

10 YEARS PERFORMANCE - WORLD'S TOP R&D INVESTORS

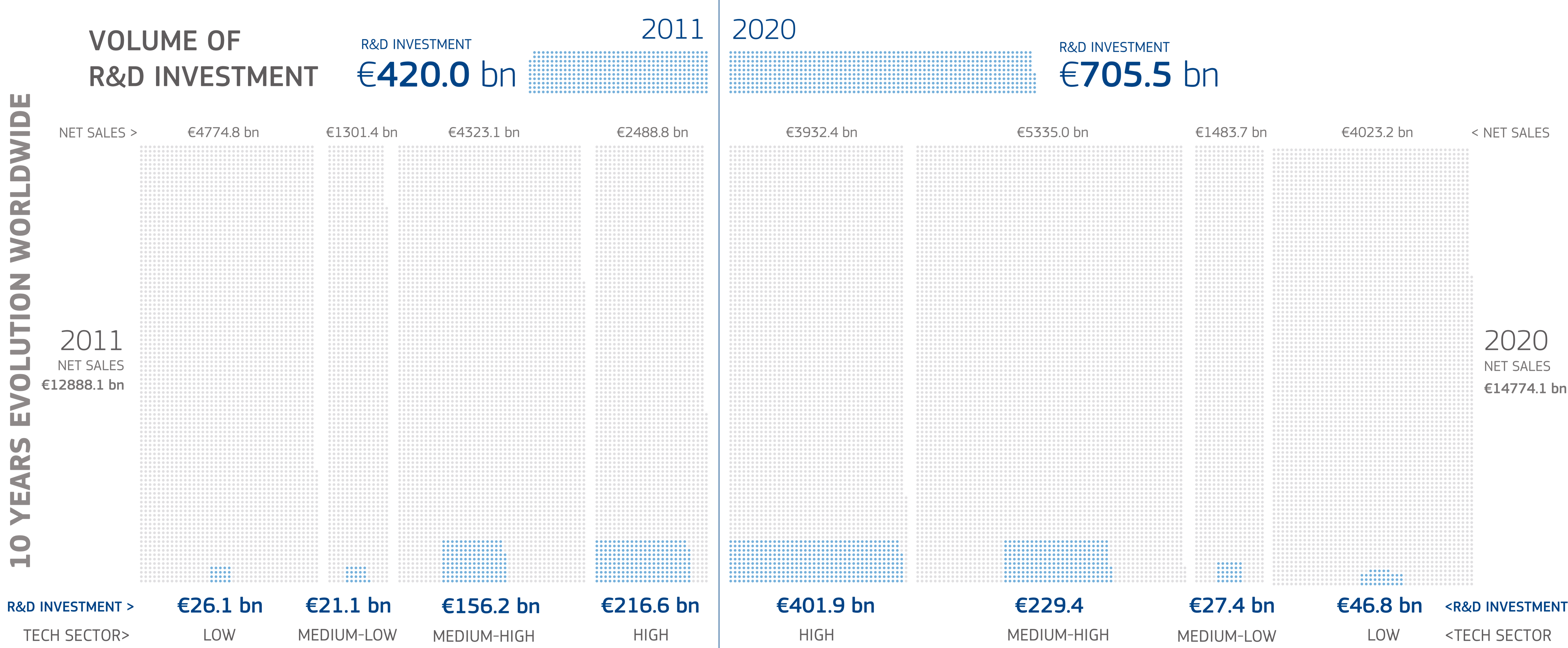
2021 EU INDUSTRIAL R&D INVESTMENT SCOREBOARD

2011 → 2020

Over 10 years, top R&D investors increased R&D investment by **68%**,
net sales by **15%** and employment by **16%**

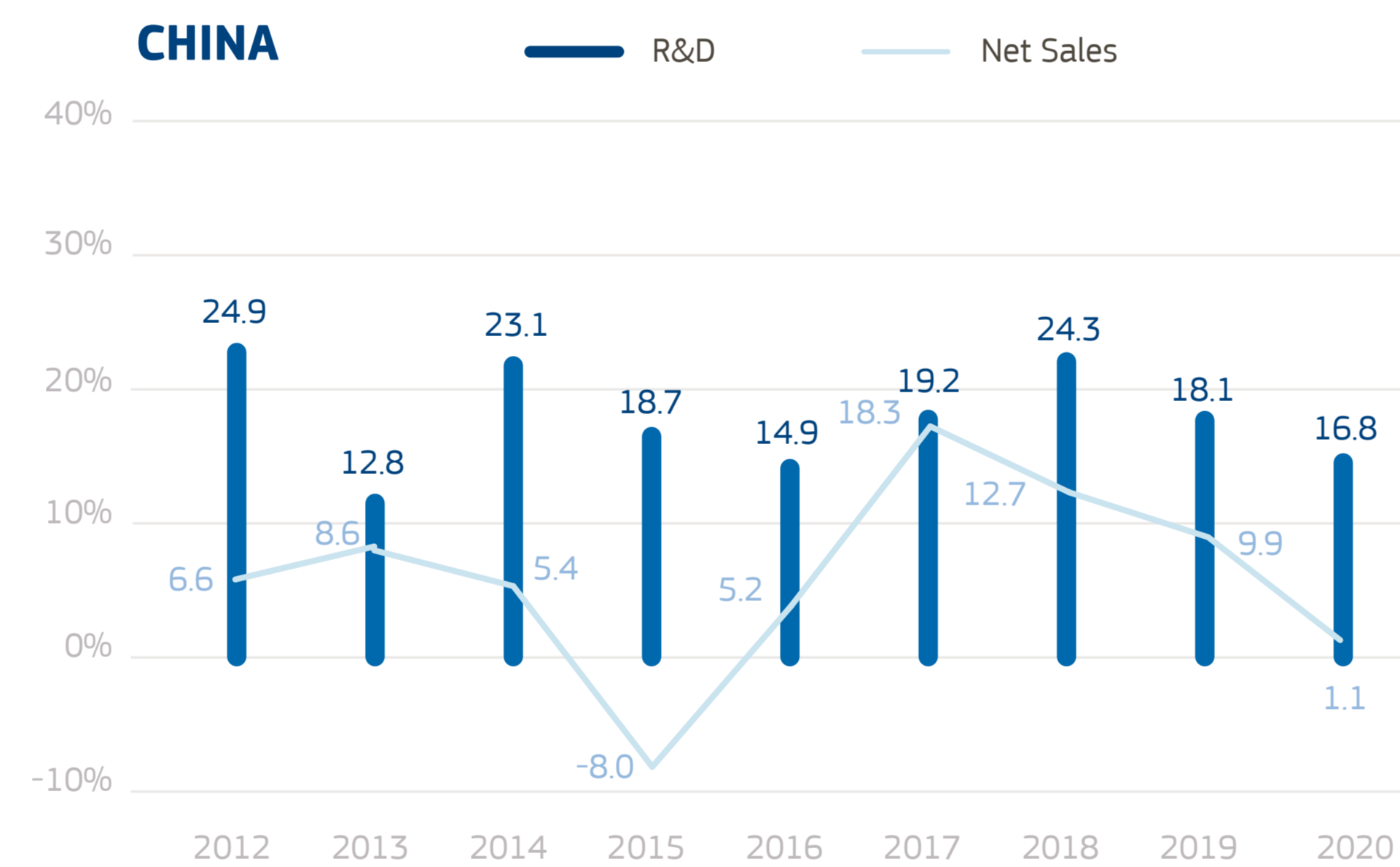
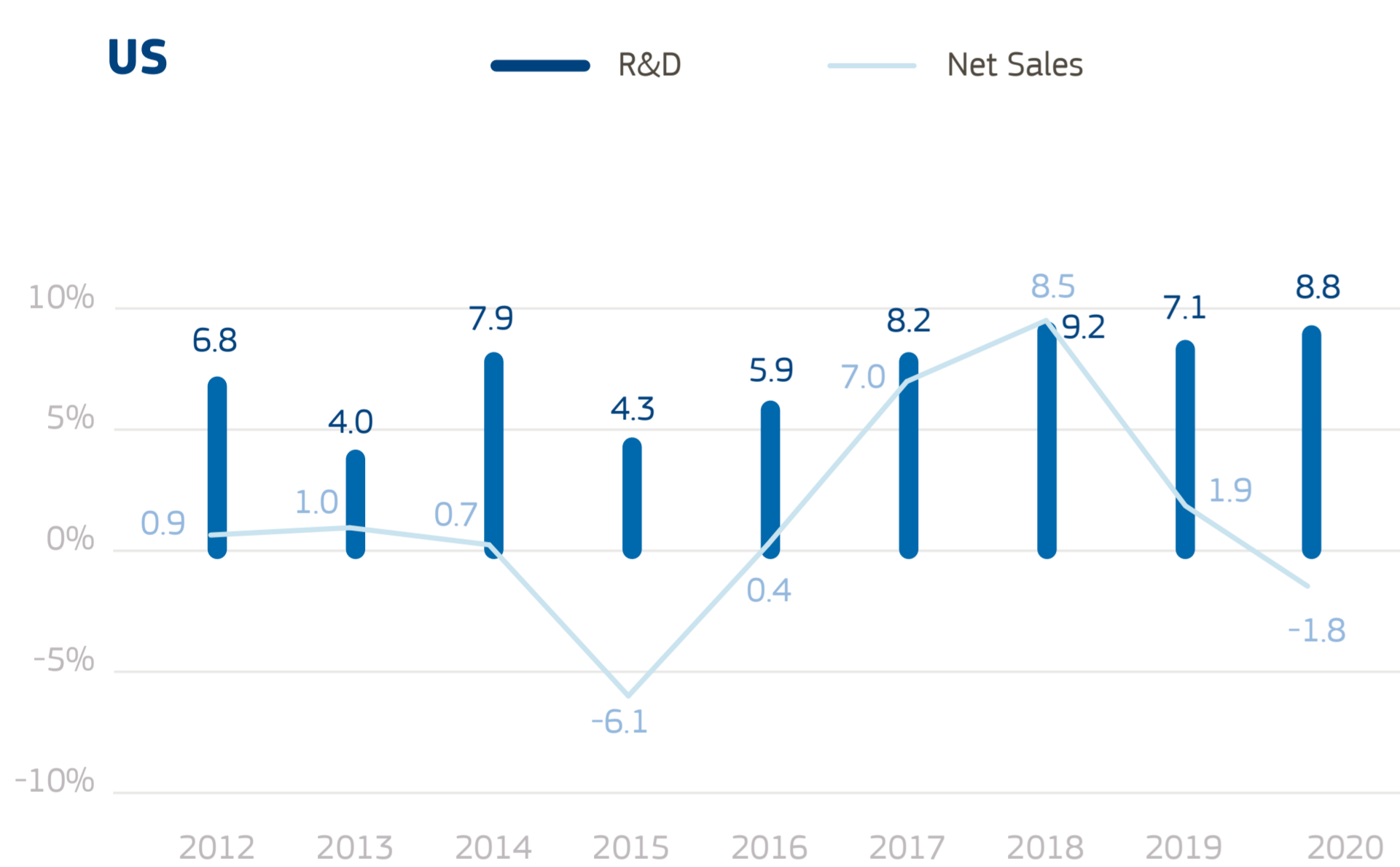
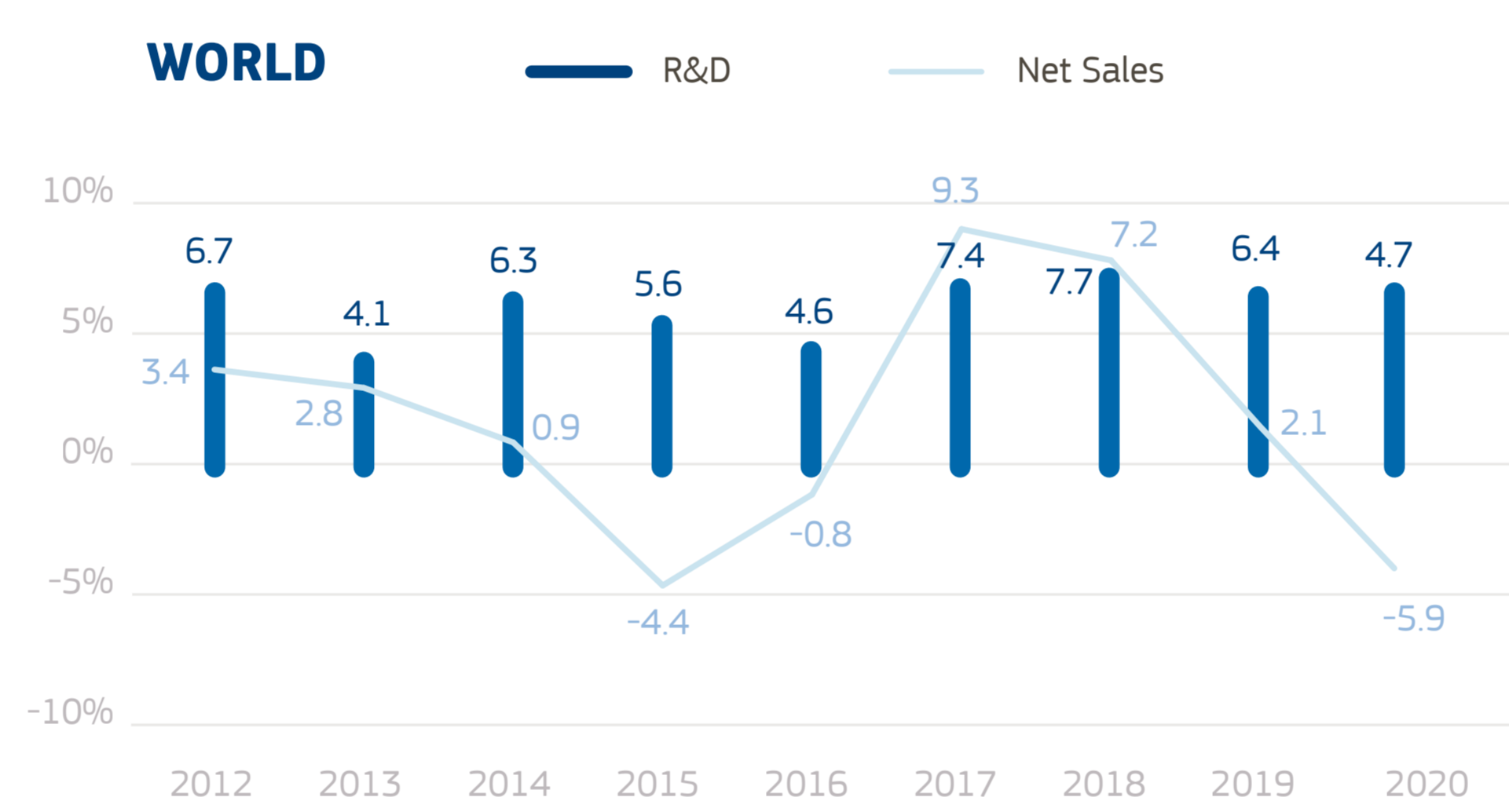
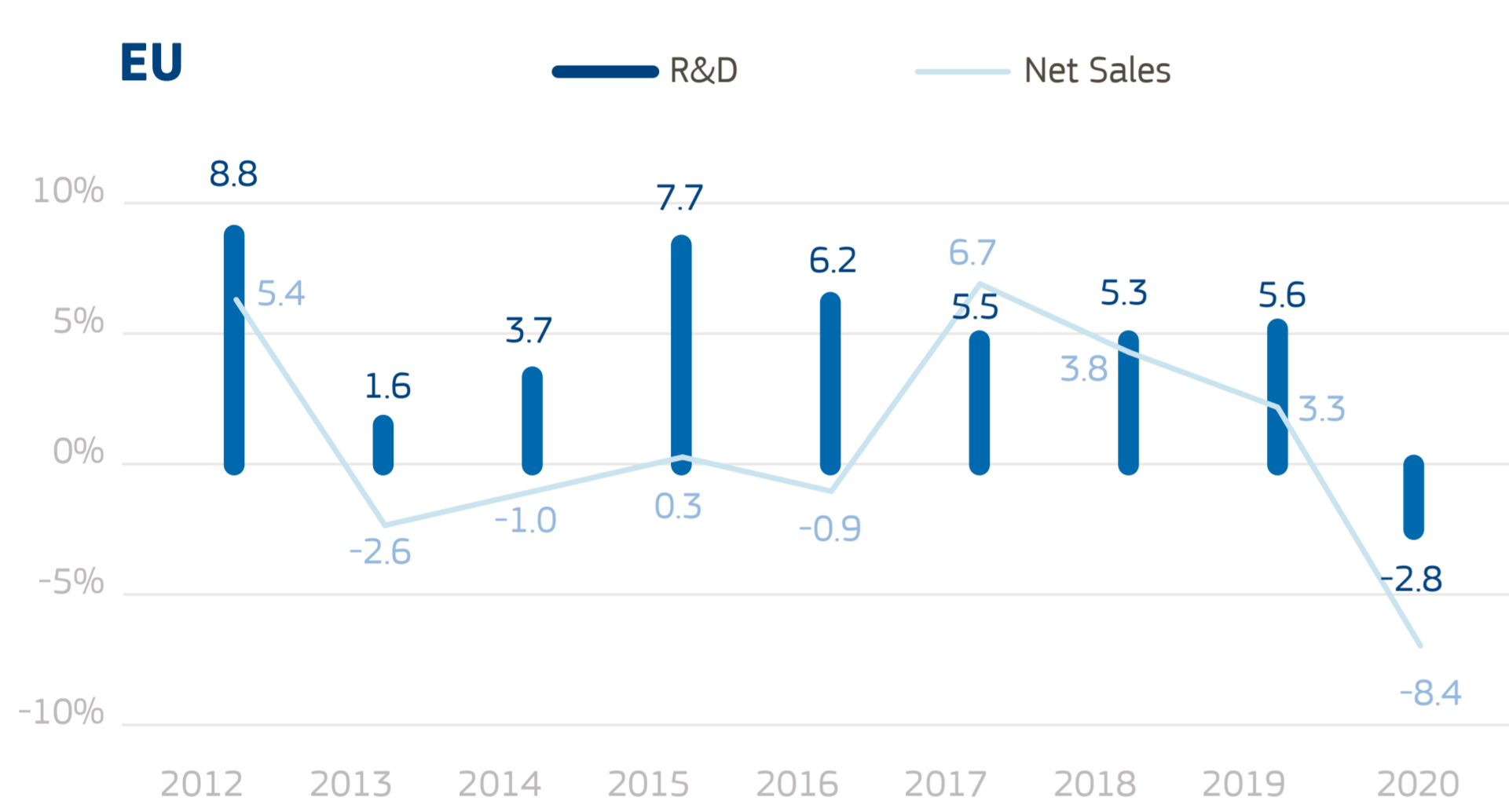
Figures refer to the database of 1527 companies for which data are available for the whole period.

10 YEARS EVOLUTION WORLDWIDE

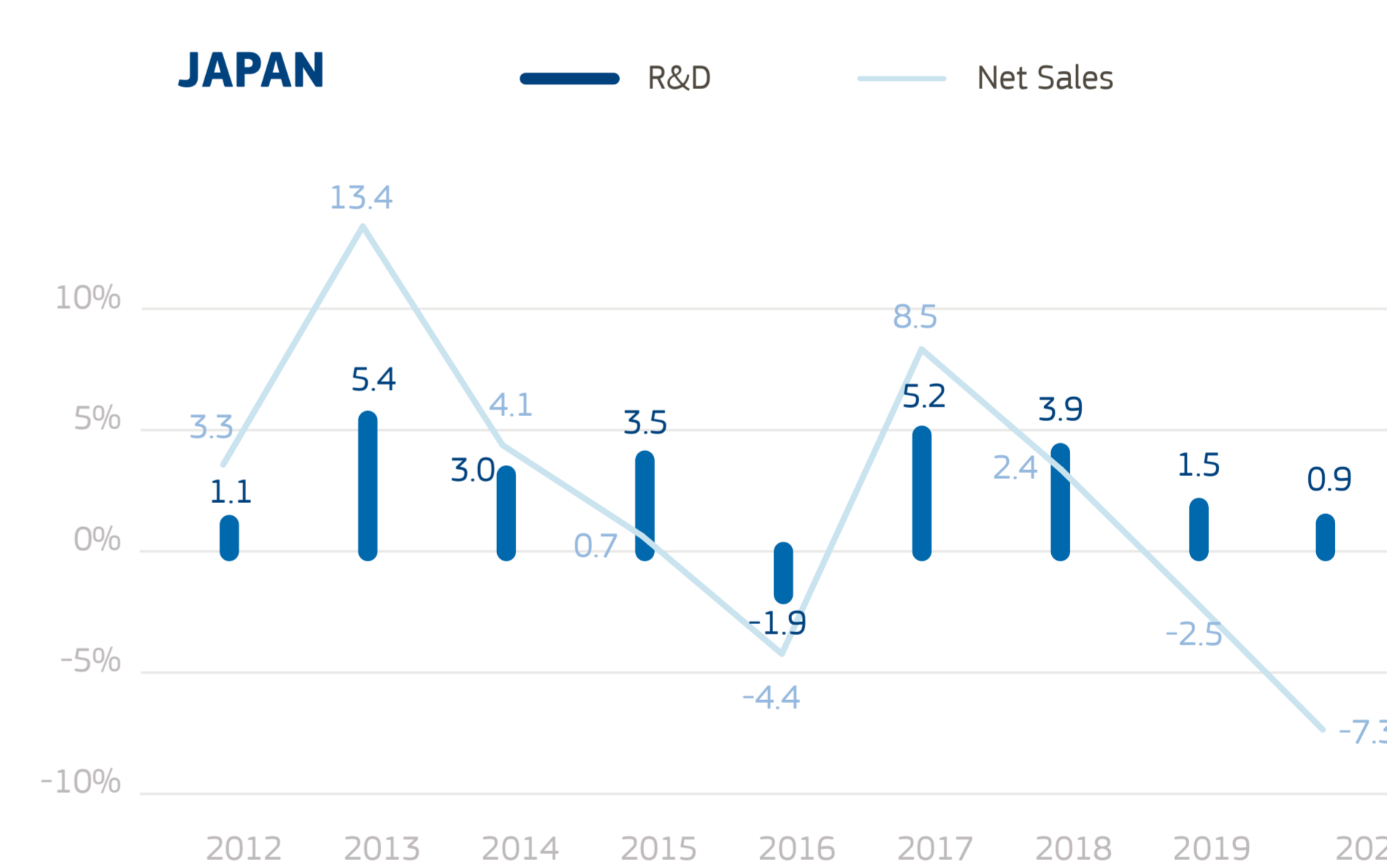
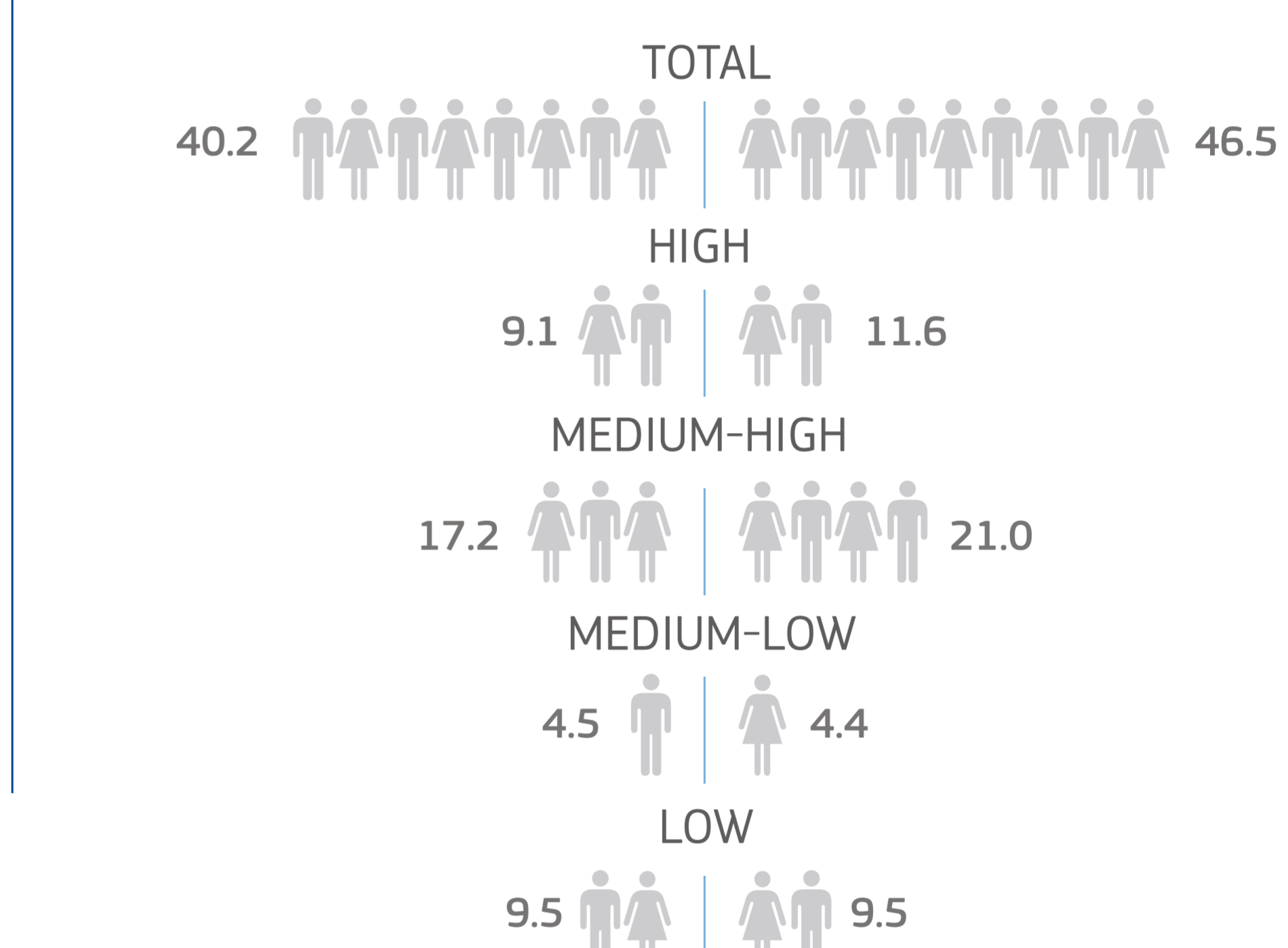


R&D INVESTMENT AND NET SALES TRENDS

Over the past 10 years, the R&D share of EU companies over the total R&D decreased slightly.



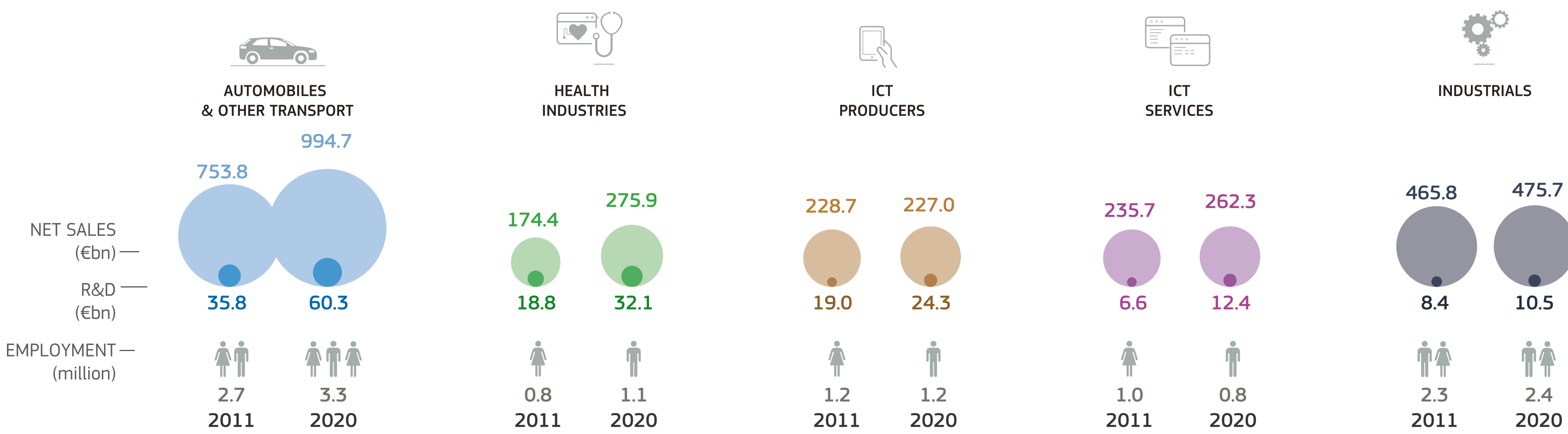
Employees (Million)



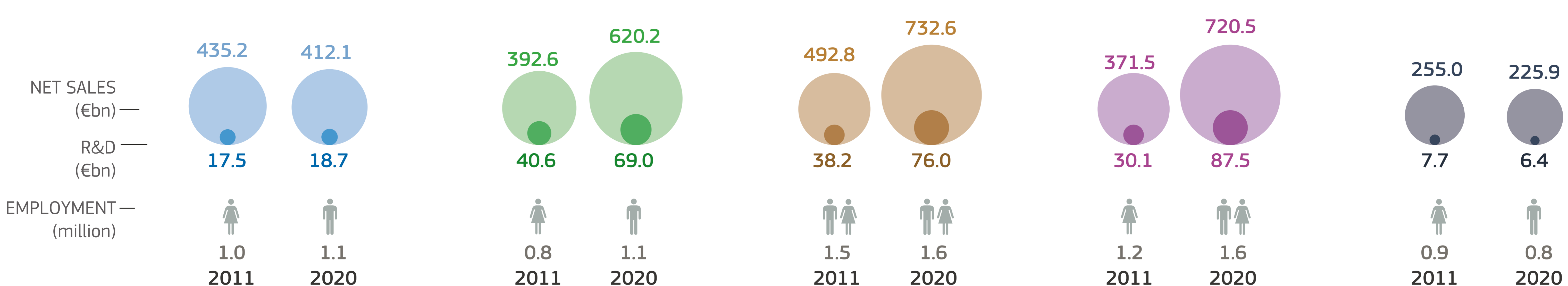
The loss of R&D share by Japanese companies corresponds to increases in R&D shares for the other countries/regions, especially for companies based in China.

The main change in this indicator is observed for the Japanese companies whose R&D share fell by ca. 5 percentage points.

EU 2011/2020

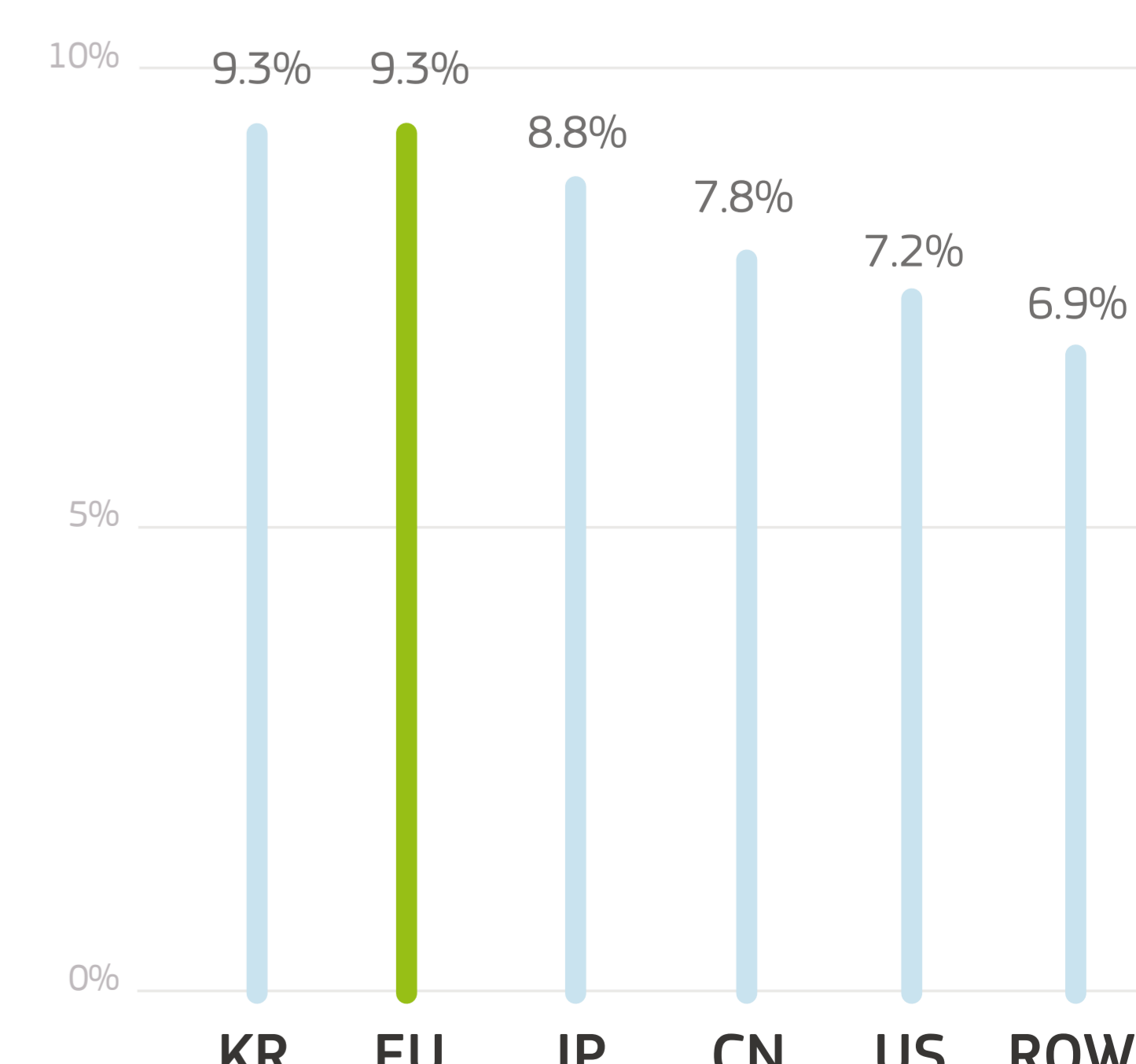
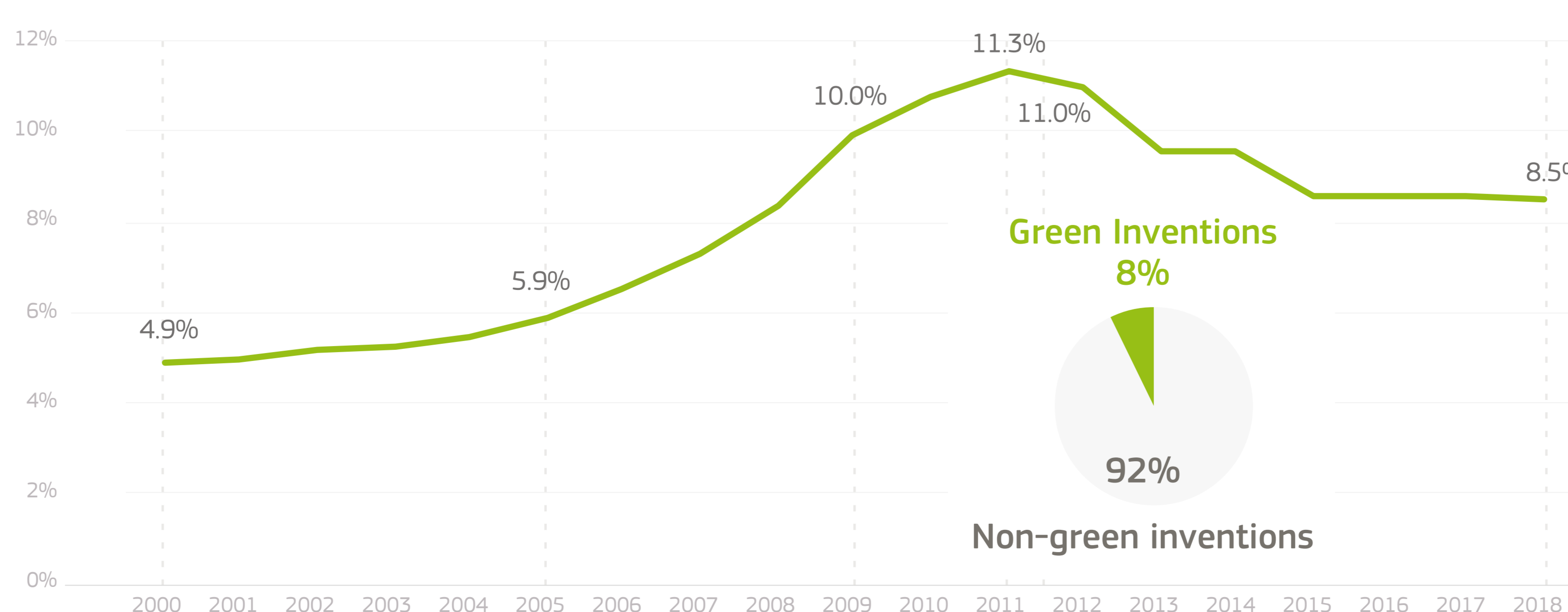


US 2011/2020



GREEN TECHNOLOGIES

The global share of green inventions* in overall patenting activity is 8%. Among major economies, the EU is second, slightly behind South Korea, in terms of green patents over the total.



* According to the Cooperative Patent Classification (CPC) system. EPO/USPTO partnership. <https://www.cooperativepatentclassification.org/index>