

# Scaling AI, responsibly

Tools & Technology deep dive

**Nemko Digital** 

September 11, 2025



# With you today

Bas Overtoom Senior Al Trust Expert



Pepijn (Pep) van der Laan Global Technical Director



### Experienced AI & Data Executive

Over a decade of consultancy experience, driving AI and data transformations for top global organizations.

### Responsible Al Advocate

Passionate about responsible AI to address business, social, and environmental challenges.

### Global Business Expertise

Strong international background, including seven years in Asia, fostering cross-cultural collaboration. Leads global business development at Nemko Digital, promoting AI Trust worldwide.

### VC Advisor for AI Scale-Ups

Supports AI startups within a prominent Dutch VC fund to achieve global growth.

### Scaling AI Impact

Over a decade of experience in realizing business value through scaling AI and ML from initial proof-of-concept to enterprise-wide solutions.

### Al Strategy Advisory

Extensive experience shaping the AI transformation for global leaders and national champions across industries.

### Al Capability building

Led a team of 90 data scientists through the transformation from the traditional consulting model and introducing modern delivery and development practices.

### Growing Al Trust

Recognized for consistently bridging the gap between the developer and AI risk communities, building mutual understanding



# **Nemko Digital: Compliance without Complexity**

### **Nemko Digital is part of Nemko Group**

We empower our customers through innovative digital solutions and expert guidance.

We aim to build digital trust and help navigate the complexities of the modern online landscape, with a special focus on Artificial Intelligence.

We combine an in-depth knowledge of regulation and market-leading frameworks with an entrepreneurial stance and a maker's mindset.



AI GOVERNANCE

AI COMPLIANCE

**AI MATURITY** 

**AI ASSURANCE** 













# At Nemko Digital we believe that AI Trust is a growth enabler



Compliance with upcoming regulation



Reputation as leading global company



Control to prevent incidents / harm



Stakeholder demands around use of Al



Competitive advantage in the market



# What is top-of-mind for our clients?

We deliver Digital Trust through end-to-end compliance and advisory support, combining technical, regulatory, and process expertise.



### How to get ready for the EU AI Act?

- Risk categorization of AI systems
- Achieving and demonstrating conformity
- Ensuring market access for products



### How to assure AI algorithms technically?

- Design validation and robustness testing
- Bias detection and mitigation
- Ongoing algorithmic assurance processes



### How to get ISO certified for AI, Data, and Security?

- Organizational readiness and training
- Management System implementation
- Audit and certification



### How to monitor and govern AI & Data at scale?

- Performance metrics and benchmarking
- Al governance tooling and automation
- Scalable monitoring frameworks



### How to ensure market access for AI products?

- Applicability of various directives and regulations
- Roadmap towards compliance for Digital Trust
- Achieving and demonstrating conformity



### How to structure an AI & Data operating model?

- Defining roles and responsibilities
- Establishing controls, processes, and oversight
- Integrating governance into business workflows



### How to instill trust in Al-embedded products?

- Nemko's Trust Mark as a standard
- Proactively achieving a statement of conformity
- Pre-empting client's procurement questions



### How to align AI & Data strategy and maturity?

- Linking value realisation with AI adoption
- Setting risk appetite and ethics principles
- Building AI & Data literacy across the organisation



# Today we will talk about scaling



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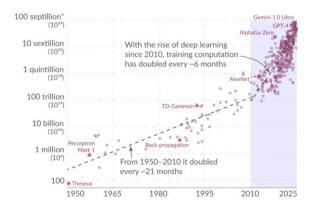
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# The many moving parts make scaling AI difficult

### **Speed of innovation**

#### Training FLOPs of AI systems



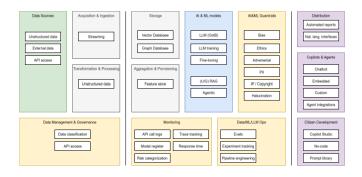
### **Evolving regulation**

#### EU Acts and Directives related to AI, Data, and Cyber

Domain	EU Regulation	Applicability	
Artificial Intelligence	Al Act	Adopted / 2026	
Data protection and governance	General Data Protection Regulation (GDPR)	In force	
	Data Act	In force	
	Data Governance Act	In force	
	ePrivacy regulation	In draft / TBC	
Cyber security and digital resilience	Cyber Resilience Act (CRA)	In force	
	Network Information Security Directive (NIS2)	Adopted / 2027	
	Digital Operational Resilience Act (DORA)	In force	
	Cybersecurity Act	In force	
Product Safety and Conformity	Product Liability Directive – revised	Adopted / 2026	
	Radio Equipment Directive (RED)	In force	
	Machinery Regulation – revised	Adopted / 2027	
	General Product Safety Regulation (GPSR)	In force	
Market and Critical Infrastructure	Digital Services Act (DSA)	In force	
	Digital Markets Act (DMA)	In force	** * *.
Sector-specific	European Health Data Space (EHDS)	Adopted / 2026	l 🚅

### **New architecture requirements**

#### New/enhanced capabilities due to GenAI



### AI in everything



### **Multiple standards**







### **Human nature**







# What keeps executives up at night

Common pain points

How do I **convince**my CRO that we have all
Al risks under control?

How do I manage compliance when I have **100s of Al-products**?

How do we ensure that our Al-products don't **fail silently**?

How can we stay in control over products with **Agentic AI**?

How do I ensure that our AI-products **remain reliable** in a changing environment?



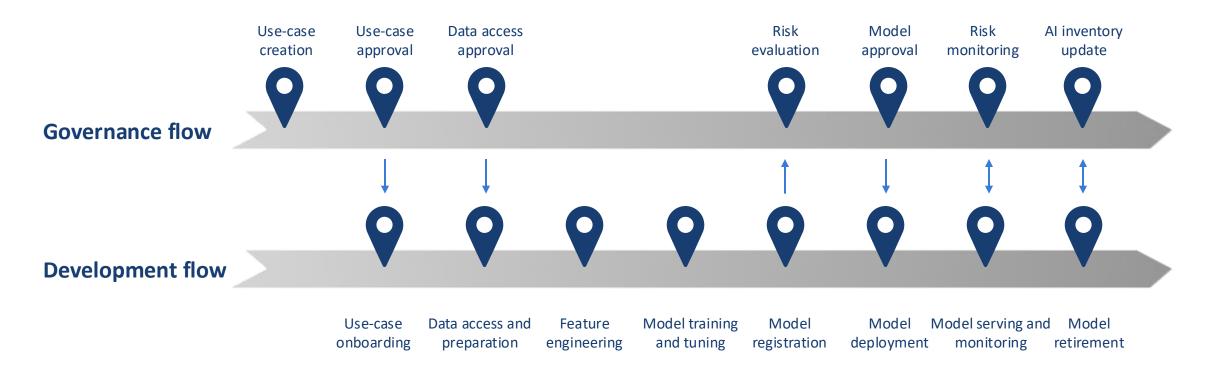
# The right tooling enables the scaling of AI maturity



engineering

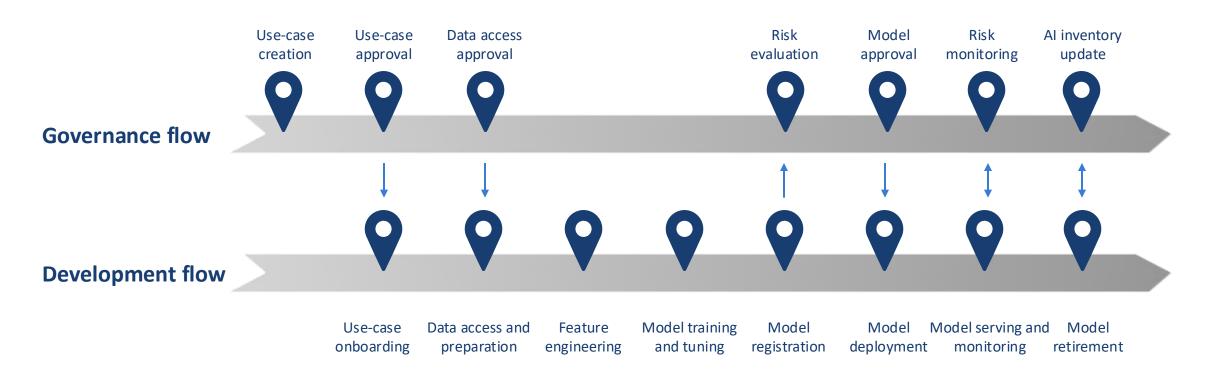


# The right tooling enables the scaling of AI maturity





### The right tooling enables the scaling of AI maturity



Direct benefits of Tooling for Management and Governance



Life Cycle Management



Risk Management



**Compliance Management** 



# **Key features of solid AI governance solutions**



# Life Cycle Management



### Risk Management



# **Compliance Management**

Al Inventory Management

Centralized repository for all AI models, enhancing transparency and tracking across the organization.

Model Performance Monitoring

Real-time AIOps for performance tracking, data drift detection, and anomaly identification.

Bias Detection and Mitigation

Advanced tools to assess and correct biases within AI models to support fairness and ethical AI usage.

Risk Tracking and Mitigation

Frameworks for assessing and mitigating AI-related risks, ensuring accuracy, resilience and reliability.

Risk Visibility and Control

Insight in vulnerabilities and risk patterns across your Al inventory, based on prioritized metrics and controls.

Streamlined Governance

Set policies, define roles, processes, and approval flows to ensure compliance and accountability.

Regulatory Completeness

Access to global AI regulatory databases to track evolving legal and ethical requirements.

Automated Compliance Reporting

Streamlined regulatory compliance processes with automated documentation and audit trails.

Audit and Explainability Tools

Mechanisms for AI transparency, enabling explainable AI and clear documentation of decision-making processes.



# Mapping the tool landscape (simplified)

Archetypes	Typical market positioning	Players (indicative)	
Hyperscalers	<ul> <li>One-stop-shop for broad range of services</li> <li>Fast-follower / last mover strategy</li> </ul>	Microsoft Soogle Cloud WS	
Integrated AI platforms	<ul> <li>Opiniated (often lakehouse-type) architecture</li> <li>Balancing governance and developer experience</li> </ul>	watsonx  data iku  phicks BataRobot   watsonx  data iku  snowflake	
MLOps tools	<ul> <li>Initially developed for science and ML workflows</li> <li>Evolving to address (Gen)Al requirements</li> </ul>	mlflow Catatron  DEEPLOY  Weights & Biases	
LLMOps tools	<ul> <li>Designed to cater to the specific needs of GenAI</li> <li>Emphasis on developer experience and cost control</li> </ul>	△ Arthur LangWatch ★ arize	
Governance tools	<ul> <li>Focus on AI inventory and policy management</li> <li>Prone to tie-in professional services with offering</li> </ul>	credo ai  Asenion  FAIRLY anch.Al  Fairnow	



### **Our selection framework for AI Governance Tools**



### **Market presence**

- Track record of proven success
- Reliability and durability of solution
- Availability of skills in the talent market



### **Tool capabilities**

- Fit with functional and requirements
- Quality standards
- Ease of configuration



### **Innovation**

- Product vision, strategy, and roadmap
- Supplier's innovation capabilities and track record
- Opportunities for co-development



### **Support**

- SLA commitments
- Service delivery track-record
- Onboarding and training resources



Integration

- System resource requirements
- Compatibility with existing landscape
- Available connectors (ingress and egress)



**Compliance** 

- Cyber security and risk management standards
- Regulatory compliance
- Data sovereignty



**TCO** 

- CapEx and OpEx costs (license, maintenance, etc.)
- Features v. Time v. Cost trade-off
- Supplier lock-in

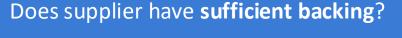


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Is this really **your archetype**?



**Innovation** 

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Support

- SLA commitments
- Service delivery track-record
- Onboarding and training resources

Where will we need internal capabilities?



Integration

- System resource requirements
- Compatibility with existing landscape
- Available connectors (ingress and egress)

Will this really work with your stack?



**Compliance** 

- Cyber security and risk management standards
- Regulatory compliance
- Data sovereignty

- CapEx and OpEx costs (license, maintenance, etc.)
- Features v. Time v. Cost trade-off
- Supplier lock-in

Does the tool cater to **local** and **industry** needs?



**TCO** 



# Quiz





# IBM's watsonx.governance





### **Backing**

- IBM is a global IT solutions powerhouse
- Analyst accolades from a.o.
   Forrester and IDC
- Implemented a.o. at IBM itself (>5,500 objects under governance)



### **Integration**

- Part of watsonx AI & Data platform
- Offered as independent solution
- Integrates with 3<sup>rd</sup> party solutions including AWS and MS and others
- Allows for cloud and on-premise deployment



### **Product vision**

Direct, manage and monitor your AI using a single toolkit to speed up responsible, transparent, explainable AI



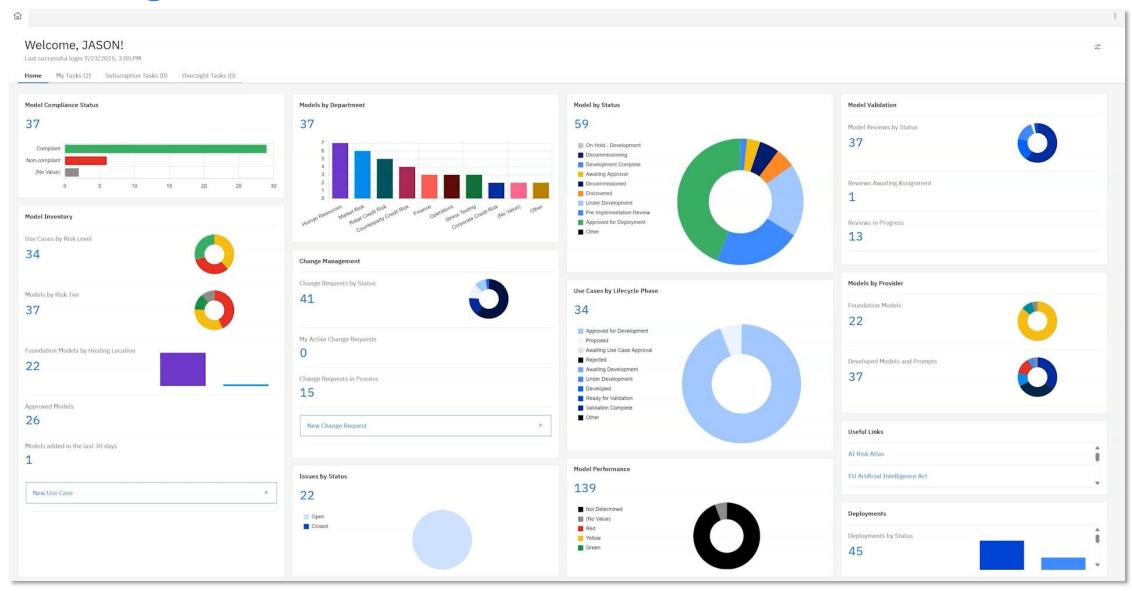
### **Key features**

- Al inventory
- Risk categorization
- Compliance management
- Policy management
- Lifecycle management
- Automated workflows



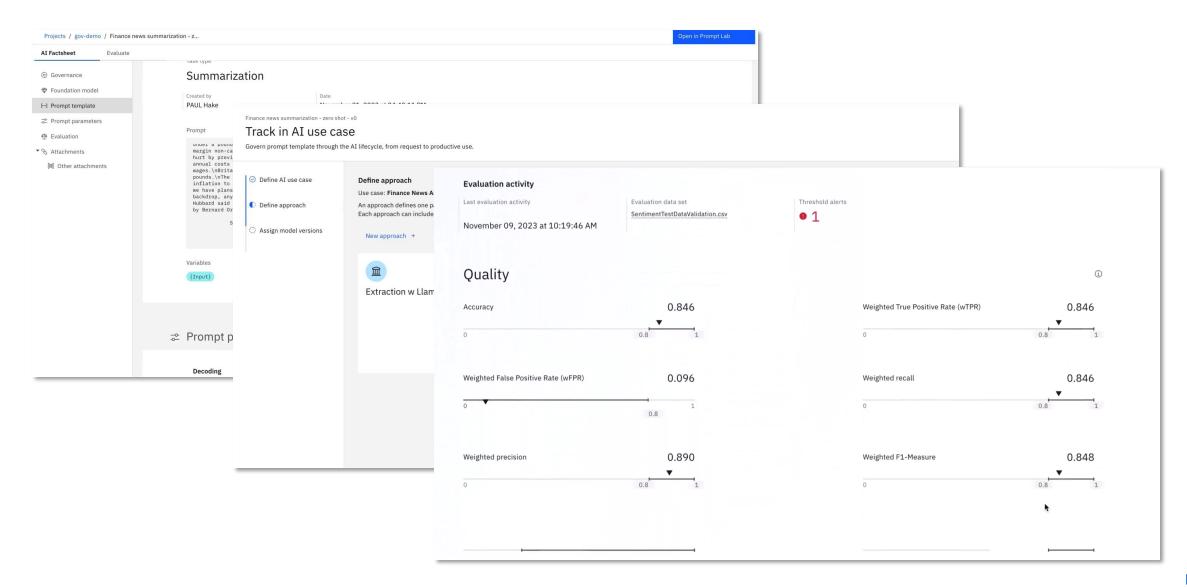


# watsonx.governance dashboard





# watsonx.governance model fact sheets





# **Deeploy**





### **Backing**

- Dutch startup, founded in 2020
- € 6.4M in seed and series A
- € 7.5M grant from the European Innovation Council in 2025
- Main clients in Finance and Health industries



### **Integrations**

- Platform comes as SaaS or Private Cloud
- On AWS and Azure marketplaces
- Integrates with a.o. Databricks
- UI interface and python client for data scientists



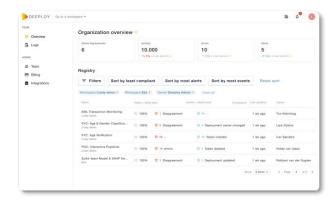
### **Product vision**

Responsibly deploy any ML or AI model; ensuring transparency, compliance and control. Comply with the AI Act.

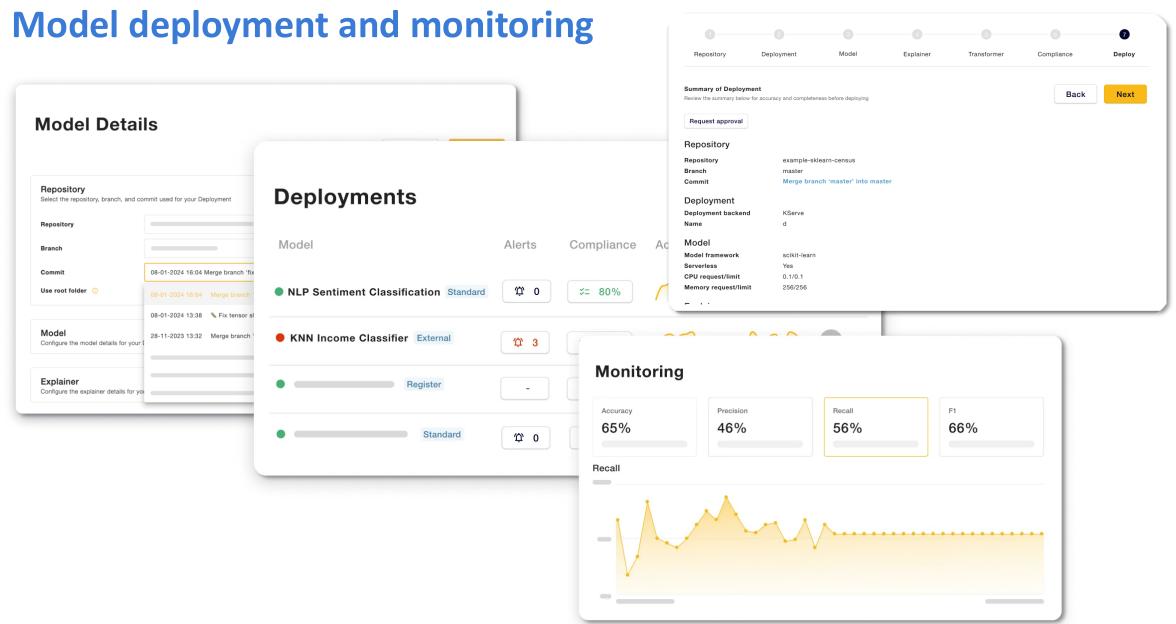


### **Key features**

- Deployment and integration
- Performance and drift tracking
- Alerts and model comparison
- Audit trails and model tracking
- Explainability

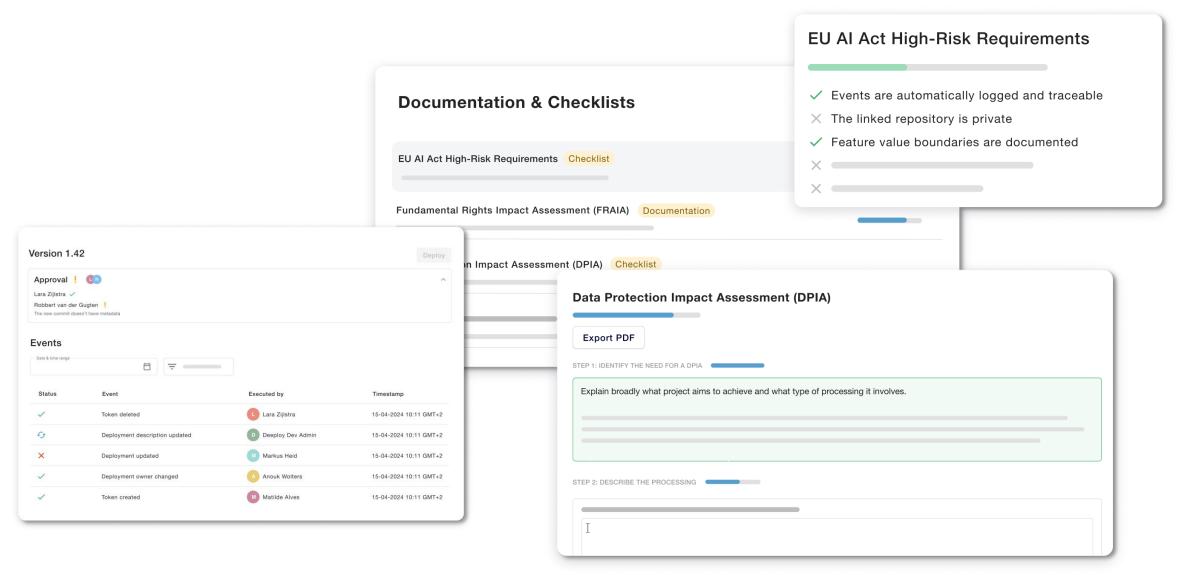






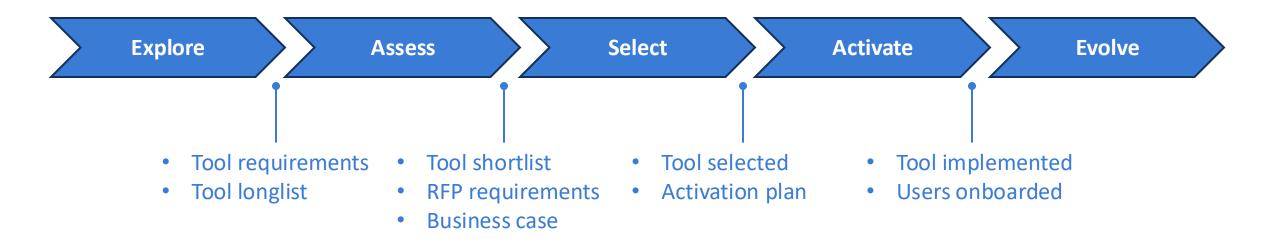


# **Governance and approval flows**





# The Next Step: Our approach for selecting the right tooling



**Direct benefits of Tooling for AI Management and Governance** 



Life Cycle Management



Risk Management



**Compliance Management** 



### **Next steps**



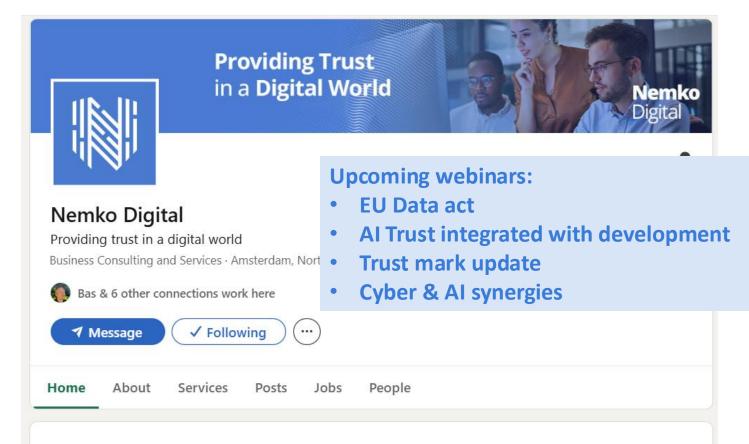
# Al Tooling Exploration: Tailored Insights in a 30 mins call



In this session to help evaluate your requirements and how we can best support you and your team.



# Keep track of our upcoming webinars via our LinkedIn community



#### Overview

We at Nemko Digital provide advisory, assessment, and technical assurance services on digital technologies. As part of Nemko Group with over ninety years of history of contributing to creation of trust, our mission is to enhance safe and trustworthy use of artificial intelligence, data and digital syst ... see more

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