

Artificial Intelligence (AI) in Civil Engineering

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Use of Artificial Intelligence
Technologies

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Agenda

- Inherent limitations
 - Human-Centered Design
 - Security & Safety
 - Privacy
 - Transparency
 - Equity
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Inherent limitations

It's crucial to use AI tools ethically and responsibly, ensuring they support the City's commitment to accurate, unbiased, and respectful communication with the public. This includes acknowledging the potential for AI to generate plausible but incorrect or nonsensical answers and using human oversight to mitigate this risk.

Example: Language Access Tool and Microsoft Word translator.



Human-Centered Design

AI systems shall be developed and deployed with a human-centered approach that evaluates AI powered services for their impact on the public.

Example: Bind. Matching checks with unpaid utility bills.



Security & Safety

AI systems are required to maintain confidentiality, integrity, and availability through safeguards that prevent unauthorized access and use. Implementation of AI systems is reliable and safe, and minimizes risks to individuals, society, and the environment.

Example: Multi Factor Authentication enabled AI Tools.
Microsoft Office 365 CoPilot.



Privacy

Privacy shall be preserved in all AI systems by safeguarding personally identifiable information (PII) and sensitive data from unauthorized access, disclosure, and manipulation.

Example: Do not load datasets with sensitive information or Intellectual Property.



Transparency

An AI system, its data sources, operational model, and policies that govern its use are understandable and documented.

Example: Document AI use cases. Simplify. Invoice Analysis Capabilities.



Equity

AI systems shall support equitable outcomes for everyone. Bias in AI systems shall be effectively managed with the intention of reducing harm for anyone impacted by its use.

Example: Bake purchasing policies within AI based processes that evaluate RFP responses.

Q&A

