

**Sustainability**

**Impact of AI on a Sustainable World**

**Roundtable Summary**

Generative AI has become a powerful tool in recent years, with applications ranging from language generation to image and music creation. However, with great power comes great responsibility. As the use of generative AI becomes more prevalent, it is crucial to consider its implications on a sustainable world, considering the future of education, the future of work, and the future of sustainable data practices. Part of the content for this roundtable session was generated using Chat GPT to showcase how language models have potential benefits and risks in their use and to highlight sustainable issues.

In this session we will discuss and share perspectives around the following questions;

1. Let's start with some of implications of generative AI is having on our world and how it connects to sustainability?
2. There has been a lot of discussions about the risks of Generative AI (illusions, ethics, IP problems, equity) what are the practices that need to be developed and how do they intersect with sustainability?
3. In what ways do you think generative AI can support sustainability efforts in education and research?
4. What are the implications generative AI on the workforce of the future?

**Background/Context**

Generative AI is a type of artificial intelligence that uses machine learning algorithms to generate new data that is like or derived from existing data. It has become increasingly popular in recent years due to advancements in computing power and data processing capabilities.

One of the most significant applications of generative AI is in natural language processing, where large language models like GPT have been used to generate human-like text and conversational responses. These models are trained on vast amounts of data, allowing them to generate text that can be difficult to distinguish from that written by a human.

Generative AI has the potential to revolutionize various fields such as education, healthcare, and entertainment, by generating personalized content, diagnoses, and recommendations. In the field of art, generative AI is being used to create new forms of artistic expression, and in business, it is being used for tasks like automated content creation, chatbots, and product recommendations.

However, with the increasing use of generative AI comes the need to address potential ethical and social implications. For example, generative AI may perpetuate biases that exist in the training data used to develop these models. There are also concerns about the potential impact of generative AI on employment, as it may automate certain tasks that are currently performed by humans. Additionally, the high energy consumption required for training and using large language models raises concerns about the sustainability and environmental impact of using these models.

**Additional Resources:**

[Five AI issues to consider right now \(boardagenda.com\)](https://boardagenda.com)

[A non-technical introduction to ChatGPT and Generative AI - YouTube](#)

**Roundtable Chair**



**JoAnn Stonier**  
Chief Data Officer  
Mastercard  
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JoAnn Stonier serves as Chief Data Officer for Mastercard, leading the organization's data strategy and innovation efforts while navigating current and future data risks. JoAnn is a global data expert and strategist with extensive experience creating data strategy and management programs. At Mastercard, she oversees the curation, quality, ethical use, governance, and management of the company's global data assets.

JoAnn and her team design and operationalize Mastercard's global data strategy, including the development of enterprise data platforms, the global data responsibility imperative, & guide the enterprise deployment of cutting-edge data solutions, including advanced analytics and AI. Her leadership is integral to Mastercard's push to deepen the strategic value it can provide its merchant, banking and government customers and cardholders through its expanding data-driven products, service capabilities and thought leadership