



# Innovarpel 2025

SECOND EDITION

TECHNICAL DAYS

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

# AGENDA

JUNE, 24 & 25  
2025

Hilton Copacabana Hotel.  
Rio de Janeiro, Brazil

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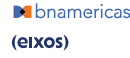
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60<sup>TH</sup> ANNIVERSARY  
CELEBRATION



ASSOCIATION OF OIL, GAS  
AND RENEWABLE ENERGY  
COMPANIES OF LATIN AMERICA  
AND THE CARIBBEAN

7:30 - 9:00 am **Registration**

9:00 - 9:30 am **Opening**

## BLOCK 1

### Digital Transformation and Operational Efficiency

This module will explore how digitalization is revolutionizing operations in the oil and gas industry. Technologies such as IoT, big data and predictive analytics, automation and robotics will be discussed.

9:30 - 10:00 am

#### KEYNOTE 1

### Challenges and Opportunities of the Digital Transformation in the Oil&Gas Industry

**Tatiana Escovedo**, General Manager of Digital Transformation | **Petrobras**

10:00 - 10:15 am **SMER - Use of Industrial Home Automation for Monitoring Communications in Gas Pipelines**  
Eduardo Mascaro | TGN

10:15 - 10:30 am **How to increase asset reliability and operational performance by leveraging machine learning**  
María Noel Forame | YPF

10:30 - 10:45 am **Optimizing Equipment Inspection Strategies using integrity-related Big Data**  
Jeff Goldstein | Becht

10:45 - 11:00 am **SAP-FUELFACS: The challenge of integration**  
Javier Espinola | Petropar

11:00 - 11:15 **Q&A session**

11:15 - 11:45 am **COFFEE BREAK**

11:45 - 12:00 am **Consumption Forecasting in Natural Gas Transportation Operations Using Machine Learning (ML) Techniques such as XGBoost**  
Marcus Nogueira | TAG

12:00 - 12:15 pm **Optimax: real-time decision-making tool for refineries**  
Mora Puricelli | YPF  
William Pilaszek | YPF

12:15 - 12:30 pm **Remote Operation and Supervision of Assets (Remote participation)**  
Nicolás Brunini | Pan American Energy  
Sebastián Federico | Pan American Energy

12:30 - 12:45 pm **Driving Production Efficiency at Scale: Data-driven Virtual Flowmeters and Condition-Based Testing in Action**  
Gerardo Colo | Alamo Analytics

12:45 - 1:00 pm **Q&A session**

1:00 - 2:15 pm **LUNCH**

2:15 - 3:00 pm PANEL 1

### **New frontiers - Industry 4.0 and its impact on the energy sector**

**Melissa Fernandez** | IBP

**Bruno Ruyu** | Teramot

**Rachael Moreland** | S&P Global

**Moderator: Tiphaine Le Moenner** | Arpel

#### **BLOCK 2**

### **Industrial Cybersecurity in the Digital Era**

Given the increasing digitalization, this module will focus on cybersecurity challenges and solutions within the oil and gas industry.

3:00 - 3:30 pm

#### **KEYNOTE 2**

### **The evolution of cybersecurity in O&G: from Industrial Control Systems (ICS) to Cyber-Physical Systems (CPS)**

**Marcelo Branquinho**, CEO and Founder | **TISafe**

3:30 - 4:00 pm **COFFEE BREAK**

4:00 - 4:15 pm **Cybersecurity as an Essential Component of a Comprehensive Maintenance Program**

**Roberto Guerrero** | Honeywell

**Gonzalo Jacome** | EP Petroecuador

4:15 - 4:30 pm **Digital Blindness: The First Enemy in Cybersecurity**

**Manuel Benitez Pino** | Petropar

4:30 - 4:45 pm **Implementing a cybersecurity program in industrial environments: The strategy to address common challenges and achieve better results**

**Tonny Siqueira** | Petrobras

4:45 - 5:00 pm **Anatomy of a Cyberattack**

**Alexander Fonseca** | RECOPE

5:00 - 5:15 pm **Q&A session**

5:15 - 6:00 pm PANEL 2

### **Organizational Culture and Cybersecurity Awareness**

**Eduardo Mascaro** | TGN

**Pedro Vieira** | Petrobras

**Roberto Guerrero** | Honeywell

**Moderator: Marcelo Branquinho** | TISafe

6:00 pm **INNOVARPEL - END OF DAY 1**

6:30 - 7:30 pm Kick-off Meeting of Arpel's Digital Transformation Committee  
(Committee delegates only)

## Day 2

# June 25

### BLOCK 3

#### Sustainability, Energy Transitions, and Decarbonization

This module will discuss how disruptive technologies can facilitate a transition towards more sustainable practices in the oil and gas industry, in particular technologies applicable to the detection, measurement and management of greenhouse gas emissions and leaks.

9:00 - 9:30 am

#### KEYNOTE 3

#### Digitalization of the oil and gas industry: Driving sustainability for a low-carbon energy

**Carolyn Seto**, Executive Director of Energy Technology and Innovation | **S&P Global**

9:30 - 9:45 am **Artificial Intelligence Applied to Energy Efficiency in the Oil Sector**  
Luis Angel Herdoíza | EP Petroecuador

9:45 - 10:00 am **Geopark's Path to Decarbonization (Remote participation)**  
Santiago Martínez Ochoa | GeoPark

10:00 - 10:15 am **Data Fusion – Integrity Assessments of Metal Loss Using MFL-A and MFL-C Data Fusion Based on Three-Dimensional Corrosion Profiles**  
Rafael Almeida | Rosen

10:15 - 10:30 am **Use of digital tools in pipeline leak detection using TVA**  
Juan Manuel Benítez | YPF

10:30 - 10:45 am **Q&A session**

10:45 - 11:15 am **COFFEE BREAK**

### BLOCK 4

#### Artificial Intelligence and Automation in Decision-Making

This module will focus on how Artificial Intelligence (AI) and automation are improving real-time decision making, optimizing processes and reducing risks.

11:15 - 12:00 pm **PANEL 3**

#### Preparing the Workforce: Skills Needed for an AI-Powered Future

**Karen Cubas** | IBP

**Kishore Krishnankutty Nair** | Honeywell

**Dorlysu Moreno** | YPF

**Eduardo Soria** | Rosen

**Moderator: Jennifer Miskimins** | SPE & Colorado School of Mines

12:00 - 12:15 pm **Case Study on the Role of Generative Artificial Intelligence in Process Safety Decision-Making**  
Albert Tasia Francis | TEMA

12:15 - 12:30 pm **Use Case of a Customized Chatbot Based on Documentation and Applications in Refineries,**  
Emiliano Cassino | YPF

12:30 - 12:45 pm **Operationalization of Gas Transportation in Brazil's New Gas Market**  
Rachel Miranda | TAG  
Bernardo Duque | Emerson

12:45 - 1:00 pm **Q&A session**

1:00 - 2:15 pm **LUNCH**

2:15 – 2:30 pm	<b>GeoAI: Artificial Intelligence Applied to Geological Assessment</b> Cinthya Sanchez   GeoPark
2:30 – 2:45 pm	<b>Real Time Intelligence Center (RTIC): operations center for real-time decision-making</b> German Piccin   YPF
2:45 – 3:00 pm	<b>Sigeo: 30 years supporting and transforming the work of the geoscientist</b> Fabio Heuseler   Petrobras
3:00 – 3:15 pm	<b>Use cases of generative AI in E&amp;P</b> Giovanna Carneiro   SLB
3:15 – 3:30 pm	<b>Q&amp;A session</b>
3:30 – 4:00 pm	<b>COFFEE BREAK</b>

## BLOCK 5

### **Culture, Innovation, and Agility: The Path to the Digital Enterprise**

This module will focus on how digitalization is applied to support services of an organization, how methodologies from the IT sector can be used in our industry

4:00 – 4:15 pm	<b>Internal Audit Transformation Journey</b> Silvia Lopes Santa Isabel   Petrobras
4:15 – 4:30 pm	<b>Hackathon turn-arounds: Innovation Applied to Efficiency</b> María Emilia Ruiz   YPF
4:30 – 4:45 pm	<b>Agile Transformation at Petrobras: from IT to Corporate Expansion</b> Henrique Bueno Rodrigues   Petrobras
4:45 – 5:00 pm	<b>Q&amp;A session</b>

5:00 – 5:30 pm

## KEYNOTE 4

### **Using open innovation and digital transformation to shape the future of the energy industry**

Luciene Ferreira Pedrosa | ANP

5:30 – 5:45 pm **INNOVARPEL CLOSURE**

5:45 pm **60<sup>TH</sup> ANNIVERSARY CELEBRATION**

### **Institutional commemorative video for Arpel's 60th anniversary**

**Dr. Faye Gerard.** Energy Transition and Americas Director | IOGP

**Flaubert Matos Machado.** Safety and Environment Executive Manager | Petrobras

**Luciene Ferreira Pedrosa.** Technical Advisor | ANP

**Mr. Mishaal M. Al-Thukair.** General Manager, Ministry of Energy of SAUDI ARABIA

### **Panel celebrating Arpel's 60th anniversary**

**Mr. Pedro Miras Salamanca,** President | WPC Energy

**Dr. Jennifer Miskimins,** President (2026) | SPE International / Department Head Of Petroleum Engineering | Colorado School Of Mines

**Dr. Angela Livino,** Advisor | Olade / Researcher | Fundação Getulio Vargas

**Mr. Carlos Gonzalez,** Vice Chair | Ipieca / Corporate General Manager Of Safety, Environment And Health | Petrobras

**Ms. Cecilia San Román,** President | Ancap

**Moderator: Martín Terrado.** Chief operating officer | Geopark / Chairman of Arpel Board of Directors

7:00 – 9:00 pm **Cocktail Reception and Toast**