

Soevereiniteit, hoe dan?

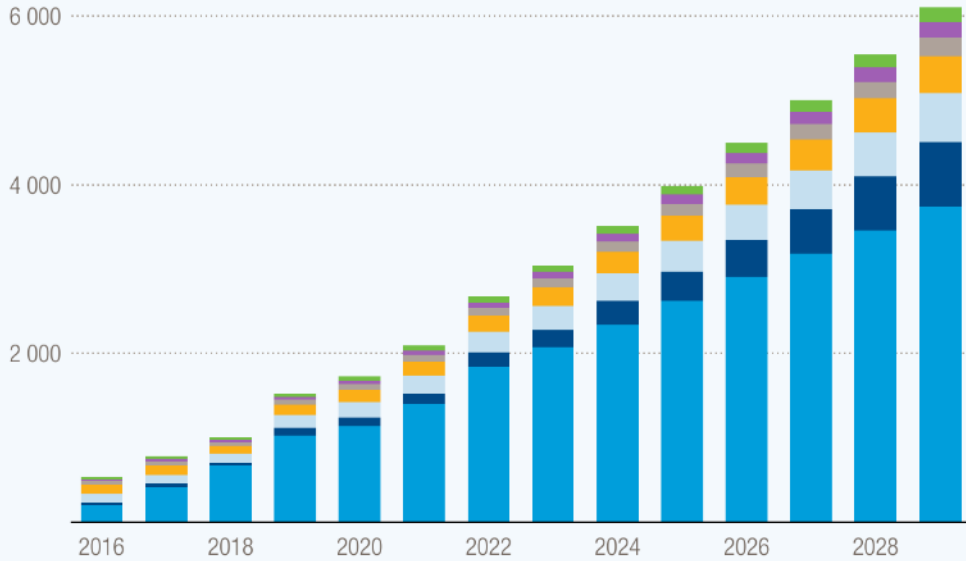
Kees Verhoeven



Internet of things devices forecast to surge amid digital economy boom

IoT devices with cellular connections, by country groupings, millions of connections, 2016–2029

■ Northeast Asia ■ Southeast Asia, Oceania and India ■ North America ■ Western Europe
■ Central and Eastern Europe ■ Middle East and Africa ■ Latin America



Source: UN Trade and Development (UNCTAD), based on Ericsson Mobility Visualizer – Mobility Report November 2023.

Global Data Generated Annually

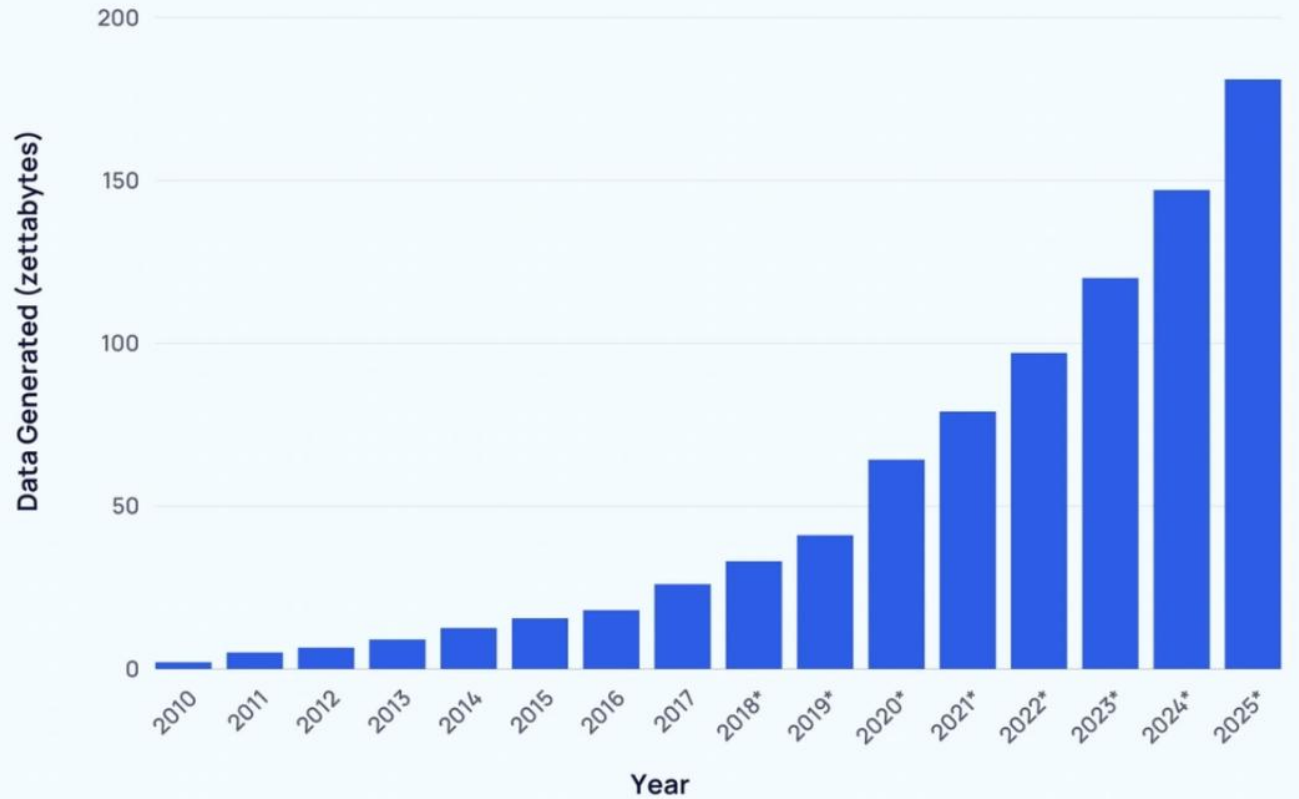
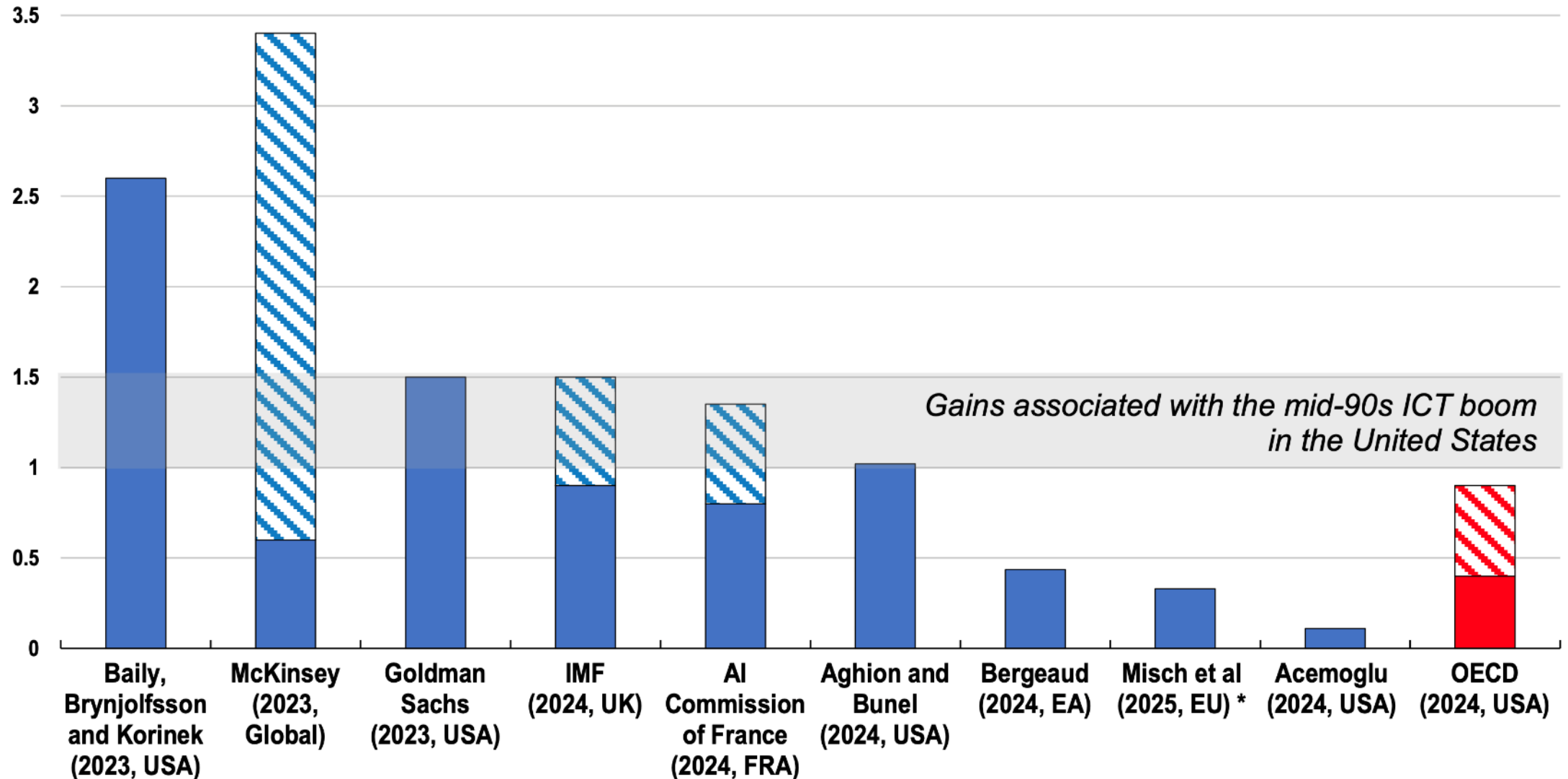






Figure 1. AI's predicted macro-level productivity gains vary substantially across studies

Predicted increase in annual labour productivity growth over a 10-year horizon due to AI, in percentage points*







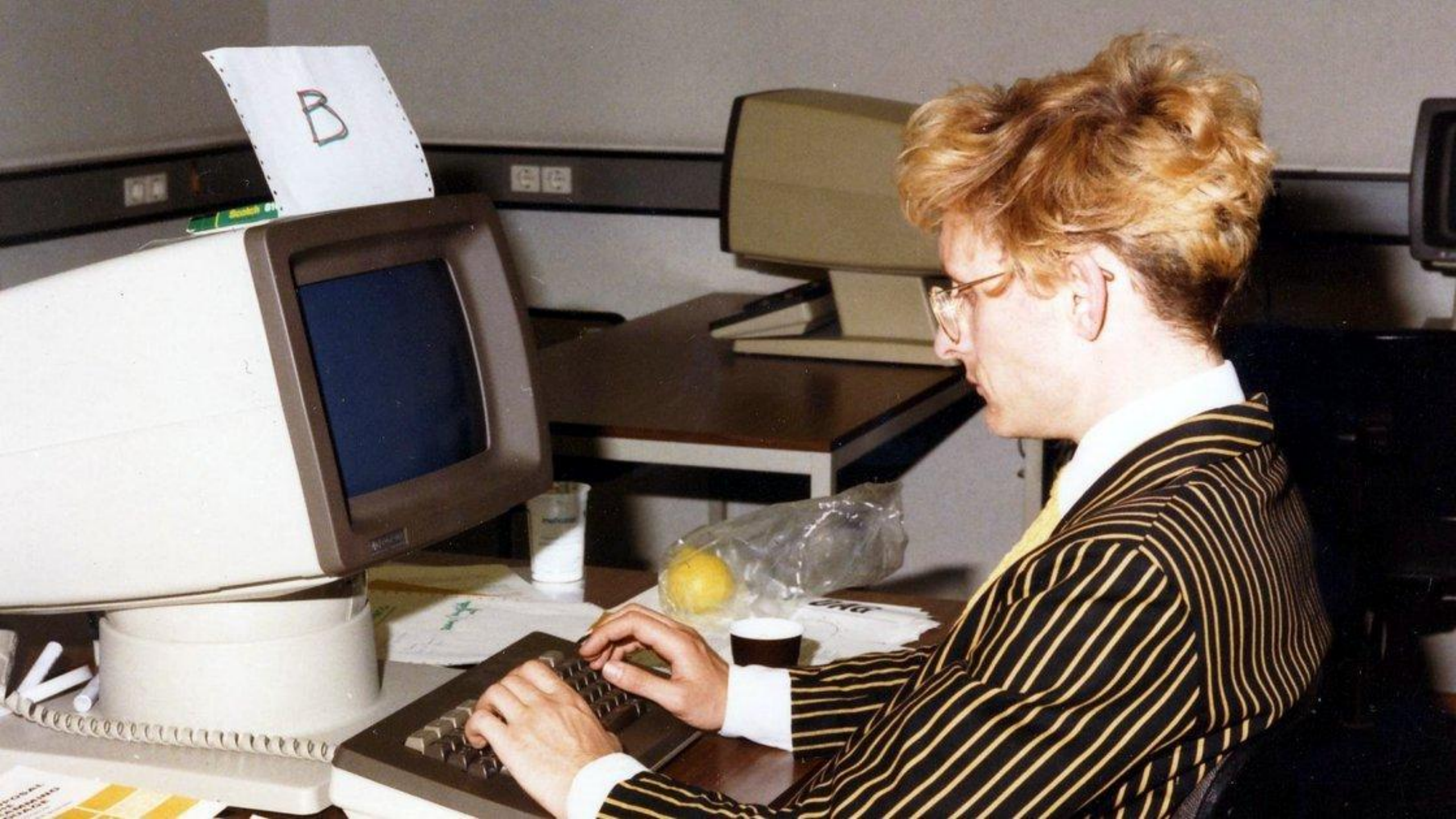
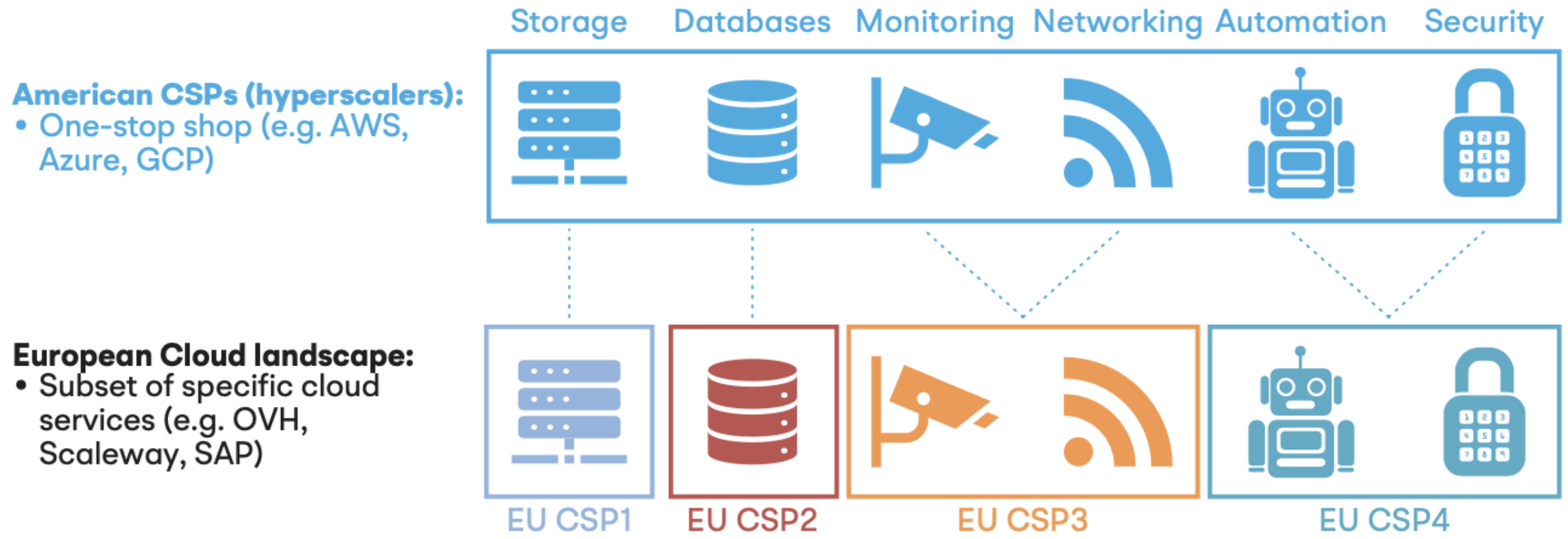






Figure 5 Conceptual difference between what the American hyperscalers and European CSPs can offer



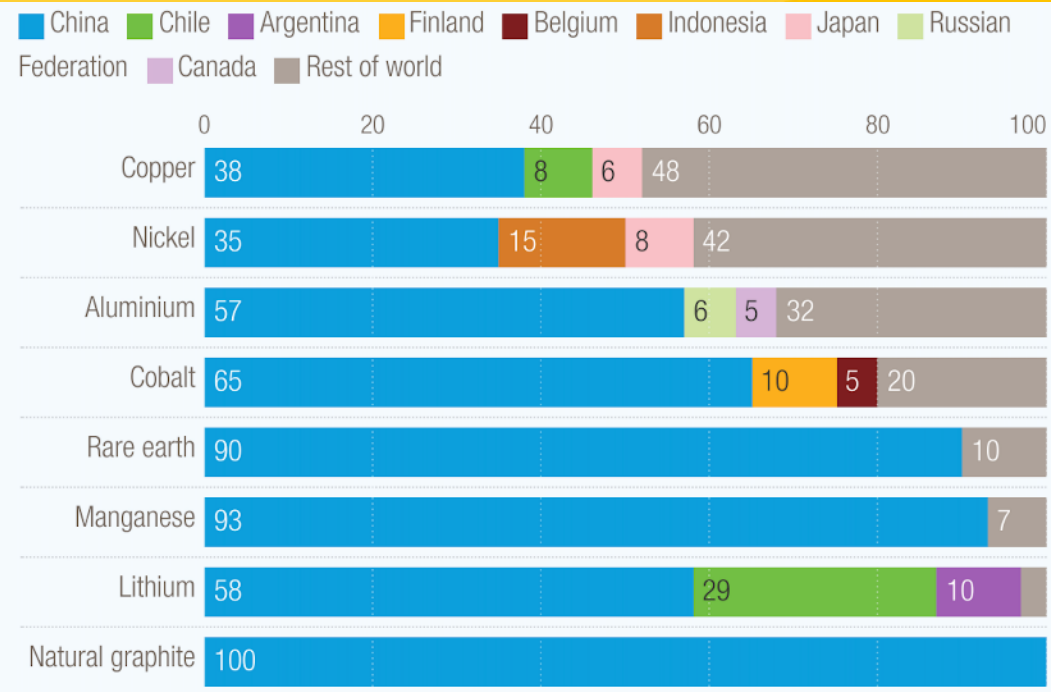
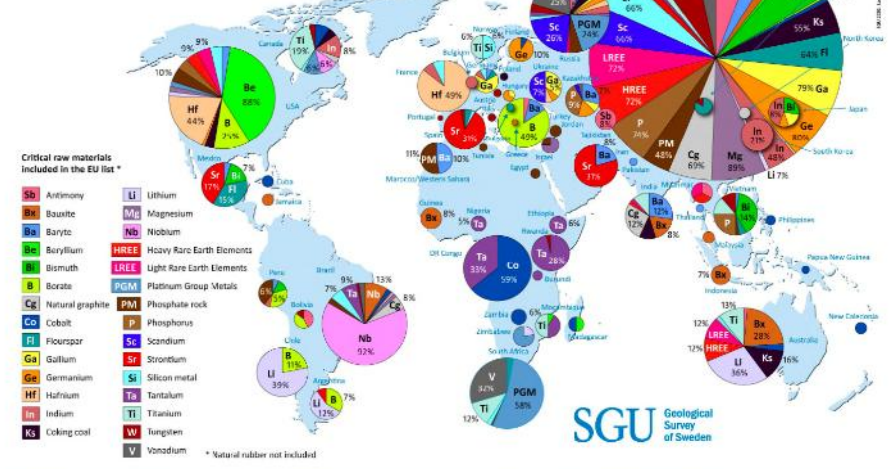
Source: authors' compilation







Global production of critical raw materials (CRM) according to EU definition



Source: UN Trade and Development (UNCTAD), based on OECD (2023a). Strengthening Clean Energy Supply Chains for Decarbonisation and Economic Security: OECD Report for the Group of Seven Finance Ministers and Central Bank Governors.







Table 1: Overview of EU Legislation in the Digital Sector

Applicable law	Published in the Official Journal of the European Union
Regulation	Proposed by the European Commission entered the legislative process
Planned initiative	Mediated by the European Commission as potential legislative initiative

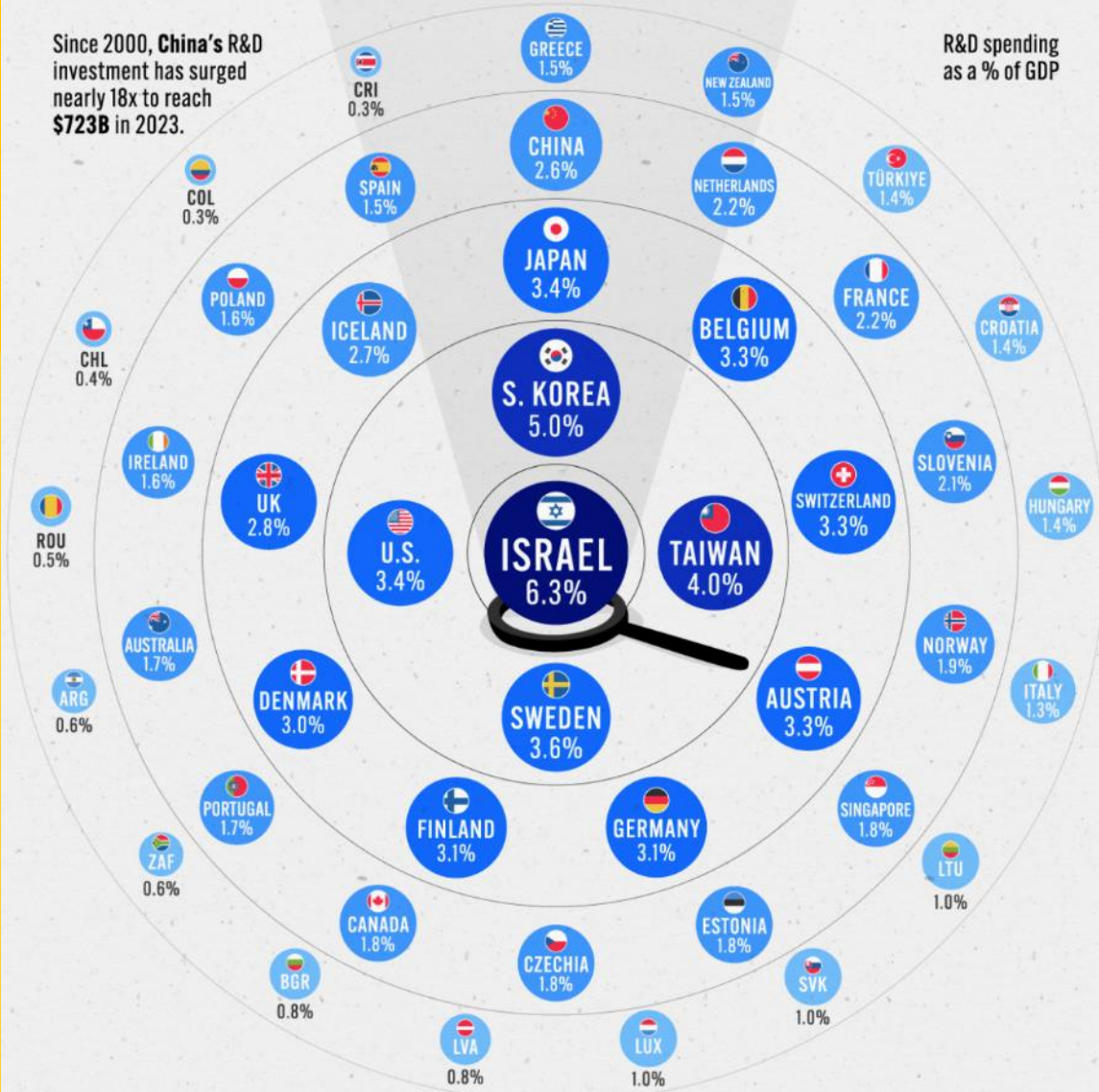
Research & Innovation	Industrial Policy	Connectivity	Data & Privacy	IPR	Cybersecurity	Law Enforcement	Trust & Safety	E-commerce & Consumer Protection	Competition	Media	Finance
Digital Europe Programme Regulation, (EU) 2021/1064	Recovery and Resilience Facility Regulation, (EU) 2021/1041	Frequency Bands Directive, (EC) 1998/53/EEC	General Data Protection Regulation (GDPR), (EU) 2016/679	Database Directive, (EC) 96/9/EC	Regulation for a Cybersecurity Act, (EU) 2019/881	Law Enforcement Directive, (EU) 2016/680	Product Liability Directive (PLD), (EU) 2017/1369	Unfair Contract Terms Directive (UCTD), (EC) 1993/9/EEC	Technology Specific Block Exemptions, (EU) 2017/1035	Satellite and Cable I Directive, (EC) 1993/60/EEC	Common WiFi system, (EU) 2016/1121
Horizon Europe Regulation, (EU) 2021/951, (EU) 2021/1144	InvestEU Progressive Regulation, (EU) 2021/1533	Radio Spectrum Decision, (EC) 2002/97/EC	Regulation to protect personal data processed by EU institutions, bodies, offices and agencies, (EU) 2018/1725	Community Design Directive, (EU) 2017/1339	Regulation to establish a European Cybersecurity Competence Centre, (EU) 2021/1881	Directive on combating fraud and counterfeiting of euro-coin marks of payment, (EU) 2015/671	European Disinformation Regulation, (EU) 2021/1128	E-commerce Directive, (EC) 2000/31/EEC	Company Law Directive, (EU) 2017/1333	Information Society Directive, (EC) 2000/13/EEC	Payment Service Directive 2, PSD2, (EU) 2015/2366
Regulation on a pilot regime distributed ledger tech. market, (EU) 2021/938	Connecting Europe Facility Regulation, (EU) 2021/1115	Broadband Cost Reduction Directive, (EU) 2014/51/EC	Regulation on the free flow of non-personal data, (EU) 2018/1807	Enforcement Directive (PR), (EC) 2004/48/EC	NIS 2 Directive, (EU) 2022/2555	Regulation on terrorist content online, (EU) 2021/1784	Radio Equipment Directive (RED), (EU) 2014/53/EC	Unfair Commercial Practices Directive (UCPD), (EC) 2005/29/EC	Market Surveillance Regulation, (EU) 2019/1323	Audio-visual Media Services Directive (AVMSD), (EU) 2010/13/EC	Digital Operational Resilience Act (DORA) Regulation, (EU) 2022/2554
	Regulation on High Performance Computing Joint Undertaking, (EU) 2021/1172	Open Internet Access Regulation, (EU) 2015/2120	Open Data Directive (PR), (EU) 2019/1024	Directive on the protection of trade secrets, (EU) 2016/943	Microbes Security Regulation, 2022/2084/EC	Temporary CSAM Regulation, (EU) 2021/1130	eIDAS Regulation, (EU) 2018/1875	Directive on Consumer Rights (CRD), (EU) 2011/83/EC	F2B Regulation, (EU) 2015/1183	Portability Regulation, (EU) 2017/1126	Crypto-assets Regulation (MiCA), (EU) 2023/1134
	Regulation on Joint Undertakings under Horizon Europe, (EU) 2021/2086	European Electronic Communications Code Directive (EECC), (EU) 2018/1872	Data Governance Act (DGA) Regulation, (EU) 2021/948	Standard essential patents, 2020/1013/EC	Cybersecurity Regulation, 2022/2086/EC	E-evidence Regulation, 2018/0108/EC	Regulation for a Single Digital Gateway, (EU) 2018/1724	e-Invoicing Directive, (EU) 2014/55/EC	Vertical Block Exemption Regulation (VBEX), (EU) 2022/1720	Satellite and Cable I Directive, (EU) 2018/758	Digitalisers, 2023/0112/EC
	Decision on a path to the Digital Decade, (EU) 2021/987	Scoring Regulation, (EU) 2022/612	ePrivacy Regulation, 2017/0006/EC	Design Directive, 2021/0009/EC	Cyber Resilience Act, 2022/0220/EC	Digitalization of travel documents	General Product Safety Regulation, (EU) 2023/3988	Geo-Blocking Regulation, (EU) 2016/693	Digital Markets Act (DMA) Regulation, (EU) 2022/1925	Copyright Directive, (EU) 2019/790	Financial Data Access Regulation, 2023/0228/EC
	European Chips Act (Regulation), 2022/0000/EC	Regulation on the Union Secure Connecting Programme, (EU) 2022/598	European Data Act (Regulation), 2022/0017/EC	Compulsory licensing of patents, 2020/1019/EC	Cyber Solidarity Act (Regulation), 2022/0139/EC		Machinery Regulation, (EU) 2023/1236	Digital Content Directive, (EU) 2015/1710	Regulation on alternative design subsidies, (EU) 2022/0989	European Media Freedom Act, 2022/0017/EC	Payment Services Regulation, 2015/2366/EC
	European critical raw materials act (Regulation), 2023/0019/EC	Aviation Level 2 action Regulation, (EU) 2018/117	European Health Data Space (Regulation), 2022/0140/EC				AI Act (Regulation), 2021/0166/EC	Directive on certain aspects concerning contracts for the sale of goods, (EU) 2015/0771	Horizontal Block Exemption Regulation (HBEEX), (EU) 2022/7586		Revision of the late payments Directive
	Establishing the Strategic Technologies for Europe Platform (STEP), 2023/0109/EC	Networks operators, policy programme 2022-23	Regulation on data collection for short-term rental, 2022/0208/EC				Eco-design Regulation, 2022/0009/EC	Digital Services Act (DSA) Regulation, (EU) 2022/2065	Platform Work Directive, 2021/0414/EC		
		Telecoms Act / Fair Share initiative	Harmonisation of GDPR enforcement, 2022/0202/EC				AI Liability Directive, 2022/0000/EC	Right to repair Directive, 2022/0000/EC	Single Market Emergency Instrument (SMEEI), 2022/0218/EC		
			Interoperable Europe Act, 2022/0019/EC					Political Advertising Regulation, 2022/0281/EC			
			Access to vehicle data, functions and resources					Multinational digital mobility services (MDMS)			
			Green Data Act					Consumer protection, strengthened enforcement, cooperation			
								Consumer rights, Mating, A2B in digital markets			



THE COUNTRIES SPENDING MOST ON Research and Development

Since 2000, China's R&D investment has surged nearly 18x to reach \$723B in 2023.

R&D spending as a % of GDP

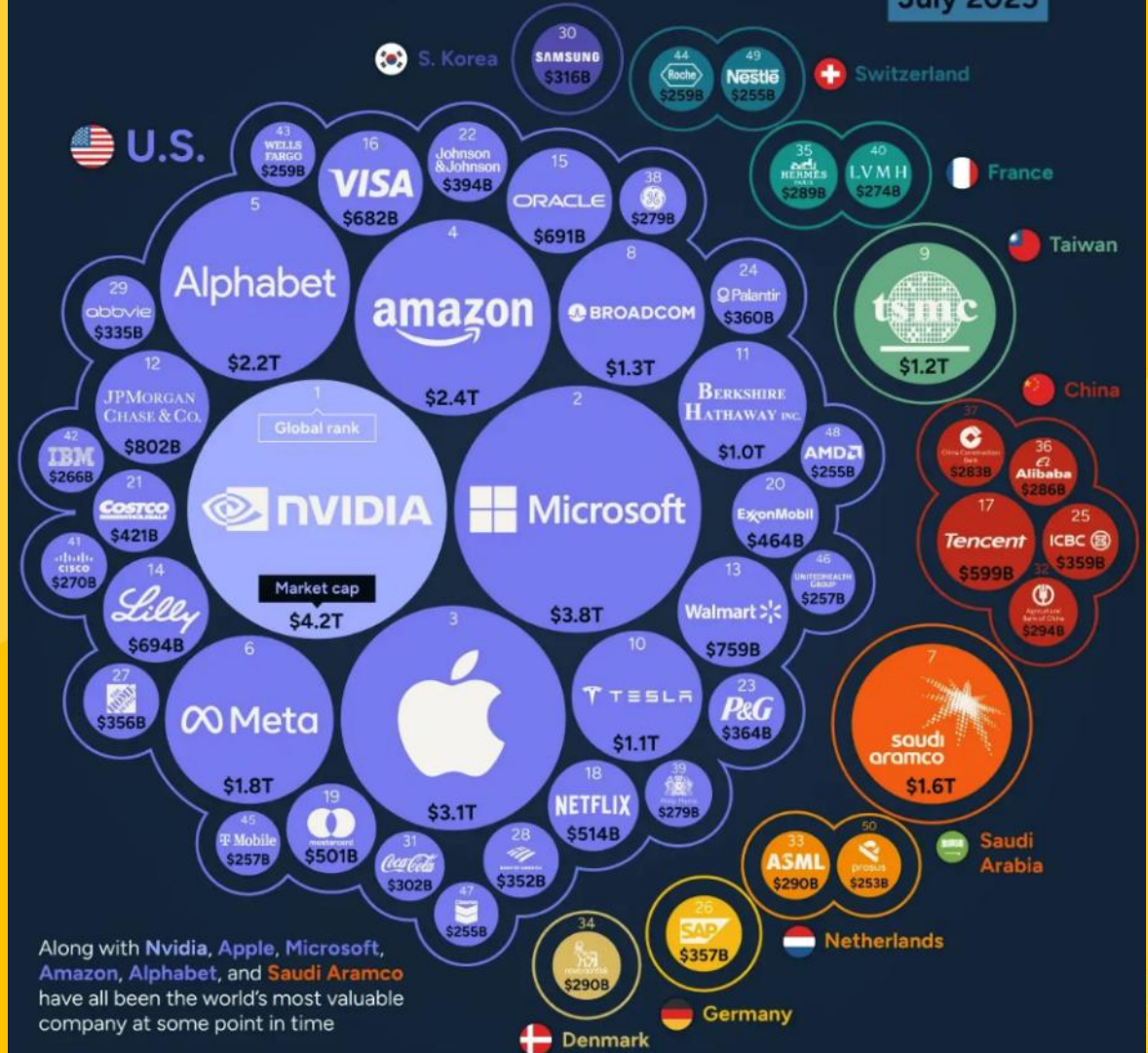


Source: OECD, March 2025

Figures as of 2023 or latest year available

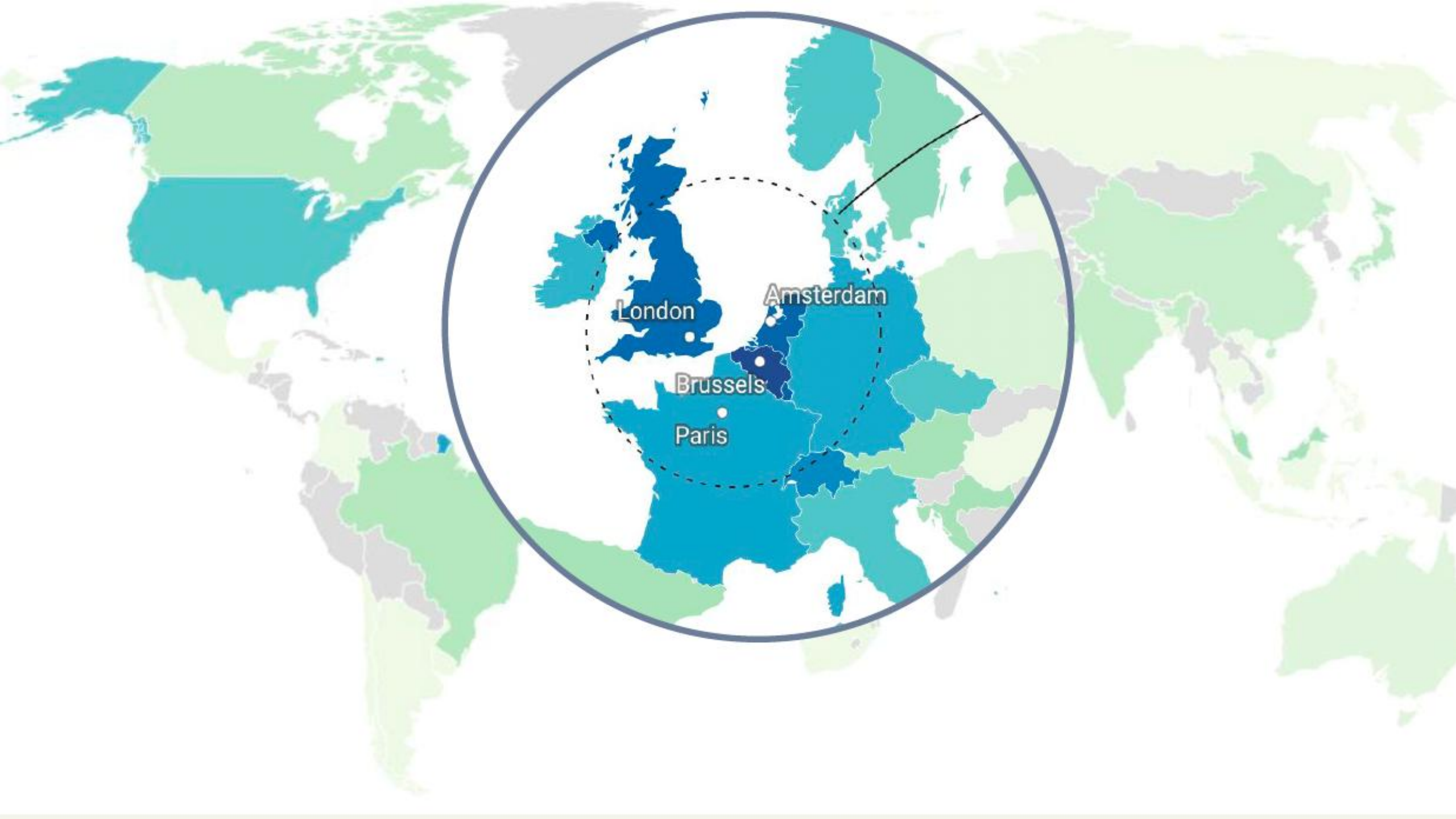
50 LARGEST COMPANIES IN THE WORLD

July 2025



Along with Nvidia, Apple, Microsoft, Amazon, Alphabet, and Saudi Aramco have all been the world's most valuable company at some point in time

Figures rounded. As of July 18, 2025. Source: Companiesmarketcap.com



London

Amsterdam

Brussels

Paris





NEBIUS



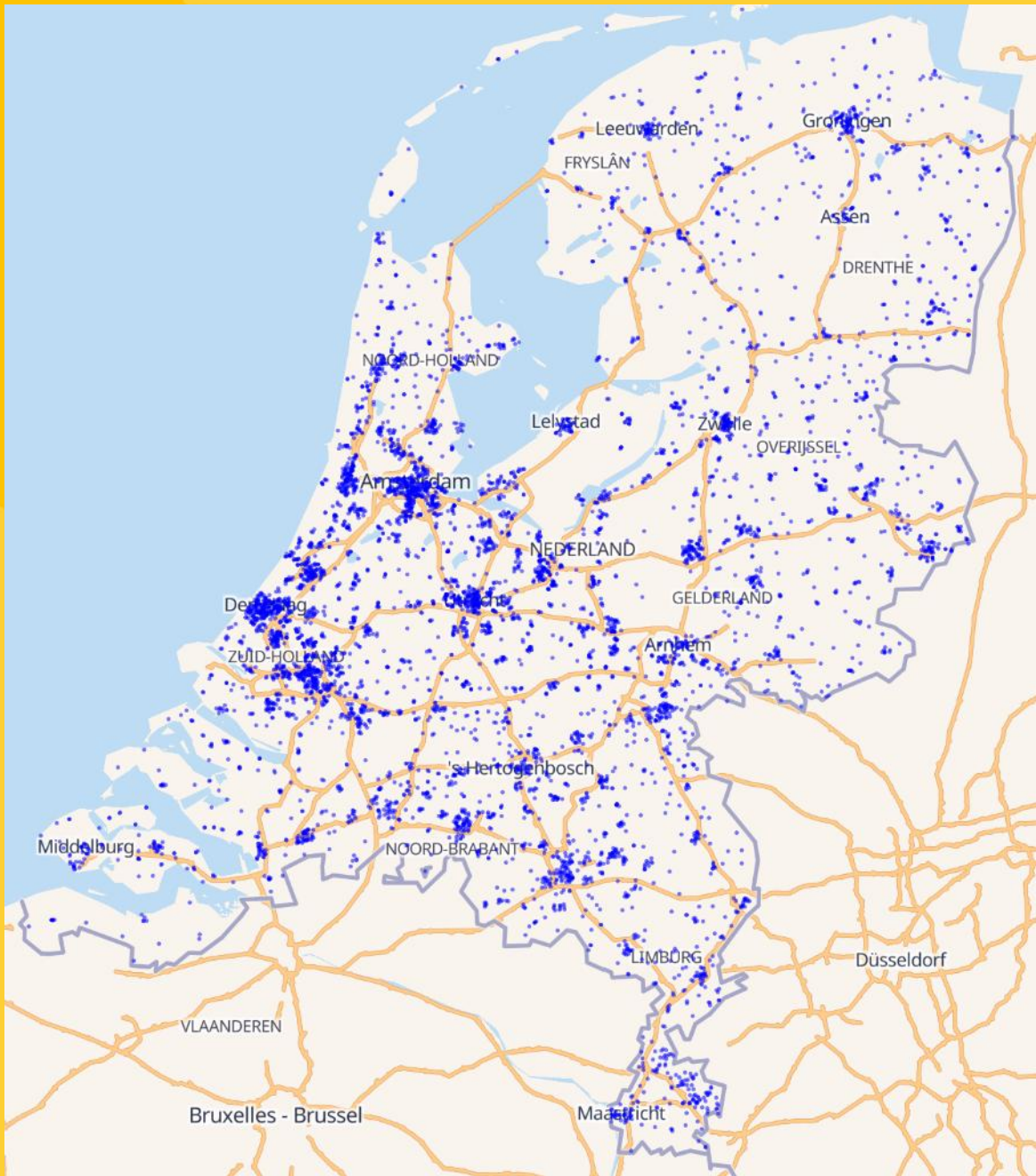
Qwant⁺

De zoekmachine die niets over u weet

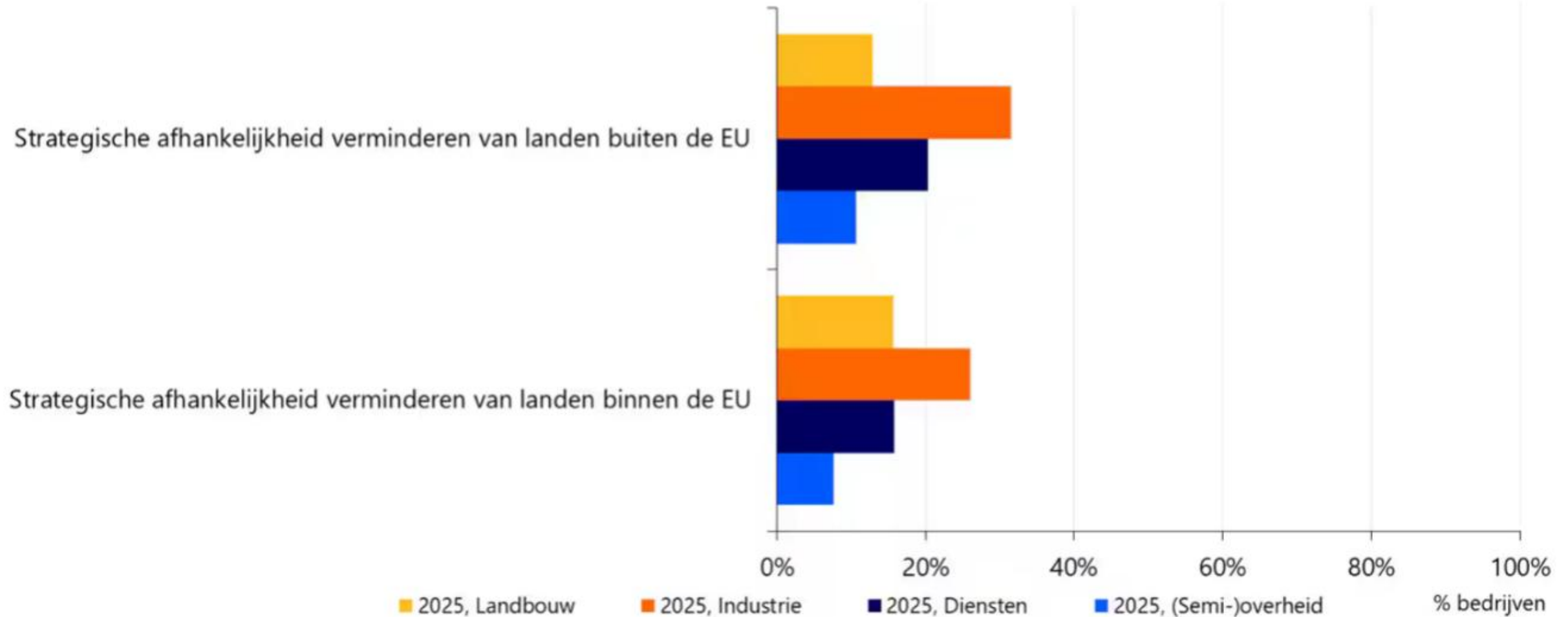


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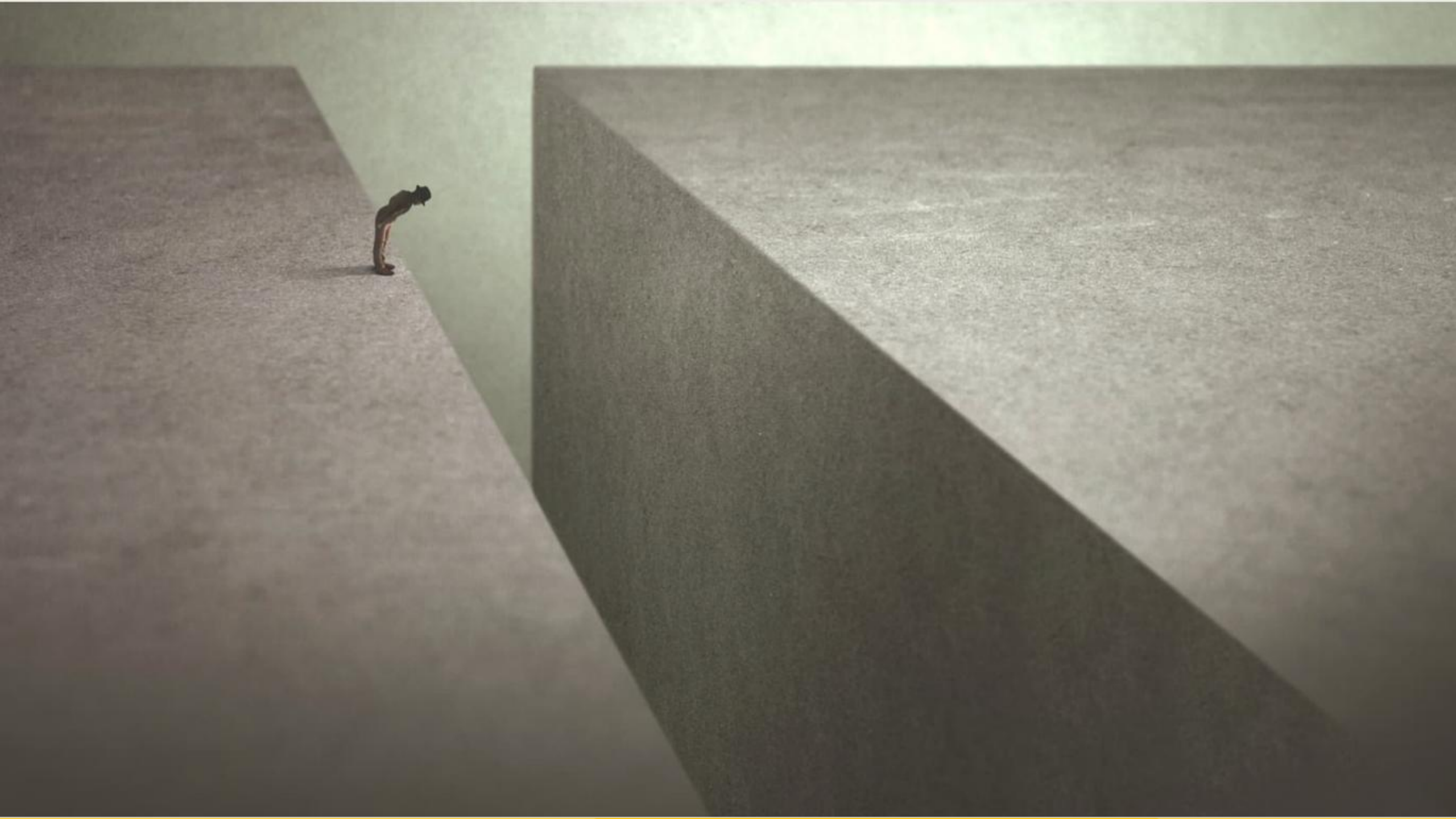




Figuur 6: Vooral industriële bedrijven werken aan verminderen strategische afhankelijkheid









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