



AI Risk Management

December 2020



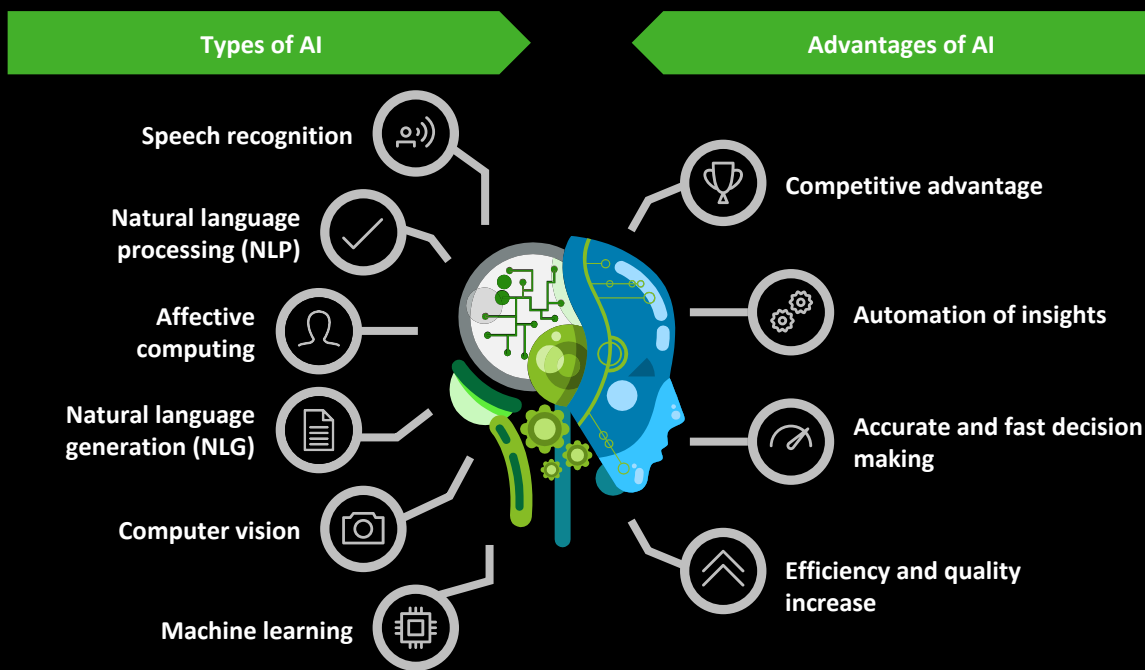
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# Risk management throughout the Artificial Intelligence (AI) lifecycle

## What is AI and what can it do for your organisation?

### What is AI?

**Artificial intelligence** is the development of machines capable of performing tasks which typically require human intelligence



## Deloitte can help you manage the AI related risks

The implementation and use of AI brings along some important risks to consider. These risks contain both risks inherent to AI, as well as risks related to the business processes it automates. Deloitte can help you manage these risks.

### Example AI specific Risks

#### Algorithmic bias

Dependence on a continuously evolving dataset that drives AI decisions make it harder to identify inherent bias in the model

#### Algorithmic inaccuracy

Incorrect type of algorithm applied to a problem, poor data quality or suboptimal choice of algorithm parameters

#### Algorithmic misuse

Increased probability that business users may lack adequate understanding of complex AI model limitations and incorrectly interpret the output

#### Algorithmic feedback

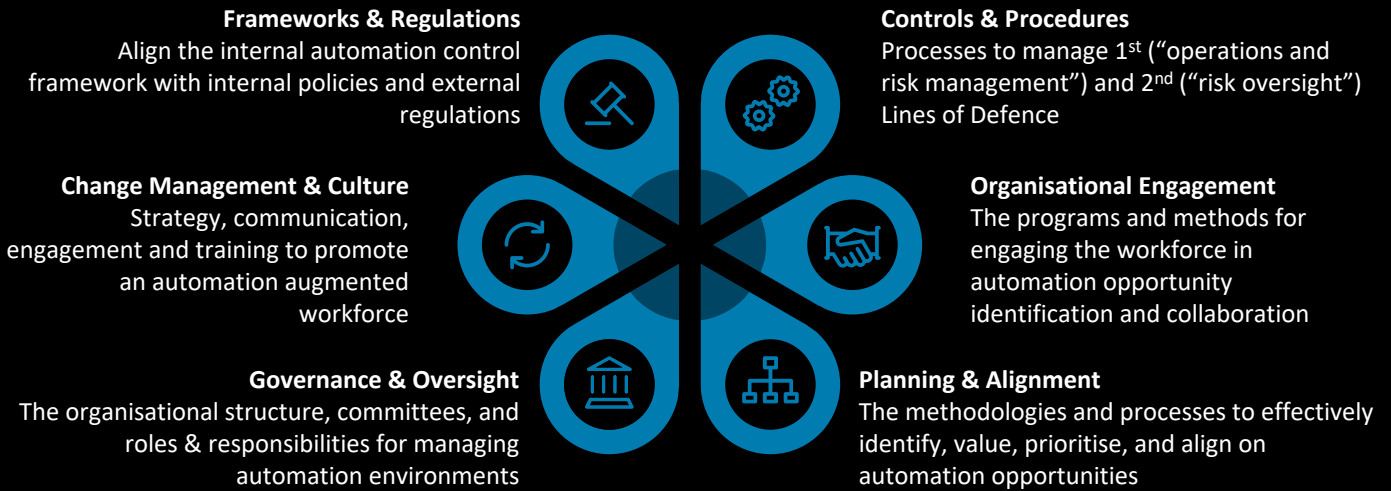
Increased risk of inappropriate feedback going undetected may compromise the solution's ability to produce accurate results

### Business risk

Technology	People	Operational	Continuity
Strategic	Cyber	Regulatory	Financial

## Risk and control framework

The Deloitte Risk and Control framework can help your organization with the implementation of artificial intelligence solutions in a secure, compliant and manageable way by making your company's IT Governance and Risk framework AI ready.



### Getting started with A.I.



#### Readiness assessment

Just getting started with AI? We can provide information on the risks an organization needs to address to be AI ready. We do this by assessing the current and desired levels of AI maturity. We then perform a risk and gap assessment to establish the as-is AI maturity level.

Based on the as-is maturity level we provide a high level report of the artificial intelligence readiness of your organization categorized into three main domains: people, processes and technology. The readiness assessment will be the input to establish an AI strategy.

#### Readiness assessed

To determine the AI strategy, it is crucial to have an objective source of information comparing the current maturity level to similar organizations in the market. Using comparative AI Risk studies in combination with the risks and opportunities identified during the readiness assessment, we help the organization in the development of the automation strategy.

#### Quick Scans Benchmarks



### Strategy defined



#### AI Risk Workshops

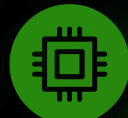
Find out how your organization can leverage the power of AI. The Technology and digital risk team offers the opportunity to brainstorm about the roles and risks of AI within your organization together with our experts in the field. We will discuss your business and processes and identify potential AI related risks. We will then help you develop a risk control framework and look for program and project investments which can create value within your organization by using this framework.

#### Processes developed

When the AI strategy has been defined and/or the AI processes and risk control frameworks have been designed and/or implemented, Deloitte can help in both the risk evaluation of the existing AI systems and processes as well as develop new AI solutions to support the strategy. A couple of example domains where Deloitte has built expertise over the years are the following:

Prototyping – Explainable AI – Bias and Ethics risk assessments – Data anomaly and risk detection – Table extraction  
All of these solutions are designed to help you discover new ways of leveraging AI in your organization or improve the maturity of already existing processes.

#### Deloitte aiStudio



#### Maturity increased



#### AI Audit

When your AI processes have been implemented, there are still a great deal of risks to overcome. These can range from IT and cyber security as well as compliance and ethics. We can help you gain assurance over the implemented IT and business cycle controls with relation to AI. We assess controls related to identity and access management, change management, data integrity, IT operations & processes and business continuity. Based on this assessment we provide recommendations to improve your AI control framework to increase the level of artificial intelligence maturity within your organization.

### High A.I. maturity

## Contact



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