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*Empowering occupational health and safety for sustainable development
in the Western Balkans*

DIGITAL OHSafety

Dr. Trajce Velkovski

SS. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE, FACULTY OF MECHANICAL ENGINEERING
DEPARTMENT OF PRODUCTION ENGINEERING AND MANAGEMENT

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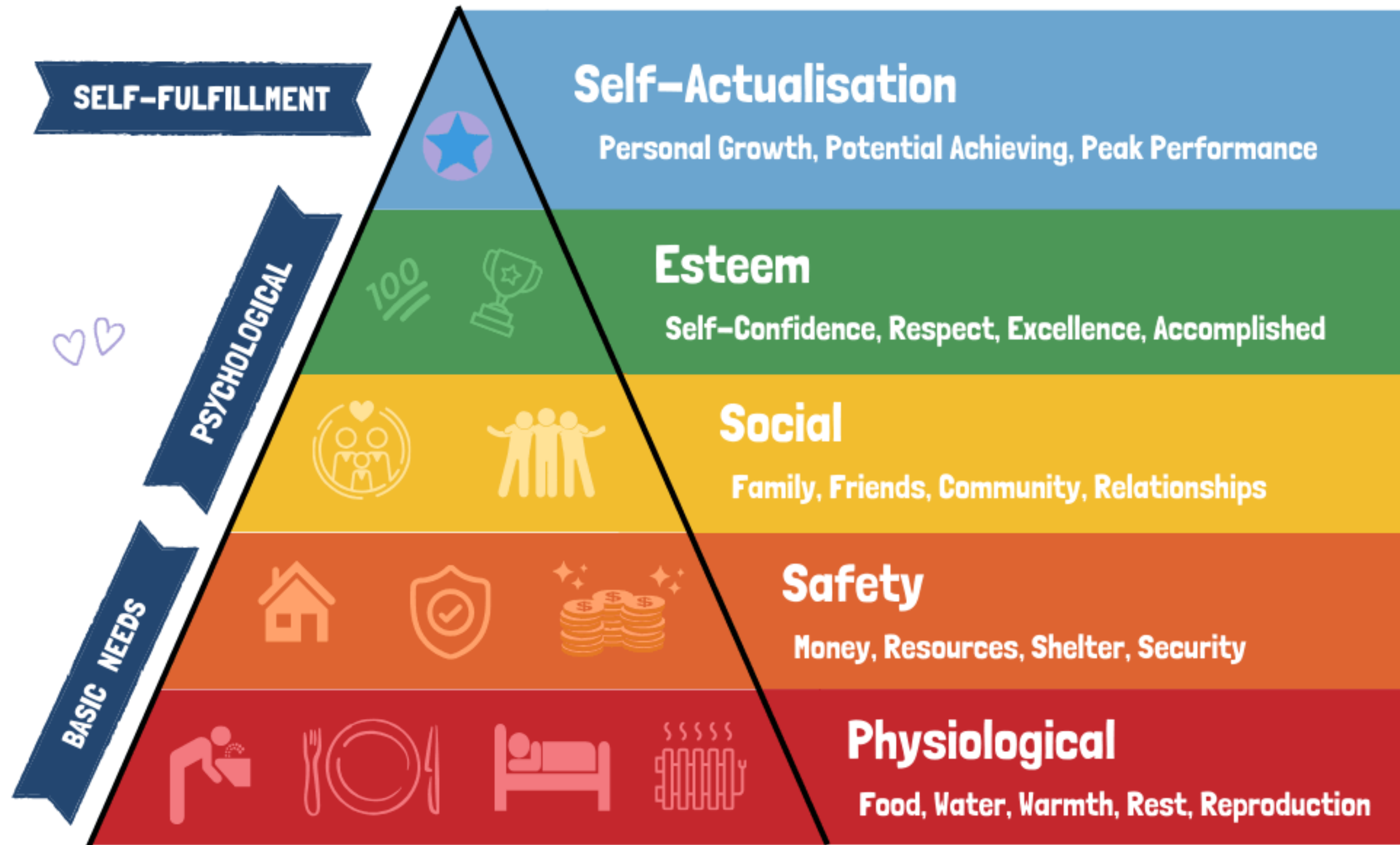




AI & ADVANCED
TECH
FOR OSH

MASLOW'S HIERARCHY OF NEEDS

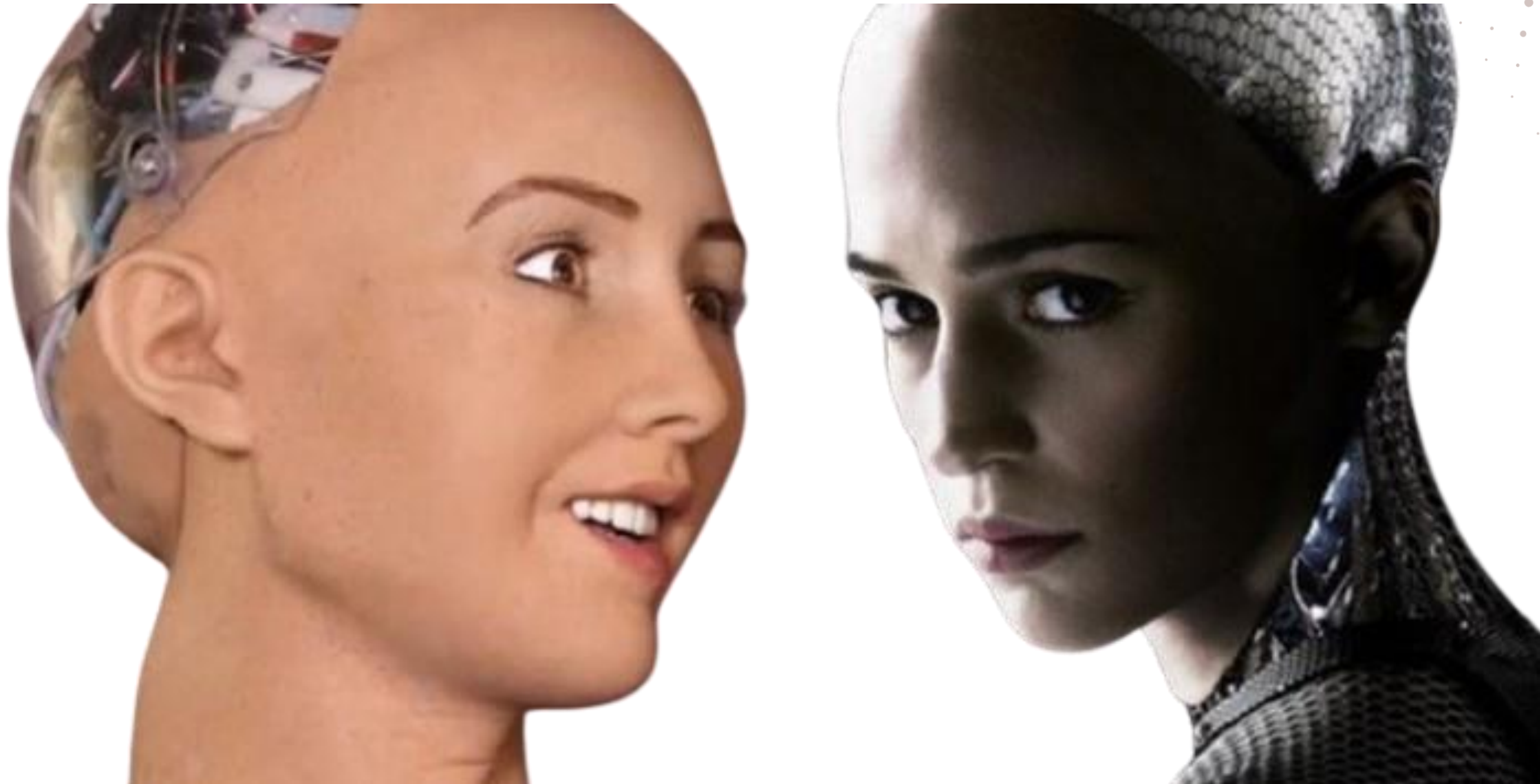
Abraham Maslow's Theory (1943) showing the levels of human needs we seek to fulfill, which motivate our behaviour







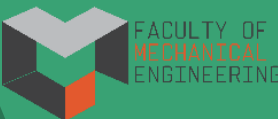




Sophia

Timeline of Key Milestones

February 14, 2016	Artivation	Sophia was activated by Hanson Robotics in Hong Kong.
March 2016	First Public Appearance	Sophia made her debut at the South by Southwest (SXSW) festival in Austin, Texas.
October 25, 2017	United Nations Appearance	Sophia was granted citizenship by Saudi Arabia
2019	Sophia 2019 Upgrade	Hanson Robotics upgraded Sophia with improved walking capabilities and more expressive facial features
2020	Artistic Collaboration	Sophia began creating digital artwork and even collaborated with artists to produce AI-generated paintings
2021	NFT Art Auction	Sophia's artwork was sold as an NFT (non-fungible token) for over \$688,000
2022 to-2025	Continued Development	Sophia has been involved in education, healthcare, and customer service pilot projects



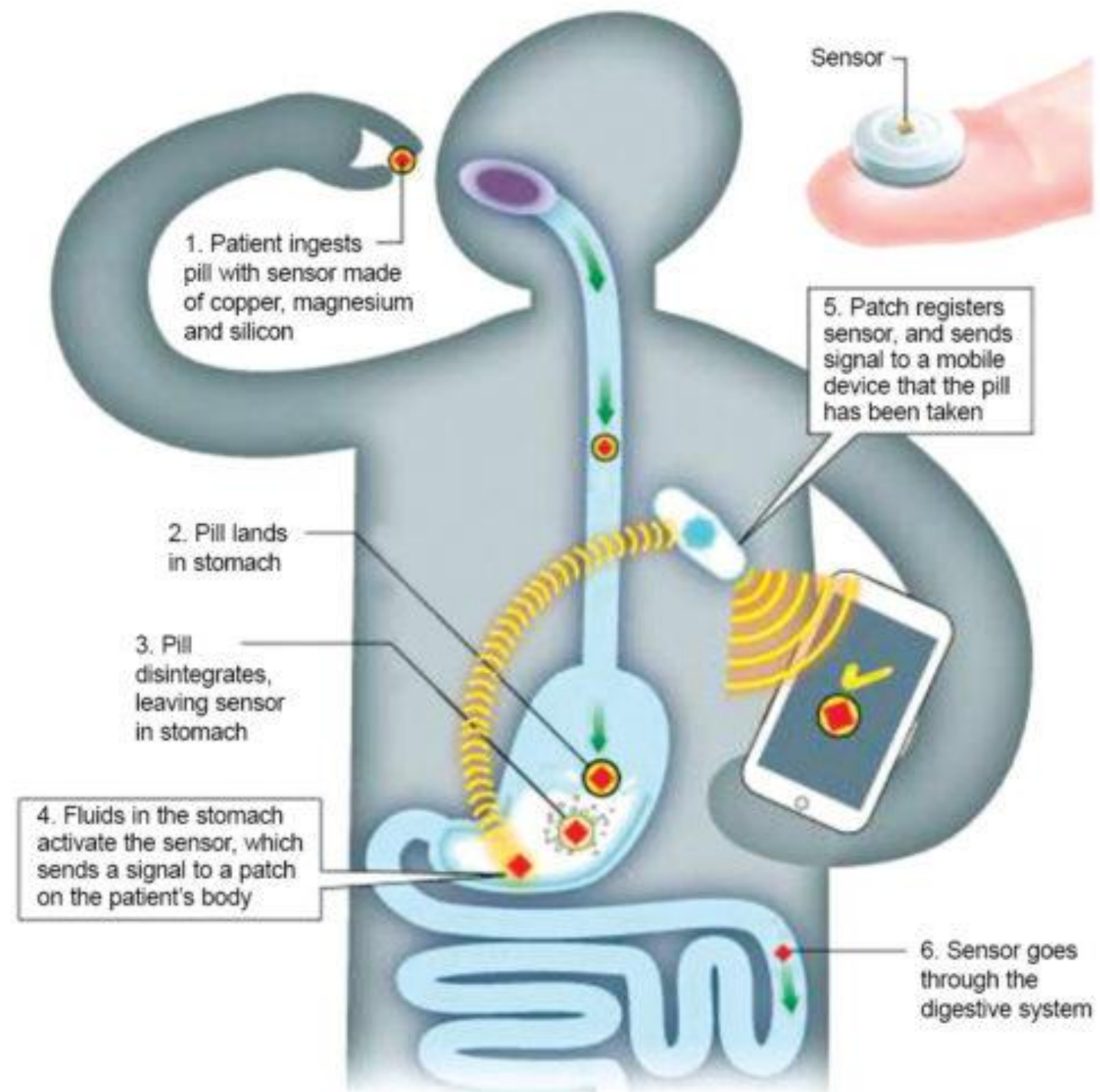
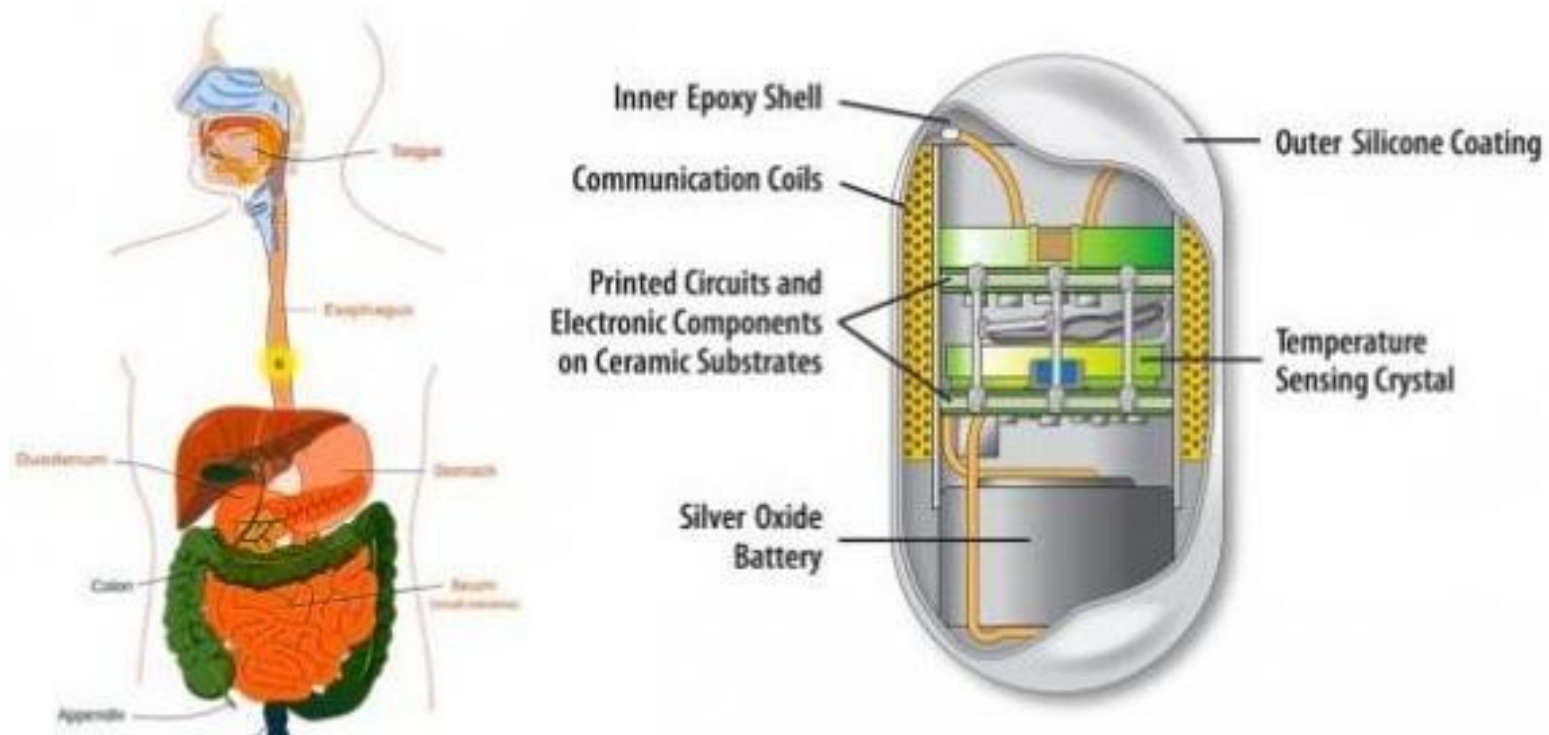
THE HUMAN-CENTRIC EVOLUTION OF AI

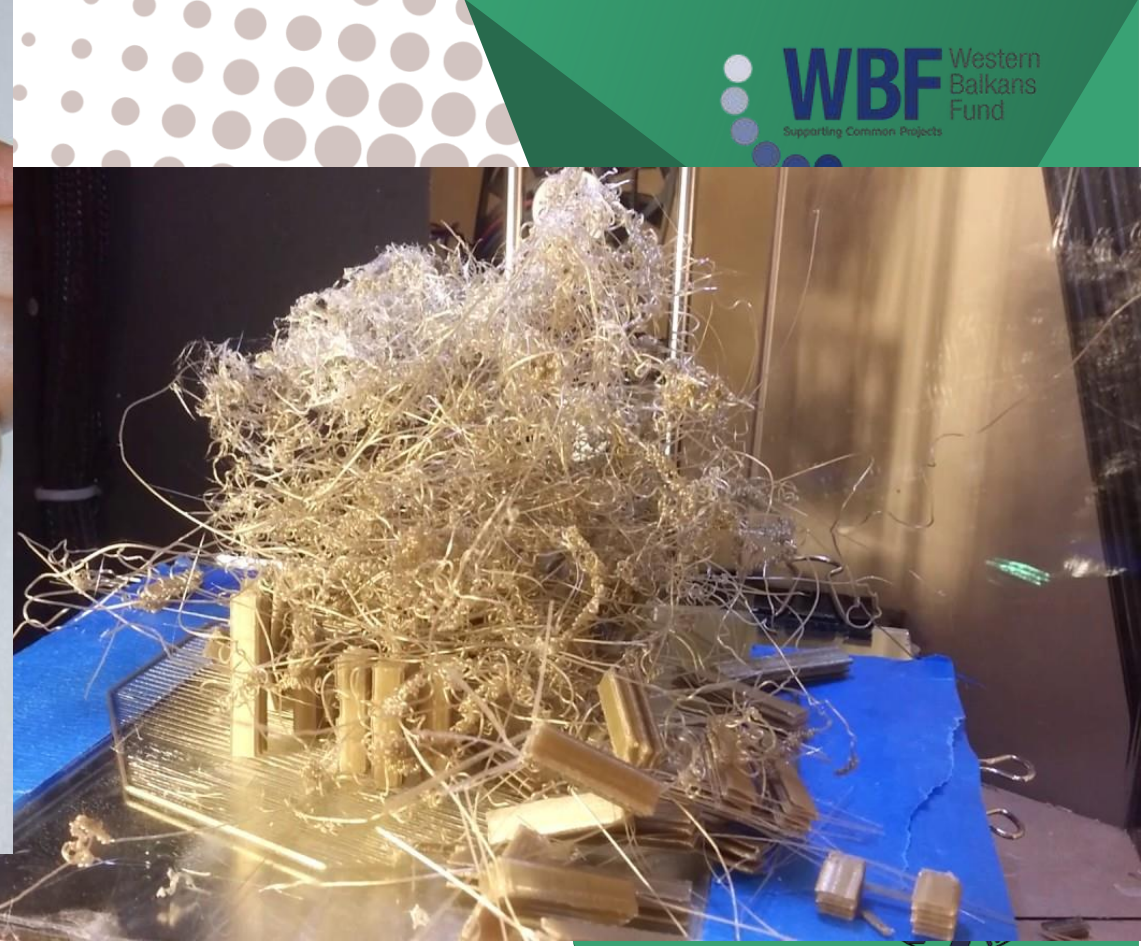
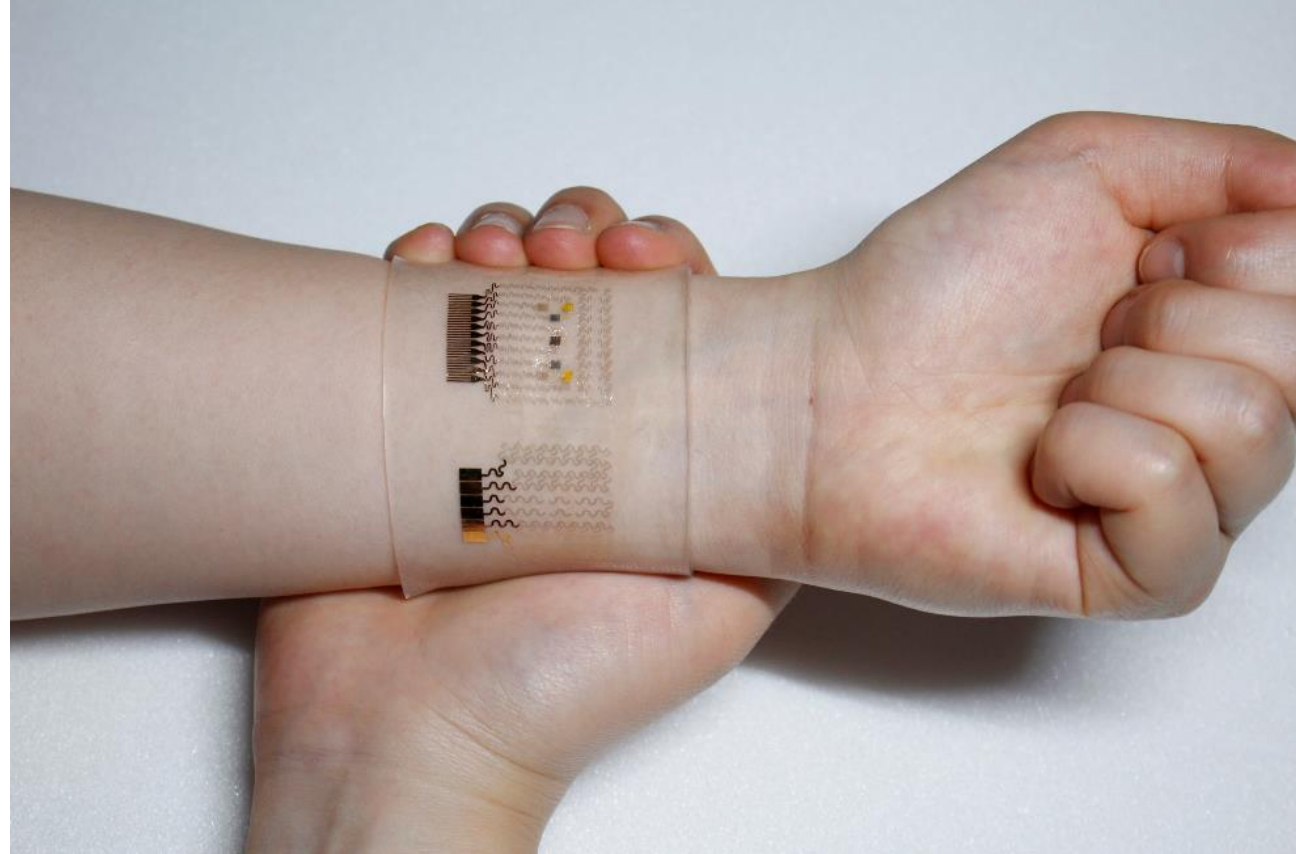


Impact of Technological Advancements on Occupational Health and Safety (OHS)

- Technological Advancements
 - Lenses for measuring blood sugar levels in humans
 - Flexible silicone patches (smart skin)Wearable Electronics
 - [Google glasses](#)
 - Smart watch
 - [Other new technologies](#)
 - Autonomous vehicles (Tesla)
 - Autonomous airplanes
 - 3D printing technology
 - Development of new materials
 - Nanomaterials (toxicity and penetration through the skin or the entire body via the respiratory system)

Ingestible Sensors





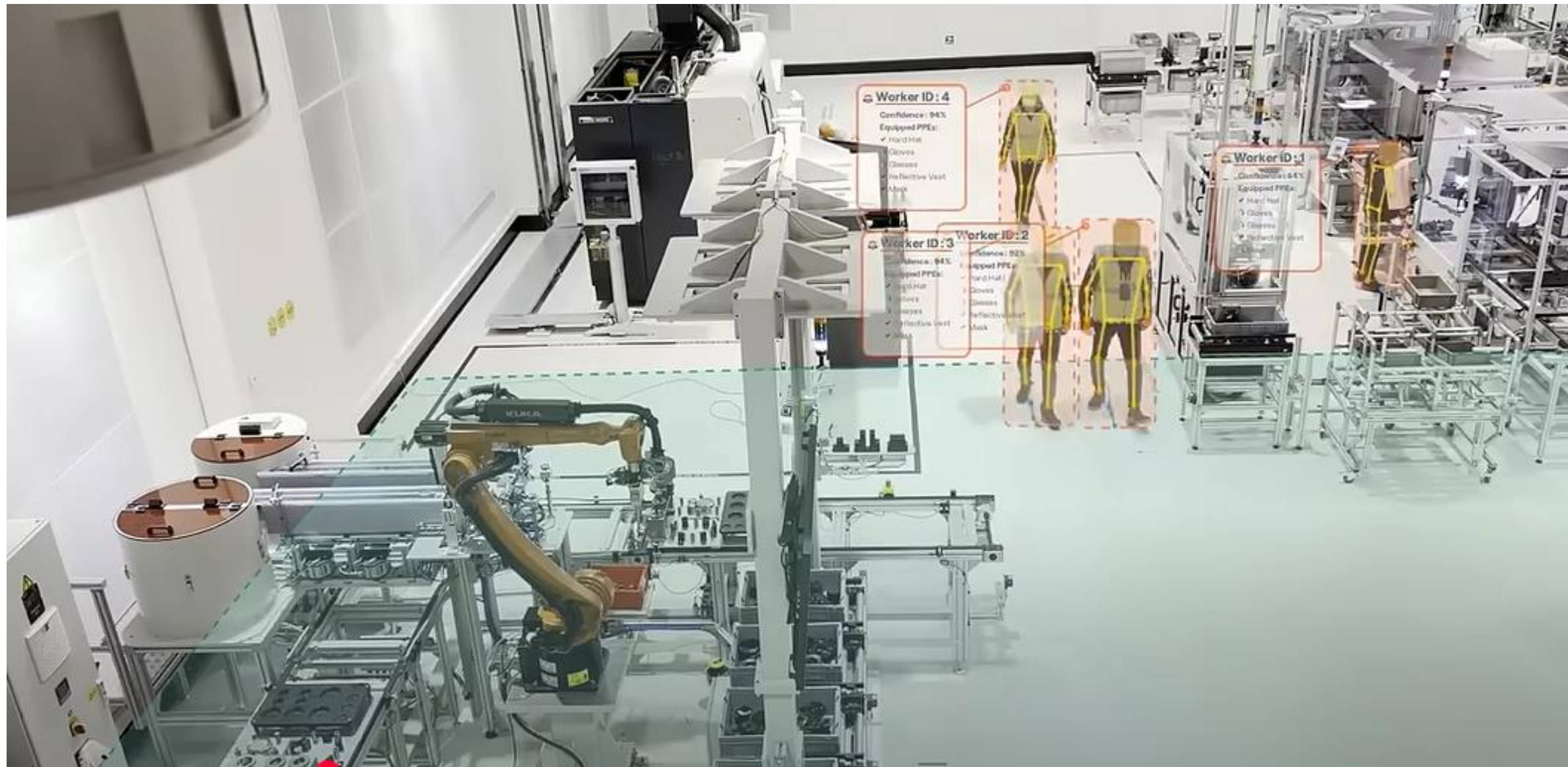




EXOSKELETON



AI-powered workplace safety





Mechantry 1.0

Steam engines,
water power



Mass Production

Electricity,
assembly lines



INDUSTRY 5.0

Human-Centric Collaboration
Collaborative Digital Futures



Automation

Computers, Big data



Industry 4.0

AI, Robots, AR/VR,
Digital Twins

Thank you for your attention