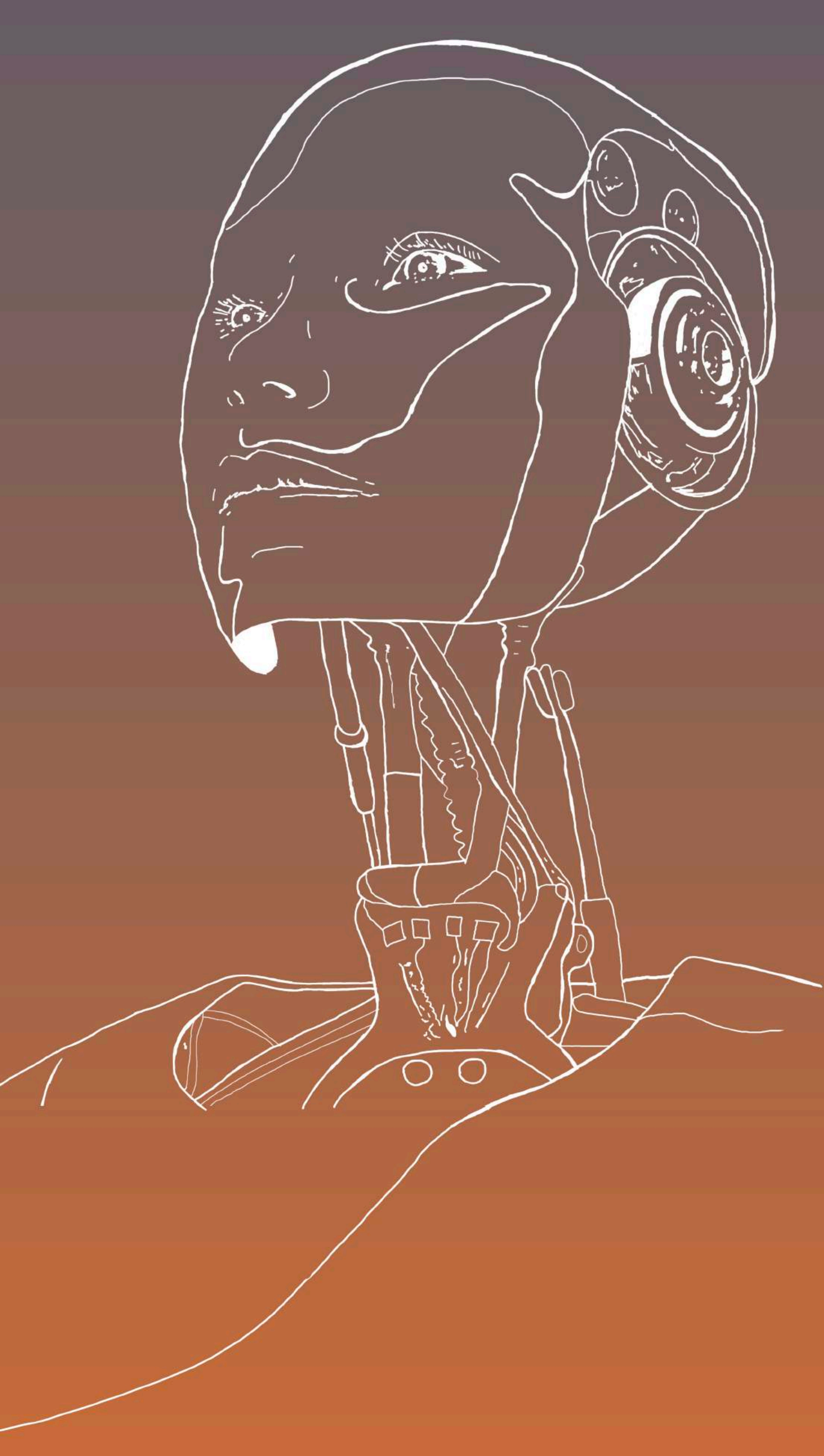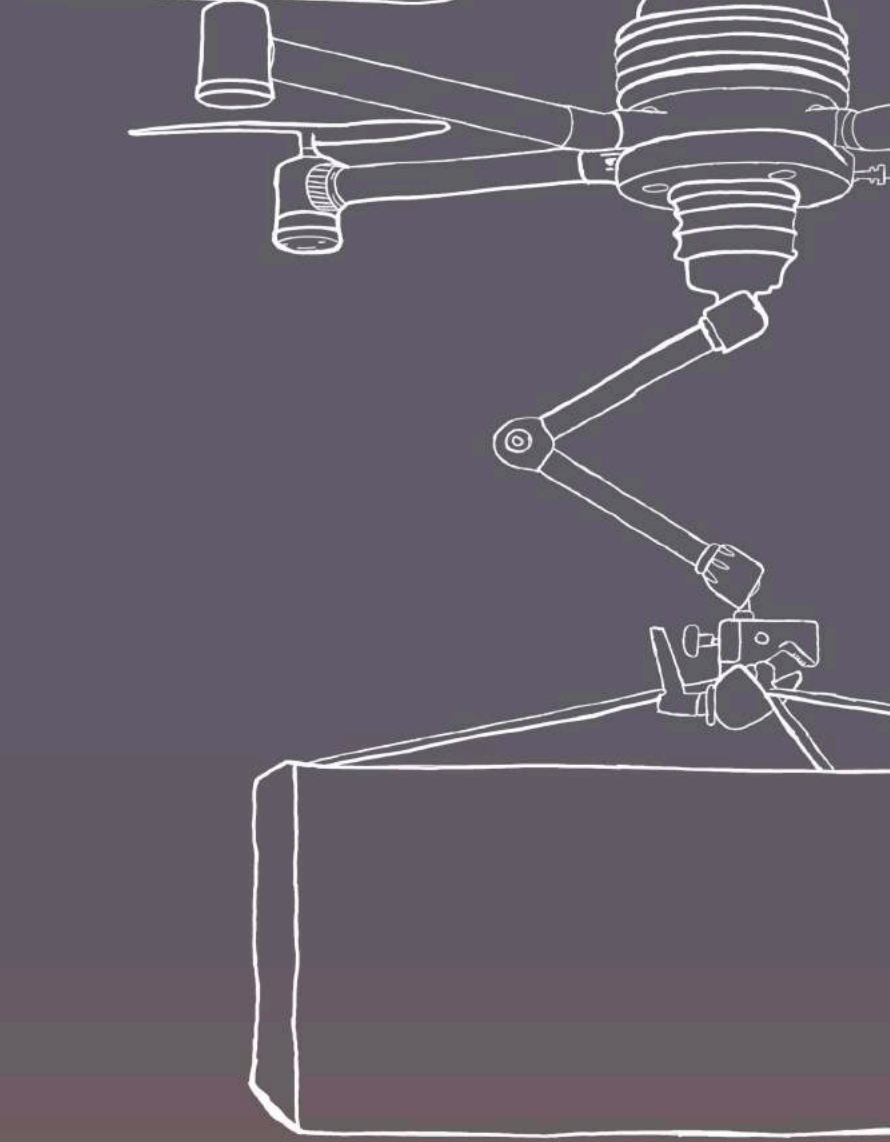REALIZING 2030

HARNESSING EMERGING TECHNOLOGIES

Digital disruption is a mounting force reshaping entire industries, and in turn, our lives. Never have the stakes to transform been higher, and now is the time to tap into the emerging technologies necessary to thriving today, tomorrow and on the path to 2030.

EXPLORE THE EMERGING TECHNOLOGIES GUIDING THE JOURNEY TO 2030.

AI

MACHINE LEARNING/ARTIFICIAL INTELLIGENCE (AI)

Machines won't outsmart us, but they will challenge us to find their true potential. From algorithms finding patterns in data to the development of cognitive intelligence with agile interpretation, AI is increasing at a rapid pace and "virtual humans" will no longer be a sci-fi fantasy.

Poker ace:
A poker-playing machine has already beat four of the world's best players using "imperfect information," not counting cards.

Money matters:
Finance has been one of the first adopters of roboadvisors, robo-analysts, automated trading, fraud detection, and credit risk-checking.

AI empowerment:
AI-driven software platforms and virtual experiences help connect female entrepreneurs with the resources they really need.

ROBOTICS

Gone are the days of robotics limited by being bolted to the factory floor. Not only will robotics take a prominent role in more diverse workplaces, but their presence will be felt in homes and hospitals around the world.
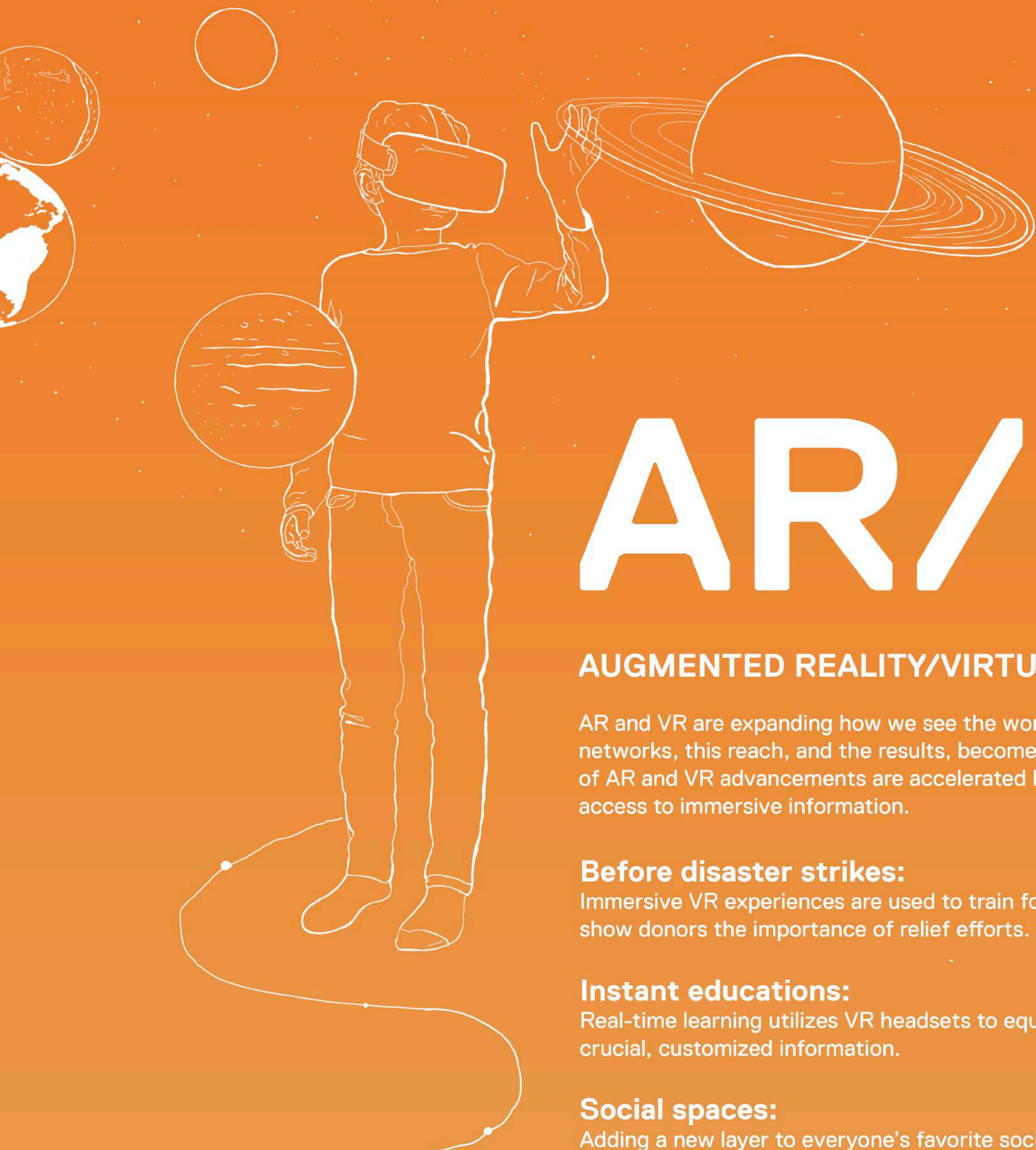
Telepresence connections:
With one click, people immediately speak and interact with family, friends and colleagues from anywhere in the world.

Healthcare:
From robotic-assisted surgery and imaging systems to bionics and next generation wearables, medical applications improve our lives.

Human's best friends:
From biomimetic dogs to human-shaped robots with facial and emotion recognition, the potential of robotic companionship is great.

AR/VR

AUGMENTED REALITY/VIRTUAL REALITY (AR/VR)

AR and VR are expanding how we see the world. Combined with vast sensor networks, this reach, and the results, become more tangible. At the core of AR and VR advancements are accelerated learning and real-time access to immersive information.

Before disaster strikes:
Immersive VR experiences are used to train for traumatic events and to show donors the importance of relief efforts.

Instant educations:
Real-time learning utilizes VR headsets to equip field workers with crucial, customized information.

Social spaces:
Adding a new layer to everyone's favorite social network, VR apps now let people hang out together in fun, interactive environments.

CLOUD COMPUTING

The cloud is not just an atmospheric storage space, but an operating model everyone looking to transform their IT must adopt. Not only will cloud computing streamline systems, but will unlock opportunity and efficiencies with great potential.
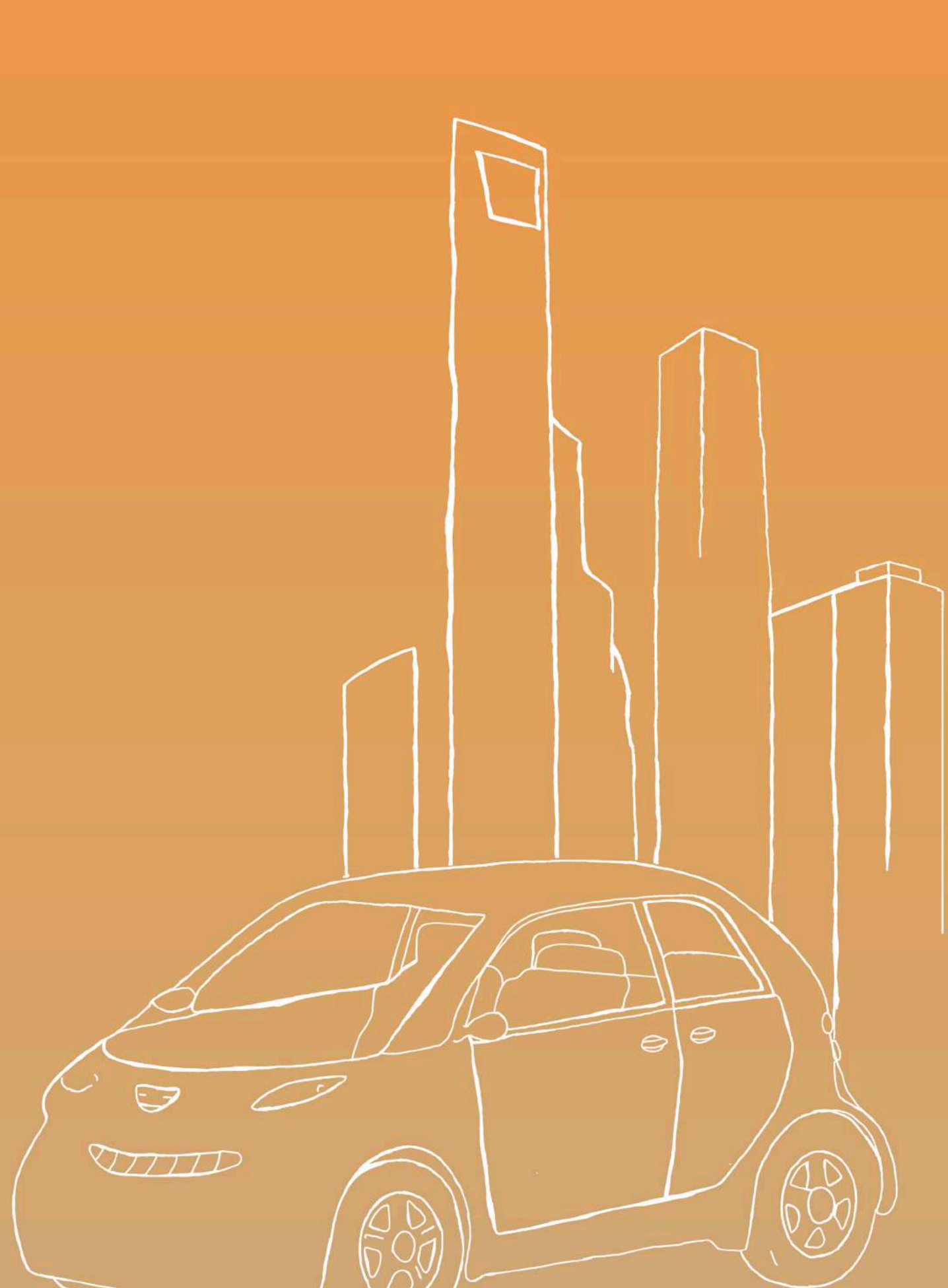
Smarter cars:
When coupled with cloud computing and AI, cars can now sync with everything else in our lives, becoming mobile personal assistants.

Higher education:
Universities are using cloud computing to optimize learning experiences in courses focused on developing and deploying SaaS applications.

Cloud Native Applications:
Built for the cloud model – these apps are causing massive disruption to traditional industries and the legacy model of development.

IoT

INTERNET OF THINGS (IOT)

Perhaps the most omnipresent and familiar emerging technology of recent years, the IoT is still growing and only getting stronger. It is the thread that can be traced from the physical world to a more intelligent world.

Intelligent cities:
Major cities like New York, San Diego and Austin use connected infrastructure to sync street and traffic lights for widespread efficiency.

Connected homes:
Upping our control of comfort, security and entertainment, the IoT is already proving to be a true enhancer of our daily lives on all levels.

Revamped retail:
From better in-store consumer experiences to shipping and automated warehouses, the IoT gets us our goods faster and cheaper.

72

Seeing the vast impact that emerging technologies have on every aspect of our lives, now is the time to fully realize how they can help you to reach your objectives. For even more insight into the potential of emerging technologies, read our report created in partnership with the Institute for the Future:

The Next Era of Human-Machine Partnerships.