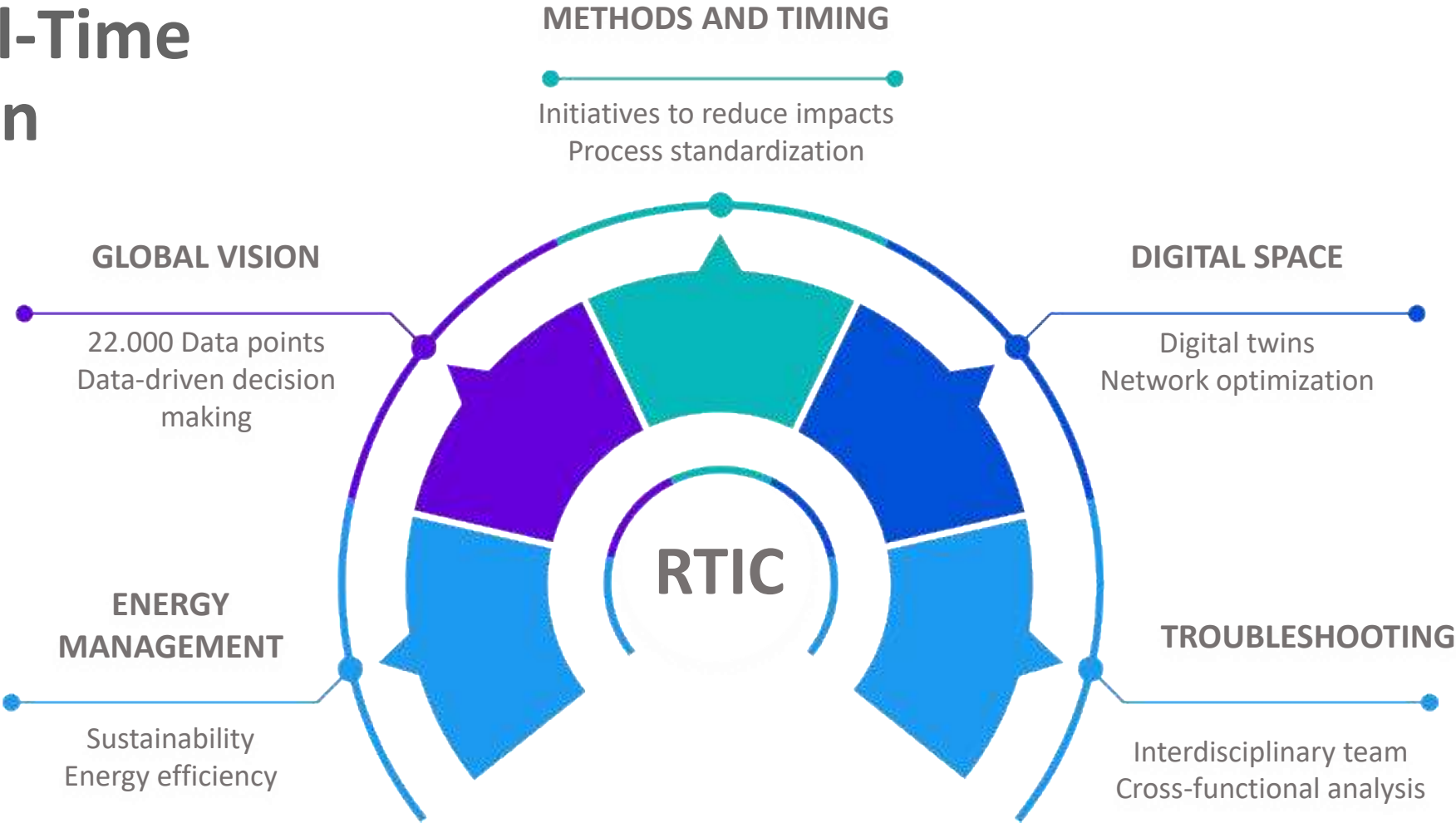
UNBLOCKING BOTTLENECKS

Identify operational constraints and generate initiatives to maximize efficiency

REAL-TIME GLOBAL OPTIMIZATION

OPTIMIZATION TRANSFORMATION

Axes of Real-Time Optimization





[Click here to access the video.](#)

REAL TIME INTELLIGENCE CENTER

COMPLEJO INDUSTRIAL LA PLATA

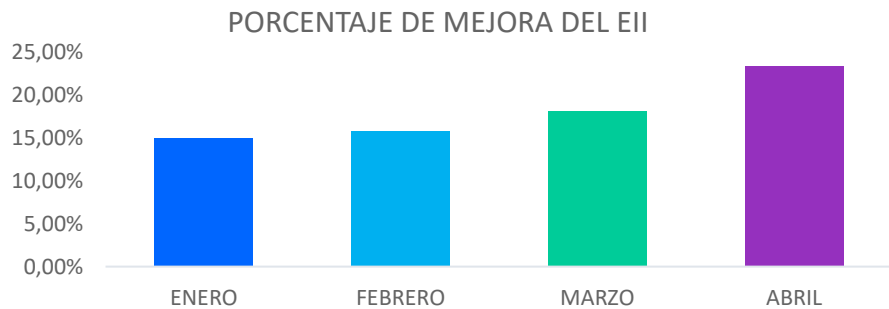
RESULTS

Reduced variability in quality parameters



+1 USD/BBL

Energy savings



- GAS RECOVERY
- EFFICIENCY IMPROVEMENT IN FURNACES AND BOILERS
- STEAM CONSUMPTION REDUCTION

Reduction in deviation times



Thank you very much!

 William Pilaszek

 William.n.pilaszek@ypf.com

 Mora Puricelli

 Mora.puricelli@ypf.com



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