

Artificial Intelligence (and Cyber Security)

Samantha Smith – Director of Socitm Institute (Inspire)

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PURPOSE AND SCOPE OF THIS SESSION

Al vs Cyber Security

Socitm influencing policy, collaborating, undertaking research, providing guidance and tools

Practical help available now

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Opportunities, challenges and risks

\bigcirc Al and cyber security

Samantha Smith

Director of Socitm Institute (Inspire)

27 years in Local Government

- Started work for Cambridgeshire County Council specifically supporting social workers using IT, in particular a Social Care database.
- Worked in various technical and then managerial roles for CCC before moving to first of 3 different shared services across 9 different local authorities,
- Within LGSS I was responsible for creating the IT Strategies for LGSS and our customers (5 local authorities and a Health trust)

Including 9 years working with Socitm

- Regional Chair & Vice President (2016 – 2018)
- President (2020 2022)

Current

 Now in a new full time role as Director of Socitm's 'Inspire' Institute



Socitm institute – what is it?

The institute, known as **Socitm Inspire** is the home for...



We will answer...

Why is everyone talking about AI?



We will answer...

What are Large Language models?



We will answer...

How is AI being used in local government?



We will answer...

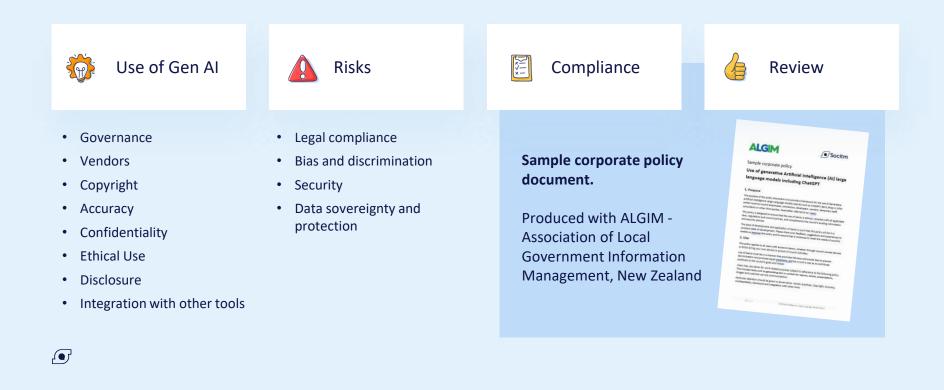
How can we help ensure we get the benefits and safeguard against the harms?

We will answer...

Is AI a threat to Cyber Security, or part of the solution?



Practical help: guidelines

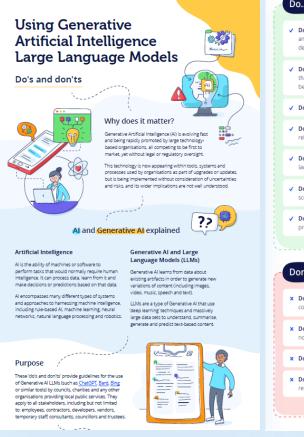


Practical help infographic

Do's & Don'ts

Guidelines for the use of Generative AI LLMs by councils, charities and other organisations providing local public services

Find it on Socitm's resource hub



D	0		
~	Do maintain human oversight and responsibility for making final decisions on output produced	✓ Do use to improve and refine existing content	
~	Do notify your manager and disclose that Generative AI LLMs have been used to generate output	 Do use to analyse publicly- available data 	
		 Do fact check material generated by Generative AI LLMs 	
~	Do use responsibly and ethically	 Do be aware of the potential for disinformation and scams being generated 	
1	Do use in accordance with relevant organisation policy		
~	Do comply with relevant laws and regulations	 Do take care to avoid use of output that may breach copyright or intellectual property rights 	
~	Do specify the definitions and scope of your prompts with care	 Do be aware of risks including accuracy, bias, discrimination, 	
~	Do use to create draft briefings, reports, presentations, customer responses, etc.	confidentiality and security	
D	on't		
×	Don't use to record and process confidential data and information	 Don't use if you are in doubt about the security of data or information being input 	
×	Don't use to store or release non-public records	× Don't assume that all of the output generated is factually correct	
×	Don't use for private individual records	x Don't use if data sovereignty practices	
×	Don't let go of moral and ethical responsibility for output	of the Generative AI LLM supplier contravene any applicable legal and/or regulatory requirements	



Future plans

Socitm Institute:

- Collection of use cases and their transferability
- Place-based leadership training
- Policy position for use in local public services, ethics, security, impact on people, communities and places

St George's House AI – Threats & Opportunities consultation

- Misinformation
- Social Disruption
- Dangerous Activities
- Lawmaking and Regulatory Functions



Artificial Intelligence - why it matters

The rate at which organisations are making use of AI is already:

- transforming ways of working
- changing consumer expectations

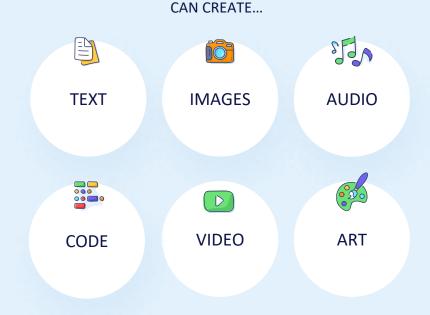
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Amara's law - "we tend to overestimate the effect of a technology in the short run and underestimate the effect in the long run"

In the case of AI, it may be the other way round; we're **talking too much** about artificial general intelligence in the decades to come, **not enough about AI at work now**.

GenAl Definition

Generative artificial intelligence (GenAI) can create new, realistic, human-like generated content using patterns and relationships learned from massive amounts of (usually public) data on which it has been trained.



GenAl Application

Wider application across local governments and other public service organisations, because it can...



Produce a range of useful outputs, like text, audio, images and code



Respond to natural language prompts, so any officer, politician or resident can use it

Understand different types of data - useful given that local public services hold large amounts of unstructured data in a variety of formats

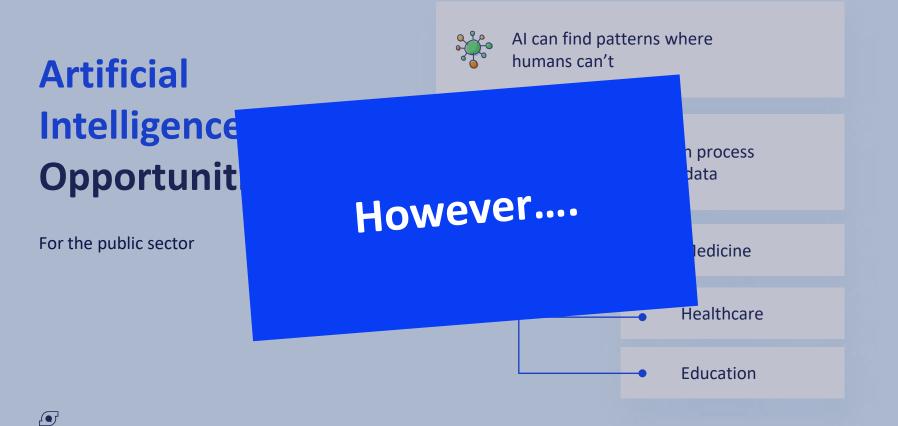
Other types of Al used by local government

Those tend to have very specific uses.



Machine learning

→ Robotic process automation



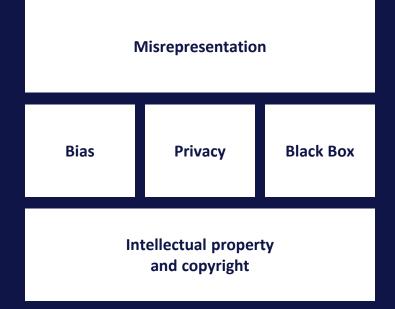


The Twelve challenges of Al governance

Bias	Privacy	Misrepresentation		
Access to data	Access to compute	Black Box	Open-source	
Intellectua and co		Employment		
Interna coordi		Liability	Existential	



The Twelve challenges of Al governance



Artificial Intelligence Risks





Artificial Intelligence & cyber security

- AI already used in Cyber Security monitoring
- Safe and secure use of AI what needs to be in place to assure this?
- Information Governance Data Protection Impact Assessments (DPIA)s
- How prepared are you to respond to a data breach generated by AI?
- Election Security is AI playing a role?

Artificial Intelligence & cyber security

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The London Office of Technology and Innovation

10 ideas for a roadmap of responsible AI in local government

Publication | 25 April, 2023

Chatbot-GPT – What does it mean?

Authors and contributors: Mark Brett

Synopsis:

Chat-GPT is an example of an Artificial Intelligence "AI" programme. These "Large Language Models" (LLMs) are continuing to develop at an ever-accelerating rate. There are several key issues to consider. The UK Government AI Strategy is a good starting point to <u>understand the context</u> and <u>background</u>. It's also very useful to understand <u>where AI fits into the wider Data Science and</u> <u>Information Management</u> disciplines.

Produced by Mark Brett, Socitm Associate, and Trusted Cyber Security and Resilience Advisor.



"As far as bad actors are concerned, it's a win-win"

Professor Muttukrishnan Rajarajan, Director of the Institute for Cyber Security at City, University of London

AI in cybersecurity: blessing or curse?

Generative Al ups the ante for cyber criminals

Global consumers aren't the only ones using generative AI – cyber criminals are adopting it too. This has huge implications for global cybersecurity



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Raconteur

CYBERSECURITY & THE CTO

What can we do?

We can...



Align governance

Utilise toolkits

Invest in leadership skills





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