

Workshop Overview

- Learn how Agile teams can align with the ISO/IEC 42001 (AIMS)
- Engage in "Brain Challenge" games that make AI governance concepts tangible and fun. Each game reflects key cognitive processes:
 - o reasoning, connection-building, fusion, and optimization.
- Connect AIMS principles with Agile frameworks (Scrum) by linking:
 - AI Officers → Roles,
 - Checkpoints → Events,
 - Controls → Deliverables.

Workshop Overview

- Use a custom-designed AIMS Compliance Checklist developed for Agile environments.
- Assess your organization's alignment with ISO/IEC 42001 requirements.
- Identify gaps and opportunities in current Agile practices.
- Define actionable steps to embed:
 - AI ethics and fairness, Transparency and accountability, Risk management and continuous improvement.
- Collaboratively review results and discuss best practices for implementation.

Agenda

Section 1 – Opening & Awareness

Game: Number Tower Challenge

Section 2 – From Agile to Accountable

Game: Synapse Matrix

Section 3 – The Integrated Framework

Mame: Neural Fusion

Section 4 – Reflection & Application

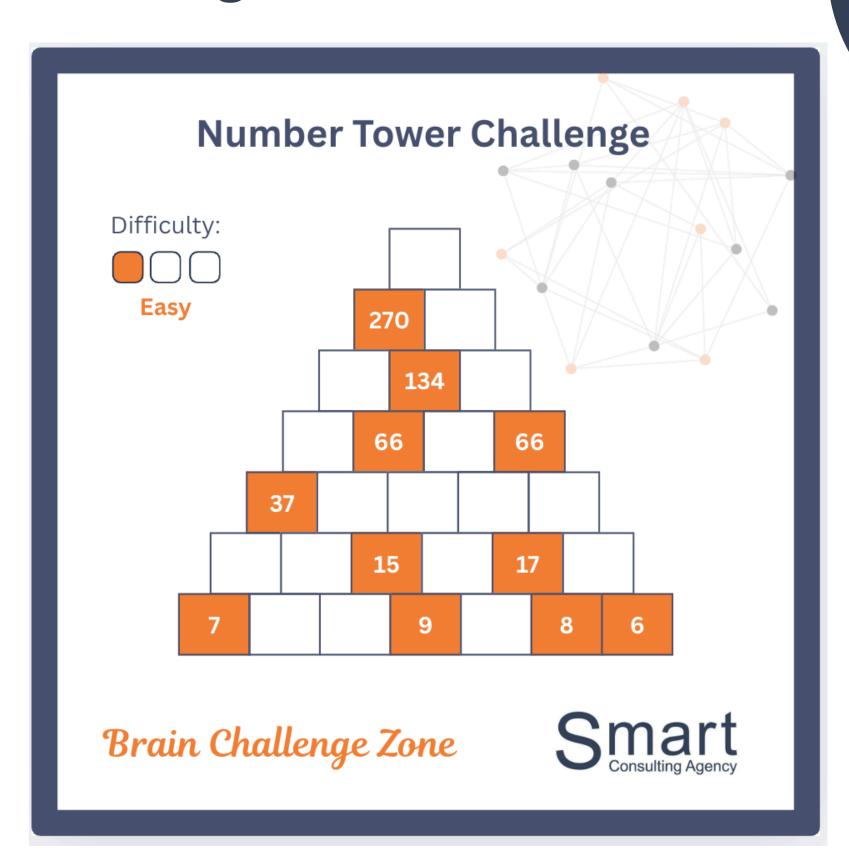
Game: Gradient Descent



Section 1 – Opening & Awareness

Game: Number Tower Challenge

→ Icebreaker & cognitive warm-up (numerical reasoning and error detection)



Section 1 – Opening & Awareness

Why do we need to talk about AI governance?

Risks of unmanaged Al initiatives

Transparency, accountability, and bias mitigation

How governance ensures trust and consistency

Section 1 – Opening & Awareness

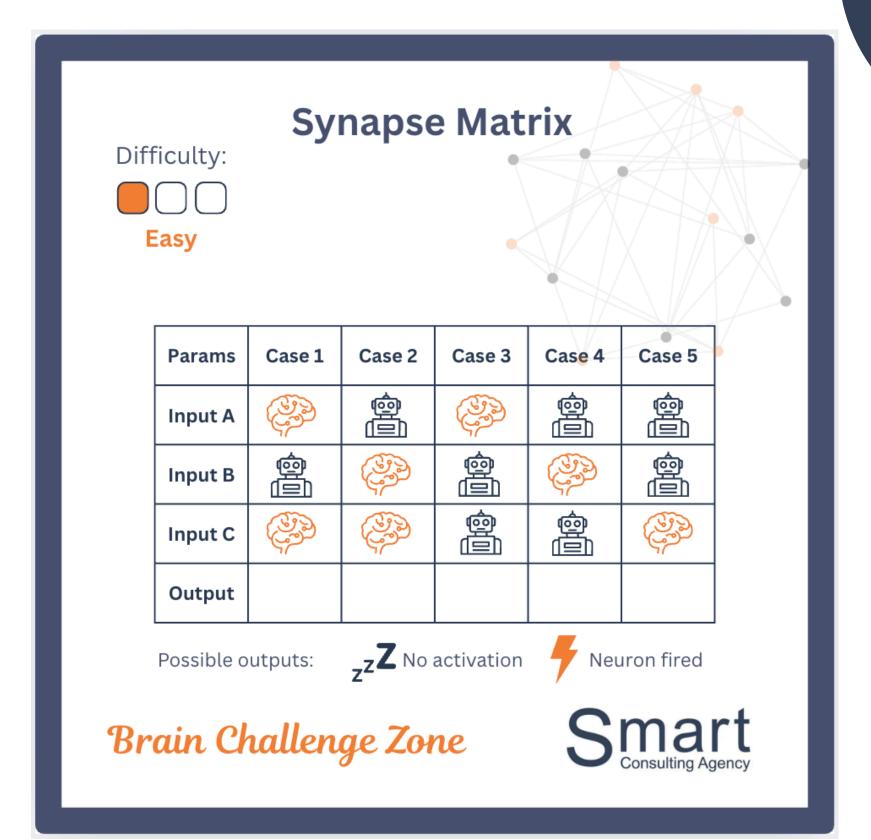
What does AI mean for your team?



What does Al mean for your team?

Game: Synapse Matrix

→ Pattern recognition & collaborative problem solving (mirrors neural connections in teams)





Teams need shared rules to innovate effectively

Consistency and repeatability allow for scaling

Protect quality, ethics, and trust in Al-driven decisions



If We Don't Have Al Governance...



If We Don't Have Al Governance...what could be the issues?



Introducing ISO/IEC 42001

- Standardize Responsible AI within Agile teams
- First international standard for Artificial Intelligence Management Systems (AIMS).
- Provides a framework for accountability, transparency, and continual improvement.
- Aligns AI projects with ethical principles and organizational governance.
- Compatible with Agile and iterative development.

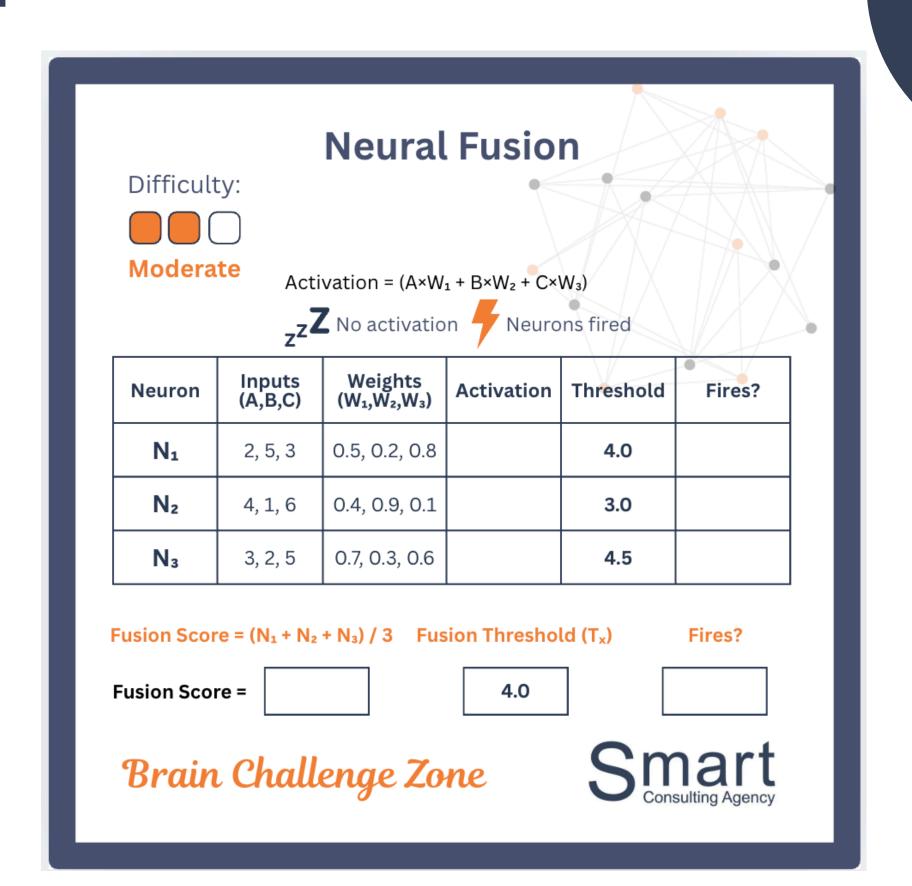


Introducing ISO/IEC 42001

- Establishing **Ethical** Guidelines
- Data Authenticity and Quality
- Transparency and Accountability
- Security and Data Protection
- Bias Mitigation
- Quality Assurance and Validation
- Focus on Risk
- **Doc**umentation
- Continuous Monitoring and Improvement

Game: Neural Fusion

→ Strategic thinking challenge (combining neural paths = integrating frameworks)



Implementing ISO/IEC 42001 in Agile Teams

ISO 42001 Officers → Agile Roles

ISO 42001 Checkpoints → Scrum Events

ISO 42001 Controls → Deliverables

Does AI governance fit into your Agile team(s) rhythm?



Does Al governance fit into your Agile team(s) rhythm?

Sprint Planning: "Plan with Purpose"

Daily Scrum: "Monitor and Adjust"

Sprint Review: "Show, Explain, and Justify"

Sprint Retrospective: "Reflect and Improve Governance"

Never considered

Fully integrated into routine









Al Officers	Agile Role	Responsibilities
Al System Owner	Product Owner	Ensures alignment of AI goals and outcomes
Risk Officer	Scrum Master	Facilitates identification and mitigation
AI Developer	Dev Team	Implements technical and ethical practices



Checkpoints	Events	Guidelines
Risk planning	Sprint Planning	Risk Review Checklist for stories involving AI features or models
Surfacing concerns	Daily Stand-ups	Any blockers, concerns, AI risks?
Traceability and transparency	Reviews	Link feature to business justification and ethical review
Continuous ethical improvement	Retrospectives	Did we skip any governance activities for the sake of delivery?



Controls	Deliverables	Guidelines
Ethical criteria	User stories	Add fairness and traceability checks
Include governance	Definition of Done	Add explainability and audit trail checks
Flag AI risk	Backlog Items	Identify sensitive or high-risk stories
Attach AI related docs	Sprint backlog items	Link model cards and data logs

Section 4 - Reflection & Application

Game: Gradient Descent

→ Iterative optimization challenge (learning from feedback to reach the goal)



Difficulty:



Expert

Initial weights: $W_1 = 0.5 W_2 = 1.0 Bias b = 0.0$

Prediction: P = (A×W1)+(B×W2)+b

Error: e = P - t

Example	Input A	Input B	Prediction (P)	Target (t)	Error (e)
1	2	1	2.0	3.0	- 1.0
2	1	3		4.0	
3	3	2		5.0	

Mean Squared Error: $ext{MSE} = rac{e_1^2 + e_2^2 + e_3^2}{3}$

Now try to add Bias and/or increase/decrease existing weights to reduce the MSE below.

Brain Challenge Zone



Section 4 - Reflection & Application

• Perform a compliance self-assessment using the checklist

Review and discussion of key insights

- Context, Organization and Scope (Section 4 Organization and its Context)
 - Identification of internal and external processes and aspects related to AI
 - The needs and expectations of stakeholders relevant to AI
 - Definition of the scope related to AI management system based on its context

- Governance Framework (Section 5.1 Leadership and Governance)
 - Al governance body responsible for overseeing Al systems
 - Roles and responsibilities clearly defined and communicated
 - Top management commitment to Al governance
 - Al governance aligned with organization's overall business strategy

- Data Governance and Quality Assurance (Section 6.1 Data Governance,
 Section 6.2 Data Integrity)
 - Ensure data authenticity, meaning data used in AI models is reliable,
 relevant, and accurate
 - o Policies in place to maintain data integrity
 - Data governance monitoring to ensure that data is ethically sourced and aligns with privacy and security standards
 - o A framework for managing synthetic data

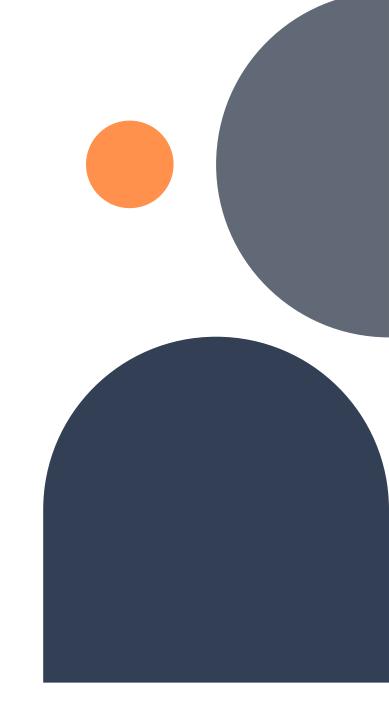
- Ethical Guidelines (Section 7.1 AI Ethics and Transparency)
 - Ethical guidelines in place for the development and deployment of AI systems (e.g., fairness, avoiding bias)
 - Al systems and decisions transparency
 - A process for auditing AI models to ensure ethical compliance
 - Measures for mitigating bias in AI algorithms, ensuring fair outcomes across all demographics

- Risk Management (Section 6.3 Risk Management and Mitigation, Section
 8.1 Monitoring and Risk Management)
 - Identify, assess, and mitigate risks related to AI systems (e.g., data bias, privacy risks, security vulnerabilities)?
 - Risk assessments as part of the AI development lifecycle
 - A formal risk management plan in place to manage risks associated with AI
 - Monitor AI performance to ensure it aligns with risk mitigation measures and ethical standards?

- Performance Monitoring and Continuous Improvement (Section 8.2 Performance Evaluation, Section 8.3 Continuous Improvement)
 - Al systems continuous monitoring
 - Performance metrics for measuring the success and impact of AI initiatives
 - A process for continuous improvement that ensures AI systems are periodically reviewed, updated, and optimized based on feedback and data insights?

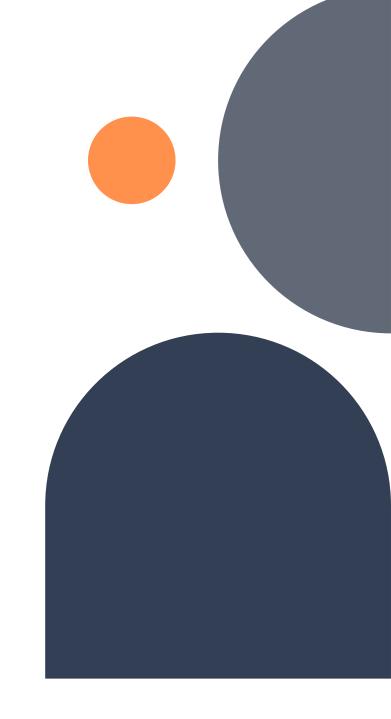
Exercise: 42001 Readiness Check (Checklist)





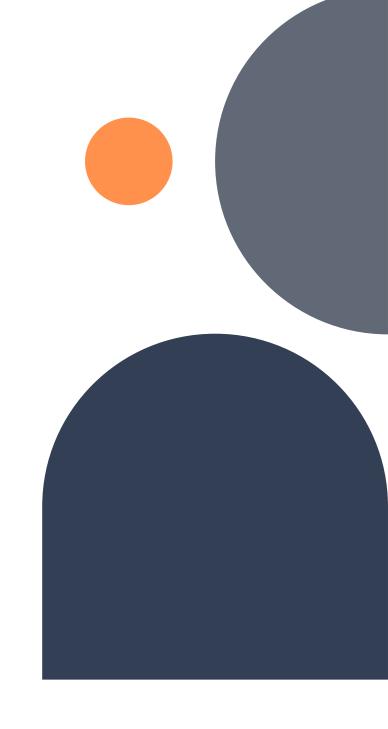
Exercise: 42001 Readiness Check (Scoring)





Exercise: 42001 Readiness Check (Checklist)

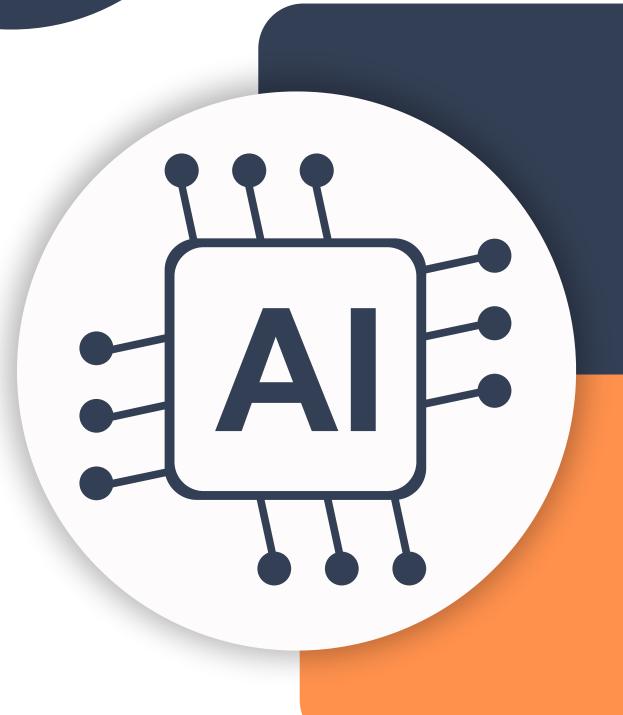
- Scoring Criteria: For each checklist item, participants can score themselves on a scale of 0 to 3 based on how well their organization is performing in that area:
 - O: No Implementation The practice or standard is not implemented at all.
 - 1: Partial Implementation There is some effort in place, but it's incomplete or inconsistently applied.
 - 2: Full Implementation (with Room for Improvement) The practice is well implemented but can be optimized or improved in some areas.
 - **3: Excellent Implementation** The practice is fully implemented, well integrated, and continuously improved.



Exercise: 42001 Readiness Check (Scoring)

- Scoring Range and Interpretation:
 - **0-23 points: Low Readiness** Your organization is at the early stages of implementing ISO/IEC 42001 standards.
 - 24-47 points: Moderate Readiness Your organization has made progress in some key areas, but several critical aspects still need attention and development.
 - 48-62 points: High Readiness Your organization is well on track with implementing ISO/IEC 42001 standards. Most of the key components are in place.
 - **63-72 points: Excellent Readiness** Your organization has fully implemented the key components of the ISO/IEC 42001 standard.

THANK YOU



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