Humanoid Robots: The Next Big Technology Wave

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Course: Data Visualization and Storytelling

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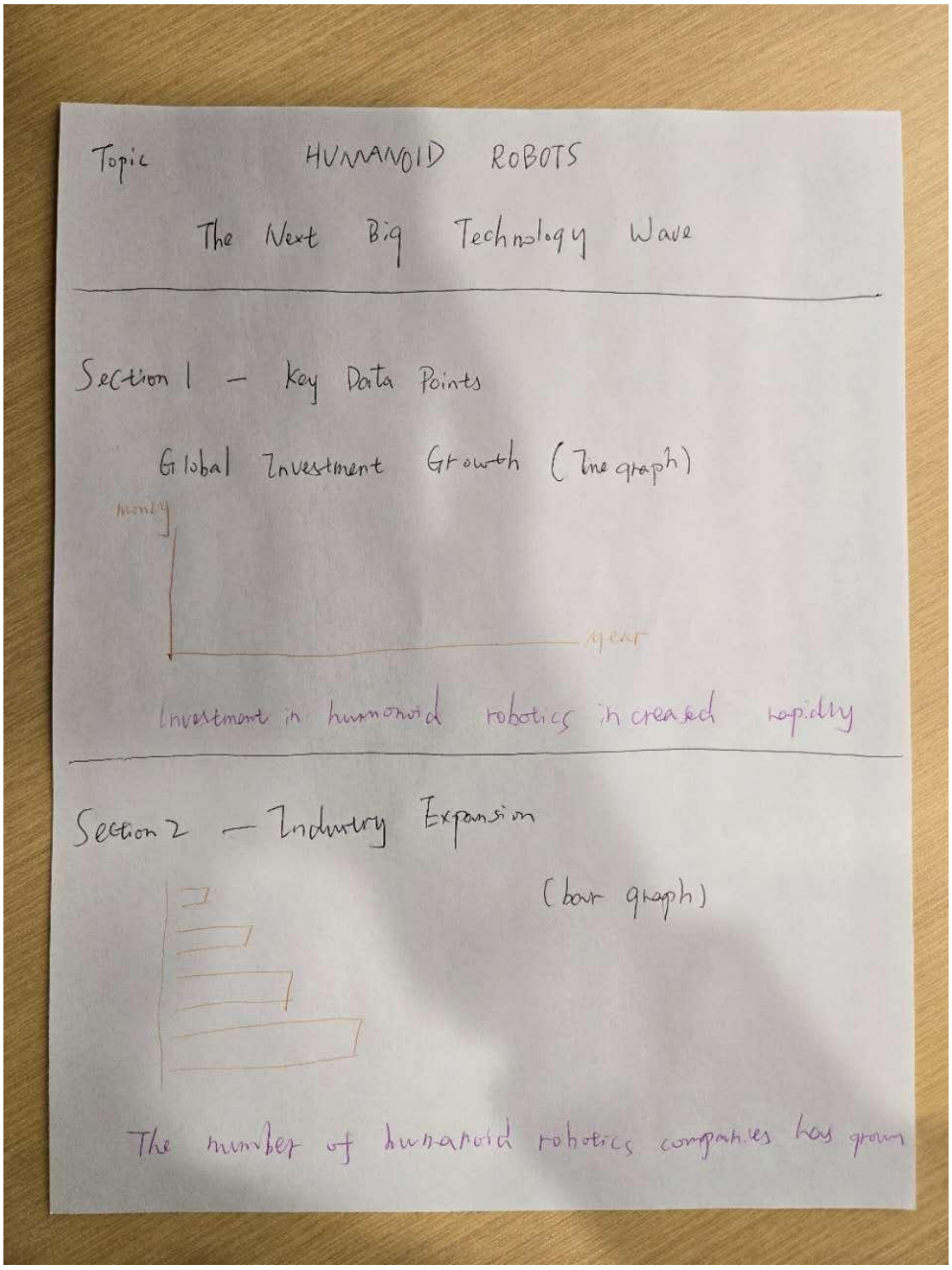
Iteration 1: Hand-drawn Sketch



Section 3 – What Humanoid Robots Can Do

Section 4 – Labor Shortage Insight

Labor shortage vs Robot Potential

Section 5 – key Message

Humanoid Robots Could shape "The future of work"

A new platform (like PCs, smartphone, and EVs)

Iteration 2: Design Rational

The purpose of my infographic is to present a visually engaging and data-driven narrative about the rapidy rise of humanoid robots and their potential impact on industry and our lives.This ratinale explains the choices made regarding structure, visual hierarachy, chart selection and data sourcing.

Audience and Purpose

The infographic is targeted at a general educated audience, such as policymakers, busniessmen and technology-interested readers, who may not be robotics experts but want to understand current trends. Therefore, my visual style avoids technical language and emphasizes high-level insights through clean visual and short text blocks.

Organization and Narrative Flow

The layout follows a vertical, narrow poster structure inspired by public-facing infographics. The flow moves from contextual framing (title and subtitle) to empirical evidence (investment growth and company counts), then to practical capabilites (task categories), and finally to societal implications(labor-replacement potential).

Color, Typography, and Style

A three-color scheme-technology blue, mint green, and dark gray-was selected to ensure visual harmony and to follow recommended constraints of limited, high-contrast color palettes. Sans-serif fonts were chosen to maintain a clean, contemporary style consisten with technology-focused infographics. Adequate negative space was preserved between sections to support readability and prevent overcrowding.

Data from media and Reference

All data comes from credible, pulicly accessible, and indusrty-recognized sources such as Crunchbase, OECD, and the World Economic Forum. These sources provide accurate and commonly cited figures regarding innvestment leves, robotics company growth, and labor-automation potential.

Crunchbase. (2024). Global robotics and AI funding database. https://www.crunchbase.com

World Economic Forum. (2023). The future of jobs report 2023. https://www.weforum.org/reports/

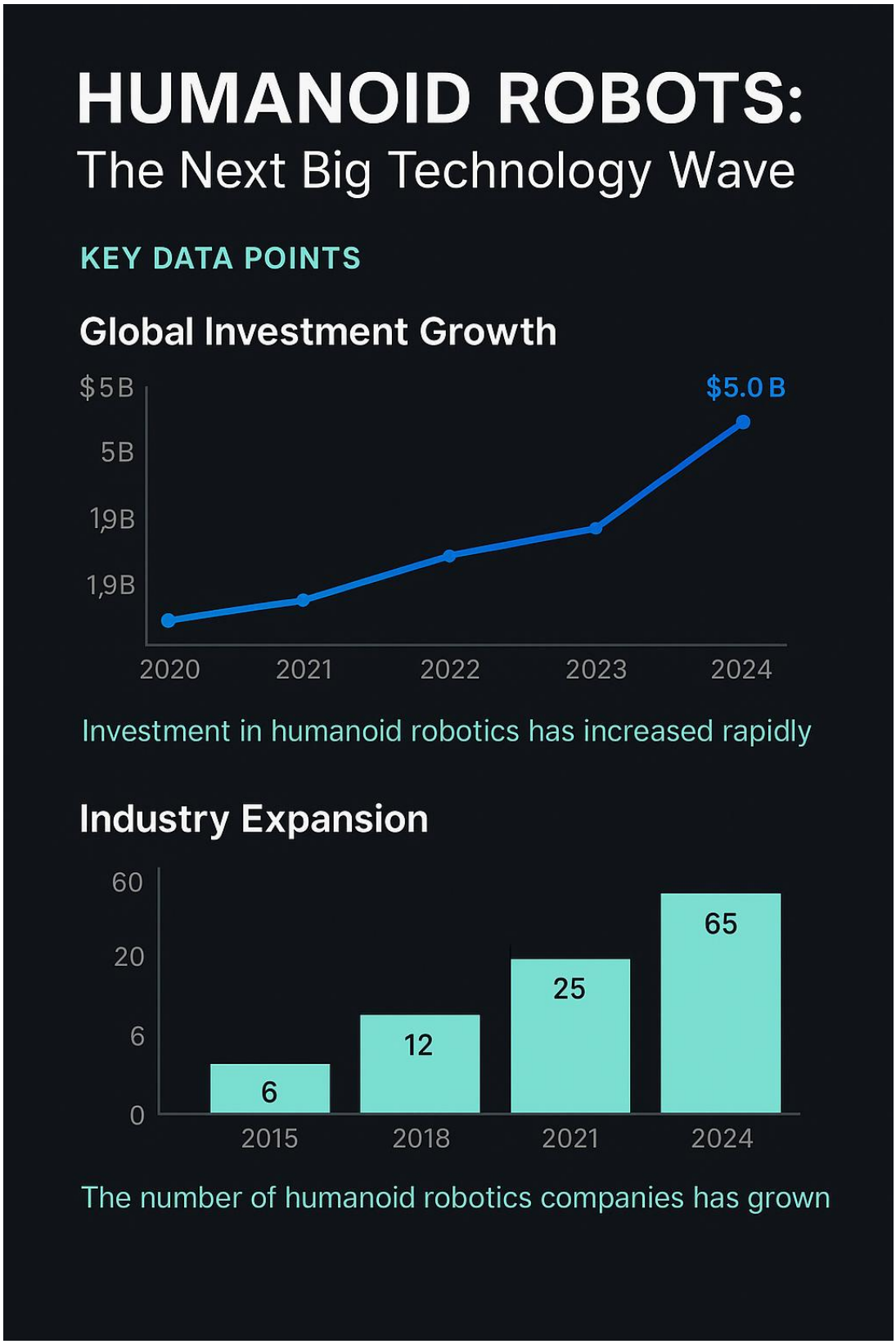
IEEE Spectrum. (2023). Humanoid robotics special coverage. IEEE. https://spectrum.ieee.org/robotics

Tesla. (2022). Tesla AI Day: Optimus program update. Tesla, Inc.

Figure AI. (2024). Company funding announcements and technical updates.

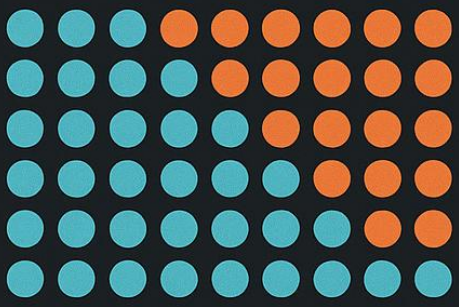
Agility Robotics. (2023). Digit robot product releases and funding reports.

Iteration 3: Infographic



WHAT HUMANOID ROBOTS CAN DO

LABOR SHORTAGE vs ROBOT POTENTIAL



Robots could replace 35-40% of repetitive tasks in selected industries.

HUMANOID ROBOTS COULD SHAPE THE FUTURE OF WORK

A new platform– just like PCs, smartphones, and EVs