

# The Unexpected Uses of AI

The discussion around AI has often revolved around its economic impact.

We are just beginning to uncover the immense possibilities of AI—what we see now is just the tip of the iceberg.

## AI as an Advisor to Mother Nature

Conservation organizations and research teams worldwide are using AI models to predict wildlife movements, aid in disaster recovery efforts, and even help understand how wildlife communicates.

### AI Use

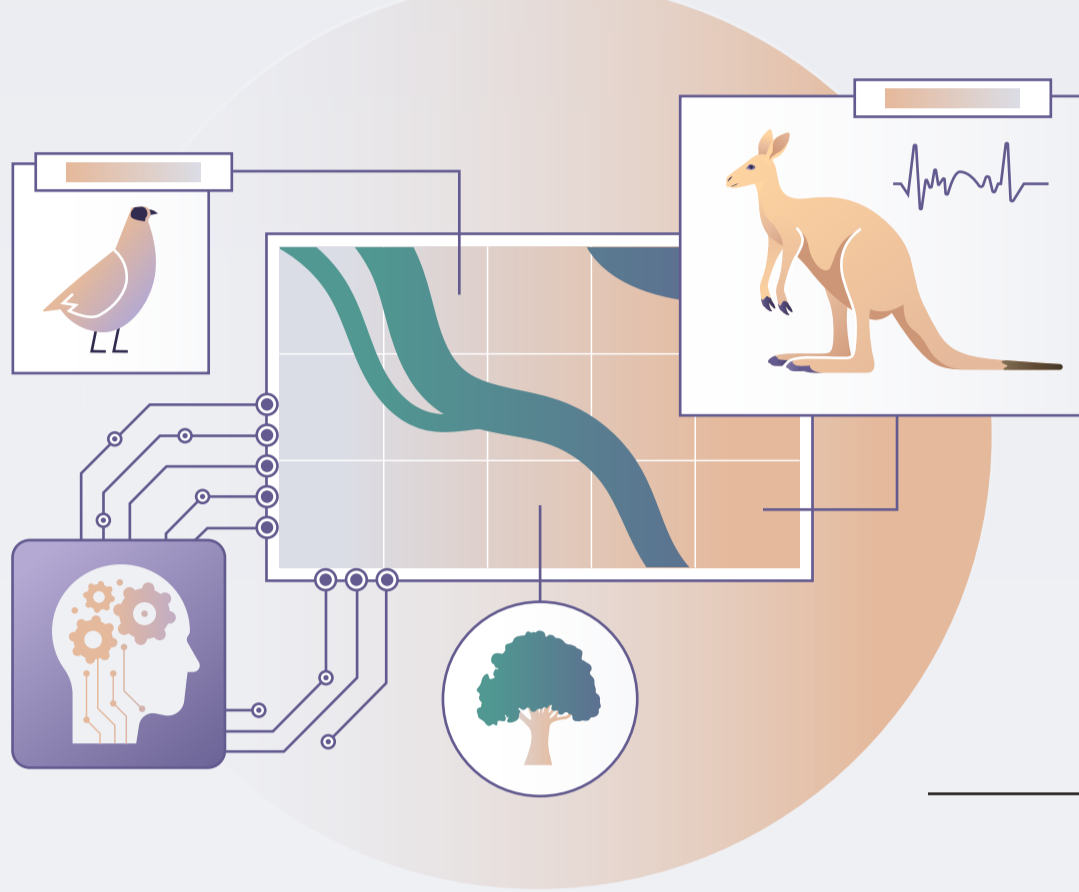
### AI In Action

Sustainable Beekeeping

Safe, eco-friendly beehives made from modern materials use AI to regulate temperature and detect parasites, reducing bee mortality by up to 80% compared to standard hives.



Wildlife Monitoring



After the 2020 Australian wildfires caused incredible harm to wildlife, an AI developed by the WWF and Google evaluated 7 million images in weeks, helping to guide the environmental recovery.

Understanding Animals

The Earth Species Project uses AI to analyze bioacoustics and behavioral ecology to try and study animals' complex communication patterns.



Sources: Arm; WWF; EarthSpecies.org

## AI as a Tool for Sustainability

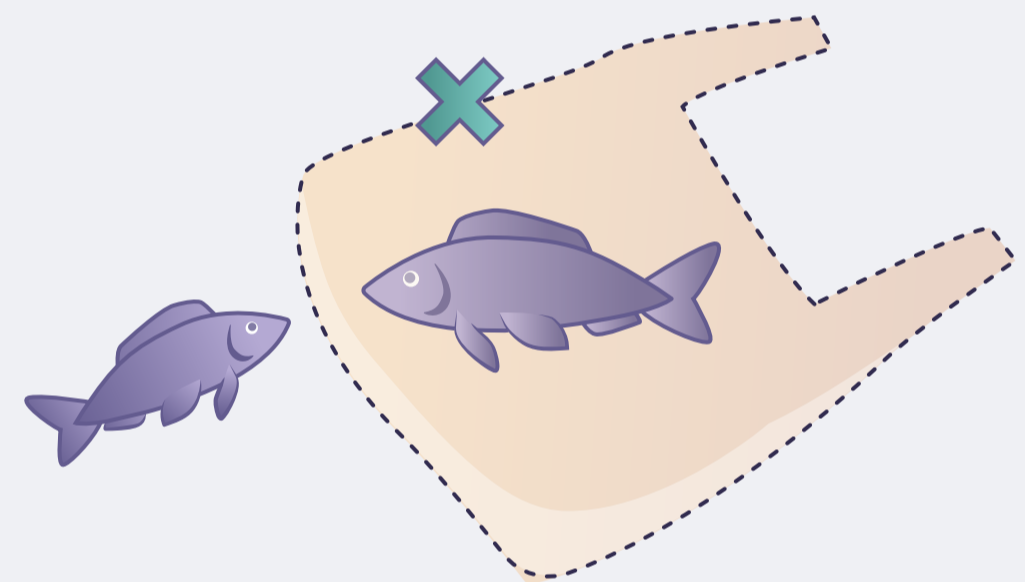
The computing potential of AI can be used to make the world a greener and better place.

### AI Use

### AI In Action

Removing Waste from the Ocean

AI developed by the Ocean Cleanup has contributed to removing **16 million KG** of waste from oceans and rivers by analyzing images to find waste.



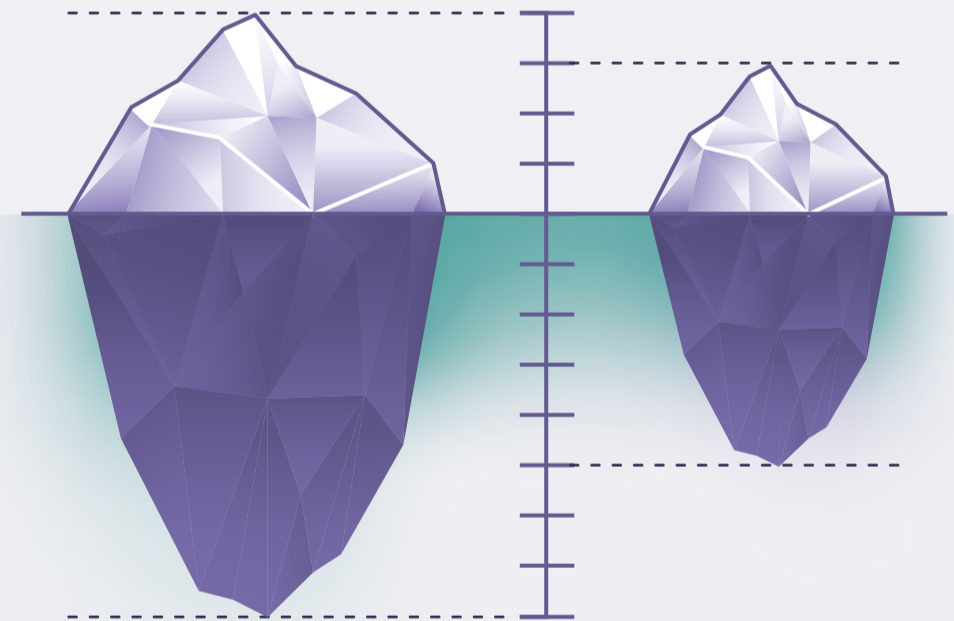
Improving Recycling



Greyparrot used AI to monitor **32 billion waste items** across 67 categories in 2022, and identified 86 metric tons of waste that could otherwise be recycled.

Monitoring Environmental Changes

The U-net AI analyzed satellite imagery to map changes in iceberg sizes **10,000 times** faster than any human.



Sources: The Ocean Cleanup; Greyparrot via World Economic Forum; European Space Agency

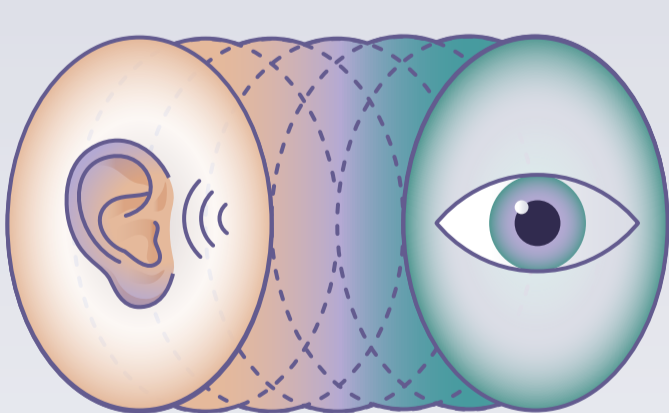
## AI as an Instrument for Art

By working with AI, artists can enhance their creative processes, bringing new and unique works of art to life.

### AI Use

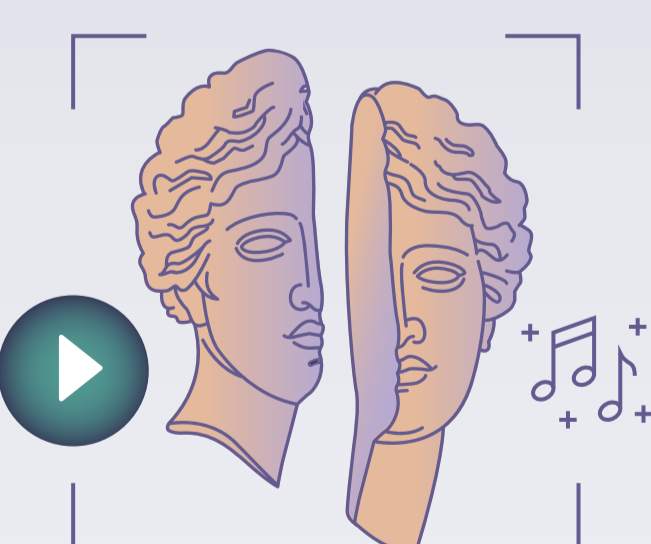
Creating Multi-sensory Experiences

### AI In Action



Sheen, an art group based in Berlin, uses neural networks to merge audio and visual information, creating unique art experiences in real-time.

Exploring New Media



AI programs allow artists to work in any medium, turn a painting into an animation, generate accompanying music, or even turn their ideas into tangible objects using 3D printing.

Living Art



Artist Refik Anadol's first major solo LA exhibition featured dynamic paintings that use publicly available data to create abstract works of art.

Source: Sheen-ai, 2024; L.A. Times, 2023

Advancements in AI have given us new, unexpected perspectives on our natural world, and this is only the beginning.

Learn more about the potential of AI to transform our perceptions and interactions with our fellow inhabitants on Earth at the following session at the Dubai Future Forum 2024:

# Nature Talks Back:

How Can AI Facilitate the Dialogue with Humans?