

TECHNICAL DAYS

DIGITAL TRANSFORMATION & INDUSTRIAL CYBERSECURITY IN THE OIL&GAS INDUSTRY



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Internal Audit Transformation Journey

Silvia Lopes Santa Isabel

Gerente de Auditoria Digital - PETROBRAS

What comes to your mind when you think of Auditing?



Challenges of Traditional Auditing



Change

Difficulty in keeping up with the speed of digital transformations

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Manual

Analysis

analyzing large

volumes of data

Need for Agility Complexity in

Demands for faster auditing processes



Predictive Insights

Need to predict future trends and outcomes

<u>_</u> **Petrobras**

Context

diverse and

complex

processes

Environment with

Team Qualification

Cultural transformation and development of new skills





Who are you in the **New Digital** Age?

Transformation of traditional practices at Petrobras

(Timeline)



Agile Audit

ROADMAP





Digital Audit







AUDLABS



- What is it?
 - Petrobras Internal Audit Innovation Laboratory
- Concept
 - Foster a culture of innovation
 - Encourage new ideas and creative approaches.
 - Experimentation
 - Implementation of digital solutions
- Operation in Practice
 - Innovation Office
 - Workshops
 - Pilots
 - Partnerships with other areas
 - Study of new technologies

Al Solutions – Case1: Raí: The Internal Audit Robot





AUDLABS Innovation

Intelligent assistant based on GenAI and AI agents.



Features of Raí

Assistant tailored to the context of Internal Audit

By incorporating intelligent agents, Raí gains autonomy to decide the actions necessary to achieve specific results.



Multimodal Repositories

Raí connects to 5 different knowledge bases — auditing standards, internal standards, IT and Cyber best practices, Corporate Risk Map.

Redefining the role of auditors

Processes and analyzes large data sets quickly.

It generates valuable insights.

Creates risk scenarios, identifies vulnerabilities or suggests improvements for process efficiency





Innovarpel 2025

AI Solutions – Case2: Forest Cover Analysis for Carbon Credits

- Use of satellite imagery and AI
 - Advanced technology employment
 - Detailed analysis of forest cover
- Contribution to risk analysis in carbon credits
 - Ensuring data accuracy
 - Reliability in information
- Visual Results
 - Detailed maps
 - Explanatory Charts
- Benefits of the approach
 - Efficiency in analysis
 - Wide range



AI Solutions – Case3: Brand Monitoring on Urban Roads from Panoramic Images

- Monitoring of the Petrobras brand
 - Identification of gas stations
 - Advertising verification
- Detection of irregularities and opportunities
 - Possible irregularities
 - New opportunities
- Benefits for Contract Auditing
 - Increased audit accuracy
- Improved compliance



"Inova Aĺ"

Foster collaboration and a culture of innovation to generate creative solutions and tackle strategic challenges.





Thanks!





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