

AI Driven Transformation

ERROL KOOLMEISTER



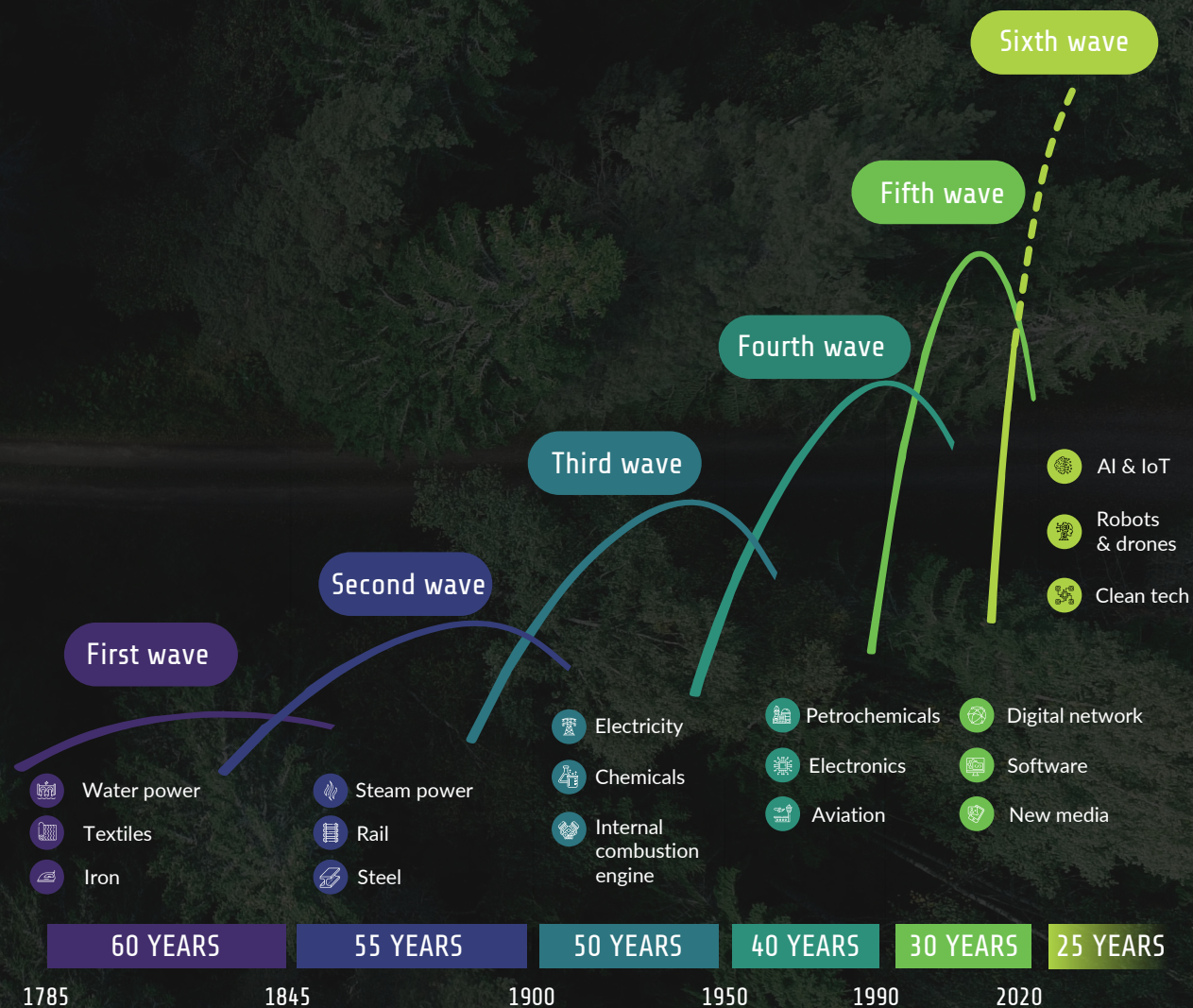
The AI Framework



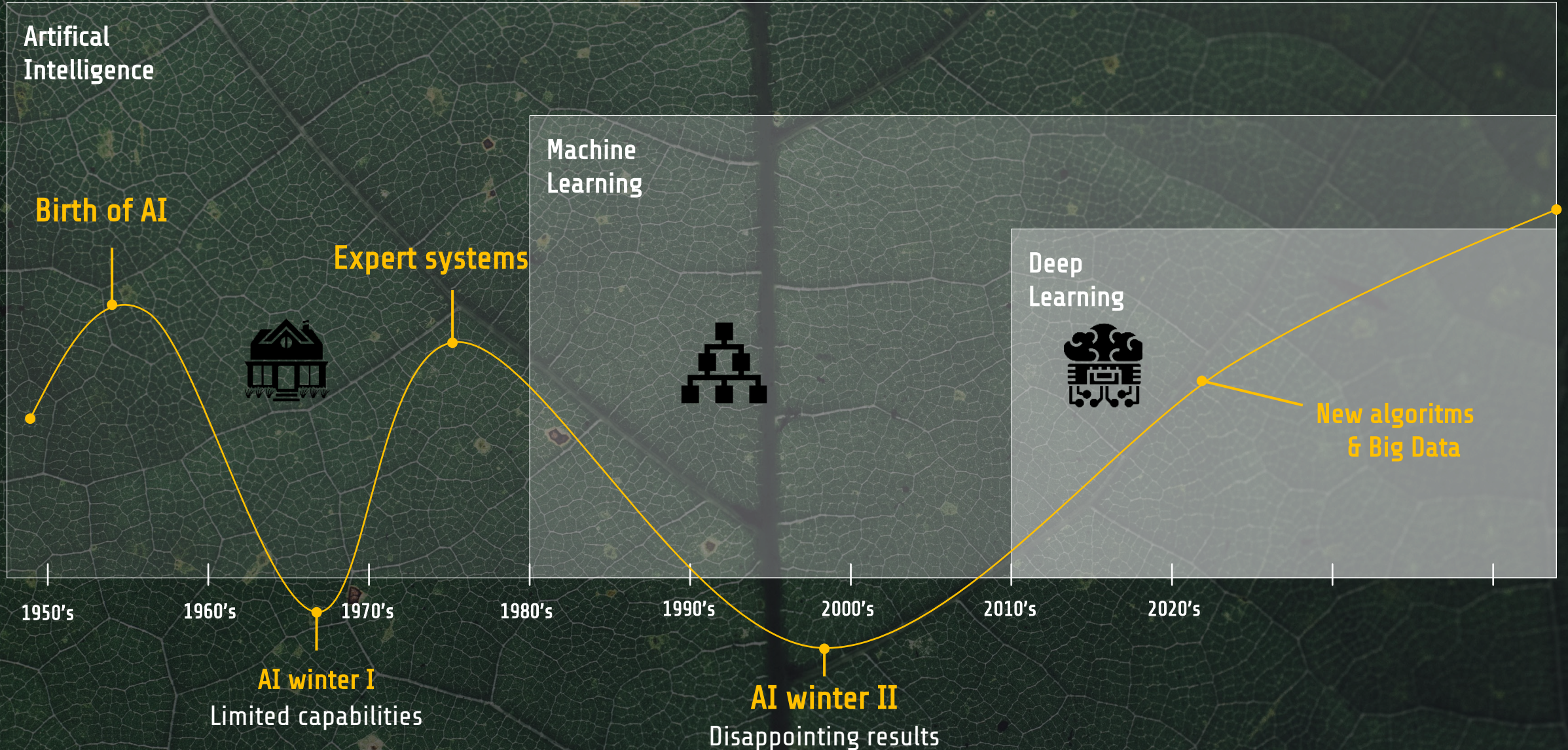
The history of INNOVATION CYCLES

LONG WAVES OF INNOVATION

Source: MIT Economics



How did we get here?

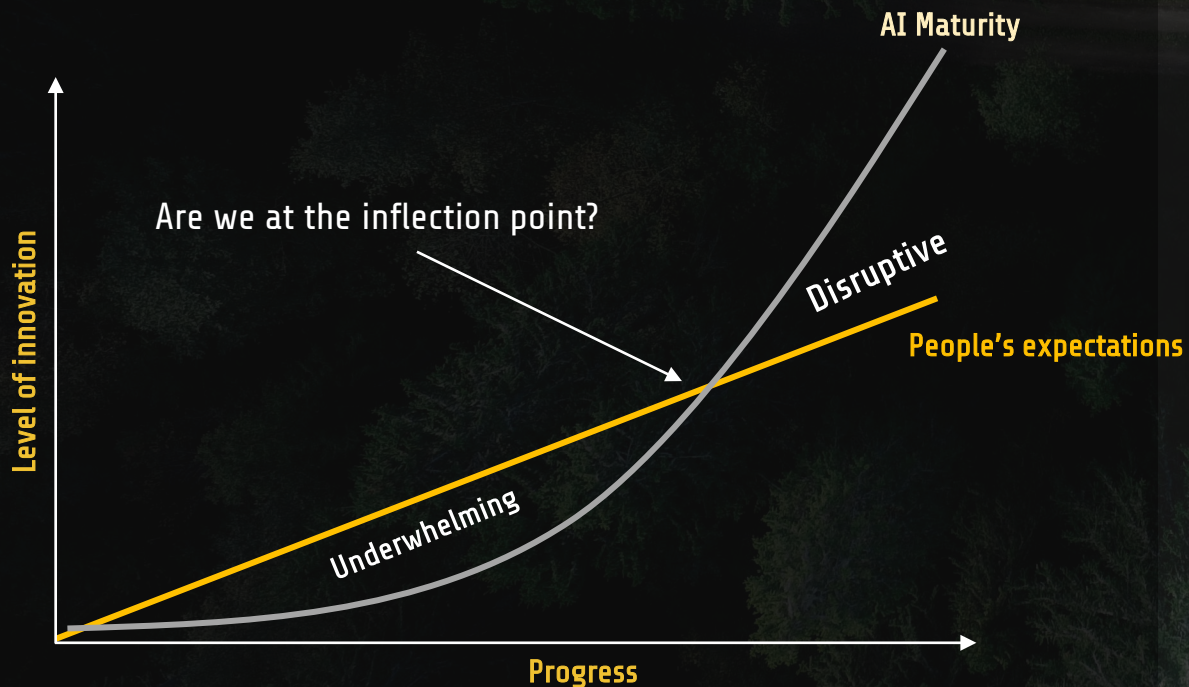


Today's AI "Hype"

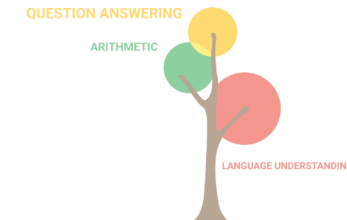
– *Why, and is it really a hype this time?*

Why this AI "Hype" Now?

1. Google stumbled across Transformer architecture 2017
2. Labs started throwing data at transformers
3. OpenAI "opened" Generative AI and open source followed
4. GPT3 mid 2020, DALL-E 2021, ChatGPT end of 2022, GPT 4 Jan 2023....



"Throwing more data on a transformer"



8 billion parameters

Models are getting ever larger and smarter

This time AI is here to stay

- AI has now truly become a general-purpose technology
- Data has become omni present
- The cost to develop and use AI has come down to levels earlier unimaginable – The cost of intelligence coming down towards 0

Artificial Intelligence

ARTIFICIAL NARROW INTELLIGENCE (ANI)

ARTIFICIAL GENERAL INTELLIGENCE (AGI)

Rule-based systems

Machine Learning based systems

Generative AI

Rule-based

Machine Learning -based

Generative AI

AGI

Singularity

Predictive AI

Today's Generative AI

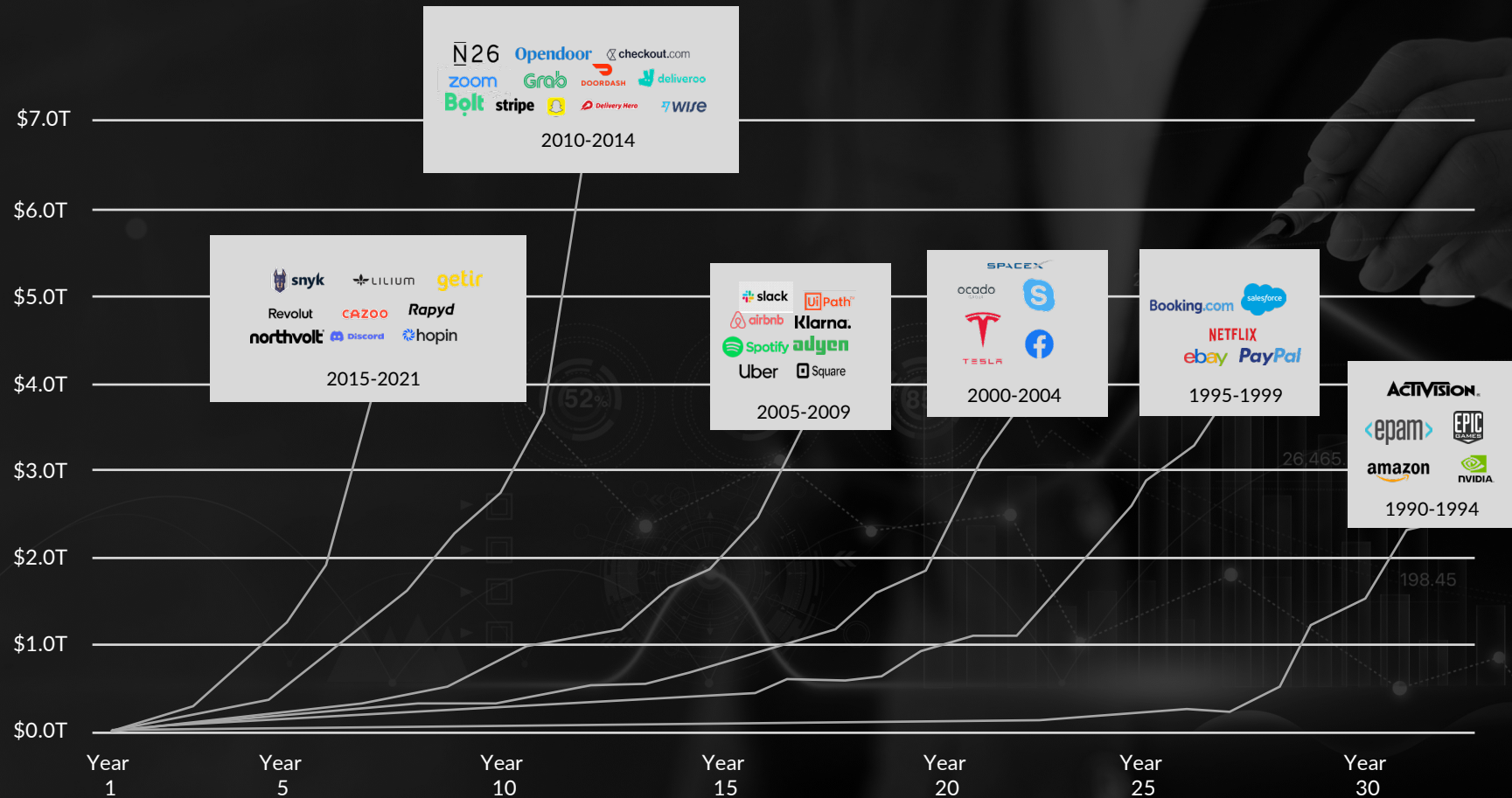
(this is what all the current buzz is about)

Artificial general intelligence (AGI)

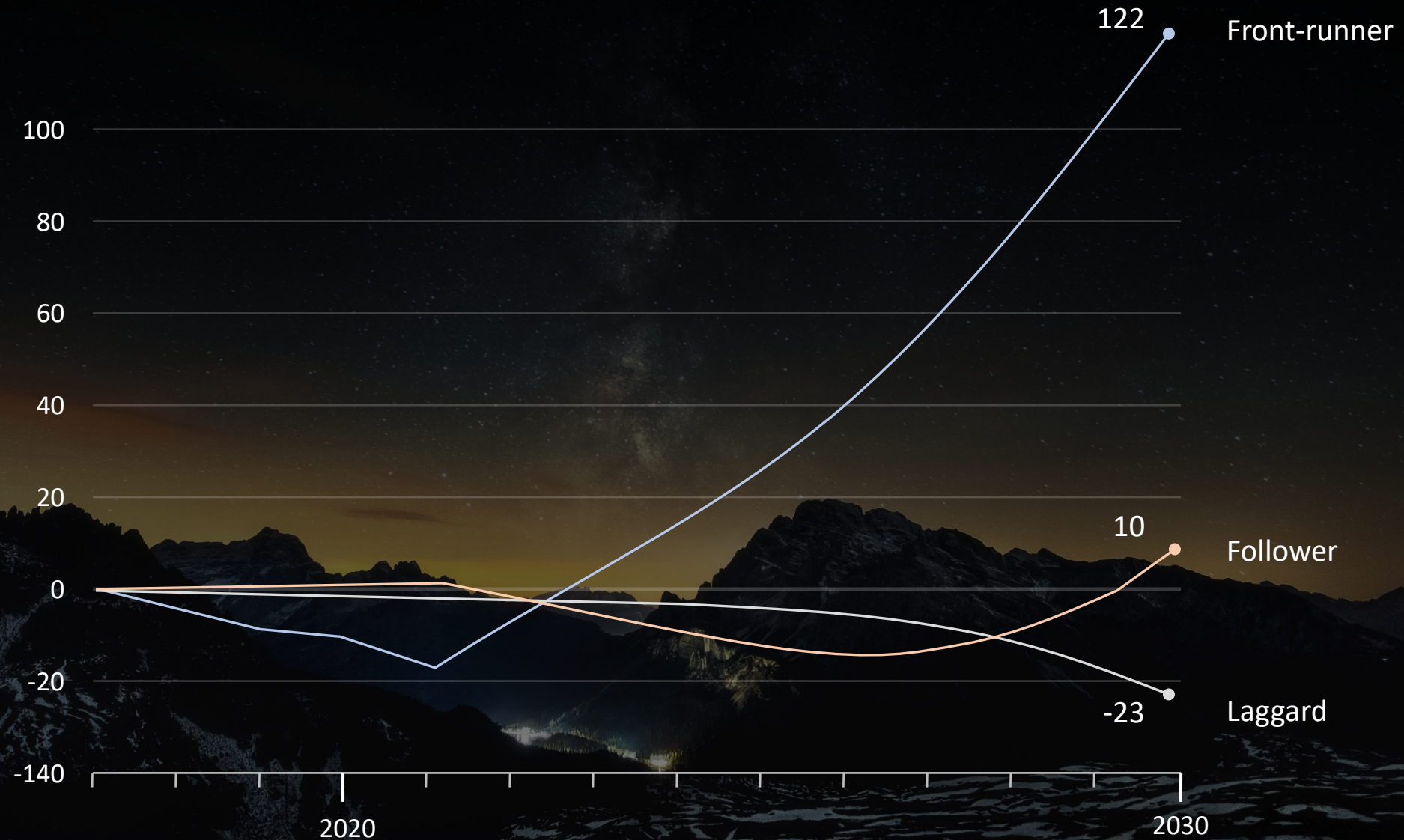
General AI \neq Generative AI



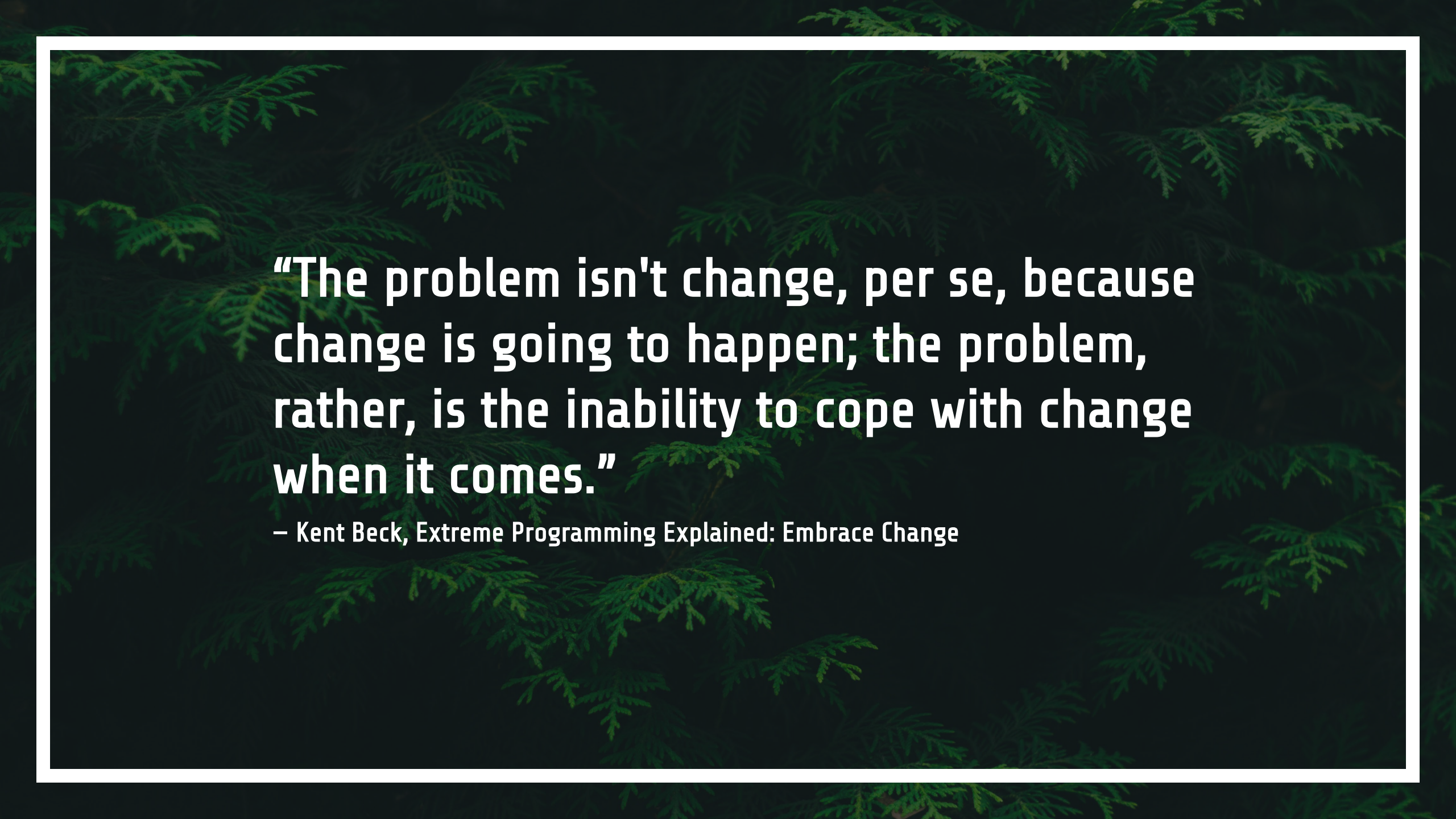
ENTREPRENEURIAL VALUE CREATION IS AT AN ALL-TIME HIGH



Business benefits* vary from companies



* Relative changes in cashflow



“The problem isn't change, per se, because change is going to happen; the problem, rather, is the inability to cope with change when it comes.”

– Kent Beck, Extreme Programming Explained: Embrace Change



92% of large companies are achieving returns on their data and AI investments.



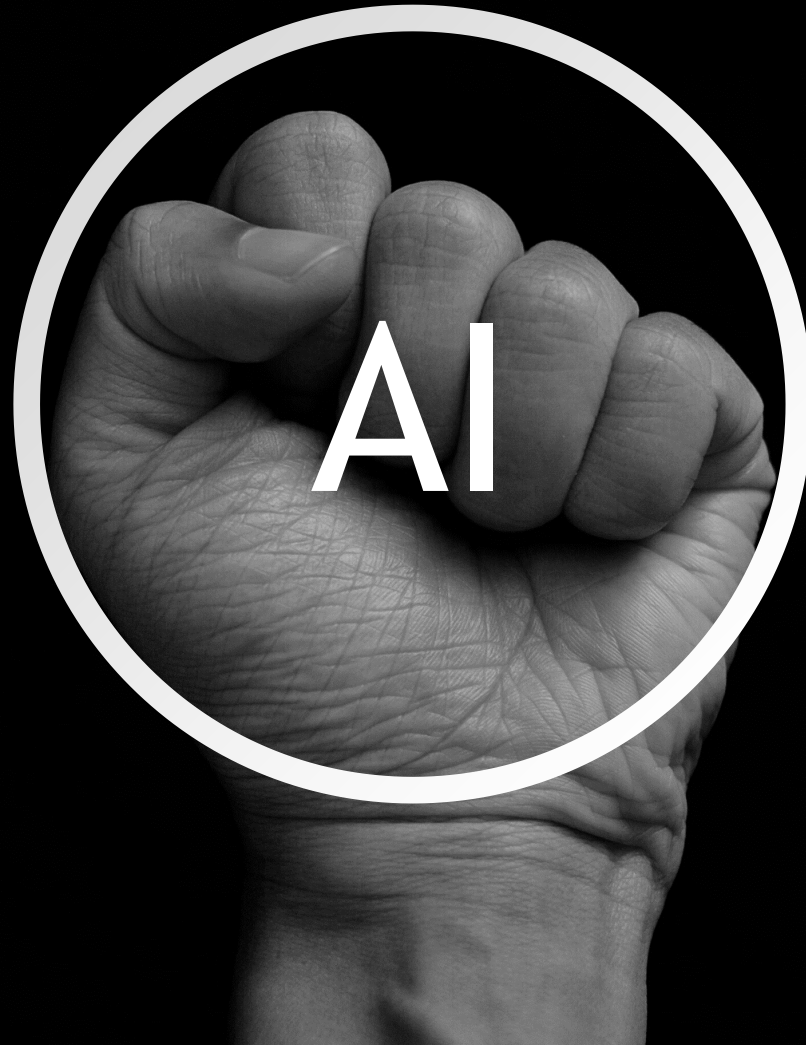
Twenty-six percent of companies have AI systems in widespread production.

And they are **increasing** investments

*2022 survey of senior data and technology executives by NewVantage Partners

Amplified intelligence

Augmenting business decisions



There are no AI use cases

Only solutions to business problems

TECHNOLOGY IS THE SMALL PART



Algorithms

Technology

Transformation

Companies with good scaling practices spent half their analytics budgets on adoption



The future is already here
it's just not evenly distributed.

- The Economist, December 4, 2003, William Gibson



THANK YOU

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