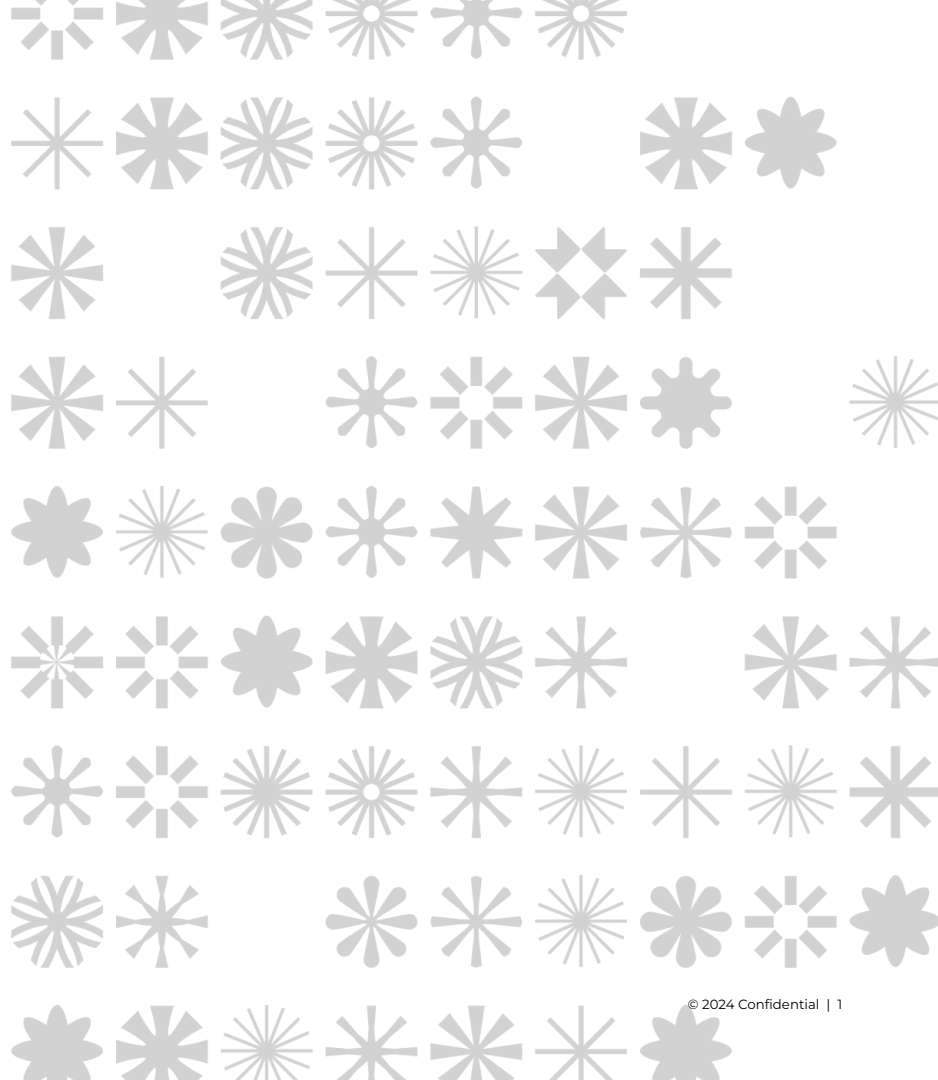


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# AI Governance Workshop





## Agenda

- \* Governance Structures
- \* Governance Key Components
- \* Your Turn
- \* Review Outcomes



## The Goal: Pro-Innovation Mindset

Take advantage of the benefits of AI by getting solutions into production as quickly as possible while mitigating risks to:

- \* Individuals
- \* Groups
- \* Society
- \* The Environment
- \* Your Business



Risk Management:

**Impact \* Probability = Risk Score**

Create a scale and define outcomes



## AI Committee -

Writes policies

Reviews and approves projects

Monitors compliance

## Ethics Committee -

Ethical impact assessments, transparency, fairness

## Data Governance Processes -

Responsible use of data

Quality, Security, Privacy



**ASK:**

- \* How is the training data being vetted to ensure it is diverse and representative of the population?
- \* What steps are being taken to detect and mitigate biases in the AI algorithms?
- \* How will the company support workers who may be displaced or affected by the implementation of this AI system?
- \* What ethical guidelines have been established, and how are they being enforced throughout the development and deployment of the AI system?
- \* How will the company ensure that the decision-making processes of the AI system are transparent and explainable to stakeholders?
- \* How is human oversight integrated into the AI system to prevent the model from reproducing or exacerbating biases?
- \* What measures are in place to prevent users from misinterpreting or misusing the outputs of AI models?
- \* How are intellectual property rights being protected in the AI system's outputs?



## MITIGATE:

- \* Conduct thorough reviews of training data to ensure diversity and representativeness.
- \* Implement bias detection tools and regular audits to identify and mitigate biases.
- \* Develop retraining and support programs for affected employees.
- \* Establish and enforce a code of ethics, including regular ethical reviews.
- \* Use explainable AI (XAI) techniques to ensure transparency and provide clear documentation of AI decision-making processes.



## ASK:

- \* What are the specific validation and testing procedures in place to ensure the AI system's accuracy and reliability?
- \* How will the AI system integrate with existing IT infrastructure, and what are the potential integration challenges?
- \* What redundancy and fail-safe mechanisms have been implemented to handle potential system failures?
- \* How will the AI system be monitored and maintained to ensure ongoing reliability and performance?
- \* What specific cybersecurity measures are in place to protect the AI system from cyber threats?
- \* How will the company address legal or regulatory changes that require significant modifications or retirement of the algorithm?
- \* What measures are in place to prevent "hallucinations" or inaccuracies in the AI system's outputs that do not exist in the training data?
- \* How will the company ensure that the AI use case can scale without performance issues?
- \* How will the company ensure that the right algorithm and dataset are used for the specific business problem?
- \* How will the company handle unplanned resource consumption requirements that could result in budget overruns?





## MITIGATE:

- \* Implement rigorous validation and testing protocols, including unit, integration, and system testing.
- \* Conduct thorough integration testing and develop a detailed integration plan.
- \* Use redundant systems, backup procedures, and failover mechanisms to ensure system continuity.
- \* Establish a monitoring framework with real-time alerts and regular maintenance schedules.
- \* Employ advanced cybersecurity measures such as intrusion detection systems (IDS), regular security audits, and secure coding practices.



**ASK:**

- \* How will the company communicate the AI system's purpose and benefits to the public and stakeholders?
- \* What measures are in place to address potential ethical concerns or public backlash related to the AI system?
- \* How will the company ensure that the AI system's operations are transparent and that stakeholders understand how it works?
- \* What steps are being taken to build and maintain trust with the public regarding the AI system?
- \* How will the company monitor public sentiment and respond to negative feedback or issues related to the AI system?
- \* How will the company handle accountability and clearly define responsibility for the AI use case?
- \* How will the company prevent the misuse of AI outputs by users that could cause harm?
- \* How will the company address issues related to the vendor claiming ownership over all inputs and outputs within the algorithm?



## MITIGATE:

- \* Develop a comprehensive communication strategy, including public announcements and stakeholder briefings.
- \* Establish an ethics committee to oversee AI development and address concerns.
- \* Use transparency tools such as dashboards and reports to provide insights into AI operations.
- \* Engage in public outreach and education efforts to build trust and address concerns.
- \* Implement a feedback loop to monitor public sentiment and promptly address issues and concerns.



## ASK:

- \* What is the detailed projected return on investment (ROI) for this AI project, and how was it calculated?
- \* What are the specific financial risks, such as cost overruns or lower-than-expected returns, and what mitigation strategies are in place?
- \* How does this AI project align with the company's long-term strategic goals and market needs?
- \* What budget and resources have been allocated for the AI project, and are there contingency plans for potential financial challenges?
- \* How will the AI system be kept competitive and up-to-date with market and technological advancements?
- \* How will the company handle urgent, emergent risks that are not addressed in time to prevent unacceptable impact to the business?
- \* How will the company ensure that decisions made by the AI system are traceable back to a clear rationale?
- \* How will the company prevent the AI system from becoming obsolete due to rapid advances in technology?



## MITIGATE:

- Develop detailed ROI projections based on comprehensive market analysis and financial modeling.
- Implement cost control measures, regular financial reviews, and have contingency funds in place.
- Ensure the AI project is aligned with strategic business objectives and market demands.
- Allocate a realistic budget with a buffer for unexpected expenses, and regularly review financial performance.
- Establish a process for continuous improvement and updates to keep the AI system competitive and aligned with technological advancements.



## ASK:

- \* How is sensitive data being protected and encrypted throughout its lifecycle?
- \* What access control measures are in place to prevent unauthorized access to data?
- \* How is the AI system ensuring compliance with GDPR, HIPAA, or other relevant data protection regulations?
- \* How are data integrity and accuracy ensured in the AI system?
- \* What protocols are in place for handling and responding to data breaches or security incidents?
- \* How is sensitive data (e.g., confidential or personal) used to train the model being protected from exposure in the model's outputs?
- \* How is the AI system ensuring that data used to train the model achieves the intended use and addresses issues like data labeling, sampling methodology, and errors or omissions in the training dataset?
- \* What measures are in place to prevent unauthorized access and data breaches?
- \* How is the vendor ensuring the privacy and security of data used and produced by the AI system?
- \* How are data validation and accuracy processes implemented to ensure integrity?



## MITIGATE:

- \* Implement strong encryption (AES-256) and secure communication protocols (TLS/SSL).
- \* Use multi-factor authentication (MFA) and role-based access controls (RBAC).
- \* Regularly update policies and conduct training to ensure compliance with regulations.
- \* Use checksums, hash functions, and regular audits to ensure data integrity.
- \* Develop and test an incident response plan, including procedures for data breach notification.



Make structures actionable

These systems can be  
put in place today,  
within your  
organization





Asking the right questions early and often

The key is to develop  
these “muscles”  
incrementally, with  
practice comes mastery



How might we?

*Operationalize governance in an integrated, holistic way by involving diverse perspectives*

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Your turn! (30 minutes)



Regroup and share!

What recommendation did your group make?

Why? What categories were most impactful toward the recommendation?

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Thank you

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