

# Digital Workshop

## Using AI Solutions to Detect Tax Evasion

Group Discussion 2

### Challenges and future developments in using AI solutions to detect tax evasion

FEEDBACK FROM GROUP 1

## Question 1

**What are the main operational and strategic challenges that tax administrations currently face when deploying AI tools to detect tax evasion, and how can these obstacles be reduced over time?**

# Key Challenges in Deploying AI

## ➤ Talent Shortage and Skills Gap

Public sector struggles to attract AI experts due to salary differences with private companies.

## ➤ Data Quality and Fragmentation

Legacy systems cause siloed, poorly documented data, limiting AI effectiveness in tax analysis.

## ➤ Integration and Workflow Issues

AI outputs often fail to integrate into existing tax workflows, reducing practical utility.

## ➤ Ethical Risks and Bias

AI models' lack of transparency and explainability raises ethical concerns and trust issues.

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## Suggested Solutions to Overcome Challenges

### › Leadership and Governance

Prioritise leadership commitment to data governance, ethics, and competitive recruitment strategies to strengthen tax administrations.

### › Robust Data Platforms

Invest in data standardisation, documentation, and interoperability to build strong, scalable data platforms.

### › Capacity Building and AI Tools

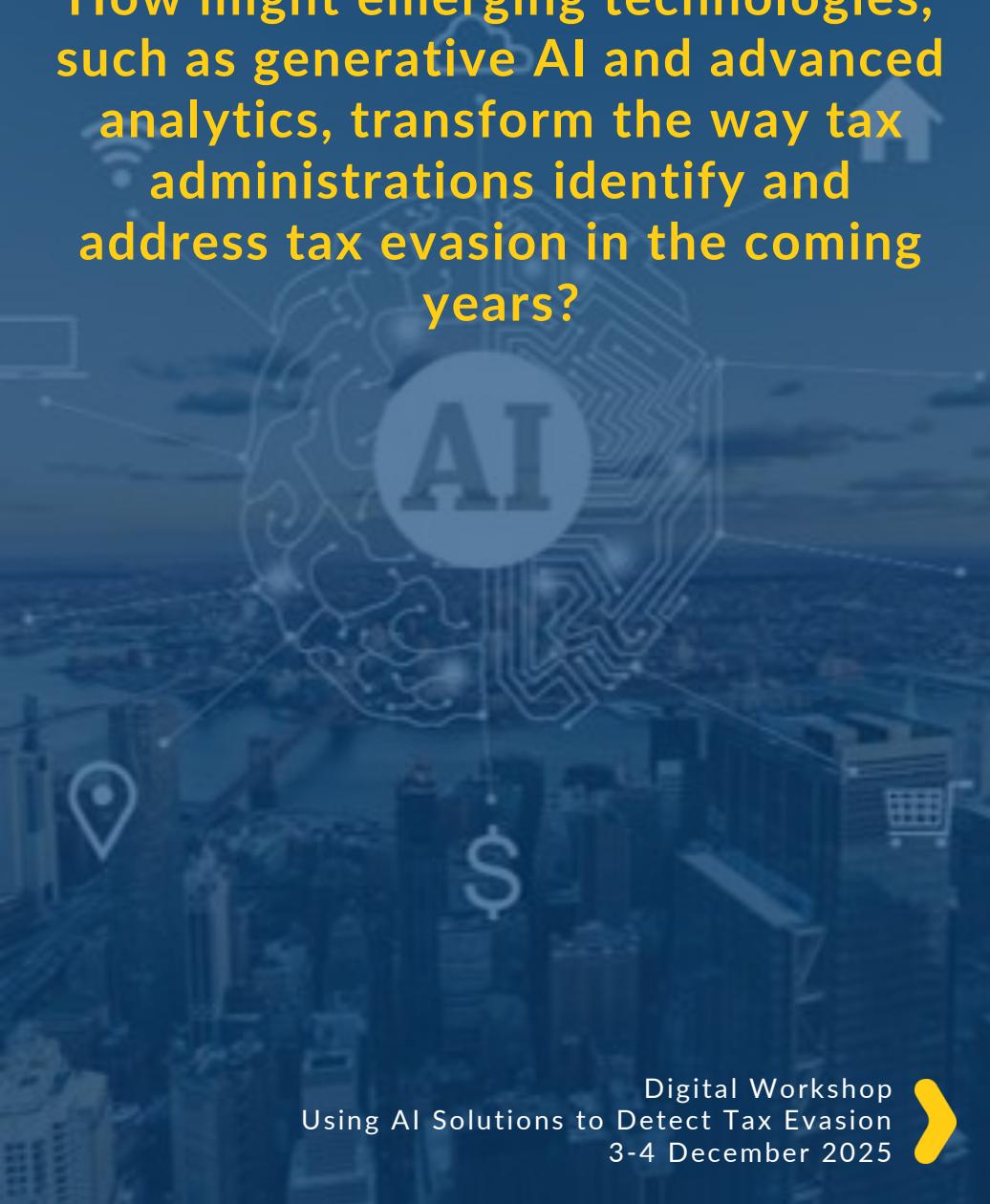
Enhance skills through staff training and use AI tools for documentation and system development to bridge skill gaps.

### › Monitoring and Human Oversight

Implement monitoring mechanisms and maintain human oversight to ensure AI reliability and accountability in decision-making.

## Question 2

**How might emerging technologies, such as generative AI and advanced analytics, transform the way tax administrations identify and address tax evasion in the coming years?**



# Generative AI and Advanced Analytics

## ► Generative AI for Auditing

Generative AI aids auditors by summarizing documents, structuring data, and delivering real-time insights.

## ► Advanced Risk Analysis

Combining predictive models with traditional scoring improves the accuracy of tax evasion risk detection.

## ► Data Fusion and Network Analysis

Linking multiple data sources uncovers hidden fraud networks and complex evasion patterns.

## ► Automation and AI Tools

Automation reduces manual work and AI-driven tools speed up model deployment and coding.

## Question 3

**What governance, ethical, and trust-related considerations must be strengthened to ensure that future AI-driven detection systems remain transparent, fair, and accepted by taxpayers and auditors alike?**

**HONESTY**  
**INTEGRITY**

# Ensuring Transparency and Fairness

## ➤ Transparency and Explainability

AI models must be interpretable, legally defensible, and provide clear reasons for actions with appeal channels.

## ➤ Bias Mitigation and Fairness

Implement strategies to mitigate data biases, ensuring fairness across different taxpayer groups and demographics.

## ➤ Human Accountability

Humans must retain final enforcement decisions to prevent over-reliance on automated AI systems.

## ➤ Ethical Governance and Regulation

Adopt comprehensive ethical checklists and regulatory frameworks to ensure privacy and prevent AI misuse.

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# Key Challenges in AI Adoption

## ➤ Skills Gap and Recruitment

Finding experts skilled in tax law and data science is challenging due to limited talent and private sector competition.

## ➤ Data Quality and Integration

Fragmented and poorly structured data impedes AI adoption, with issues in harmonizing datasets across systems.

## ➤ Confidentiality and Compliance

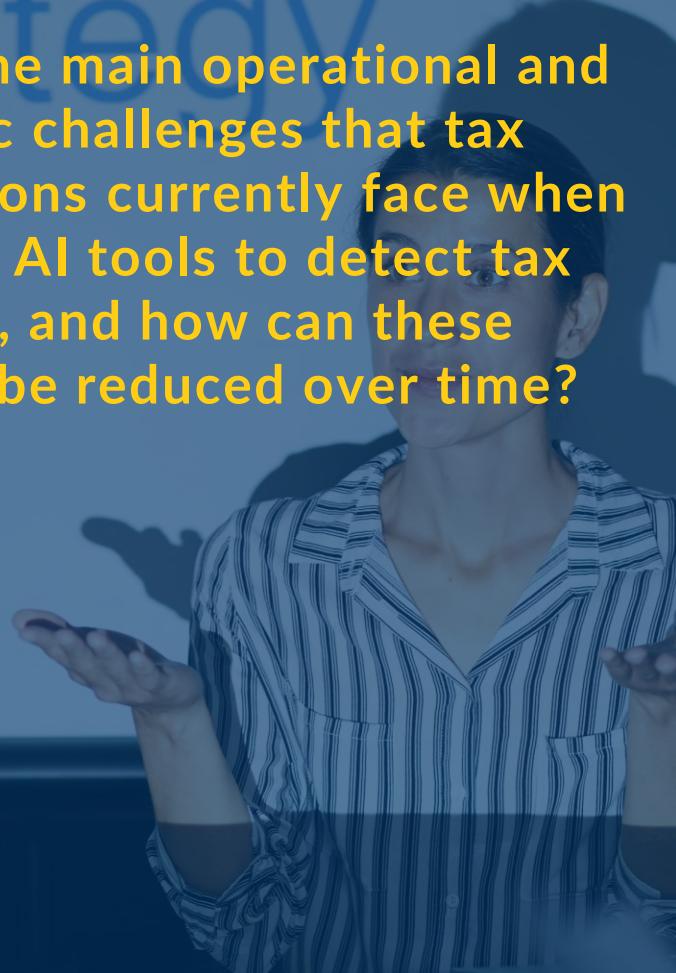
Ensuring GDPR compliance and data confidentiality is critical to protect sensitive taxpayer information during AI use.

## ➤ Infrastructure and Costs

High costs for software, hardware, and training, along with infrastructure limits, challenge AI implementation efforts.

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## Strategies to Overcome Challenges

### ➤ Confidential AI Development

Develop in-house AI tools and secure platforms to ensure data confidentiality and regulatory compliance.

### ➤ Data Governance and Quality

Invest in robust data governance and cleansing to enhance data quality and interoperability.

### ➤ Compliance and Security

Establish GDPR-compliant procedures and security measures to protect sensitive information.

### ➤ Training and Teamwork

Create cross-disciplinary teams and targeted training programs to bridge skill gaps.

## Question 2

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## Innovations Driving Change

### ➤ AI-Powered Proactive Detection

AI shifts tax evasion detection from reactive audits to real-time predictive risk identification and proactive fraud prevention.

### ➤ Advanced Analytics and Network Analysis

Analytics uncover complex corporate structures and fund flows, aiding cross-border fraud investigations using extensive EU data.

### ➤ Automation Enhancing Efficiency

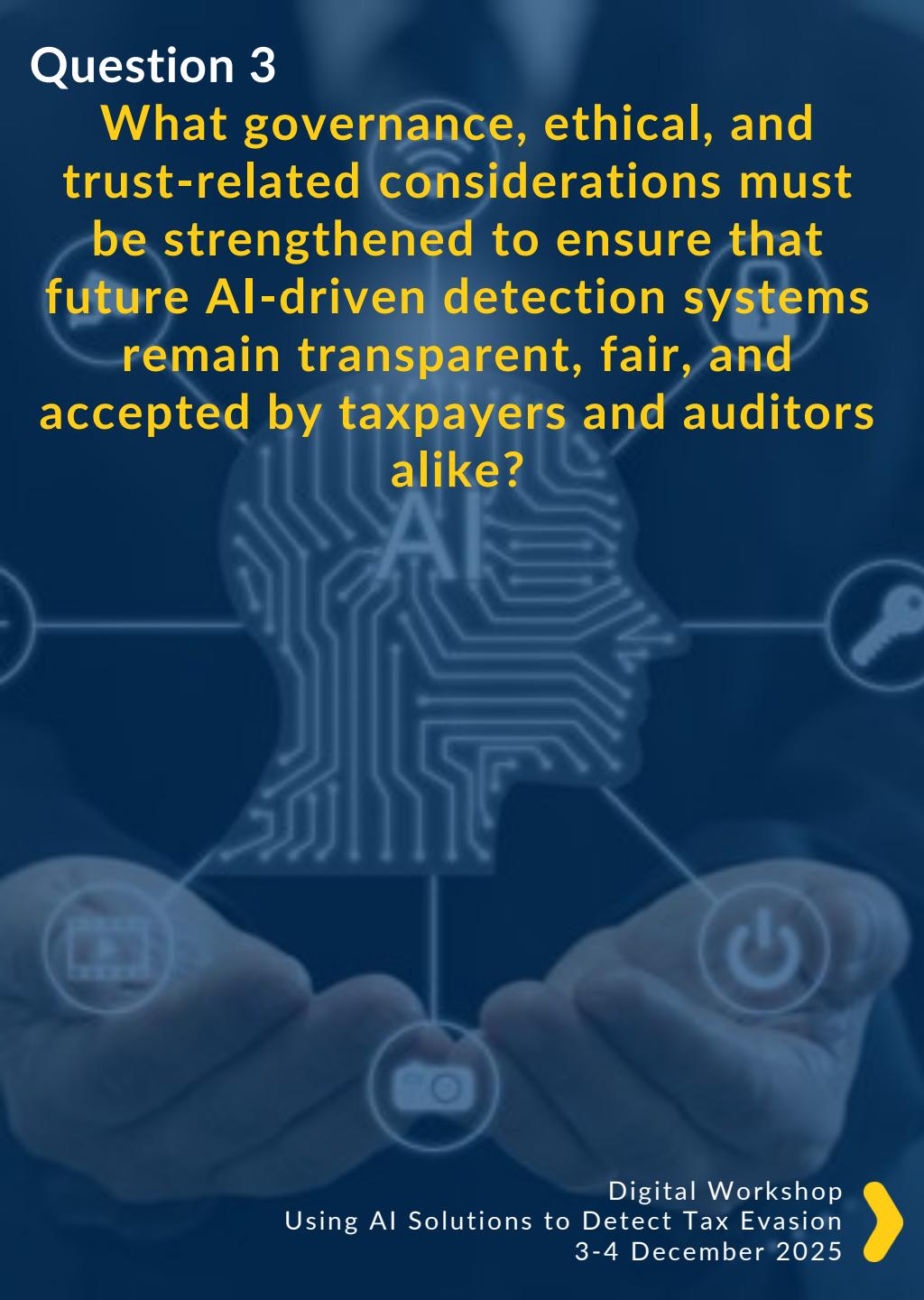
Automation enables faster anomaly detection, case prioritisation, and support for investigative processes in tax evasion cases.

### ➤ Cloud and High-Performance Computing

Cloud computing supports large-scale data processing, enabling analysis of complex fraud patterns efficiently and effectively.

### Question 3

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## Principles for Responsible AI Use

### ➤ Transparency and Explainability

AI models must be interpretable and legally defensible to ensure clear understanding by taxpayers and auditors.

### ➤ Human Oversight and Accountability

Human involvement remains crucial in decision-making to prevent full automation and maintain responsibility.

### ➤ Fairness and Bias Control

Regular validation is necessary to prevent biased targeting of specific groups within AI outputs.

### ➤ Security and Data Protection

Protecting sensitive data and preventing AI misuse by criminals is essential for secure AI deployment.

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# Main Operational and Strategic Challenges

## ➤ Trust and Explainability

Lack of trust in AI outputs requires strong validation and explainability to gain auditor confidence.

## ➤ Data Quality Issues

Incomplete and inconsistent tax data reduce AI model accuracy and reliability.

## ➤ Integration with Legacy Systems

Existing tax IT platforms pose challenges for deploying AI predictive analytics effectively.

## ➤ Resource and Cost Constraints

Shortage of skilled staff, high costs, and infrastructure needs limit AI adoption success.

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# Strategies to Overcome Challenges

## › Leadership Buy-In Importance

Securing leadership commitment ensures prioritisation and resource allocation for successful AI adoption.

## › Enhancing Data Governance

Improving data quality, harmonisation, and cleansing processes is essential for reliable AI outcomes.

## › Training and Explainability

Develop interpretable models and train staff to effectively use AI tools across departments.

## › Secure Development and Monitoring

Internal hosting and continuous monitoring maintain data confidentiality, compliance, and model accuracy.

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# Innovations Transforming Tax Evasion Detection

## ➤ Generative AI for Data Processing

Generative AI summarizes audit reports and converts unstructured data into structured formats for easier analysis.

## ➤ Network Analytics for Fraud Detection

Advanced analytics identify complex relationships among taxpayers and companies, uncovering organized fraud schemes.

## ➤ Predictive Compliance Approaches

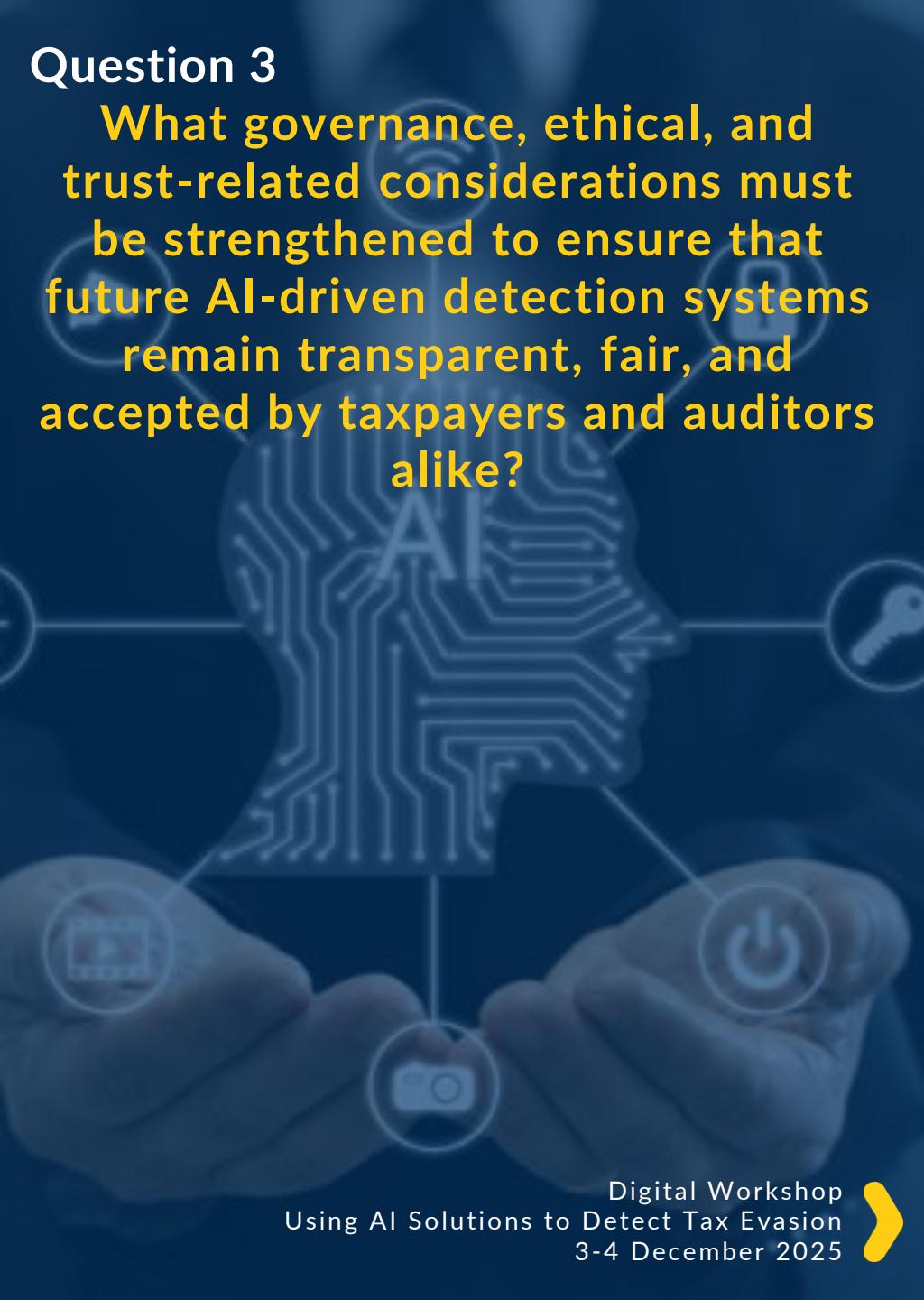
Shifting from reactive audits to predictive risk scoring enables early intervention and proactive compliance.

## ➤ Secure Offline AI Models

Offline large language models securely process sensitive data internally, reducing cloud-related risks.

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## Ensuring Transparency and Accountability

### ➤ Transparency and Explainability

Disclose data sources used in AI models while maintaining proprietary safeguards and ensure flagged cases are understandable.

### ➤ Human Oversight and Accountability

Maintain human decision-making in enforcement to avoid full automation and preserve accountability in tax evasion detection.

### ➤ Bias Mitigation and Fairness

Implement bias mitigation and fairness validation to prevent discrimination in AI models based on demographic factors.

### ➤ Data Privacy and Ethical Compliance

Ensure GDPR compliance to protect sensitive data and avoid using public cloud AI for confidential information.