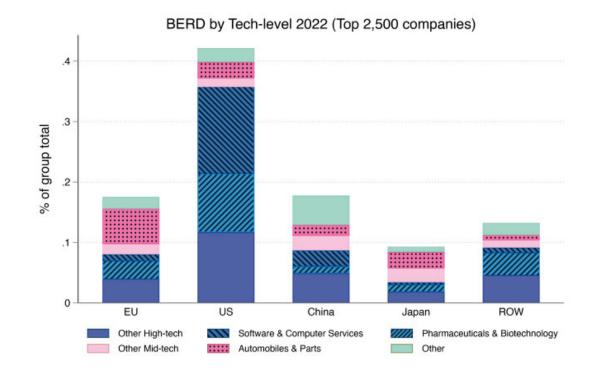
EU's technology gap: corporate R&D spending



Technology gap

The EU is caught in middle technology trap





EU's technology gap: path dependency



Technology gap

There is strong pathdependency in EU's structural composition

Top-3 R&D spenders and their industries compared over time

	2003	2012	2022
US	Ford (auto)	Microsoft (software)	Alphabet (software)
	Pfizer (pharma)	Intel (hardware)	Meta (software)
	GM (auto)	Merck (pharma)	Microsoft (software)
EU	Mercedes-Benz (auto)	VW (auto)	VW (auto)
	Siemens (electronics)	Mercedes-Benz (auto)	Mercedes-Benz (auto)
	VW (auto)	Bosch (auto)	Bosch (auto)
JPN	Toyota (auto)	Toyota (auto)	Toyota (auto)
	Panasonic (electronics)	Honda (auto)	Honda (auto)
	Sony (electronics)	Panasonic (electronics)	NTT (telecom)

Source: Industrial R&D Investment Scoreboard (2004, 2013 and 2023).



EU's technology gap: weak where it matters

The EU positioning in complex technologies vs the US and China, 2019-2022



More complex

Technology gap

EU is strong in less sophisticated technologies, while US and China dominate in the most complex ones (digital).

> Less complex

