



Institute for European
Analysis and Policy

Green transition, innovation and defense

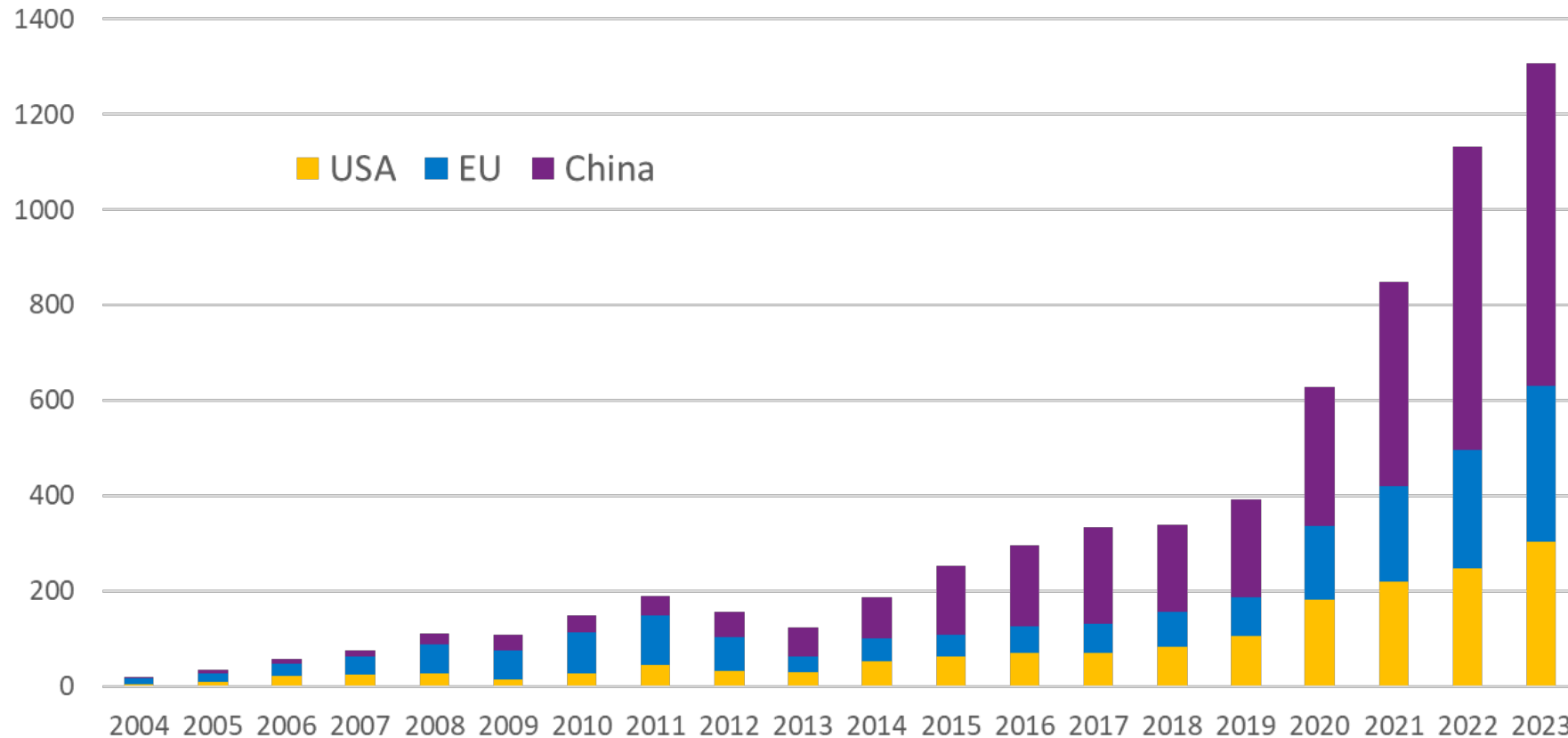
Pier Carlo Padoan

8 aprile 2024



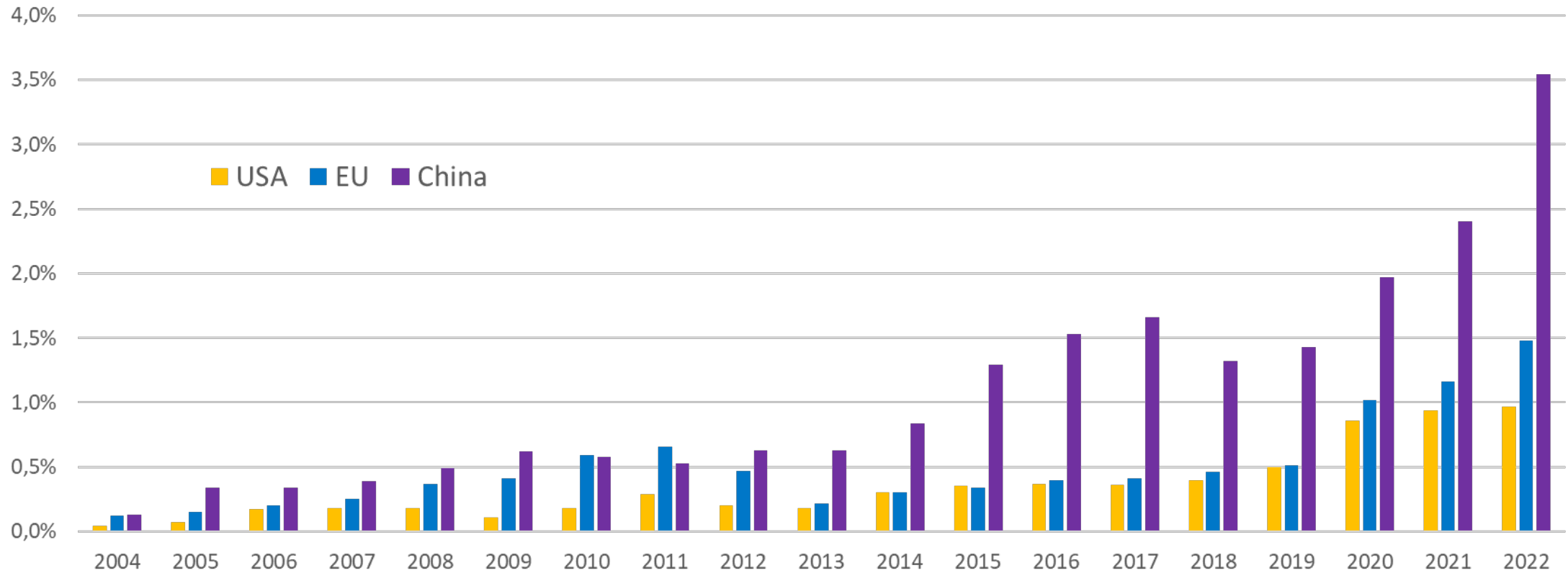
TOTAL INVESTMENT RELATED TO GREEN TRANSITION HAS STEADILY INCREASED ACROSS MAIN GEOGRAPHIES DRIVEN BY CHINA

Public and private investment in energy transition
(USD, bn)



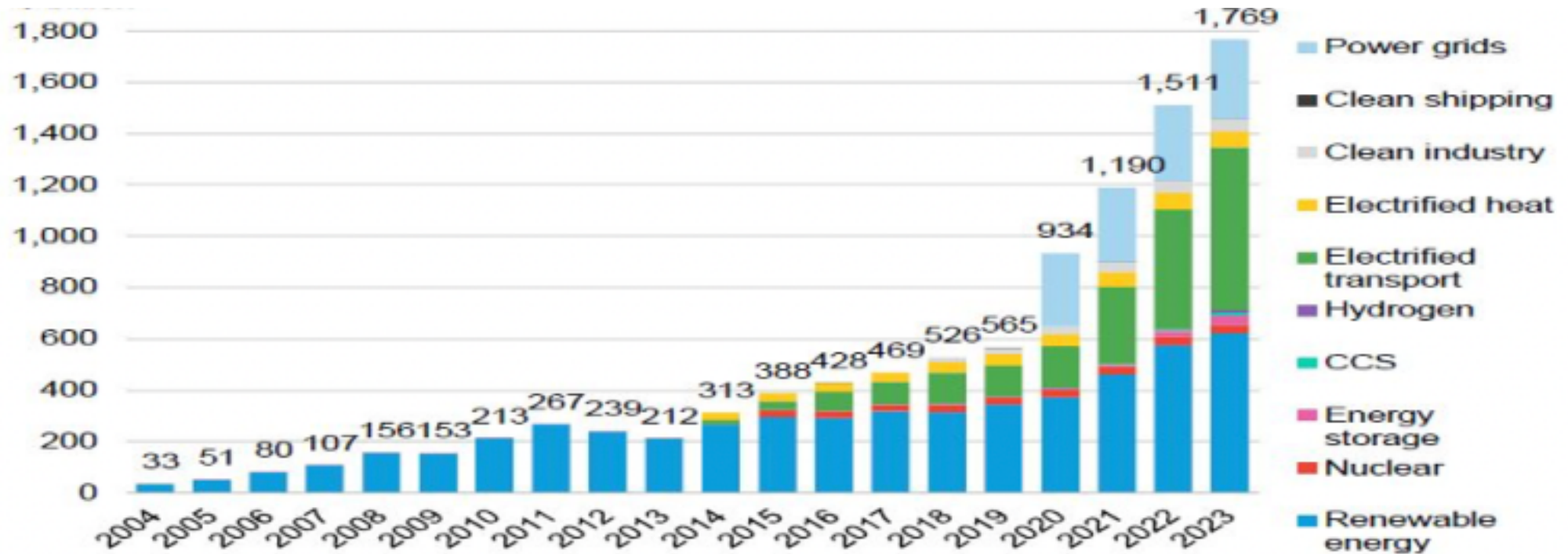
CHINA'S DOMINANCE EVEN MORE EVIDENT IN RELATIVE TERMS

Public and private investment in energy transition (% of GDP)



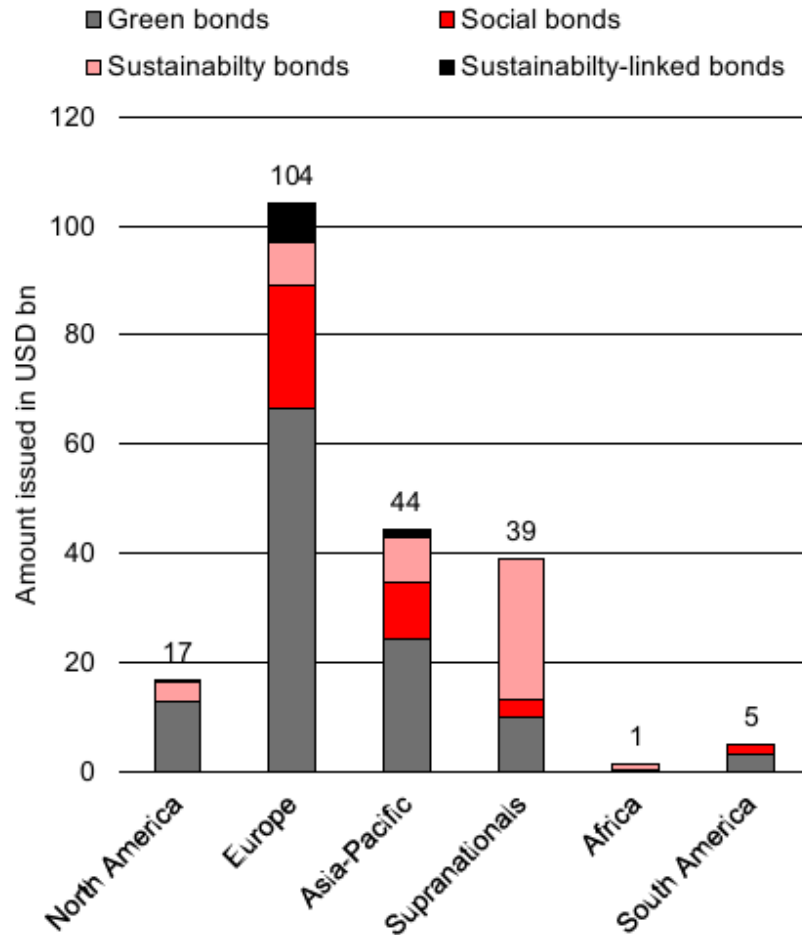
ENERGY TRANSITION: RENEWABLE ENERGY AND ELECTRIFIED TRANSPORT ATTRACT MOST PART OF INVESTMENTS

Investments in the global energy transition, by sector
(bn USD)

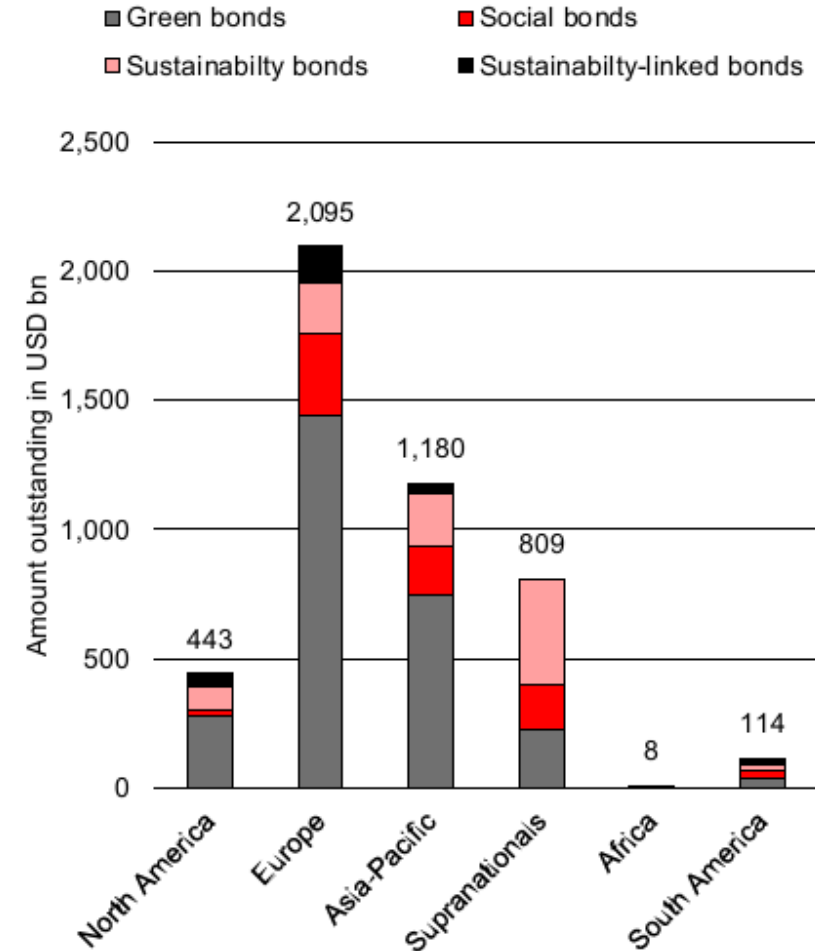


GREEN, SOCIAL, SUSTAINABILITY AND SUSTAINABILITY-LINKED BONDS ISSUANCE TRENDS: EUROPE REMAINS IN THE LEAD

Geographic distribution in 2024

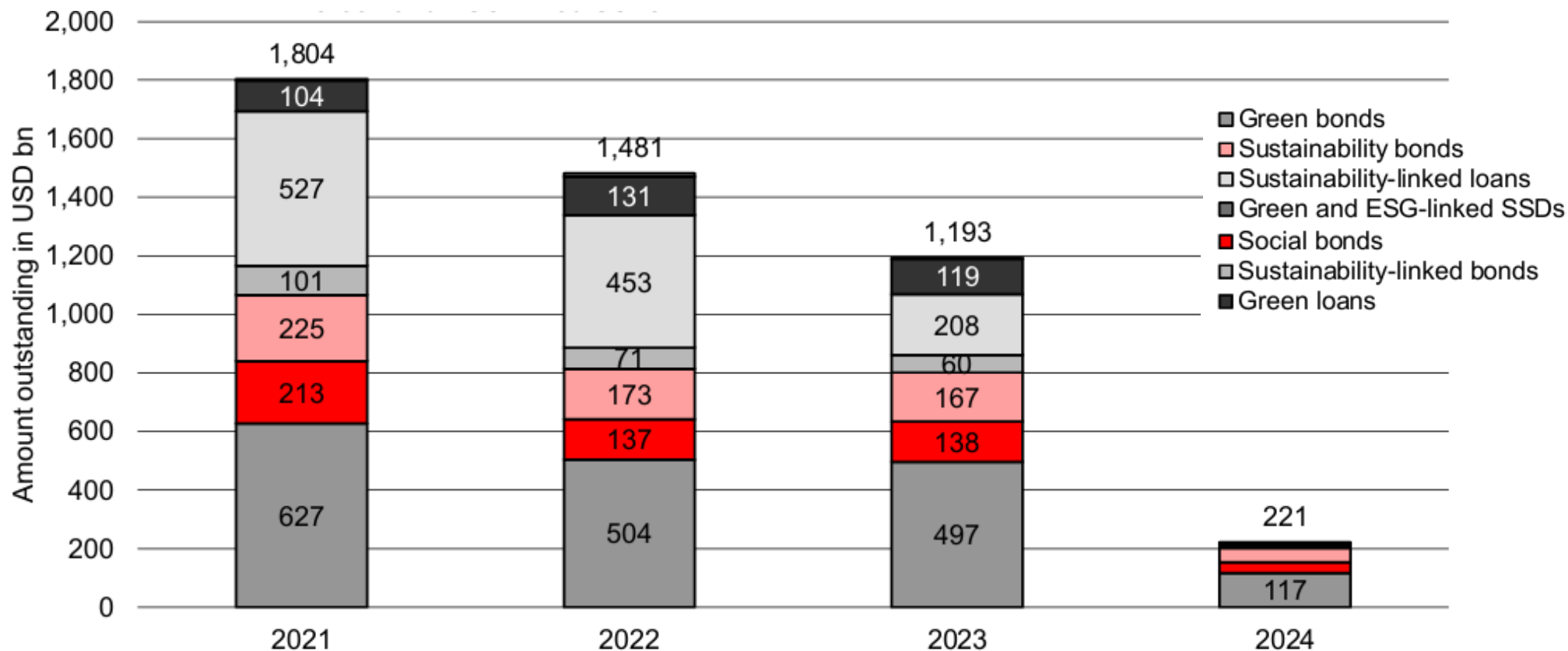


Geographic distribution overall



GLOBAL SUSTAINABLE FINANCE MARKET: VOLUME DECLINE, DRIVEN ESPECIALLY BY LOANS

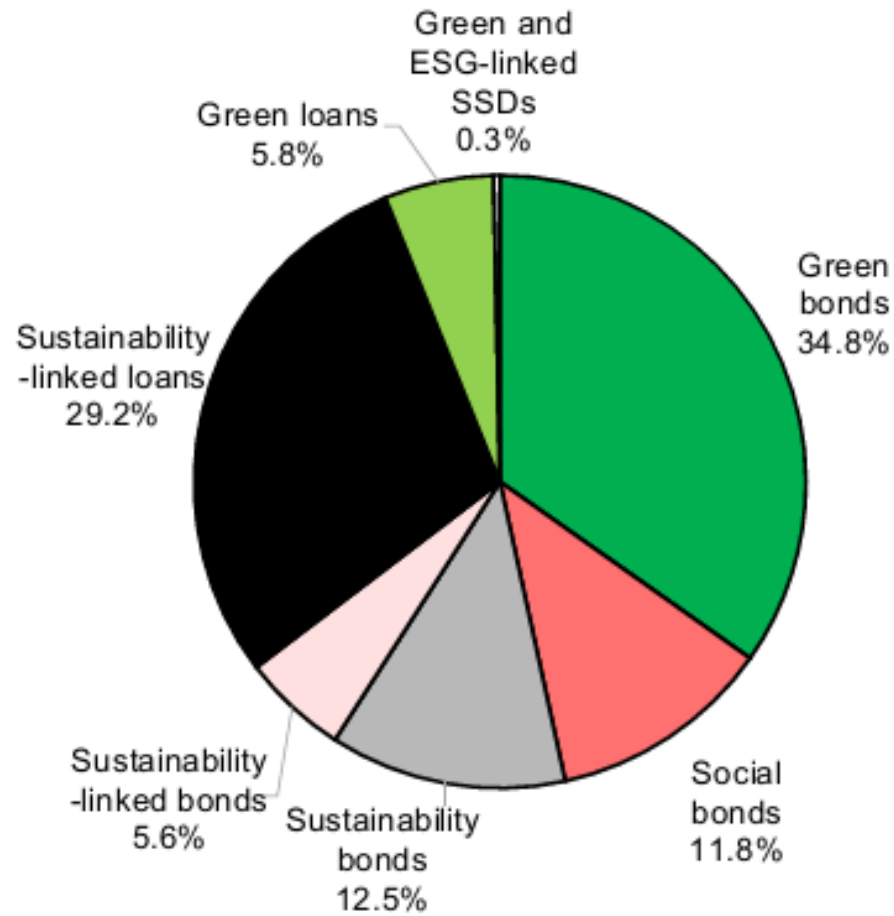
Sustainable finance volume



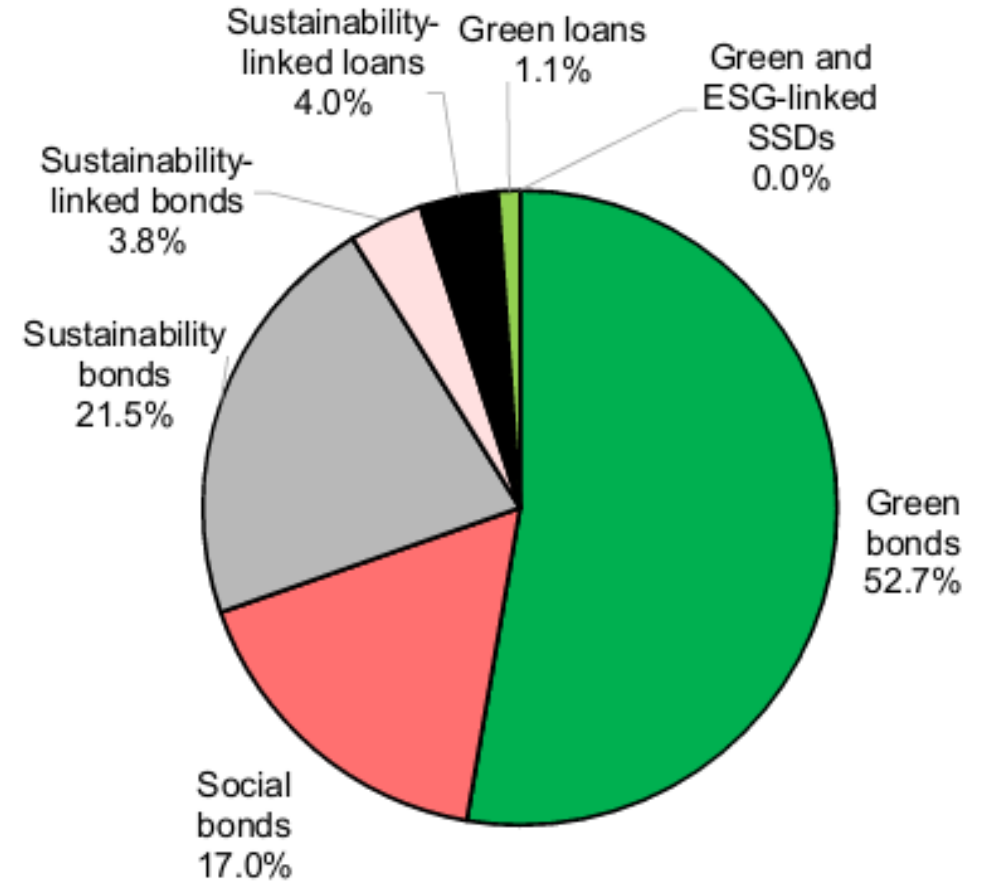
GLOBAL ESG PRODUCTS MARKET: GREEN BONDS REMAIN DOMINANT

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Breakdown issuance in 2021

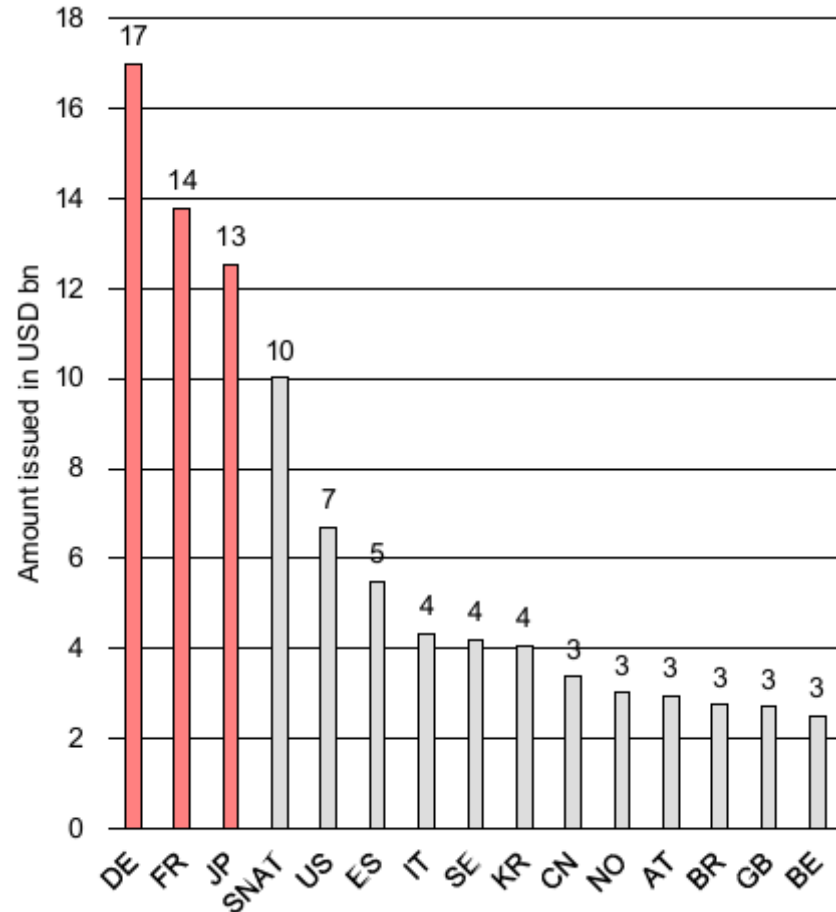


Breakdown issuance in 2024

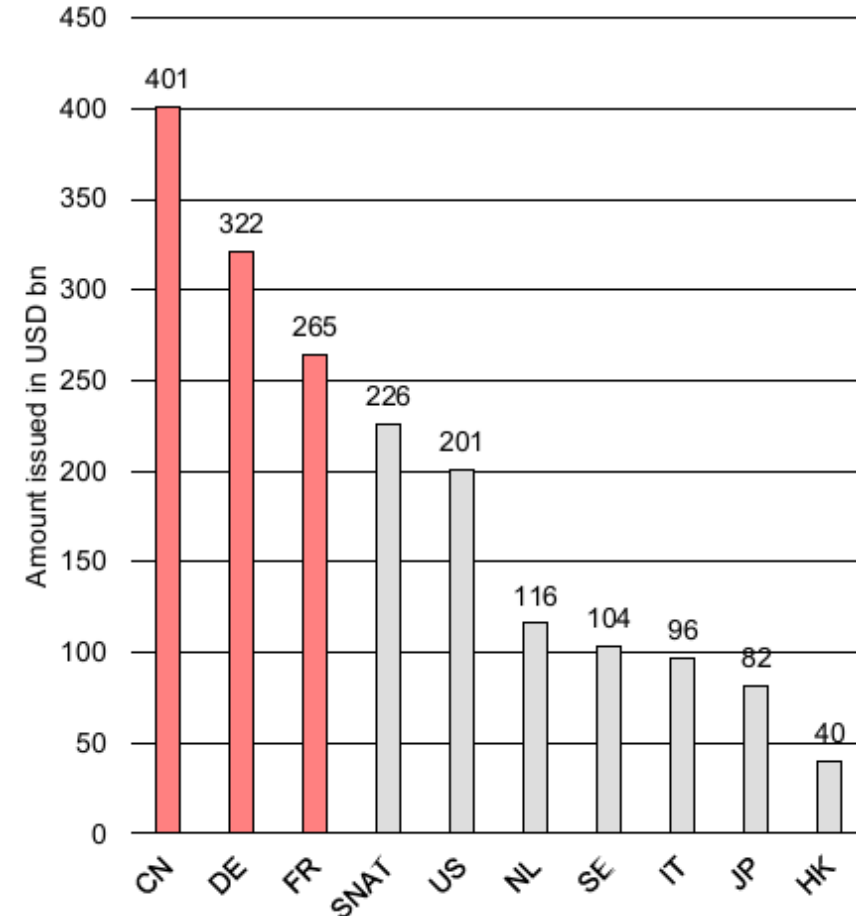


FOCUS ON GREEN BOND SUPPLY: GERMANY LEADS EUROPEAN ISSUANCE

Geographic distribution in 2024

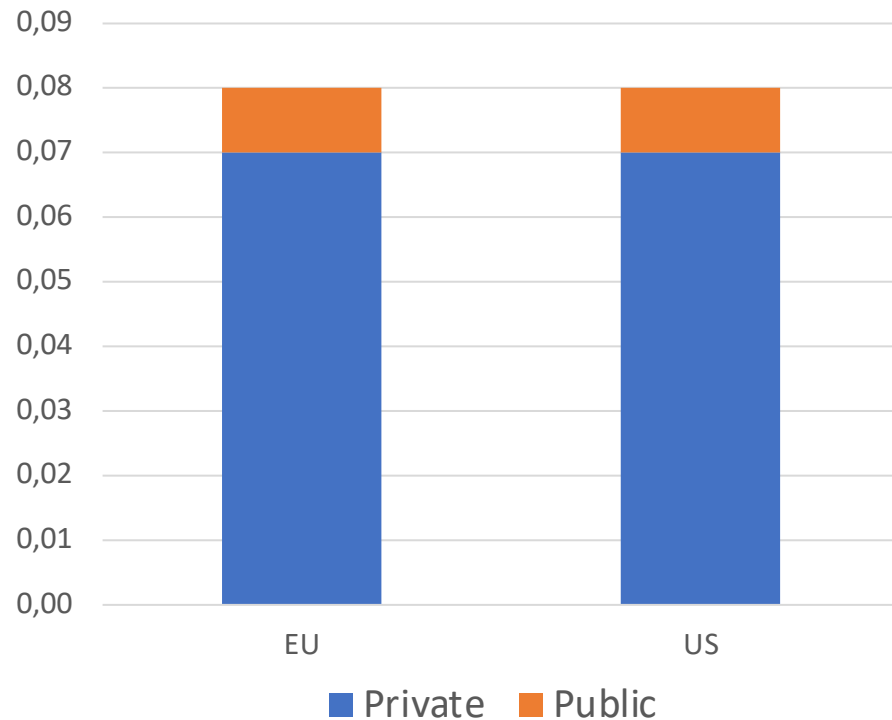


Geographic distribution overall

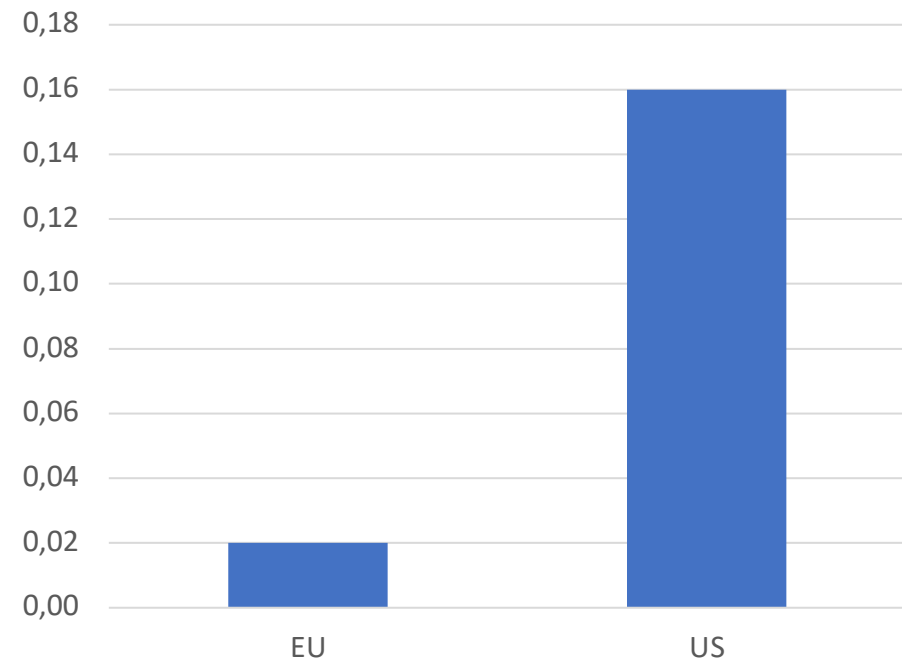


INVESTMENTS IN ARTIFICIAL INTELLIGENCE IS DRIVEN BY PRIVATE SECTOR WITH US ACCELERATING

AI investments
(% of GDP, 2020)

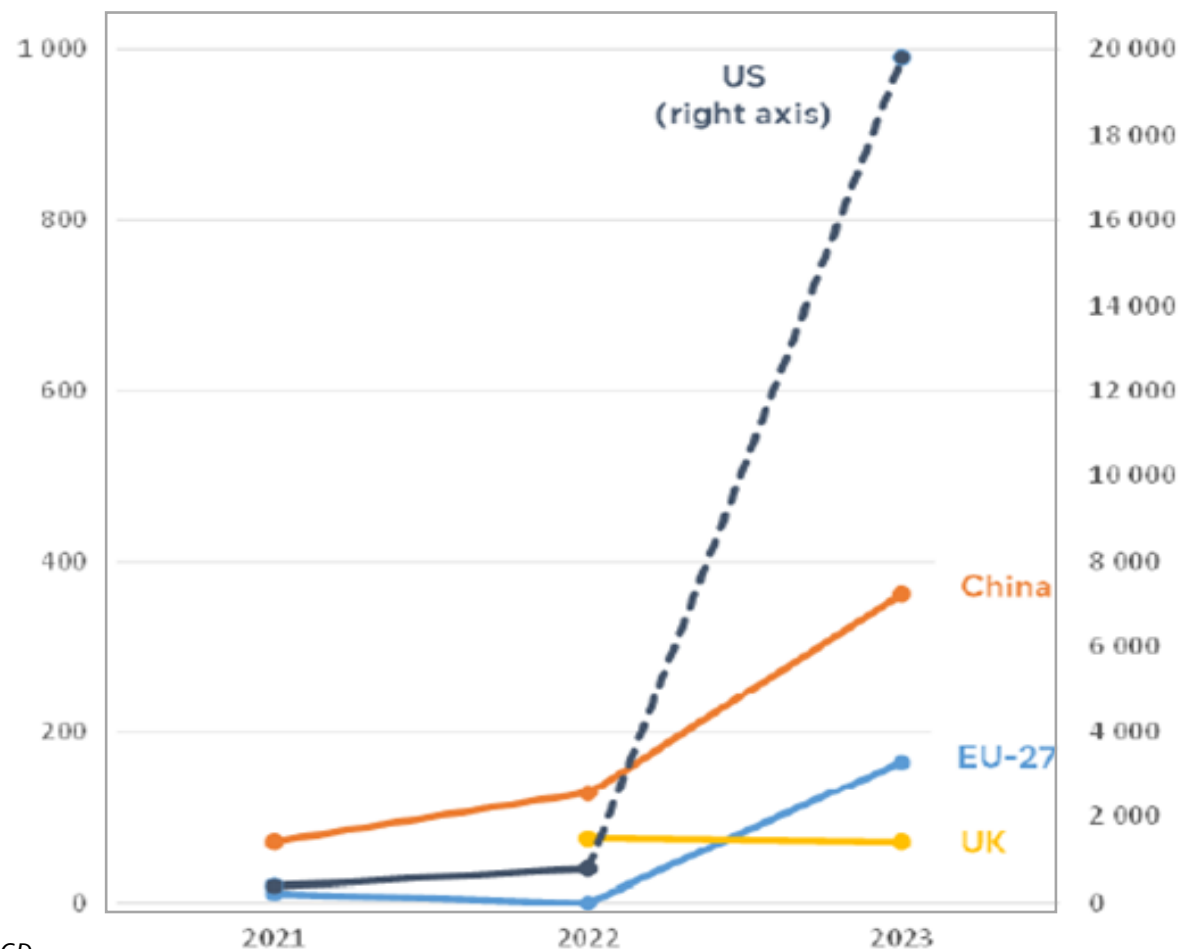


Private investments in AI
(% of GDP, 2022)



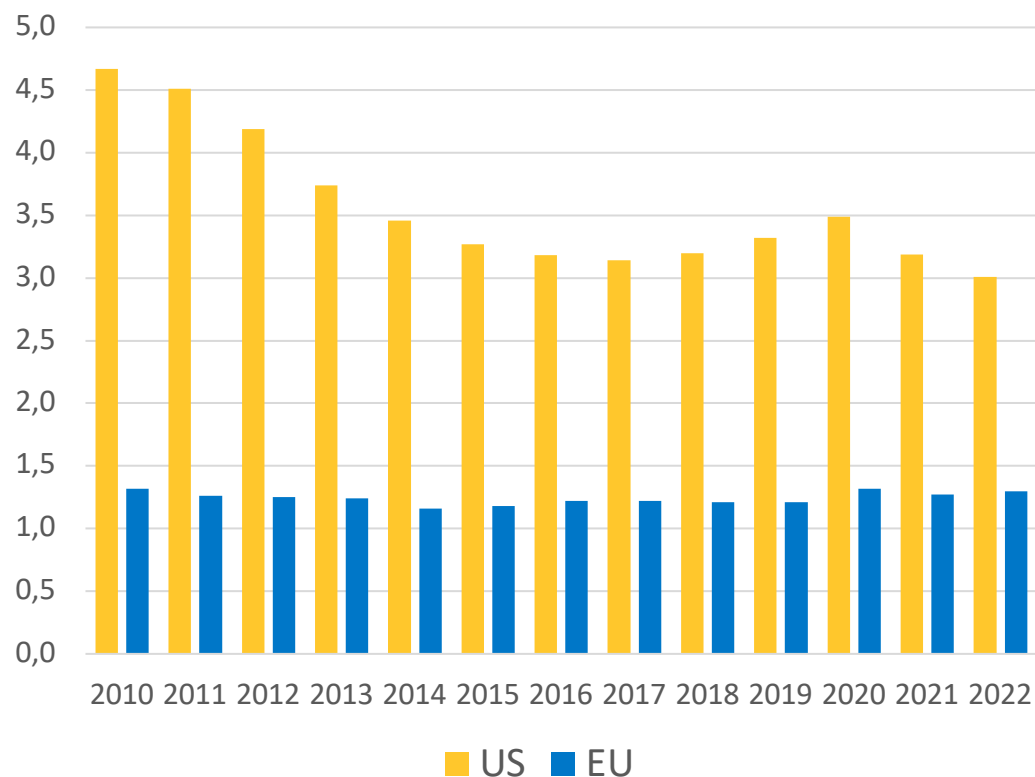
KEY ROLE PLAYED BY VENTURE CAPITAL INVESTMENTS: GREAT GAP FOR EUROPE VS MAJOR ECONOMIES

Venture capital investments in generative AI
(Euro billion)



DEFENSE IS ANOTHER IMPORTANT CHAPTER OF INVESTMENT IN WHICH EUROPE LAGS BEHIND COMPETITORS

Government expenditure - defence
(% GDP)



Total defence expenditure
(% GDP)

