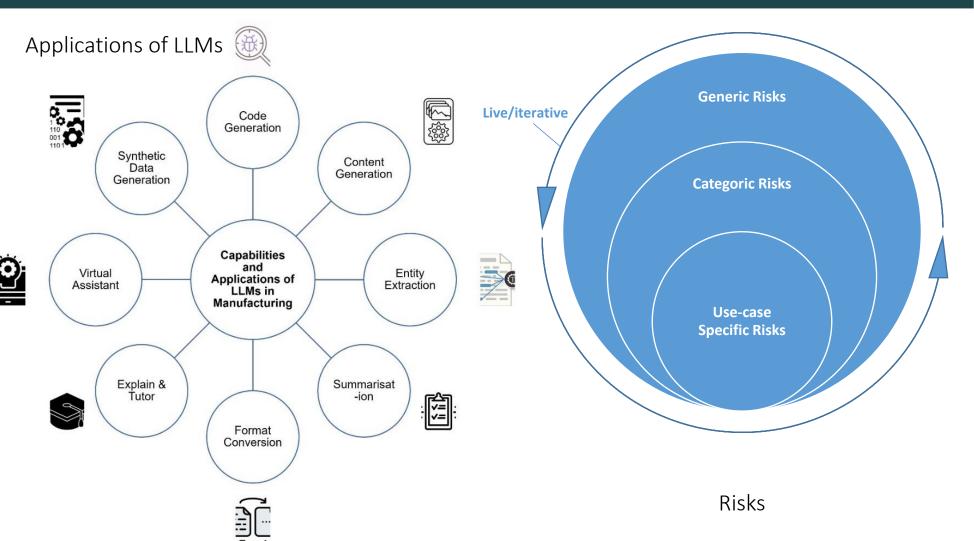
Applications of LLMs & Risks

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Externally hosted AI services including Large Language Models (LLMs), such as ChatGPT, can offer **great benefits** to organisations in manufacturing when customised to their usecases or integrated into their systems improving their efficiencies.

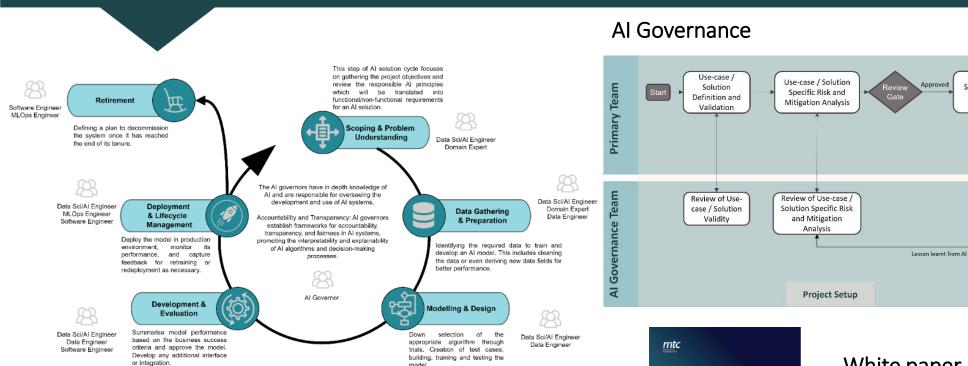
However, these benefits come with several **important risks** emerging from emerge from third-party data, software, hardware, or policies. Examples of such risks are:

- · Sharing sensitive data
- Lack of transparency
- Legal implications (e.g., Intellectual Property (IP) infringement and use of customers data)

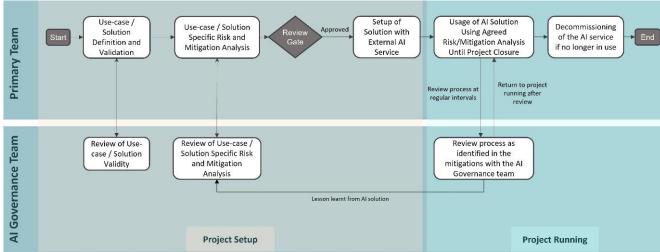


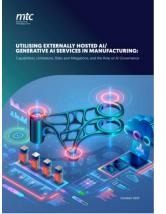
Developing the Process of Using Externally Hosted Al Services and the Role of Al Governance

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Al Development life cycle





White paper:

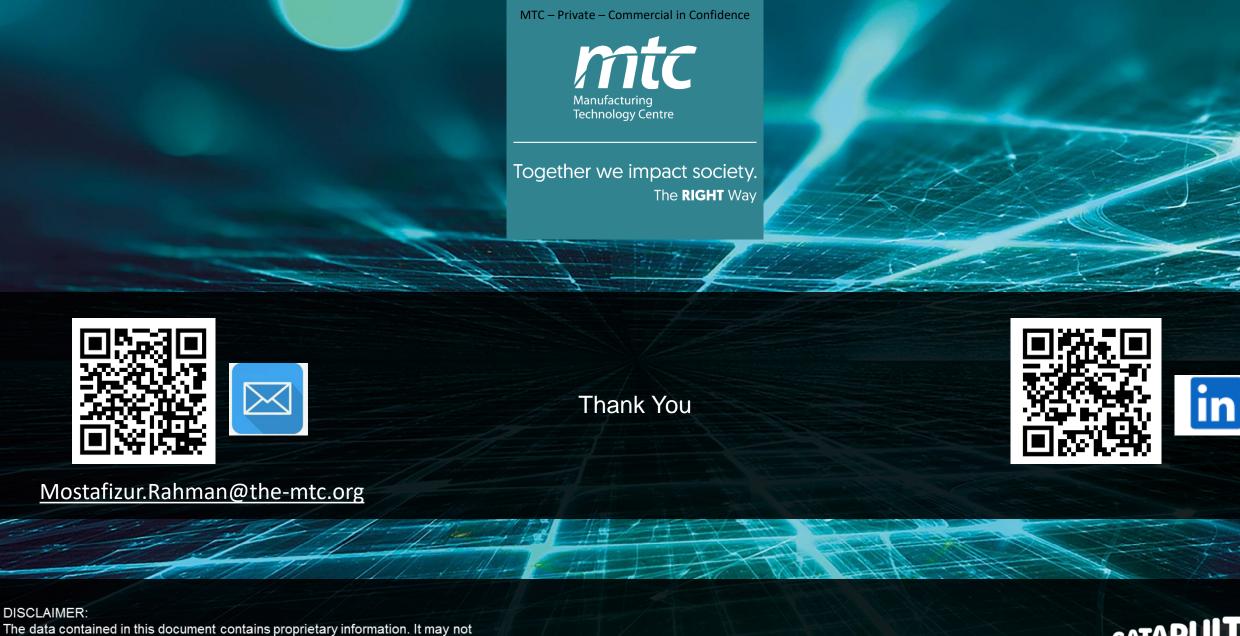
UTILISING EXTERNALLY HOSTED AI/ **GFNERATIVE AI SERVICES IN** MANUFACTURING: Capabilities, Limitations, Risks and Mitigations, and the Role of Al Governance

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Discussion: G7 Guiding Principles on generative Artificial Intelligence

Principle 1: Take appropriate measures throughout the development of advanced AI systems, including prior to and throughout their deployment and placement on the market, to identify, evaluate, mitigate risks across the AI lifecycle.

- Principle 2: Identify and mitigate vulnerabilities, and, where appropriate, incidents and patterns of misuse, after deployment including placement on the market.
- Principle 3: Publicly report advanced AI systems' capabilities, limitations and domains of appropriate and inappropriate use, to support ensuring sufficient transparency.
- Principle 4: Work towards **responsible information sharing** and reporting of incidents among organizations developing advanced AI systems including with industry, governments, civil society, and academia.
- Principle 5: Develop, **implement and disclose AI governance and risk** management policies, grounded in a risk-based approach including privacy policies, and mitigation measures, in particular for organizations developing advanced AI systems.
- Principle 6: Invest in and implement robust security controls, including physical security, cybersecurity and insider threat safeguards across the AI lifecycle.
- Principle 7: Develop and deploy **reliable content authentication** and provenance mechanisms such as watermarking or other techniques to enable users to identify AI-generated content.
- Principle 8: Prioritize research to mitigate societal, safety and security risks and prioritize investment in effective mitigation measures.
- Principle 9: Prioritize the **development of advanced AI systems** to address the world's greatest challenges, notably but not limited to the **climate crisis**, **global health and education**.
- Principle 10: Advance the development of and, where appropriate, adoption of where appropriate, international technical standards.
- Principle 11: Implement appropriate data input controls and audits.



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