

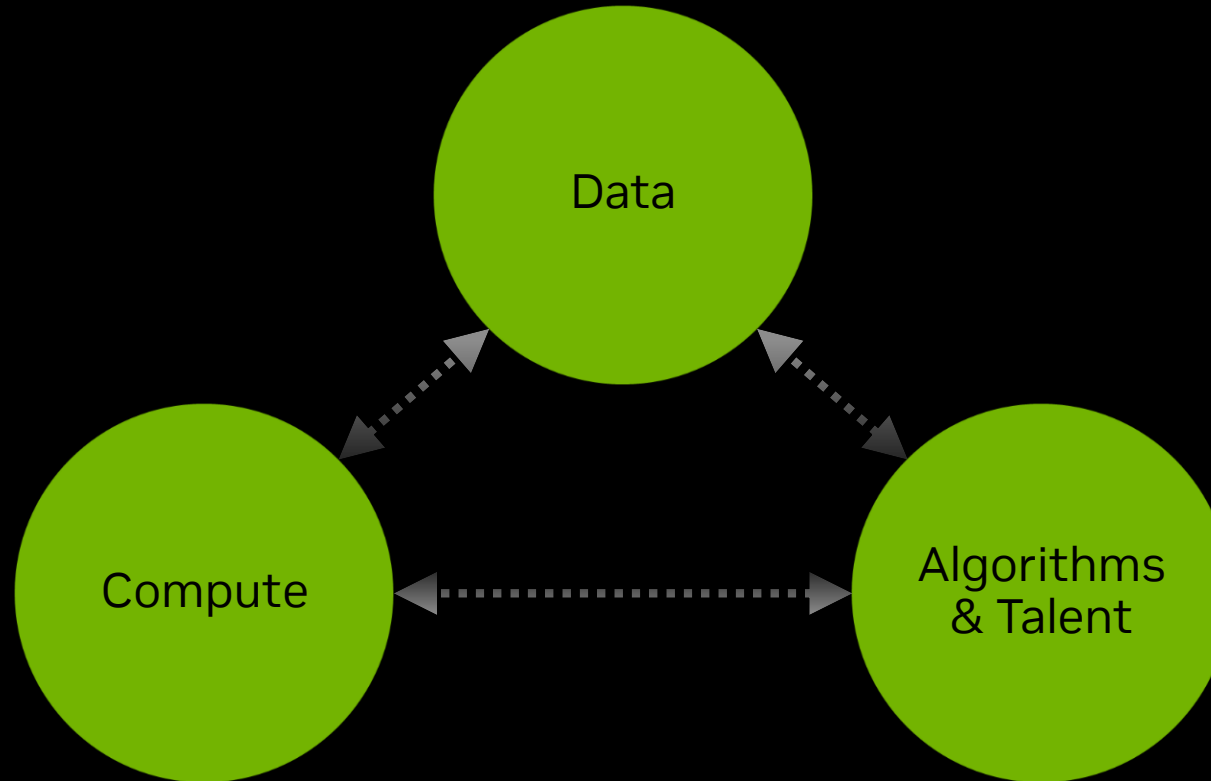


AI – What does it take?

Dr. Eva-Maria Hempe, Executive Director Healthcare and Life Sciences
EMEA

The “ChatGPT Moment” – What Did It Take?

GenAI breakthrough was made possible by three elements



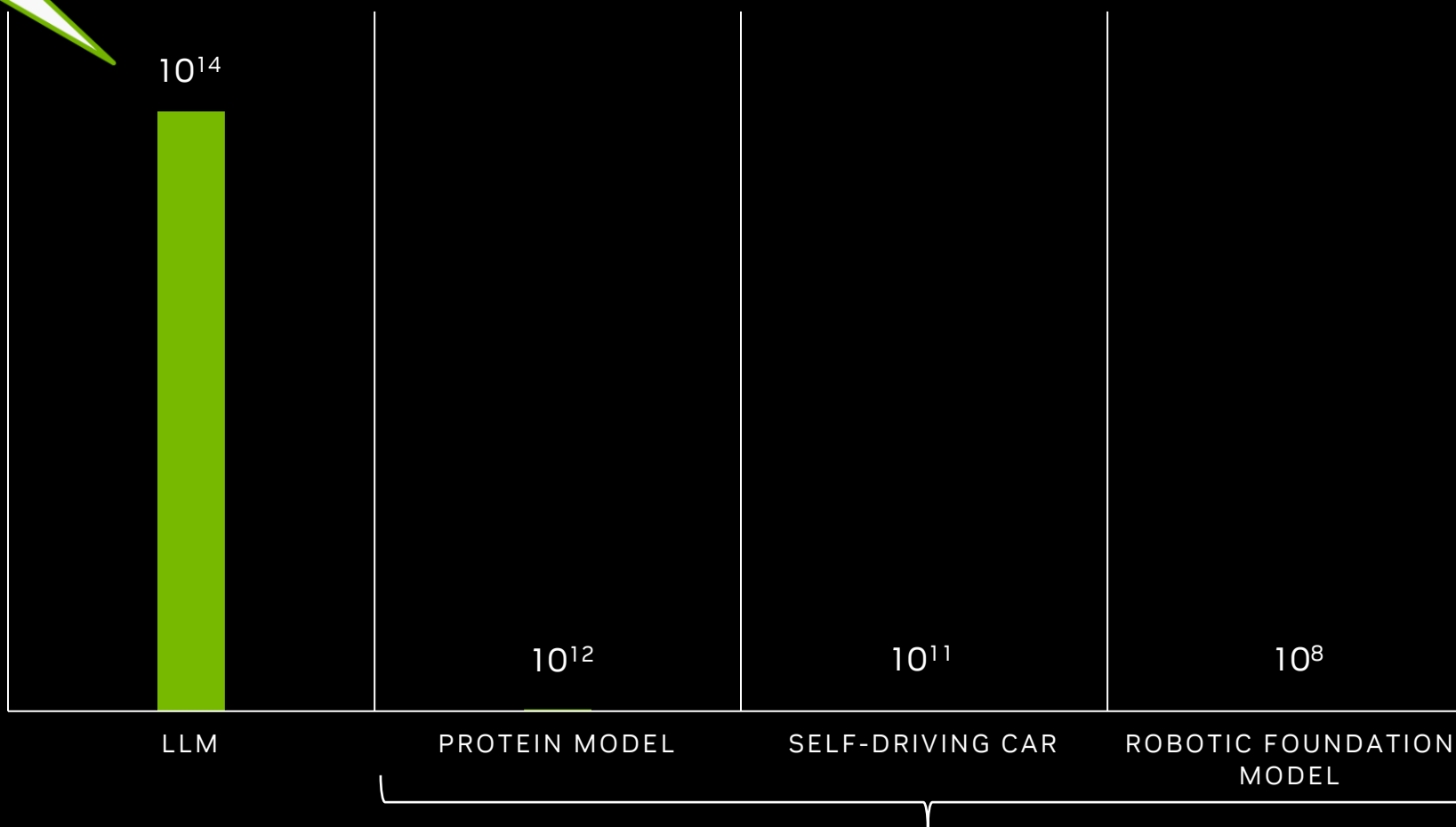
Outside of LLMs: Scarcity of Labeled, High-Quality and Diverse Data

Automation and simulation can close some of the gaps

Aka "the Internet"

Directional

■ Tokens

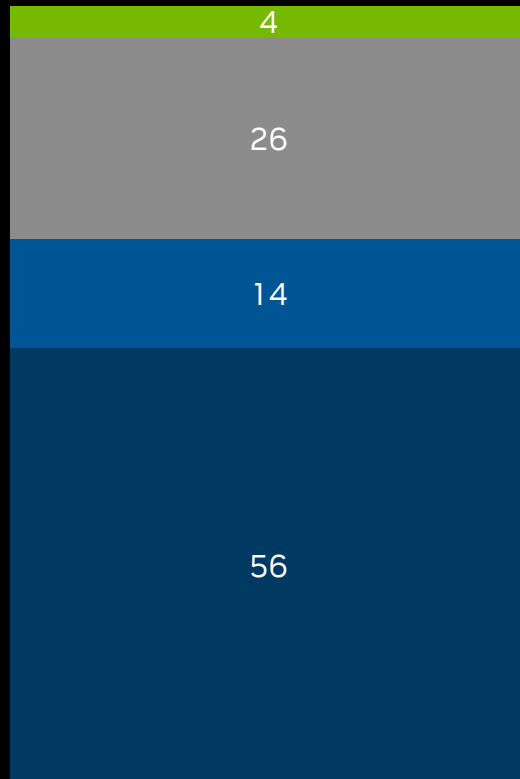


Often siloed & proprietary

“By 2030, Economic and Technological Freedom Will Have a Price: GPUs”

Complication: Europe Is Lacking AI Compute

■ US (hyperscalers) ■ US (others) ■ Others ■ Europe



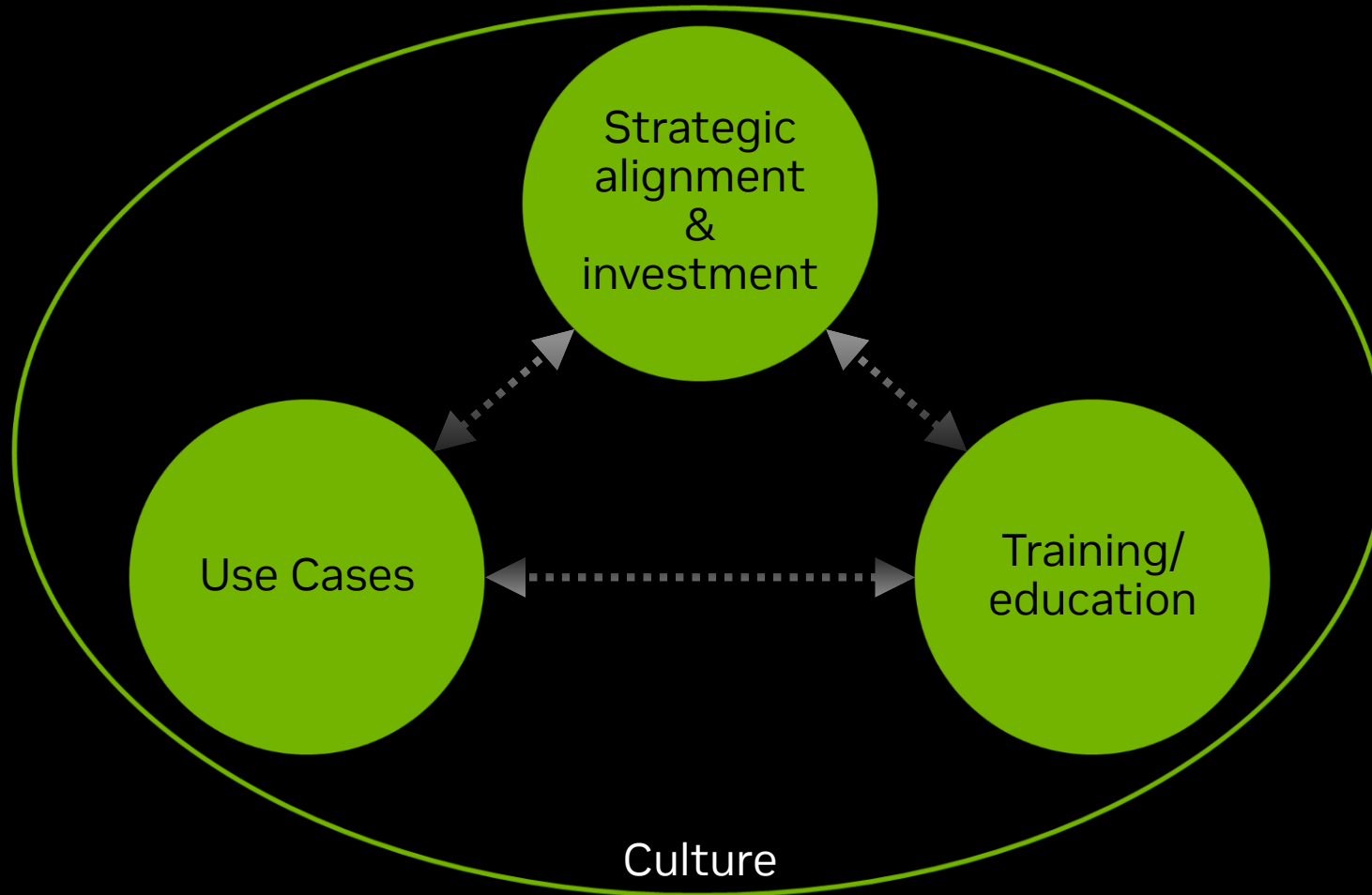
AI Computing Power

At present, 70% of the world's computing power for AI is held by the United States, 80% of it by American hyperscalers. Europe accounts for just 4% of global capacity

Groupe d'Etudes Geopolitiques (Ecole normale supérieure)

The “Breakthrough Moment” – What Does It Take?

It's again an interplay between three elements



AI Center of Excellence: Access Compute and Centralized Skills

Hardware is necessary and you also need expertise on how to use it

Undisclosed Investment



*"The Prescient Design team joined Genentech in August 2021 as **a new department**, giving them the autonomy and freedom to continue to build their team and technology, while also allowing them to seamlessly integrate their expertise in ML into Genentech's existing research and drug development."*

Genentech/ Prescient Design

Approach: Buy

\$549M Investment

BIONTECH InstaDeep™

BioNTech to Acquire InstaDeep
to Strengthen Pioneering Position
in the Field of AI-powered
Drug Discovery, Design
and Development

www.biontech.com & www.instadeep.com



*"Acquisition to enable creation of **a fully integrated, enterprise-wide capability to discover, design and develop next-generation immunotherapies at scale by leveraging artificial intelligence and machine learning technologies** across BioNTech's therapeutic platforms and operations"*

BioNTech/ Instadeep

Approach: Buy

\$100M Investment

novo nordisk
fonden
Benefitting people and society



DCAI

*"Together with the Export and Investment Fund of Denmark (EIFO) and world-leading AI computing company NVIDIA, the Novo Nordisk Foundation is establishing the **Danish Centre for AI Innovation (DCAI)**."*

Novo Nordisk*/ Danish Centre for AI
Innovation

Approach: Build

*The Gefion supercomputer is joint investment by Novo Nordisk Foundation and the Export and Investment Fund of Denmark. Novo Nordisk AS is a cornerstone customer of Gefion



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