

Outline



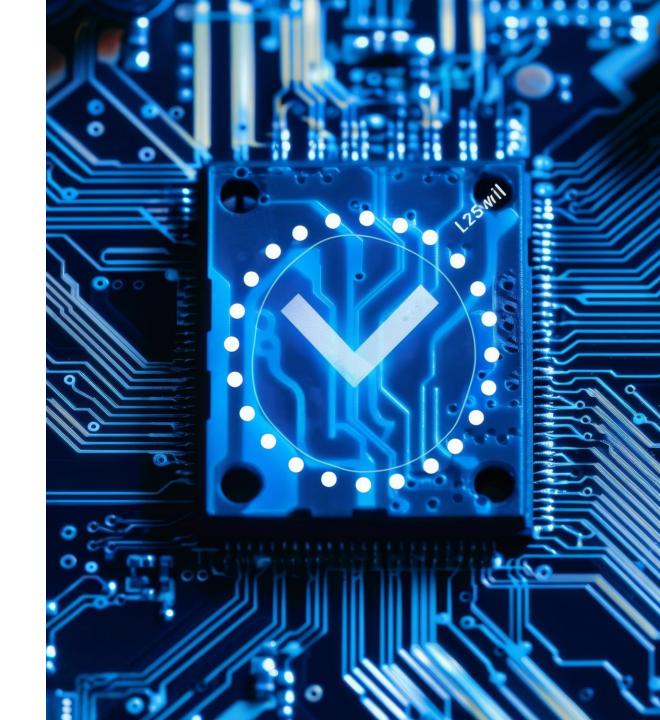
Al Framework and Strategy



Al for Risk Management



Al Risks and Responses







Financial Industry Survey

(Risk.net - Riskonnect, May 2024)

Most respondents (83 - 94%) see AI as an **opportunity** for the sector, their firm and their role

Top 3 areas of **improvement** are:

- Al Risk Management Framework
- Al Strategy and Objectives
- Data Governance

Top 3 **challenges** are:

- Data Availability and Quality
- Regulation Uncertainty and Compliance
- Transparency and Explainability of Models



AIRMF: to be integrated in ERM

- ► Strategy & objectives
 - Where to use AI, and for which objectives?
- ► Risk Identification (risks to objectives)

 What are the risks involved in those uses?
- ► Risk Assessment (upwards and downwards)
 - Which risks increase and decrease as a consequence of moving to AI?
- ► Risk Response (not only mitigation)

 Do they need to be mitigated, accepted or avoided?
- Monitoring (assess and adjust)
 Does everything work as intended?



Al is a tool

- ► Neither good or bad intrinsically
- ▶Its benefits or harm depends on its use
- ▶ Refusing to use it for fear of its misuse carries costs, too



Opportunities - Automation & Productivity Boosts

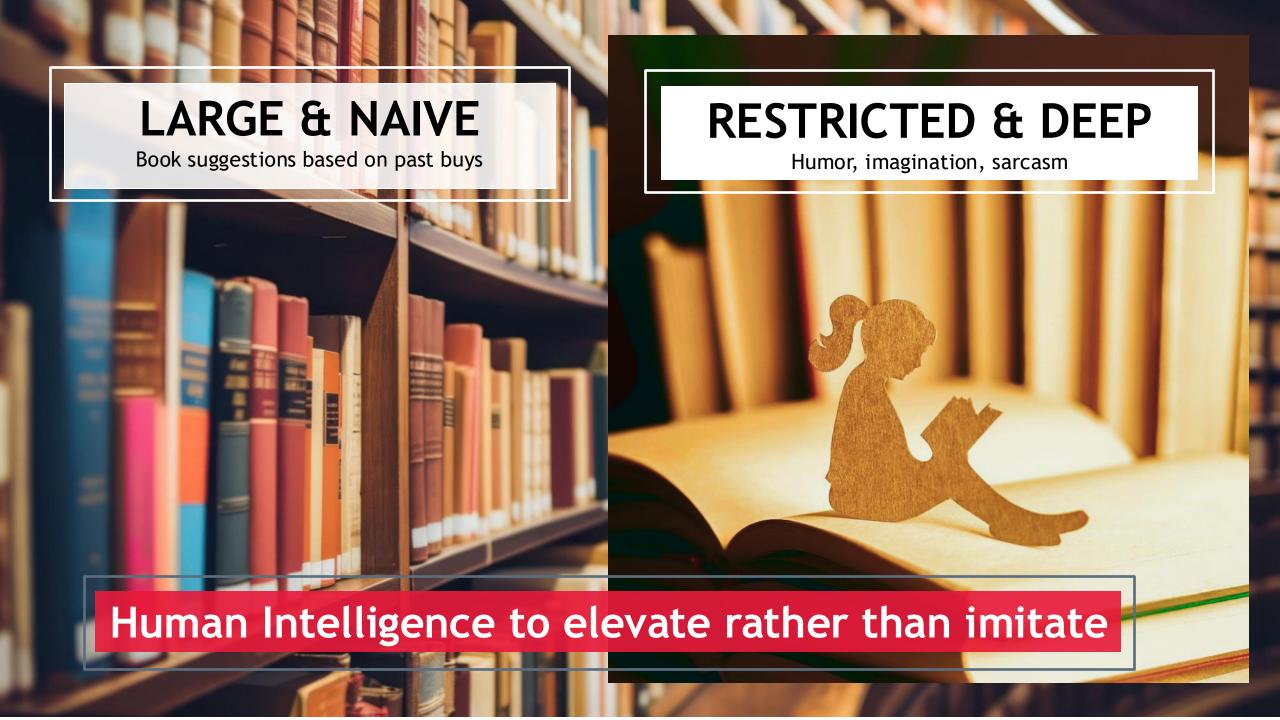
- ► Back-office tasks
- Chatbots / Customer interface
- ► Claims handling
- ▶ Trading / Product selection
- ► Data sorting/text analysis
- ▶ Documentation and Procedures
- ▶ Bibliographical research / Translations / Summaries / Editing

- THE RANGE OF PRACTICE VARIES WIDELY ACROSS FIRMS.
- BUSINESS MODELS WILL BE VASTLY IMPACTED
- DON'T BE A (TOO) LATE ADOPTER.

Some risks related to Al Strategy

- Adoption timing/reluctance from ignorance
 - Competition bypass due to higher costs
 - Obsolescence due to outdated services & products offers
- Over-estimation & under-estimation of AI capabilities
- HR implications
 - Replacement vs Augmentation
 - Firing & re-hiring
 - Skills gap
 - Social tensions

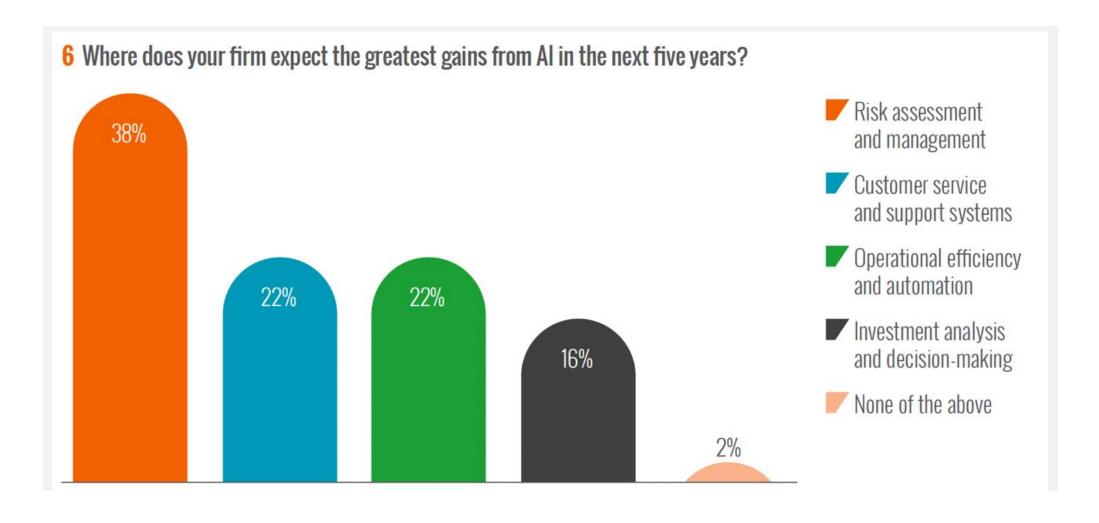








Large untapped potential



Ten current & potential AI applications in ERM

- Outliers detection
- 2. Cyber security (e.g. adversarial models)
- 3. Cleaning and organizing data (e.g. incident reporting)
- 4. RegTech: recommending compliance and controls
- 5. Understanding behavioural drivers
- 6. Improving scenario analysis
- 7. Unsupervised learning for limited data availability
- 8. Identifying risk interdependencies
- 9. Validating KRIs and identifying risk drivers
- 10. Horizon screening for emerging risks



What's in the foreseeable future?

Complexities and interdependencies - using data:

- Better view on risks interdependencies and portfolio approach
 - Managing risks in clusters
 - Prioritizing mitigation of "lead risks"
- Assessment of control layers & effectiveness testing of control systems
- Dynamic risk assessment, fed with automated updates from new, relevant information (requires combined intelligence)







Al risks - Survey Findings

7 Which risks is your firm most concerned about in relation to Al adoption?

Decisions based on inaccurate information	Score: 116
Data privacy and cyber risk	95
Employee misuse and ethical risks	67
Copyright and intellectual property risks	38
Discrimination risks	26

Votes were cast using a scale of 1-3, where 1 denotes the lowest rating, and 3 the highest.

8 What have been the key challenges for your firm in adopting Al?

Data availability and quality	Score: 70
Regulatory uncertainty and compliance	59
Transparency and explainability	50
Cultural resistance and change management	45
Risk management and security	35
Integration with existing systems	29
Talent acquisition and skill gaps	27

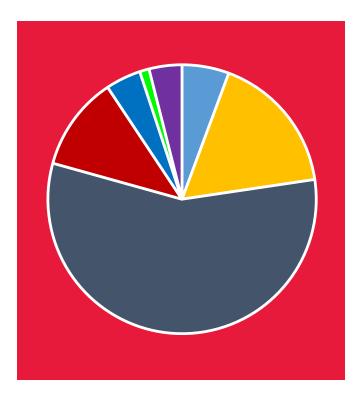
Well-known AI Risks, and elements of response

- Data input (Training set)
 - Quantity -> wider input
 - Quality -> sense checks and continuous cleaning (human and automated)
 - Balance / Bias -> scrutiny and representativity
- Data output (Results)
 - Hallucination -> sense checks and cross-checks (human and automated)
 - Model performance -> regular monitoring + assumptions reviews (model governance)
- Explainability and interpretation -> trade-off explainability / precision
- SME dependencies -> clear and proactive HR policy
- Systems dependencies -> infrastructure maintenance and resilience planning

DATA TRAINING SET: look for age, context relevance and balanced categories







Summary

- ▶ Don't leave it too late: have a proactive AI strategy
- ▶ Integrate risk identification and assessment into each Al initiative
- ► Think of AI to improve risk management



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