# DATARIS INTELLIGENCE

## HUMAN AND ARTIFICIAL

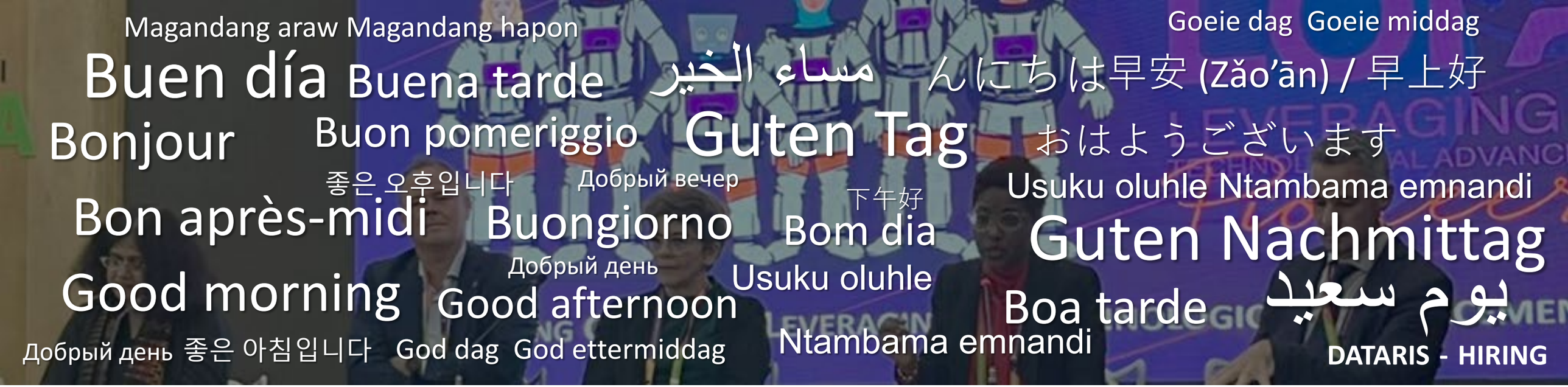
### Artificial Intelligence and Data Analytics

DATARIS is a platform that integrates artificial intelligence and data analytics components to strengthen oversight. Its AI module automates contract analysis, detects links, generates summaries, and verifies deliverables. Data analytics facilitates the validation of invoices, receipts, payrolls, and the integration of various sources of information. Together, DATARIS improves the efficiency, coverage, and depth of audits.

## DATARIS-Hiring

(ChatBot to analyze government contracts in Mexico)

**November 25 del 2025**




Good morning and good afternoon, everyone. First of all, we would like to extend our warmest and most sincere greetings to **Nicol, Chithra and David**, representatives of the International Organisation of Supreme Audit Institutions (INTOSAI). **Their willingness, support and openness to dialogue have been fundamental in strengthening the exchange of knowledge and fostering meaningful collaboration between audit institutions.**

# Agenda

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**05** Chatbot WorkFlow

**06** DATARIS-Hiring demonstration

**07** Testimonials from the Auditors

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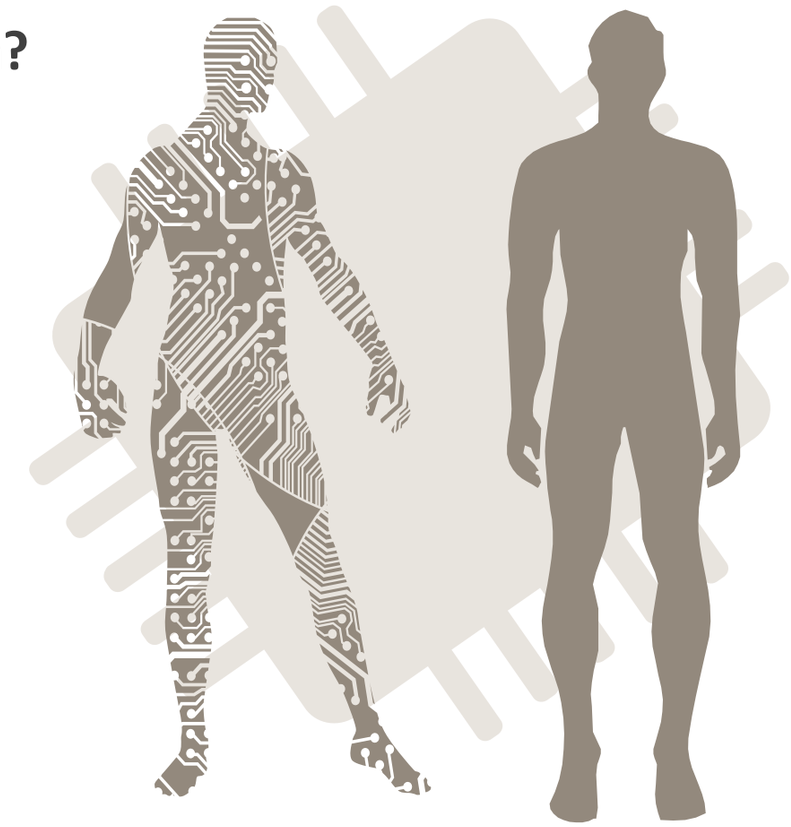


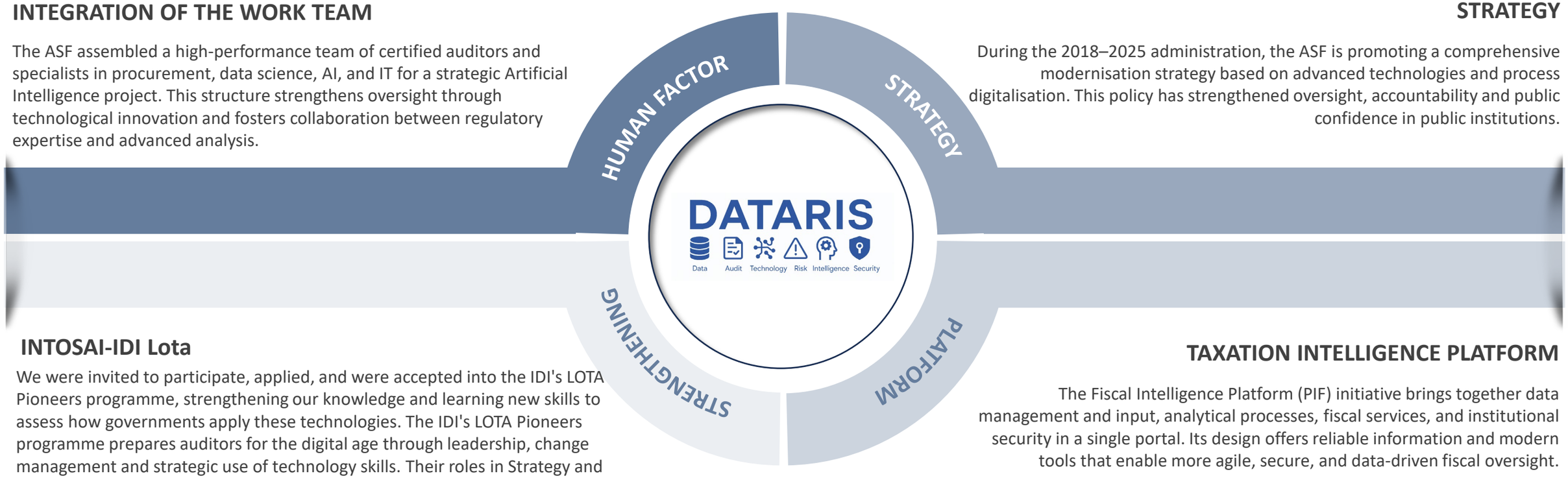
# Where the DATARIS Project Comes From?

The DATARIS Project was created as a strategic response by the ASF to strengthen oversight through emerging technologies, data science, and artificial intelligence. Its origins bring together a multidisciplinary team of auditors and specialists, as well as lessons learned through international initiatives such as INTOSAI-IDI Lota. DATARIS is linked to institutional modernisation and the creation of the Audit Intelligence Platform, unifying processes, analysis and data management. In this way, the ASF promotes more agile, accurate and transparent auditing, strengthening accountability and public confidence.

**DATARIS - HIRING**

## INTEGRATION OF THE WORK TEAM

The ASF assembled a high-performance team of certified auditors and specialists in procurement, data science, AI, and IT for a strategic Artificial Intelligence project. This structure strengthens oversight through technological innovation and fosters collaboration between regulatory expertise and advanced analysis.




## STRATEGY

During the 2018–2025 administration, the ASF is promoting a comprehensive modernisation strategy based on advanced technologies and process digitalisation. This policy has strengthened oversight, accountability and public confidence in public institutions.

## INTOSAI-IDI Lota

We were invited to participate, applied, and were accepted into the IDI's LOTA Pioneers programme, strengthening our knowledge and learning new skills to assess how governments apply these technologies. The IDI's LOTA Pioneers programme prepares auditors for the digital age through leadership, change management and strategic use of technology skills. Their roles in Strategy and Audit enable them to analyse the institutional environment and integrate technological tools.

## TAXATION INTELLIGENCE PLATFORM

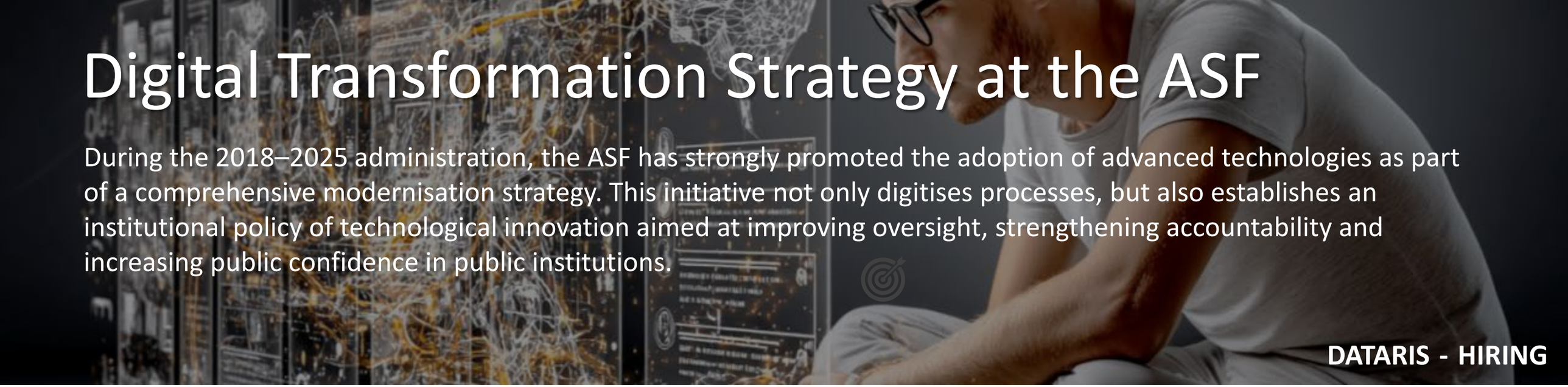
The Fiscal Intelligence Platform (PIF) initiative brings together data management and input, analytical processes, fiscal services, and institutional security in a single portal. Its design offers reliable information and modern tools that enable more agile, secure, and data-driven fiscal oversight.

# Integration of the Working Group

A high-performance team was formed at the ASF for a strategic Artificial Intelligence project, integrating profiles from different audit and administrative units. Based on a SWOT analysis and individual capabilities, certified auditors, specialists in procurement, data science, AI, and information technology were selected. The objective is to strengthen oversight through technological innovation. This structure fosters inter-institutional collaboration and synergy between regulatory experience and advanced analytics. Thus, the ASF is driving its institutional transformation with AI and specialised talent.

**DATARIS - HIRING**

Marco Antonio
Jesús
José Andrés
Álvaro
Raúl
Karla Lorena
Saúl
Omar
Esoj
Carlos Alejandro
Misael Edgar
Viridiana
Armando
Fernando
Aura Selene
Nohema
Jazmin Gabriela
Genaro Héctor
Enrique



# Digital Transformation Strategy at the ASF

During the 2018–2025 administration, the ASF has strongly promoted the adoption of advanced technologies as part of a comprehensive modernisation strategy. This initiative not only digitises processes, but also establishes an institutional policy of technological innovation aimed at improving oversight, strengthening accountability and increasing public confidence in public institutions.

**DATARIS - HIRING**

## ORDERS

The ASF promotes the responsible implementation of artificial intelligence (AI) in oversight processes through a gradual and secure approach that leverages the existing legal framework, establishes internal ethical guidelines, and starts with low-risk pilot projects that validate its usefulness without compromising rights. At the same time, it must strengthen national and international institutional partnerships to improve the governance and legitimacy of AI solutions, rigorously document the entire process to ensure transparency and accountability, and remain alert to emerging initiatives and regulations—such as those of the EU, OECD, and UNESCO—in order to anticipate, align, and ensure global interoperability.

## WORKING FRAMEWORK

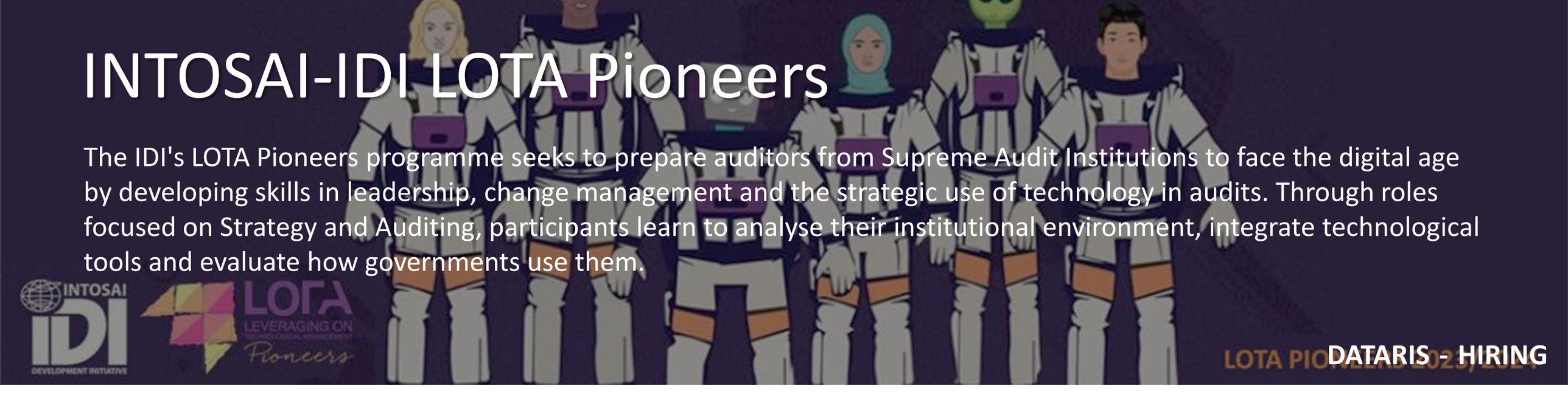
The Federal Superior Audit Office will adopt an AI governance model aligned with ISACA's AI Governance Toolkit to ensure that all artificial intelligence solutions used in audit processes, data analytics, audit prioritisation and institutional support operate with the highest standards of ethics, security, transparency and accountability. To this end, the ASF will establish a formal institutional structure—with committees, roles, and lines of responsibility—to direct the strategic use of AI from senior management, ensuring its integration with the objectives of higher-level auditing, combating corruption, and evaluating government performance.

## ARCHITECTURE

The IT strategy consists of starting with a robust foundational model and extending its capabilities through fine-tuning with highly curated internal data, so that the organisation obtains a model adapted to its domain without assuming the costs or complexity of building one from scratch. To achieve this, specific applications must be defined, a robust data retrieval and prompt engineering process must be established, and training, validation and continuous improvement cycles must be created to ensure that the adjusted model responds with greater accuracy, alignment and usefulness in use cases that are critical to the institution..

## PROJECT PORTFOLIO

DATARIS consolidates a portfolio of solutions geared towards intelligent auditing, integrating advanced artificial intelligence modules to automate contract analysis, detect possible relevant links, generate executive summaries, and verify the consistency of deliverables. It complements these capabilities with specialised data analytics to validate invoices, receipts, and payrolls, as well as to integrate multiple sources of institutional information. Together, its projects strengthen the efficiency, coverage, and depth of audits, providing audit areas with modern, reliable, and scalable tools.



# INTOSAI-IDI LOTA Pioneers

The IDI's LOTA Pioneers programme seeks to prepare auditors from Supreme Audit Institutions to face the digital age by developing skills in leadership, change management and the strategic use of technology in audits. Through roles focused on Strategy and Auditing, participants learn to analyse their institutional environment, integrate technological tools and evaluate how governments use them.

**DATARIS - HIRING**

**01**

**Reaffirming the value of technology in auditing**

The ASF team recognised the importance of integrating digital tools into audit work and gained a better understanding of their potential to transform audit processes.

**02**

**Strengthening institutional capacities**

The LOTA Pioneers programme helped develop leadership and change management skills within the institution, which are essential for driving digital transformation.

**03**

**Recognition of DATARIS' potential**

The value of this platform was highlighted, as it combines artificial intelligence and data analytics to automate processes, validate information, and deepen the analysis of contracts and documents.

**04**

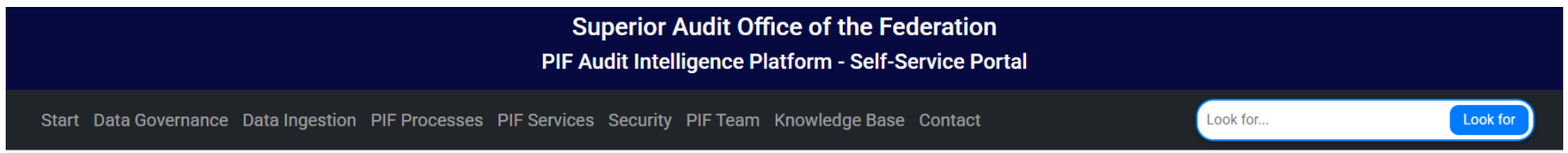
**Complementarity between LOTA and DATARIS**

The team understood that LOTA's strategic training and DATARIS's technological capabilities reinforced each other to improve the efficiency, coverage, and quality of audits in a digital environment.

# Tax Enforcement Intelligence Platform

The ASF's Fiscal Intelligence Platform (PIF) integrates data management, data entry, analytical processes, audit services and institutional security into a single portal. Its design facilitates access to reliable information and modern tools to support audit work. Overall, the PIF promotes more agile, secure and data-driven auditing.

**DATARIS - HIRING**



# What is DATARIS?

DATARIS is a platform that integrates artificial intelligence and data analytics components to strengthen oversight. Its AI module automates contract analysis, detects links, generates summaries, and verifies deliverables. Data analytics facilitates the validation of invoices, receipts, payrolls, and the integration of various sources of information. Together, DATARIS improves the efficiency, coverage, and depth of audits.

**DATARIS - HIRING**

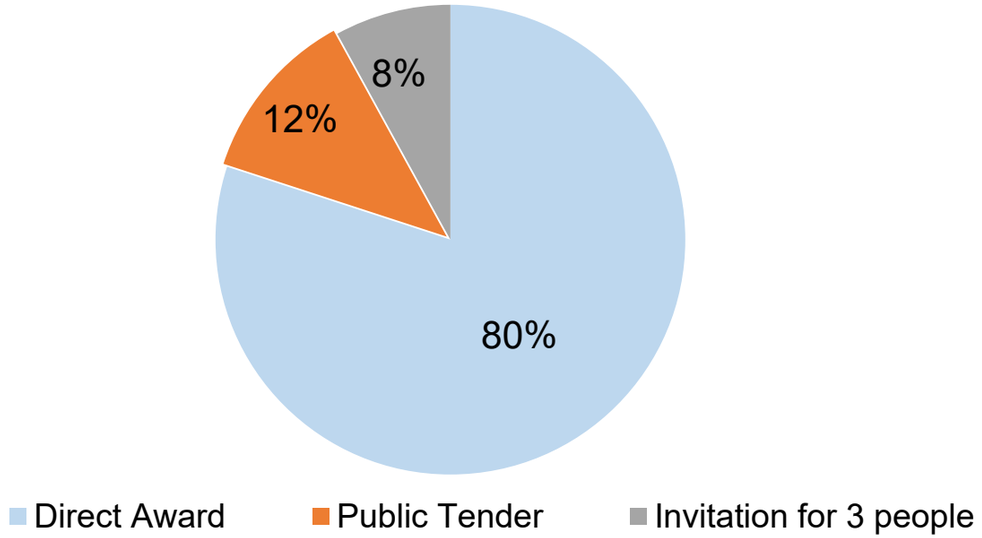
| LYRICS | KEY WORD | ASSOCIATED MEANING |
|---|---|---|
| D | Data | Central focus of the project: collection, analysis and management of information. |
| A | Audit | Technical application for auditing, supervision, and accountability. |
| T | Technology | Digital infrastructure that enables processing and visualisation. |
| A | Automation | Process optimisation through automated workflows (RPA, AI). |
| R | Risk | Identification of critical areas through predictive analysis. |
| I | Intelligence | Using artificial intelligence and analytics to extract strategic value. |
| S | Security | Protección de datos, integridad digital y resiliencia cibernética. |

# Federal Government Contracts

Government contracts between 2018 and 2024 reflect a predominant use of direct award, which accounts for 80% of all procurement procedures. In contrast, only 12% of contracts were awarded through public tender—the most competitive and transparent mechanism—while invitations to three individuals accounted for just 8%. These data show a strong concentration in less open processes, which can limit competition and transparency in public spending.

**DATARIS - HIRING**

**Percentage of Government Contracts**

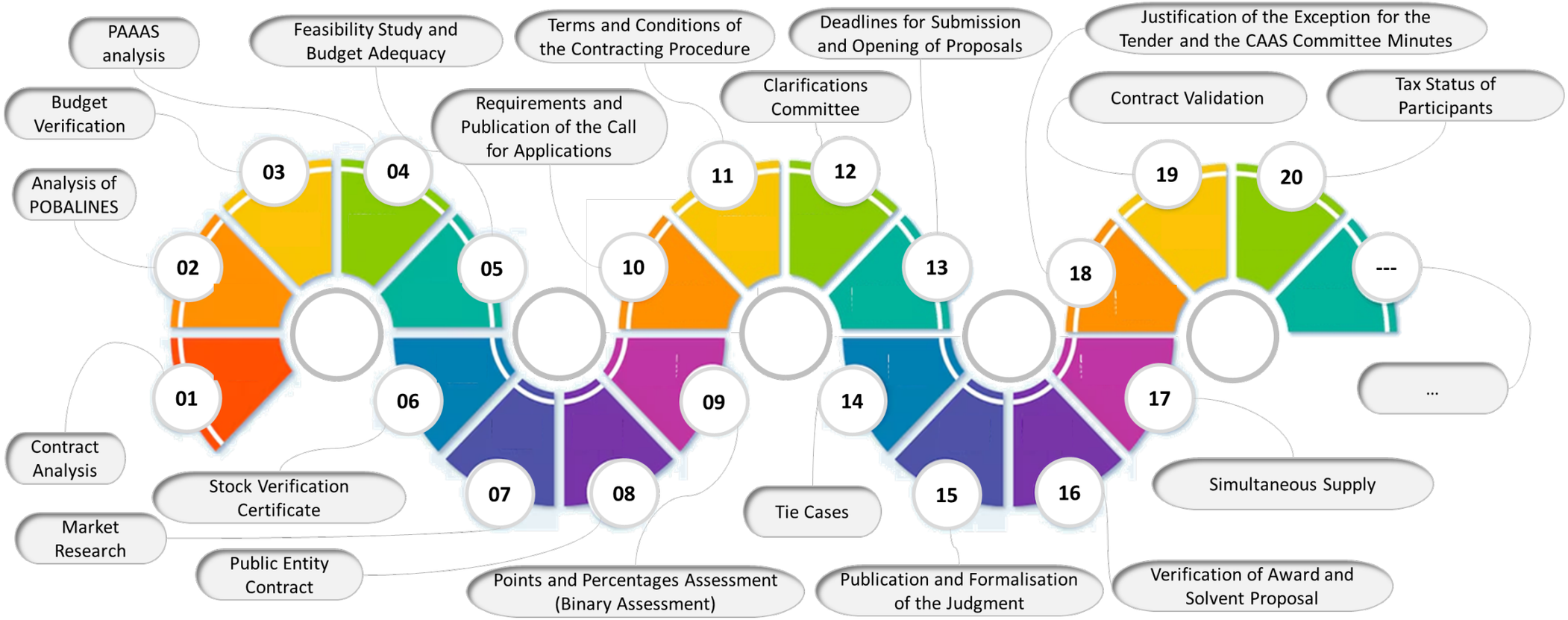



NOTE: Prepared based on the Federal Government's public procurement information system (ComprasMX).

# Chatbot DATARIS Hiring

DATARIS-Hiring is trained to assist in 34 different procedures related to Federal Government contracts, leasing and services. Each procedure has specific activities, such as reviewing regulations, analysing contracts, verifying signatures, analysing advance payments and meeting deadlines, among others. The application has been trained with more than 300 instructions and 1,000 activities to facilitate audit work, increase regulatory accuracy, and optimise review time, thereby contributing to strengthening public oversight.

**DATARIS - HIRING**



# ChatBot Workflow

The workflow for reviewing contracts is based on the regulatory protocol of the Special Financial Compliance Audit. It begins with the uploading of documents and continues with the auditor's interaction with DATARIS-Hiring, which generates automated legal responses. These are recorded on a working paper and subsequently assessed by the auditor. Finally, the audit report is prepared, strengthening the efficiency, depth, and accuracy of the audit process.

**DATARIS - HIRING**

Federal Law on Procurement, Leasing and Services and its Regulations

**Regulatory framework**

Artificial Intelligence Language Model (GPT) with legal instructions for each procedure

**Chatbot GPT customised**

Assessment for each legal section, document analysis and response generation

**Automated review of the DATARIS-Hiring**

The Auditor rates the answers and adds specific comments.

**Validation and qualification of the Auditor**

**Procurement review protocol**

34 procedures defined by the Special Financial Compliance Audit

**Interaction between the auditor and the DATARIS-Hiring**

Uploading documents to activate step-by-step review

**Working paper**

The responses generated by the Chatbot are recorded in a working paper

**Audit certificate**

Preparation of analytical sheets based on the Chatbot 's working papers

# DATARIS-Hiring demonstration

Two DATARIS-Real-Time hiring procedures are shown: Contract Analysis (Procedure 0) and Tender Exception Justification (Procedure 21). The flow illustrates how DATARIS enables structured monitoring of each stage. Its purpose is to strengthen oversight through automation. It facilitates more agile, timely and in-depth reviews.

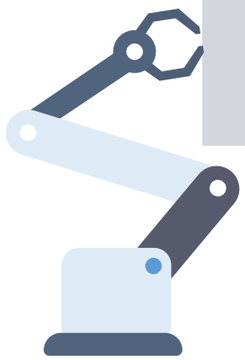
**DATARIS - HIRING**

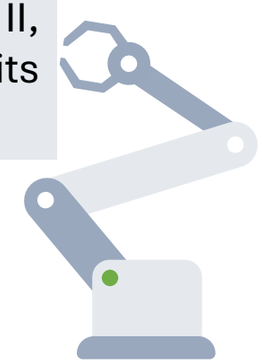
## Procedure 0: Contract analysis

It reviews contract compliance in accordance with Articles 44 and 45 of the Federal Law on Public Sector Acquisitions, Leases, and Services (LAASSP), as well as Article 84 of its Regulations.

## Procedure 21: Justification of exception

It verifies that the award based on article 41 of the LAASSP meets the criteria of economy, effectiveness, efficiency, impartiality and honesty, in accordance with articles 22, section II, 40, second and fifth paragraph and 71, sections I, II, III, IV, V, VI, VII and VIII, as well as 72 of its Regulations.





# Testimonials from the Auditors

Artificial intelligence is perceived as a strategic opportunity to strengthen auditing by enabling faster information extraction, identifying relevant data, and significantly reducing the time spent on document analysis. The chatbot adds value by generating automatic reports with comparative analyses, facilitating regulatory understanding and providing support, especially to less experienced staff, which improves the quality of work, expands review coverage and contributes to more timely identification of risks in audit processes.

**DATARIS - HIRING**

## Head of Department, Directorate-General of Forensic Financial Compliance Auditing

Artificial intelligence represents a strategic opportunity to strengthen our technical capabilities and audit procedures. **Among the main advantages is the rapid extraction of information and identification of relevant data**, which has allowed us to optimise the time spent reviewing processes. It also **facilitates the simultaneous comparison of multiple sources and records to document the existence of operational anomalies in a short time**. This allows us to better focus our audit efforts, achieve broader coverage, and detect potential risks more quickly.

## Audit Coordinator of the Directorate General of Federal Financial Audit “B”

**Among the main benefits is the time saved in analysing documentation**, as the chatbot provides us with reports analysing regulatory compliance, **allowing us to conduct in-depth research.** It also provides us with keywords for drafting conclusions in working papers. **It also supports less experienced staff by providing context on the procedure to be followed and the regulatory basis being reviewed**.

## Authorized Auditor of the Directorate General of Federal Financial Audit “C”

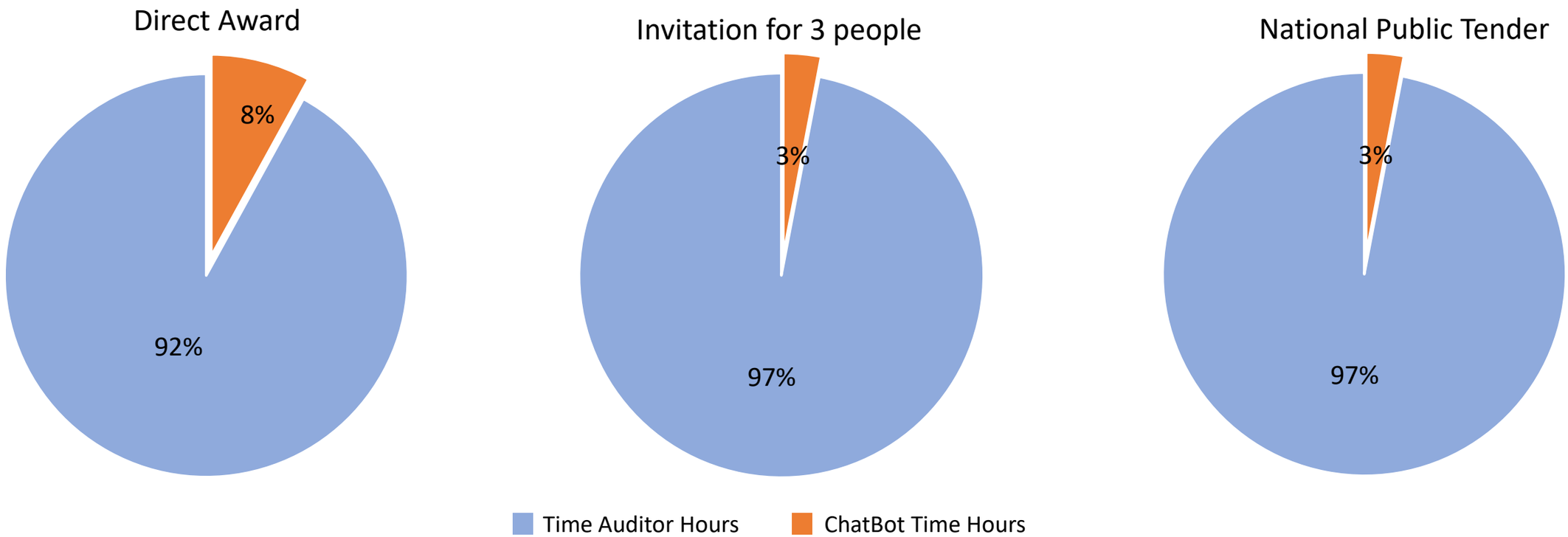
Among the **main benefits is an intuitive and user-friendly interface, so no advanced technical knowledge is required to use it**. In addition, the feedback it provides allows users to correct and evaluate responses, **so that the chatbot learns and adjusts the model to obtain better answers.**

# Implementation Results

The chatbot performed the review 10 to 27 times faster than the manual procedure, which was obtained from the evaluation of 30 contracts with a total of 11,064 qualified activities and counting, reflecting greater productivity for auditors.

**DATARIS - HIRING**

**EFFICIENCY CRITERION**

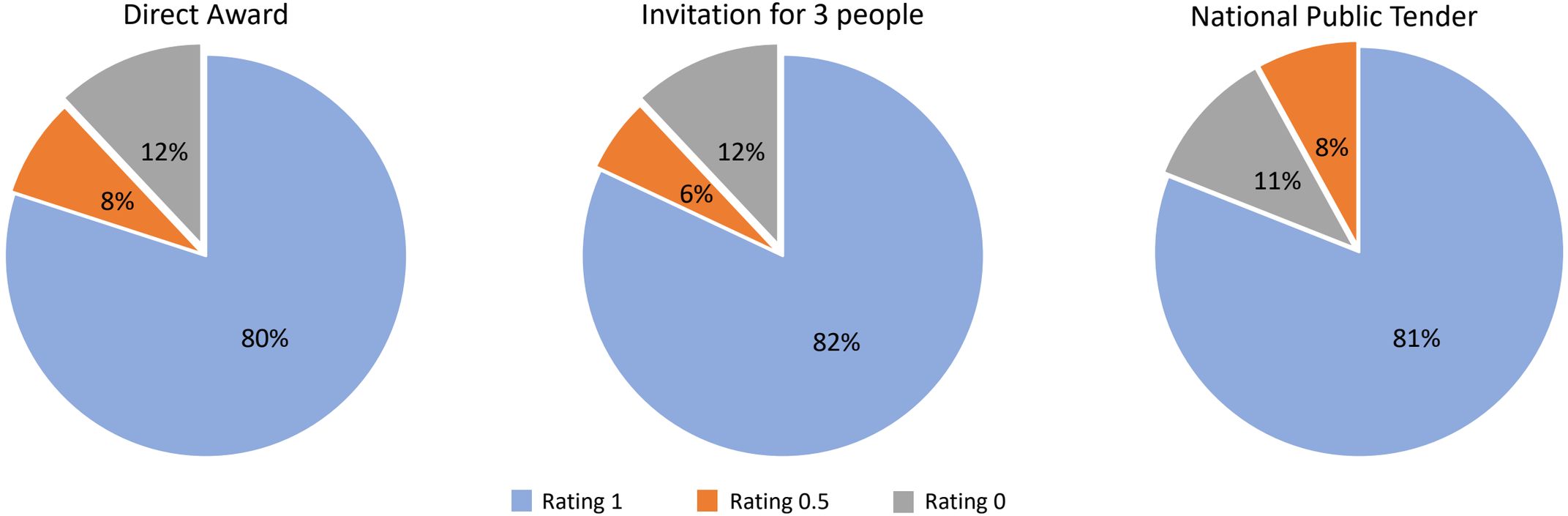


# Implementation Results

In the first assessment of activities, the chatbot obtained a correct rating of 80% to 82%. Incomplete or incorrect ratings are minor deviations of 6% to 12%, which are adjusted by the auditors, reflecting high levels of effectiveness in the procedures reviewed.

**DATARIS - HIRING**

**EFFECTIVENESS CRITERION**



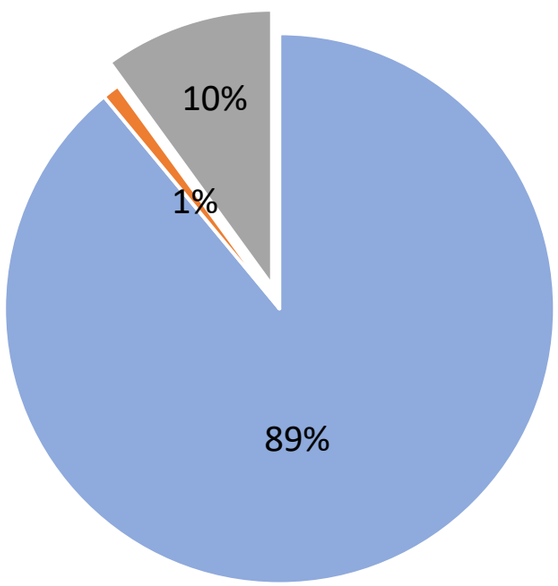
# Implementation Results

The functions performed by the auditor and AI range from 63% to 89%, while the functions exclusive to AI range from 10% to 36%, indicating automated analysis not explored by the auditor that gives us significant complementary potential.

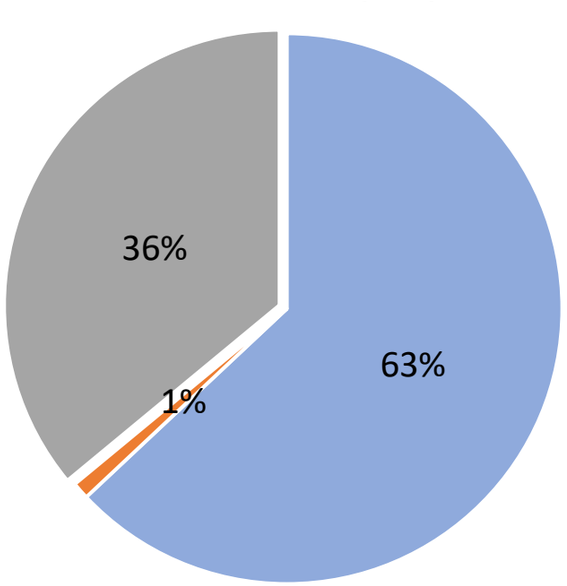
**DATARIS - HIRING**

**DEPTH CRITERION**

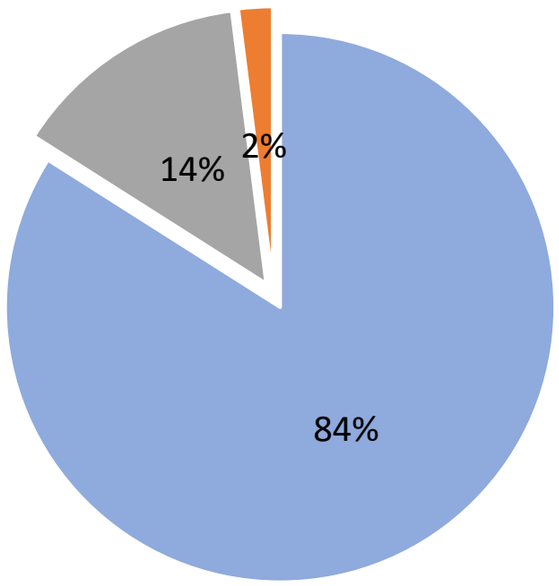
Direct Award




Invitation for 3 people




National Public Tender




Coinciding Functions  Functions Auditors  AI functions

# Project Conclusions

The DATARIS-Hiring platform speeds up reviews by up to 27 times, increases the depth of analysis by 36% and achieves 80–82% effectiveness. It allows auditors to work faster and more accurately, always under the principle that AI results must be supervised and validated by the auditor.

DATARIS - HIRING

## Depth in Procedure

Greater efficiency in reviews (up to 27 times faster than the manual procedure) and increased depth of analysis (up to 36% more checks than the manual procedure) will enable greater productivity for auditors to expand the audited universe.

## Effectiveness

The range of effectiveness achieved by DATARIS-Hiring from 80 to 82%, was considered ‘promising’ at the ‘IA Summit 2025’ event held in May in Mexico City.

## Maximising Productivity

In procedures with few activities, the auditor will perform the work more quickly and accurately.

## Reviewed and Evaluated Results

The fundamental premise for the use of Artificial Intelligence is that its results must be supervised, reviewed, and evaluated by the Auditor to take advantage of the scalability of DATARIS-Hiring.

¿Gracias?
Asante
Salamat
Dankie
Na gode
Ọ ṣe
Danke
Thank you
شكراً
Ngiyabonga
Merci
ありがとう
감사합니다
Takk
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Grazie
谢谢
Matondo
Obrigado Obrigada
Сасибо
GRACIAS
DATARIS - HIRING

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GRAZIE
NIRRINGRAZZJAK
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JUSPAXAR
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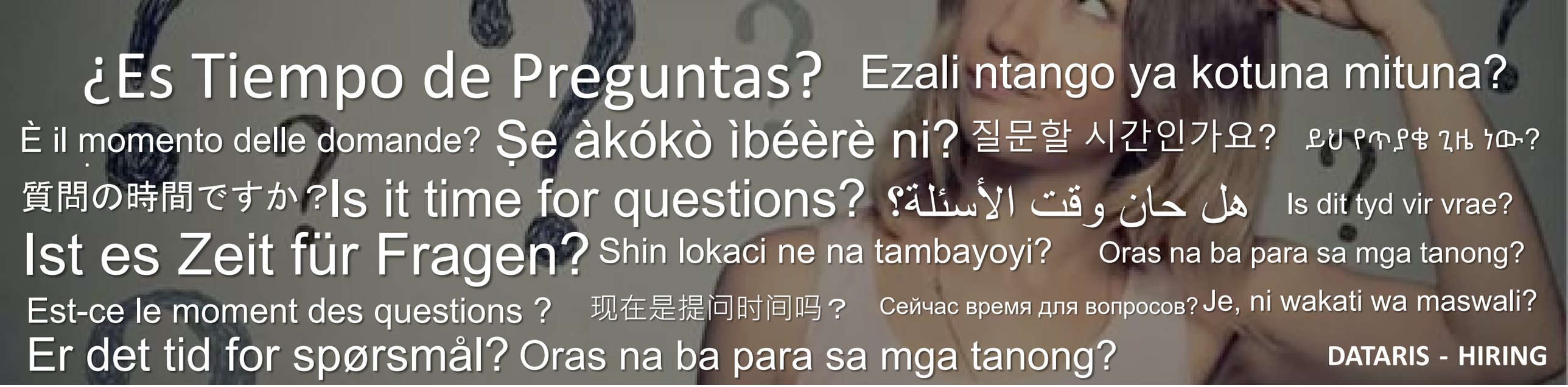


Es tiempo de
**PREGUNTAS**