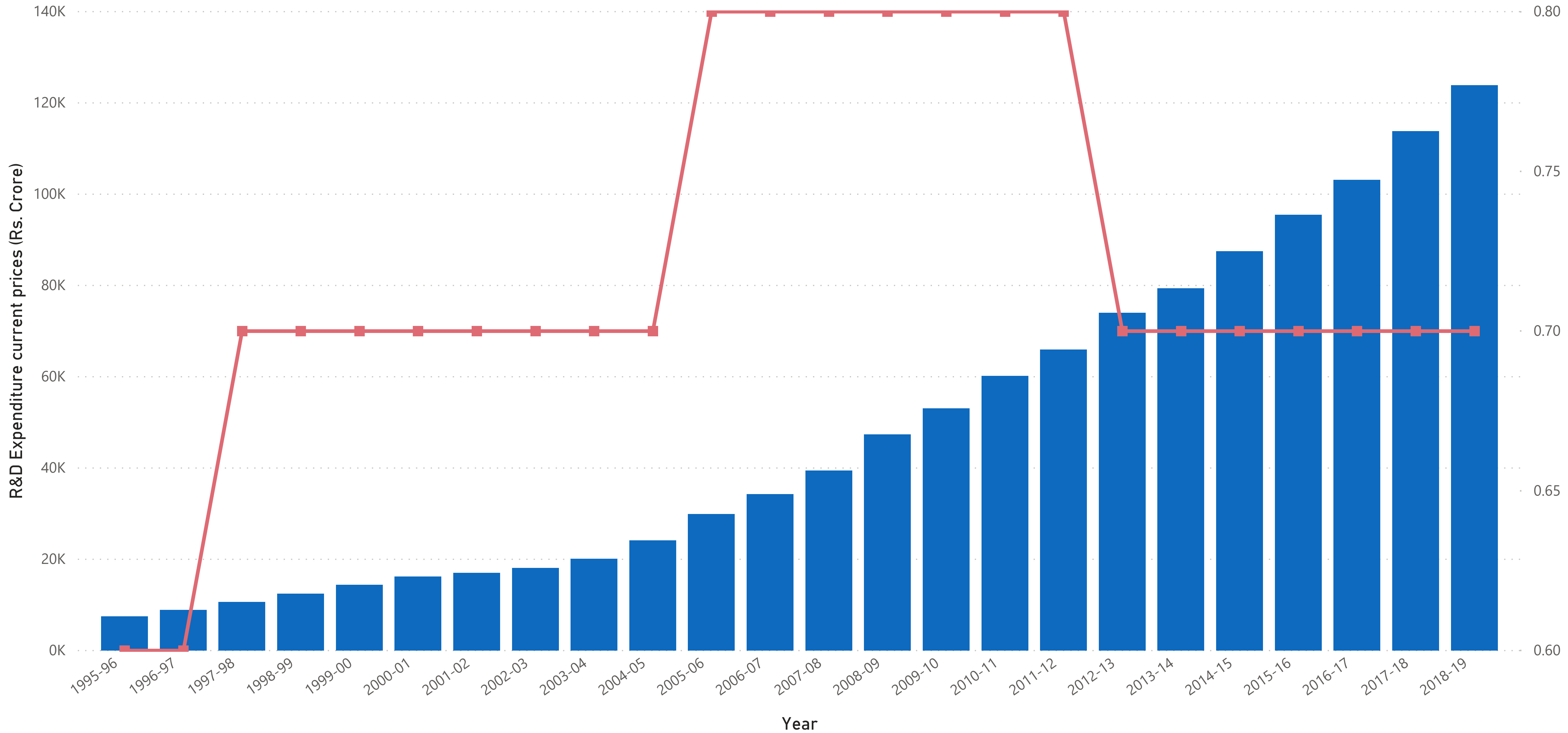


NATIONAL R&D EXPENDITURE AND ITS PERCENTAGE WITH GDP

R&D Expenditure current prices (Rs. Crore) and R&D % of GDP by Year

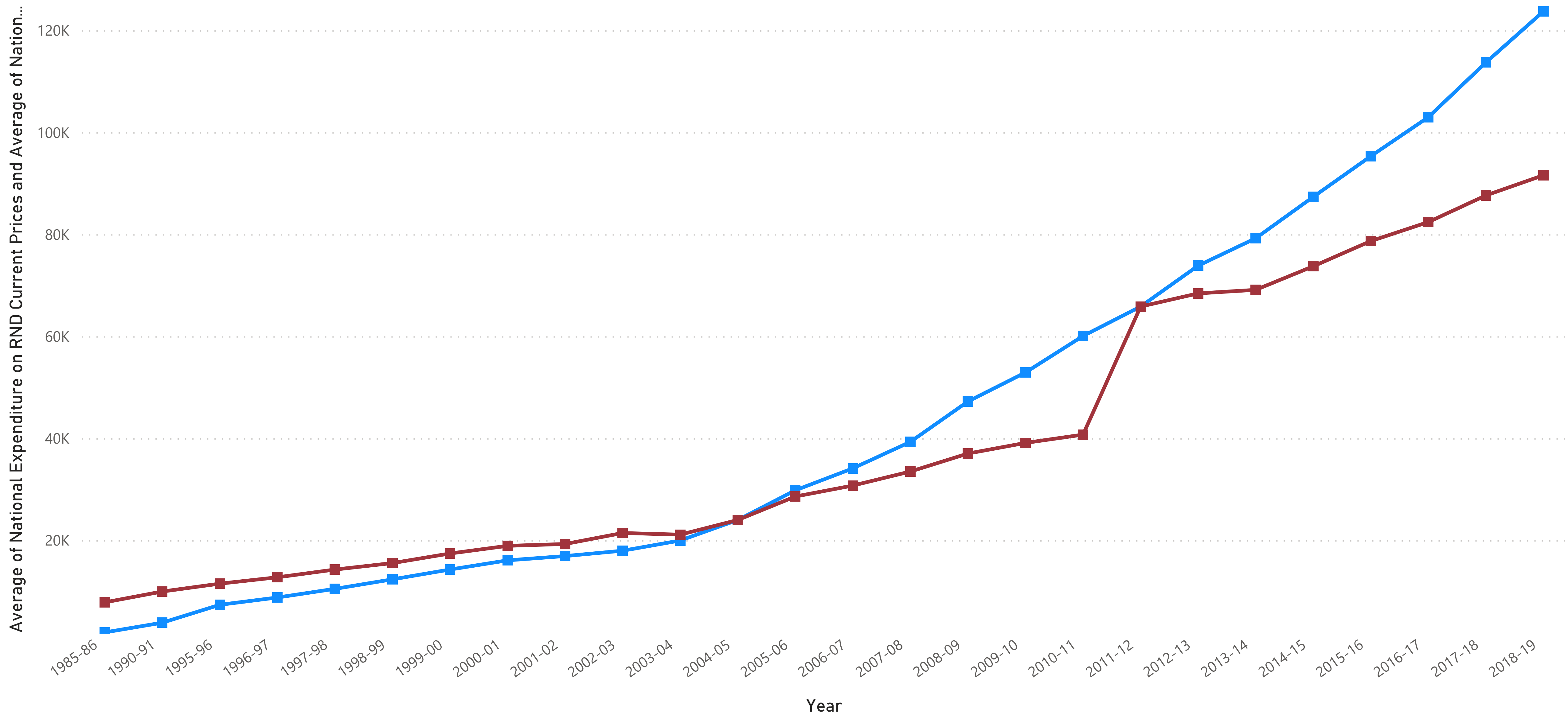
● R&D Expenditure current prices (Rs. Crore) ■ R&D % of GDP



R&D EXPENDITURE AT CURRENT PRICES AND CONSTANT PRICES

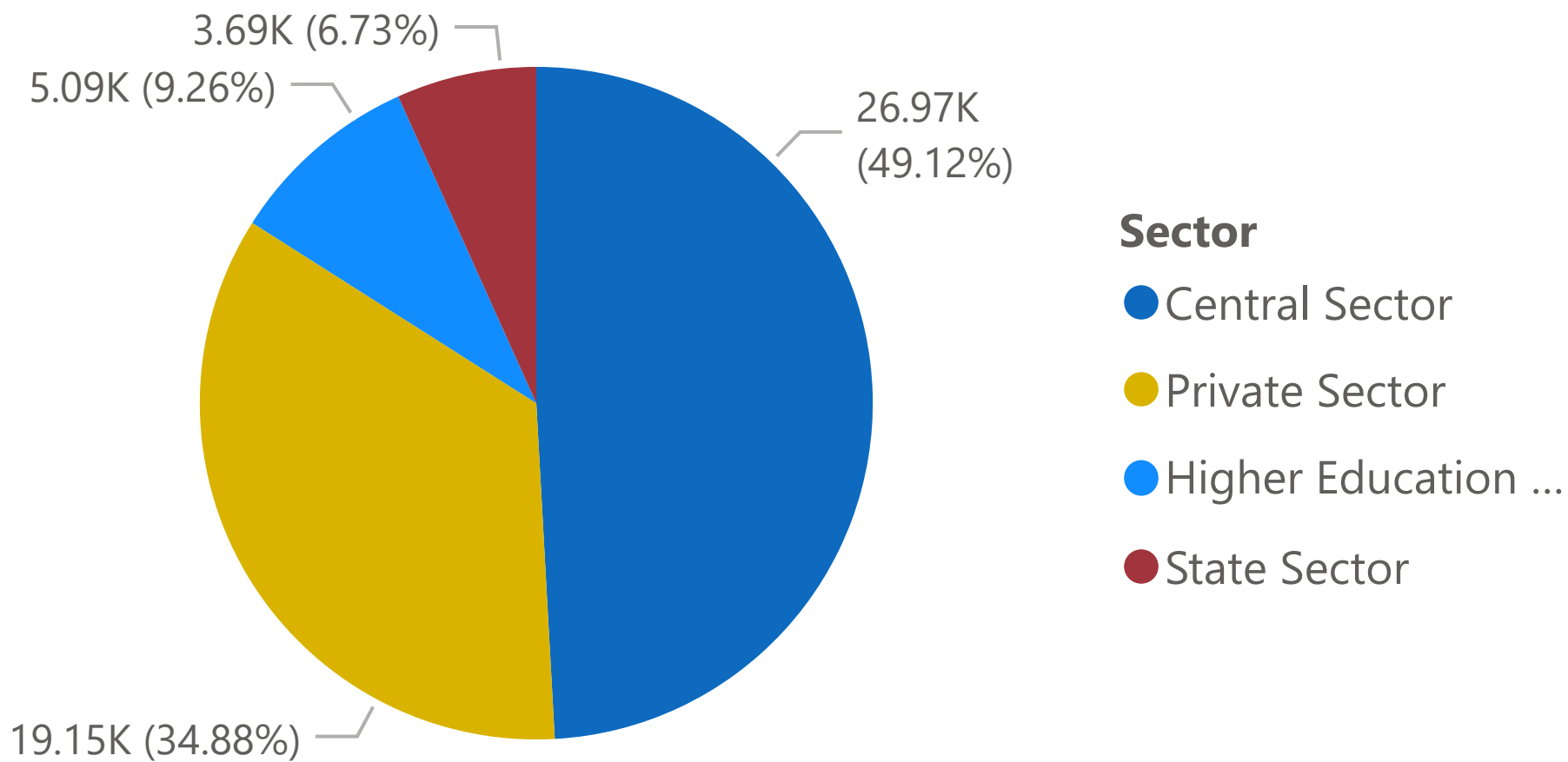
Average of National Expenditure on RND Current Prices and Average of National Expenditure on RND Constant Prices by Year

■ Average of National Expenditure on RND Current Prices ■ Average of National Expenditure on RND Constant Prices



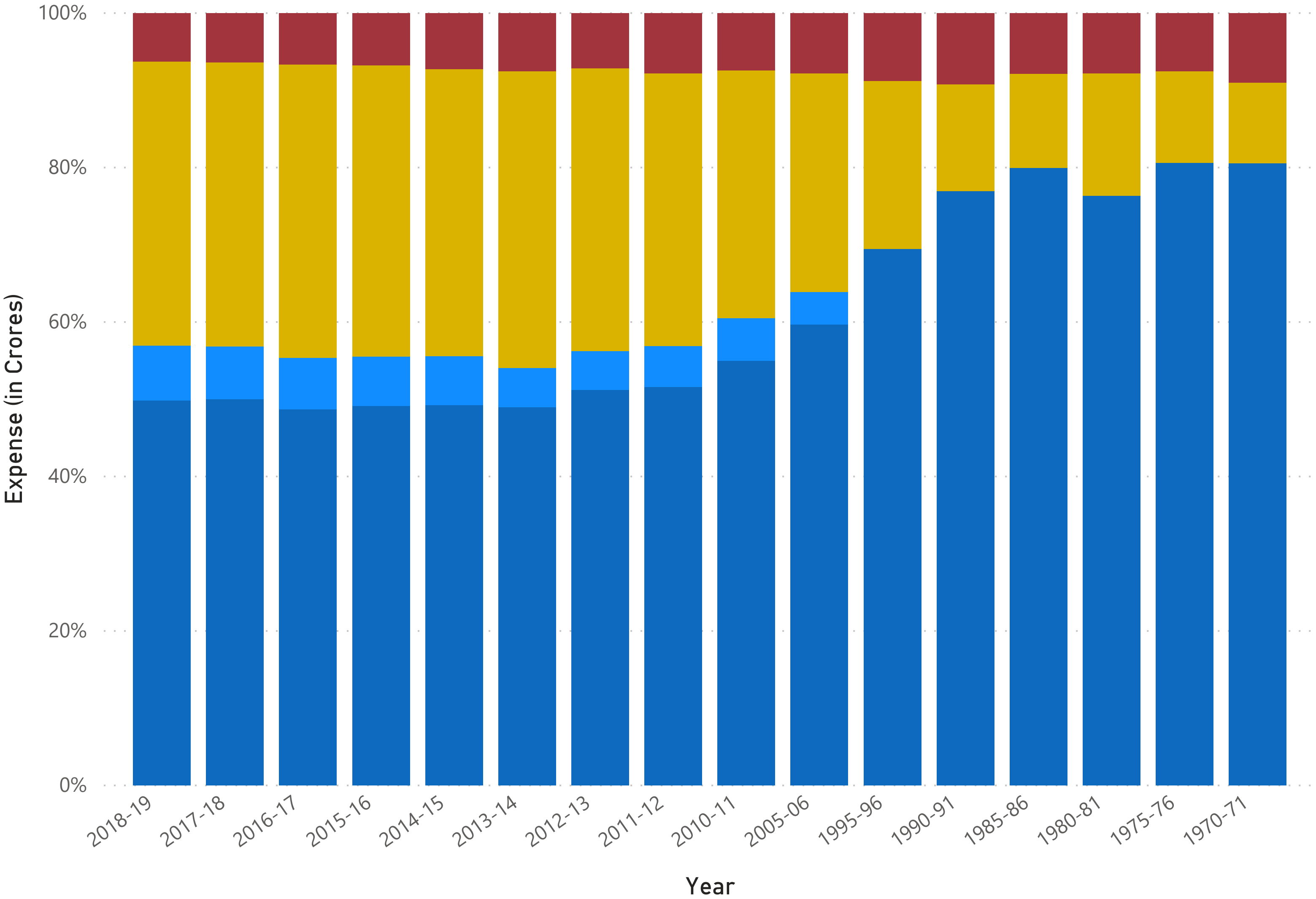
NATIONAL R&D EXPENDITURE BY SECTOR , 2017-18

Average of Expense (in Crores) by Sector



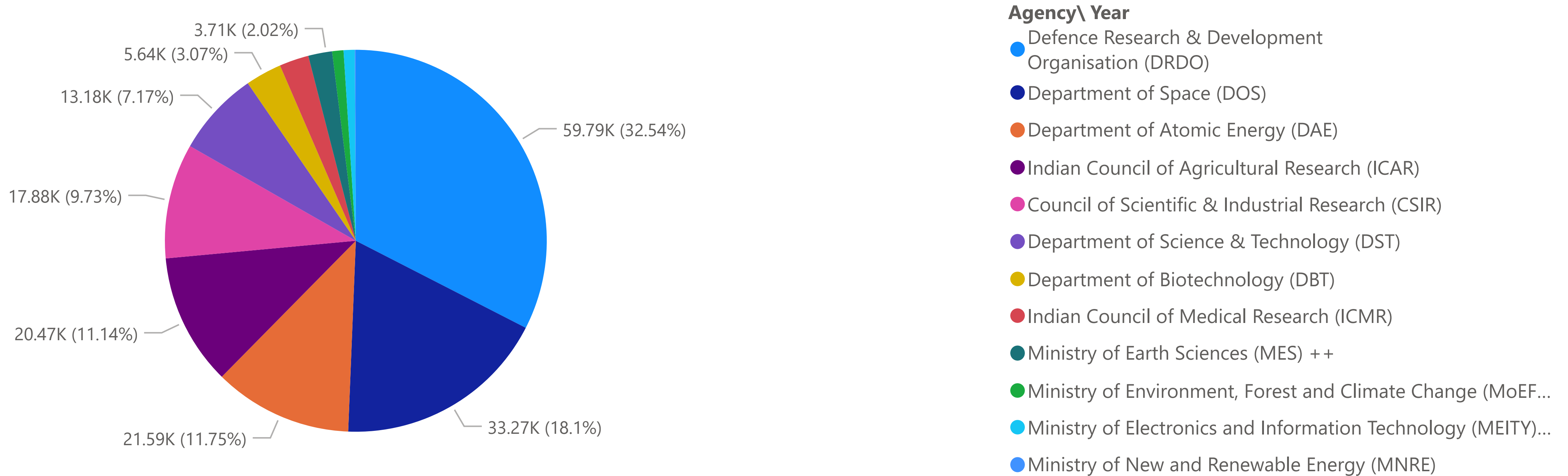
Expense (in Crores) by Year and Sector

Sector ● Central Sector ● Higher Education Sector ● Private Sector ● State Sector

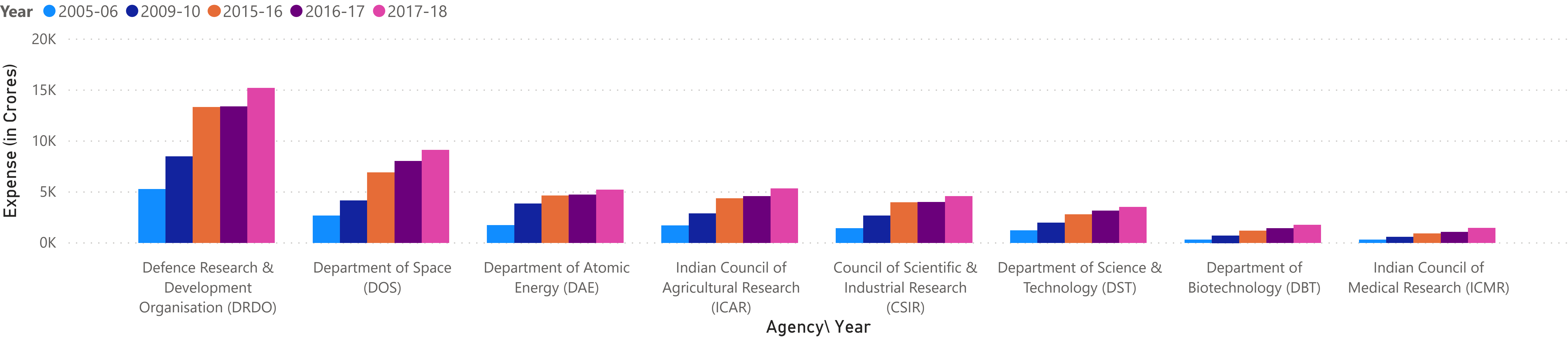


R&D EXPENDITURE BY SELECT SCIENTIFIC AGENCIES

Expense (in Crores) by Agency\ Year



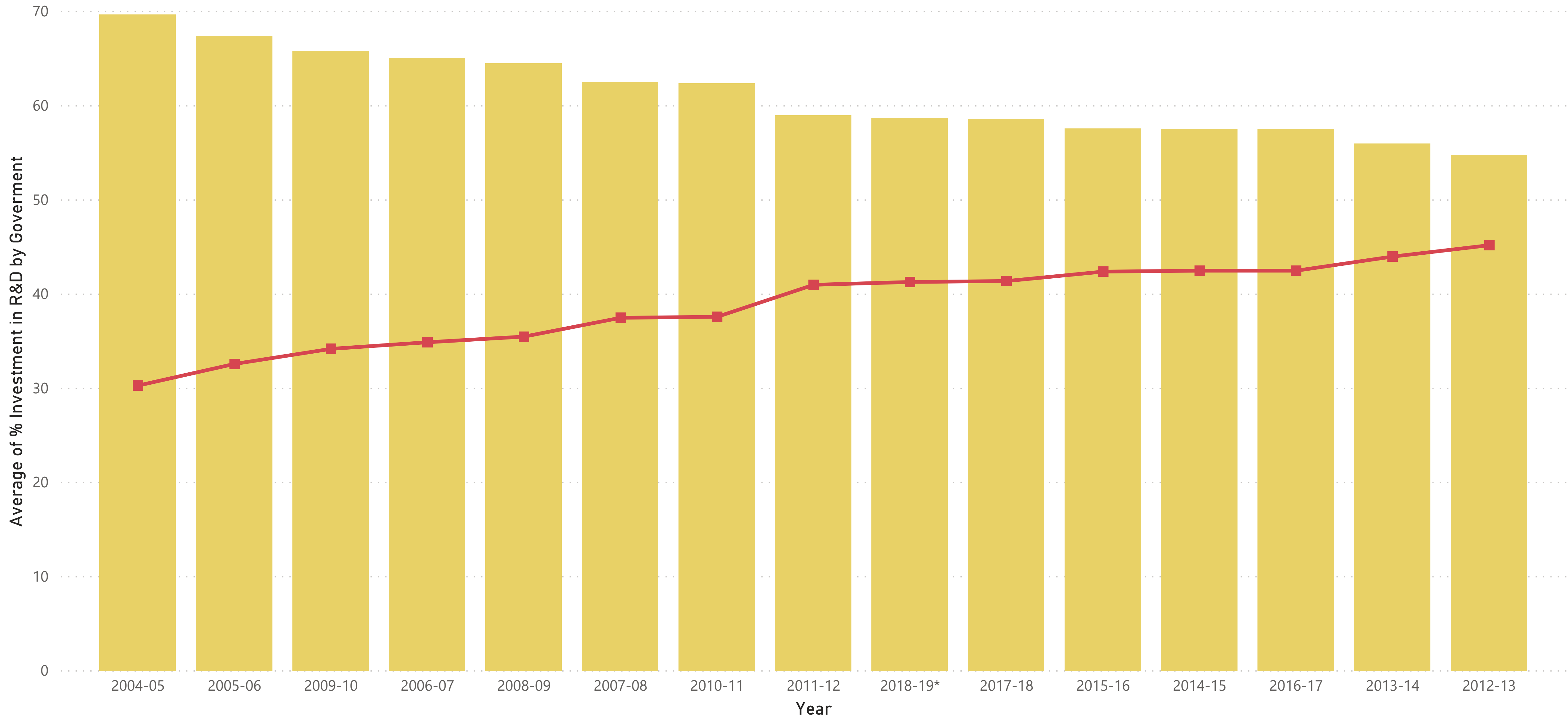
Expense (in Crores) by Agency\ Year and Year



PERCENTAGE SHARE OF GOVERNMENT AND BUSINESS ENTERPRISE SECTOR IN GERD

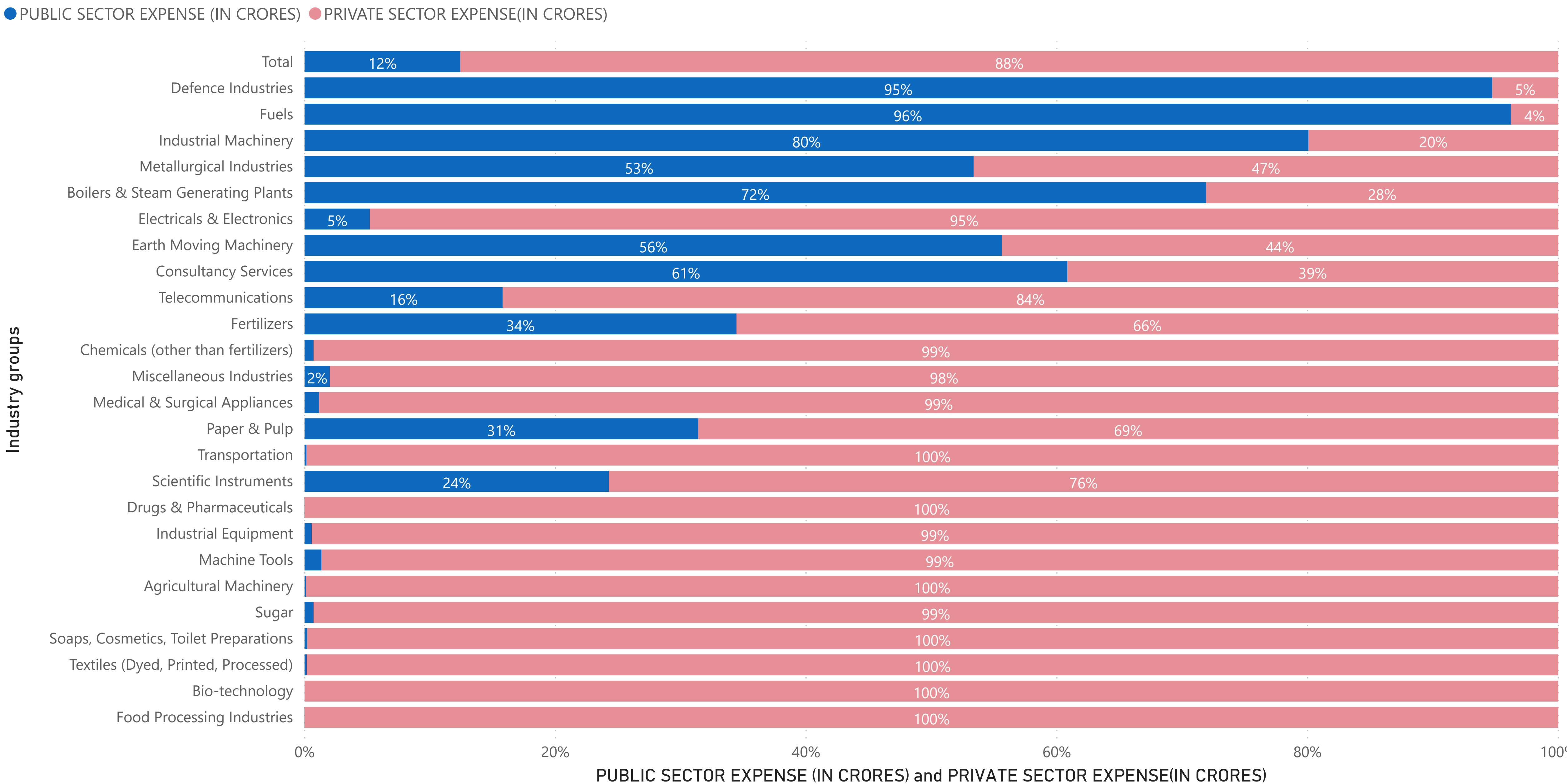
Average of % Investment in R&D by Government and Average of % Investment in R&D by Business enterprise by Year

● Average of % Investment in R&D by Government ■ Average of % Investment in R&D by Business enterprise



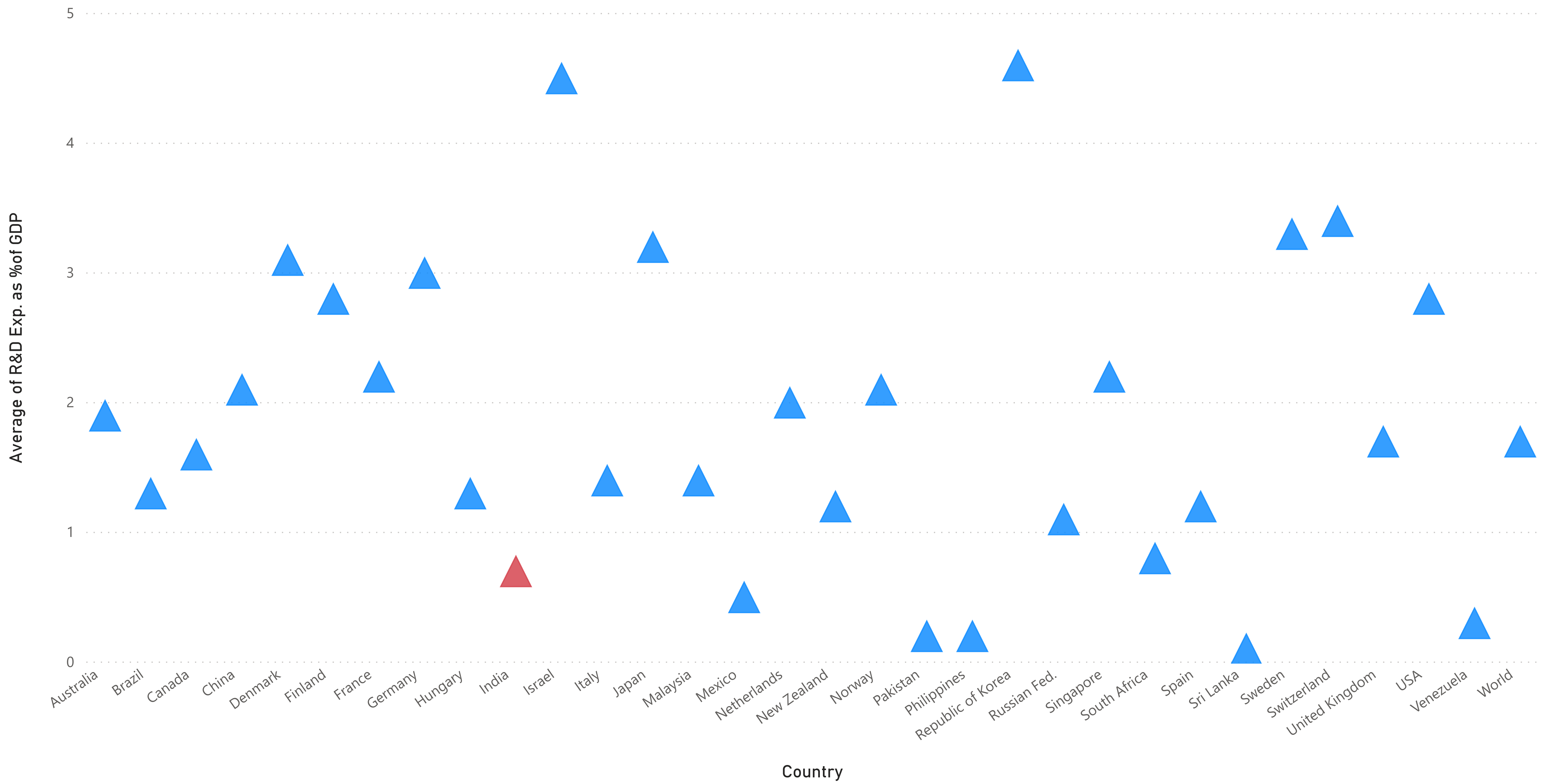
R&D EXPENDITURE BY LEADING INDUSTRIES GROUPS, 2017-18

PUBLIC SECTOR EXPENSE (IN CRORES) and PRIVATE SECTOR EXPENSE(IN CRORES) by Industry groups



R&D EXPENDITURE AS % OF GDP FOR SELECTED COUNTRIES, 2017

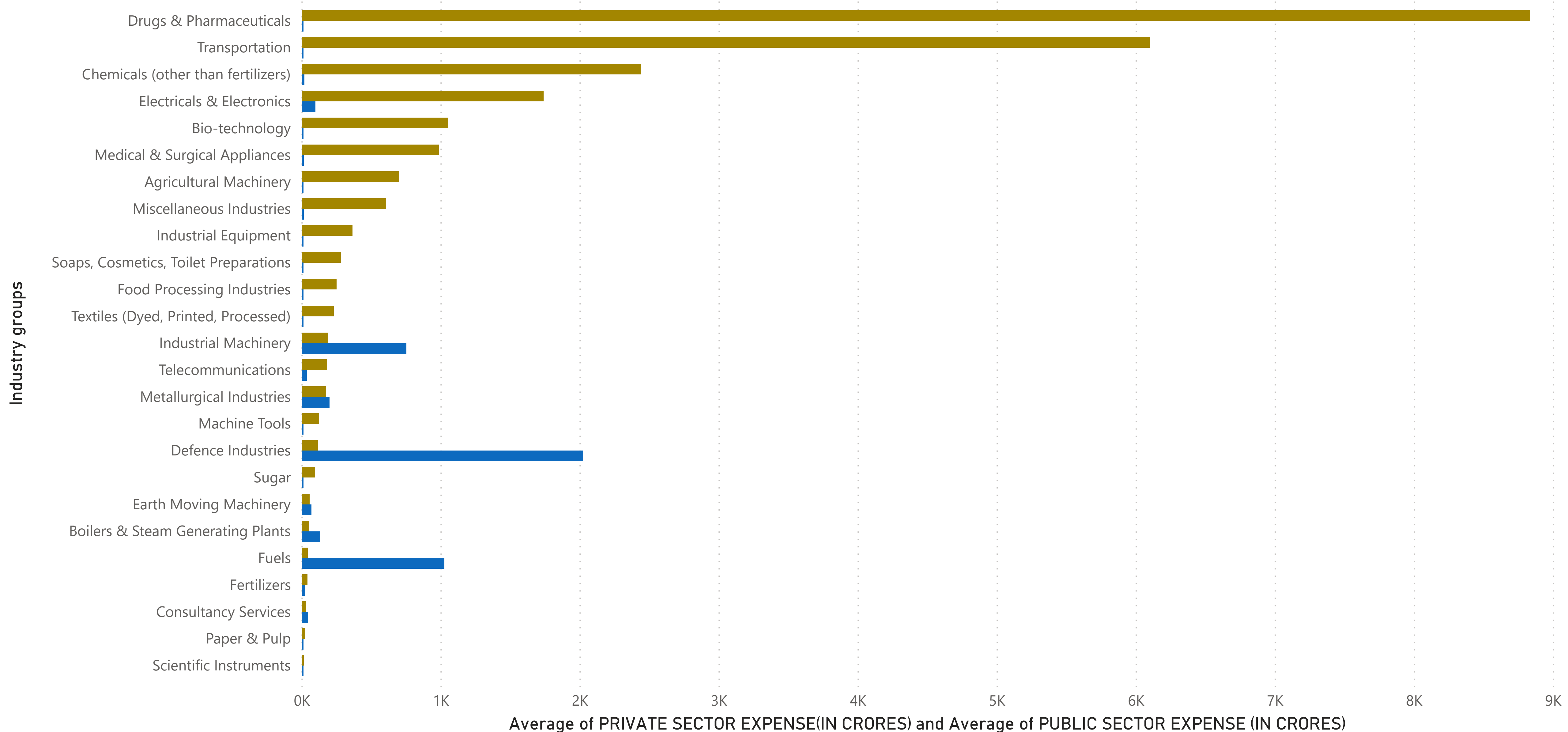
Average of R&D Exp. as %of GDP by Country



R&D EXPENDITURE BY LEADING INDUSTRIES GROUPS, 2017-18

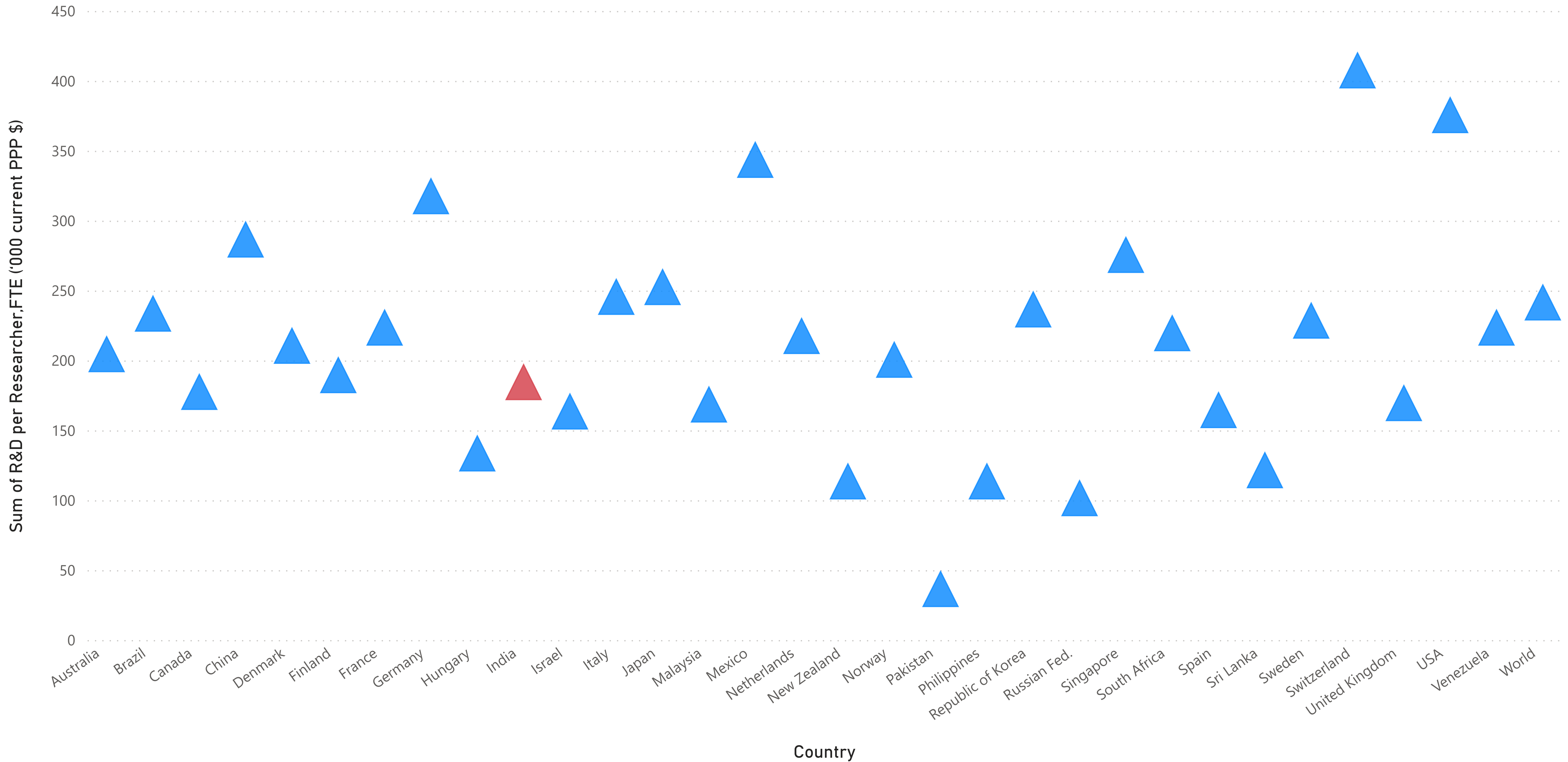
Average of PRIVATE SECTOR EXPENSE(IN CRORES) and Average of PUBLIC SECTOR EXPENSE (IN CRORES) by Industry groups

● Average of PRIVATE SECTOR EXPENSE(IN CRORES) ● Average of PUBLIC SECTOR EXPENSE (IN CRORES)



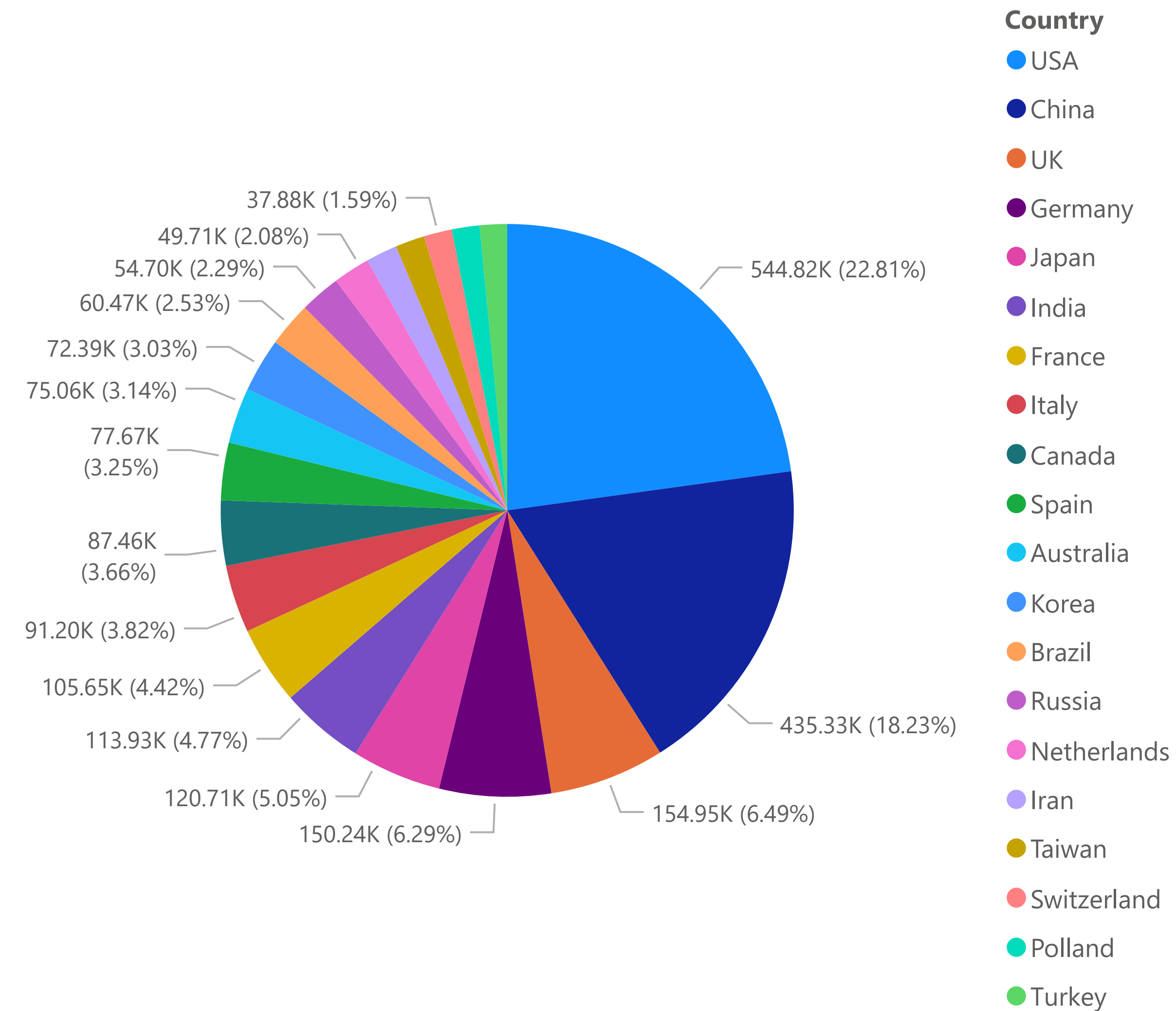
GERD PER RESEARCHER FOR SELECTED COUNTRIES, 2017

Sum of R&D per Researcher,FTE ('000 current PPP \$) by Country



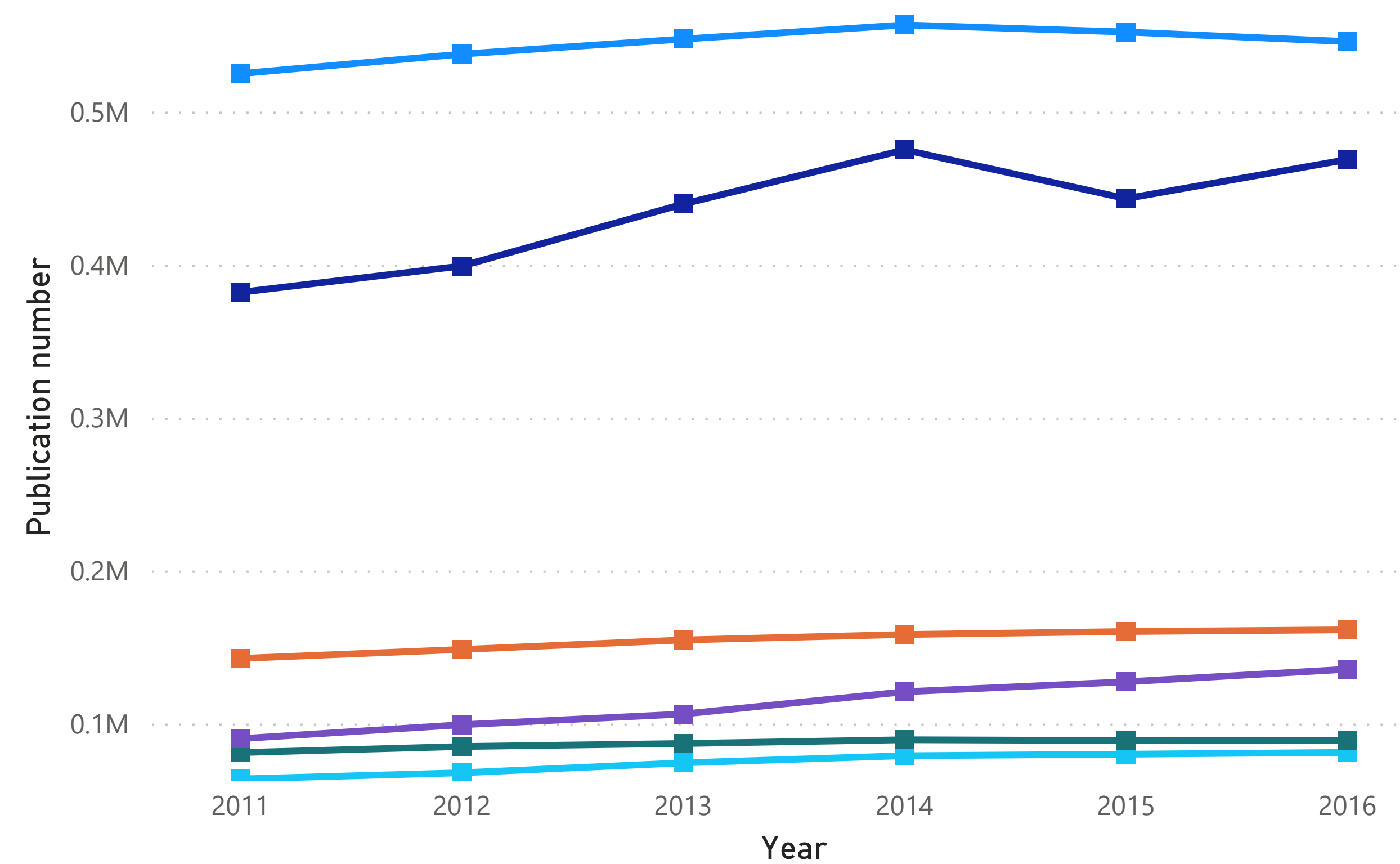
INDIA'S RESEARCH PUBLICATION TREND, 2000-2016

Average of Publication number by Country



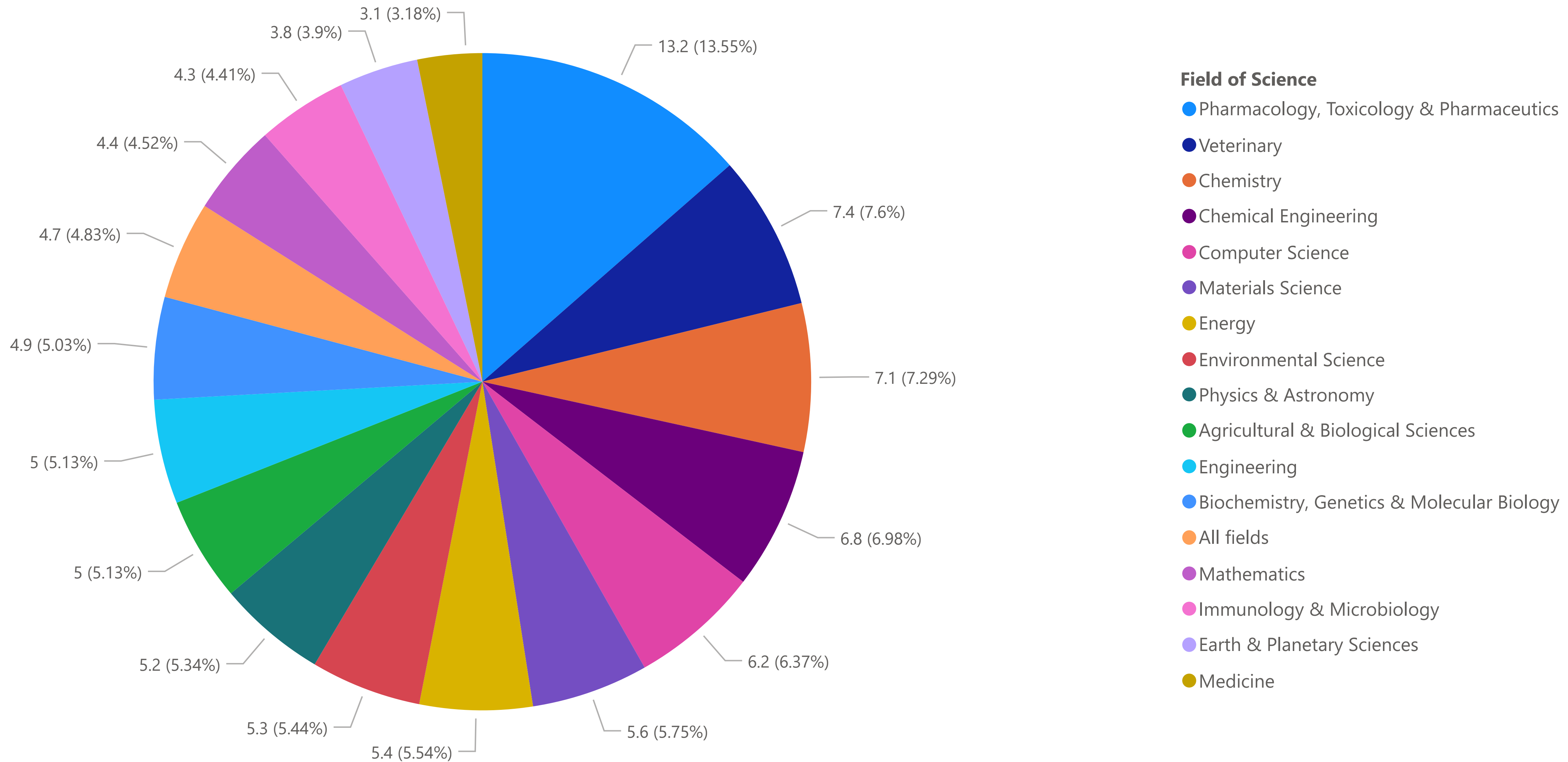
Publication number by Year and Country

Country Australia Canada China India UK USA



INDIA'S OUTPUT, IMPACT AND KNOWLEDGE TRANSFER, 2011-16

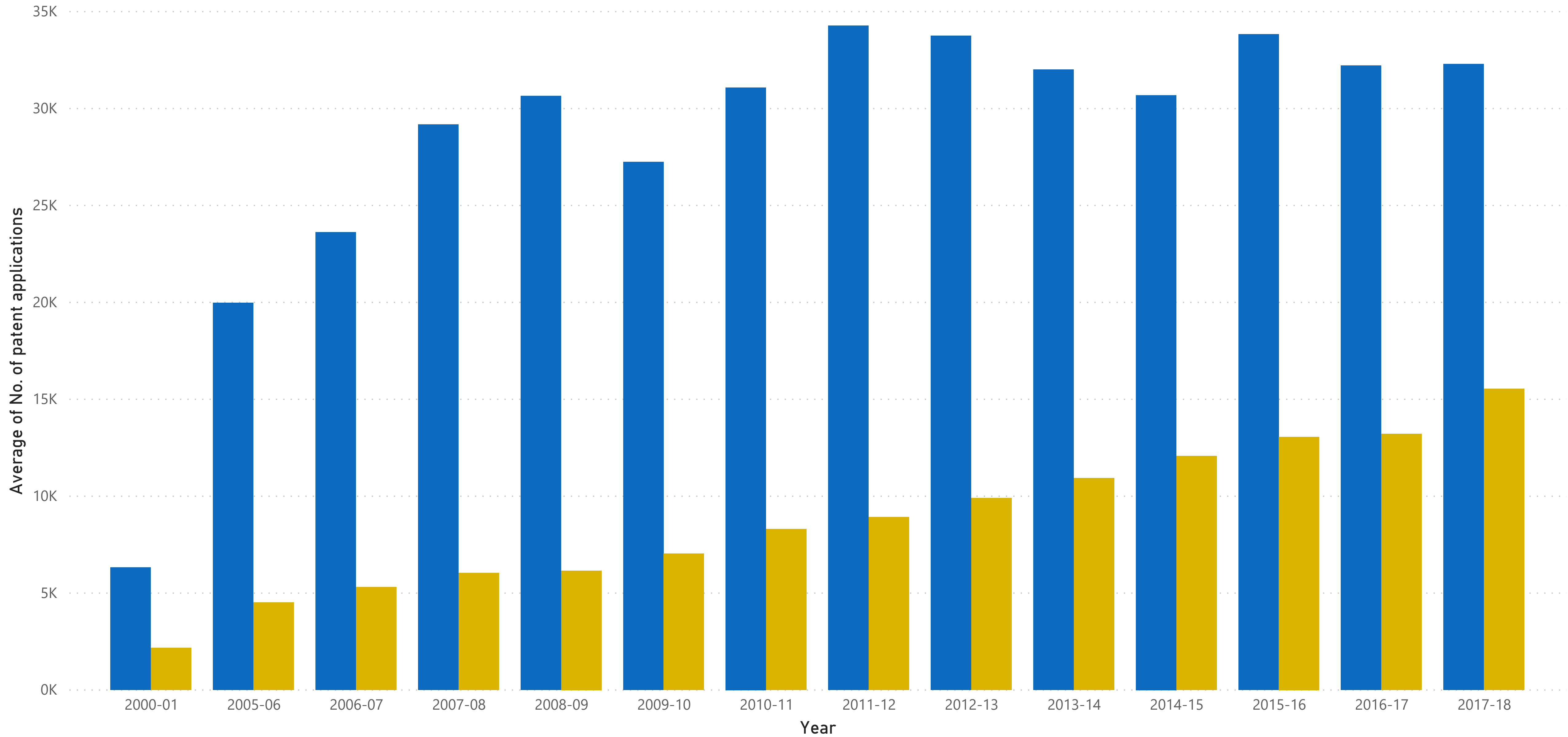
Average of % Share in World Output by Field of Science



NUMBER OF PATENTS SEALED IN INDIA

Average of No. of patent applications by Year and Country

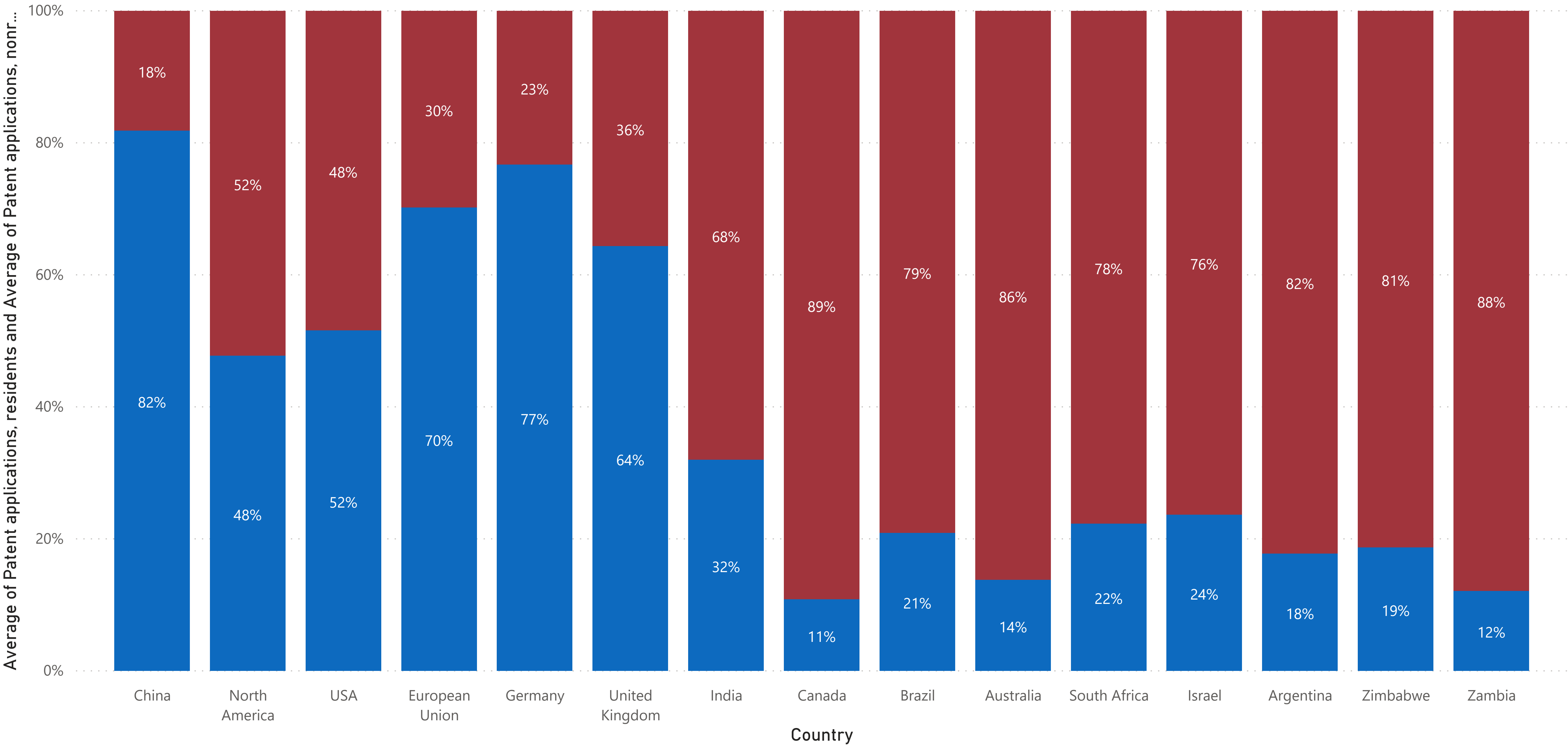
Country ● Foreigners Resident abroad ● India



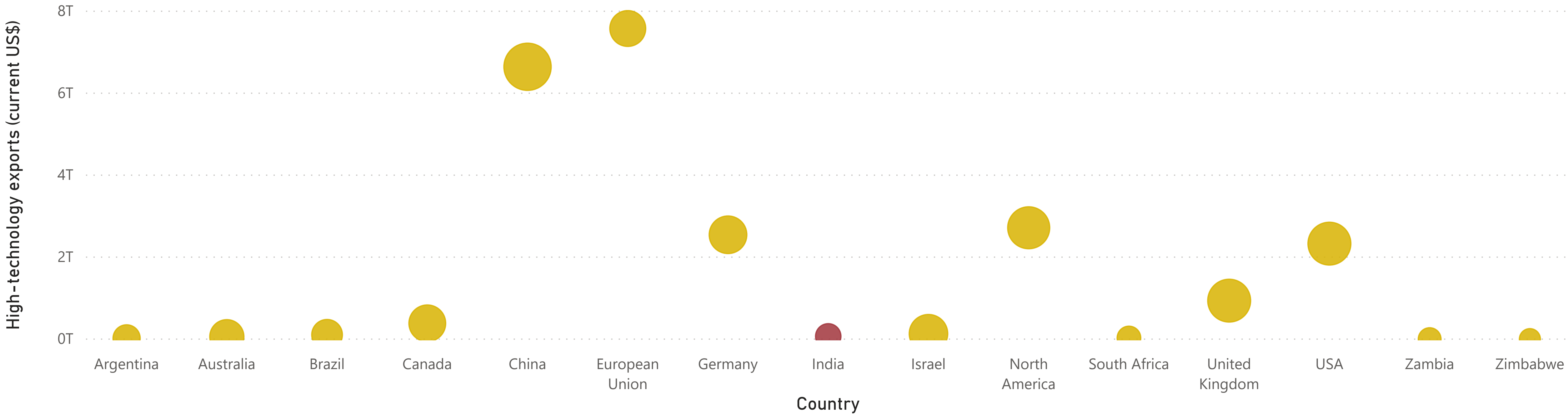
PATENT APPLICATIONS FILED BY RESIDENT AND NON-RESIDENT

Average of Patent applications, residents and Average of Patent applications, nonresidents by Country

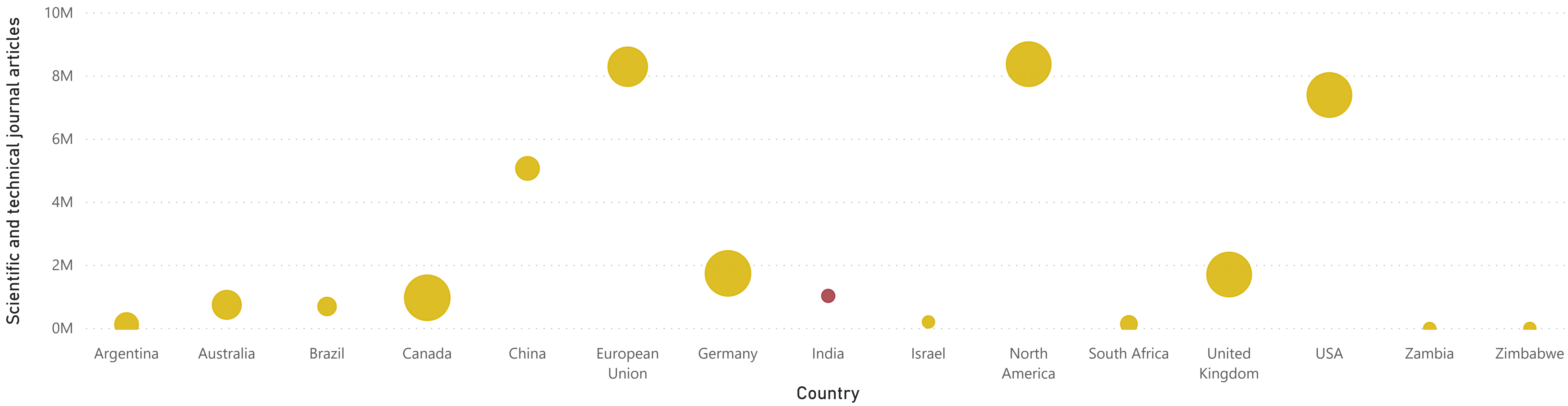
● Average of Patent applications, residents ● Average of Patent applications, nonresidents



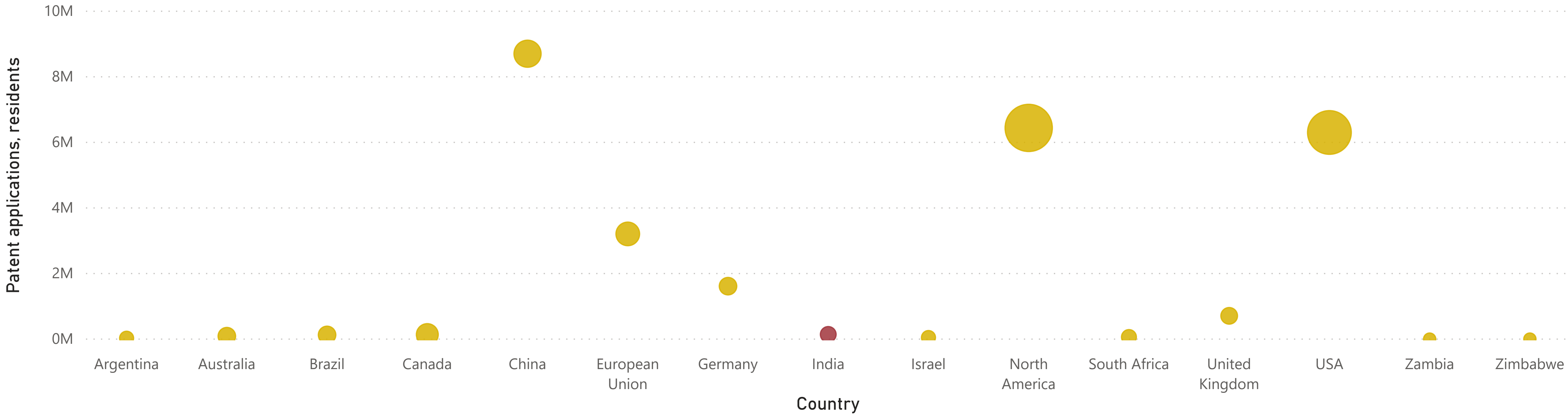
High-technology exports (current US\$) and High-technology exports (% of manufactured exports) by Country



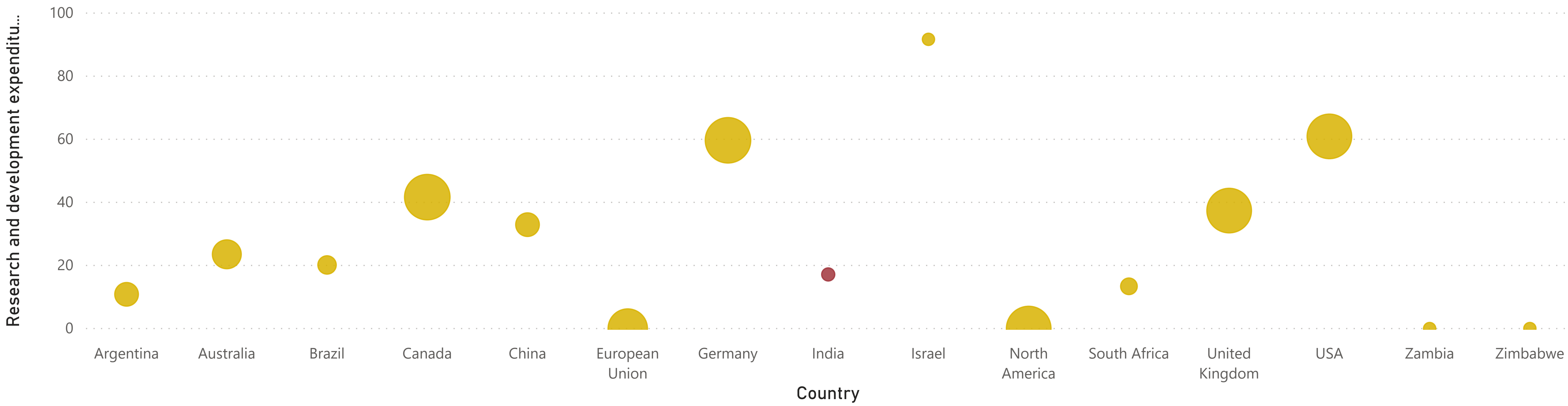
Scientific and technical journal articles and Researchers in R&D (per million people) by Country



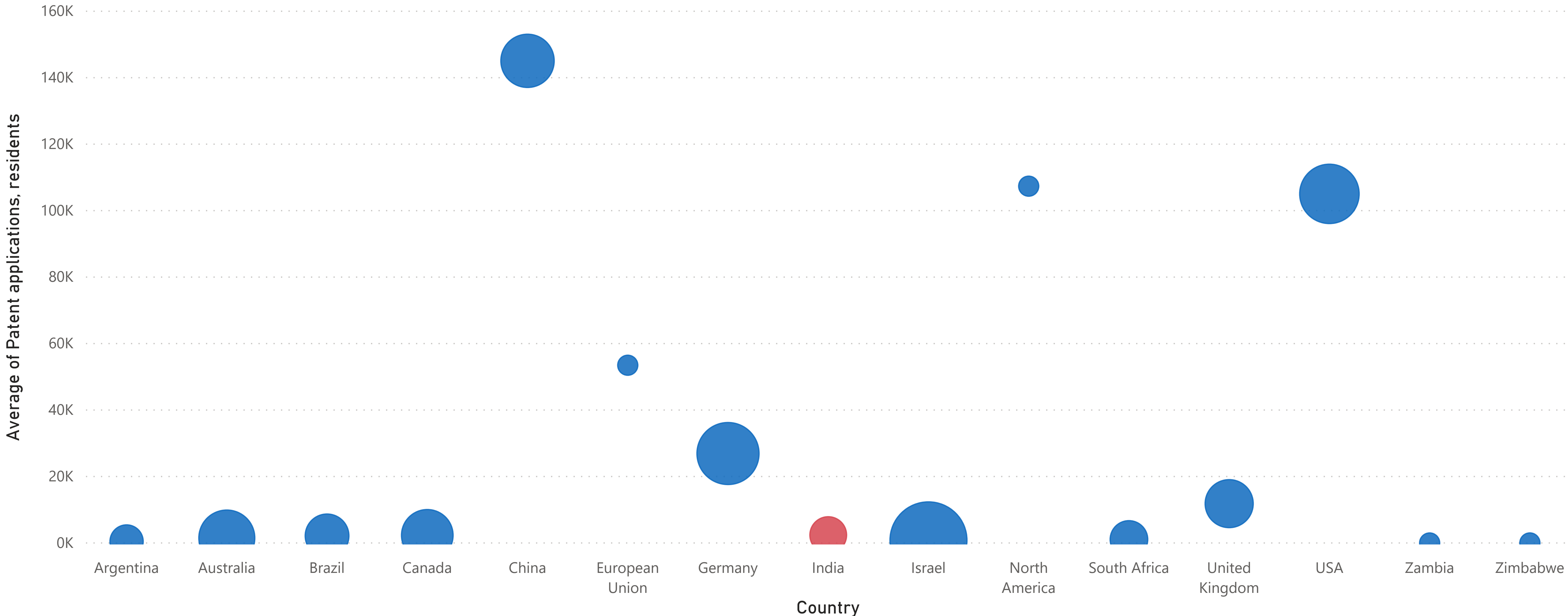
Patent applications, residents and Patent applications, nonresidents by Country



Research and development expenditure (% of GDP) and Researchers in R&D (per million people) by Country



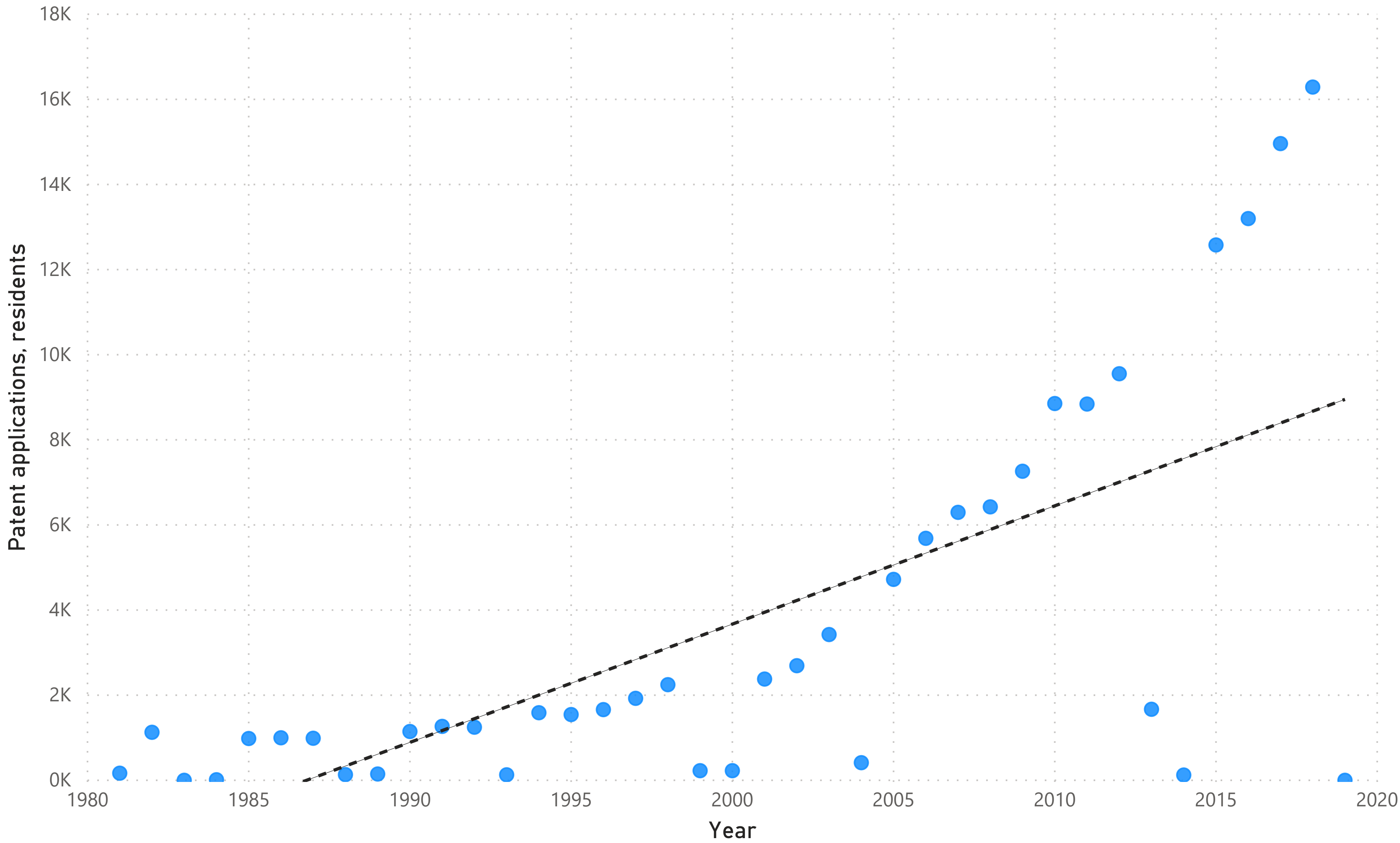
Average of Patent applications, residents and Max of Research and development expenditure (% of GDP) by Country



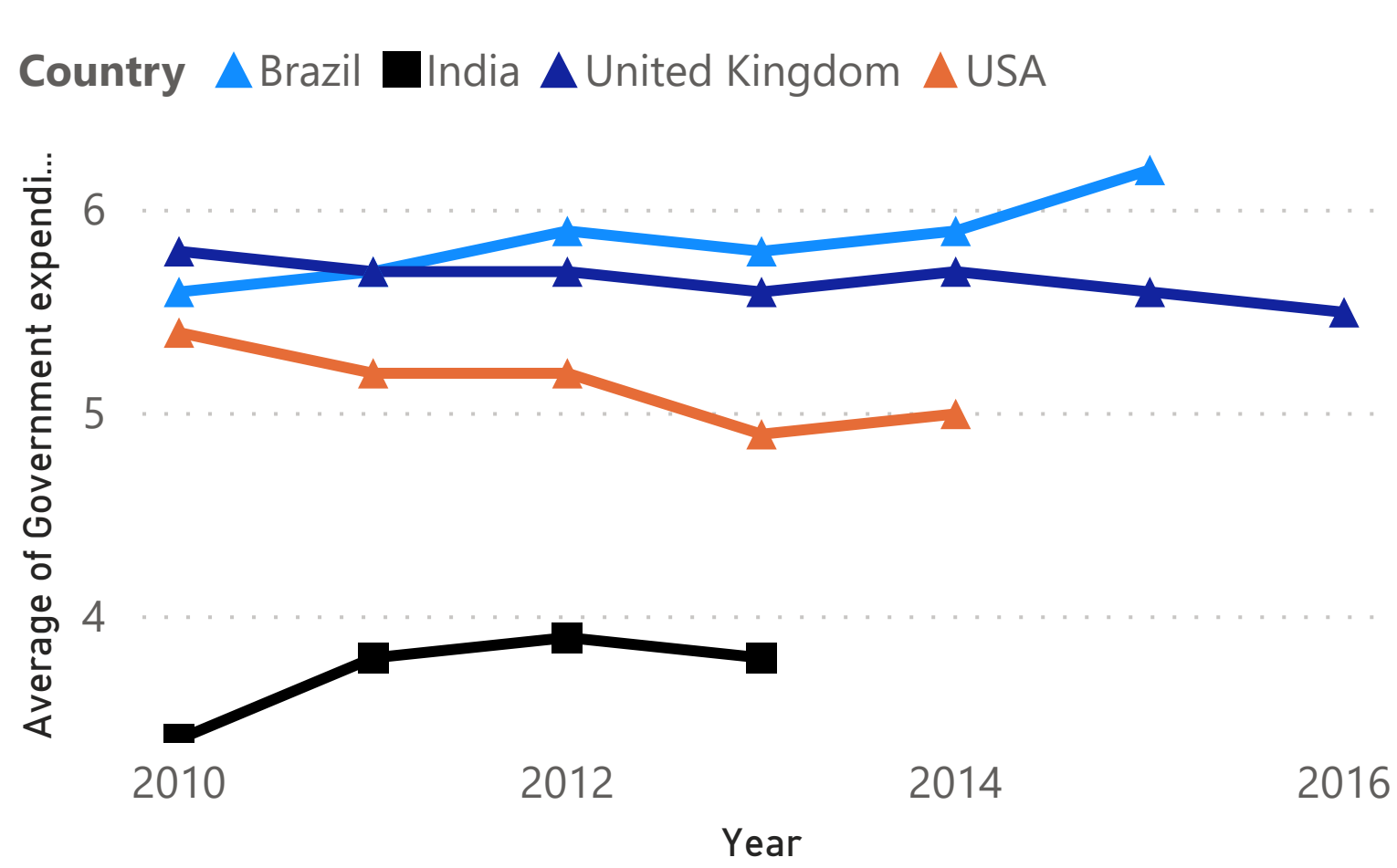
Patent applications, residents by Country and Year

Country

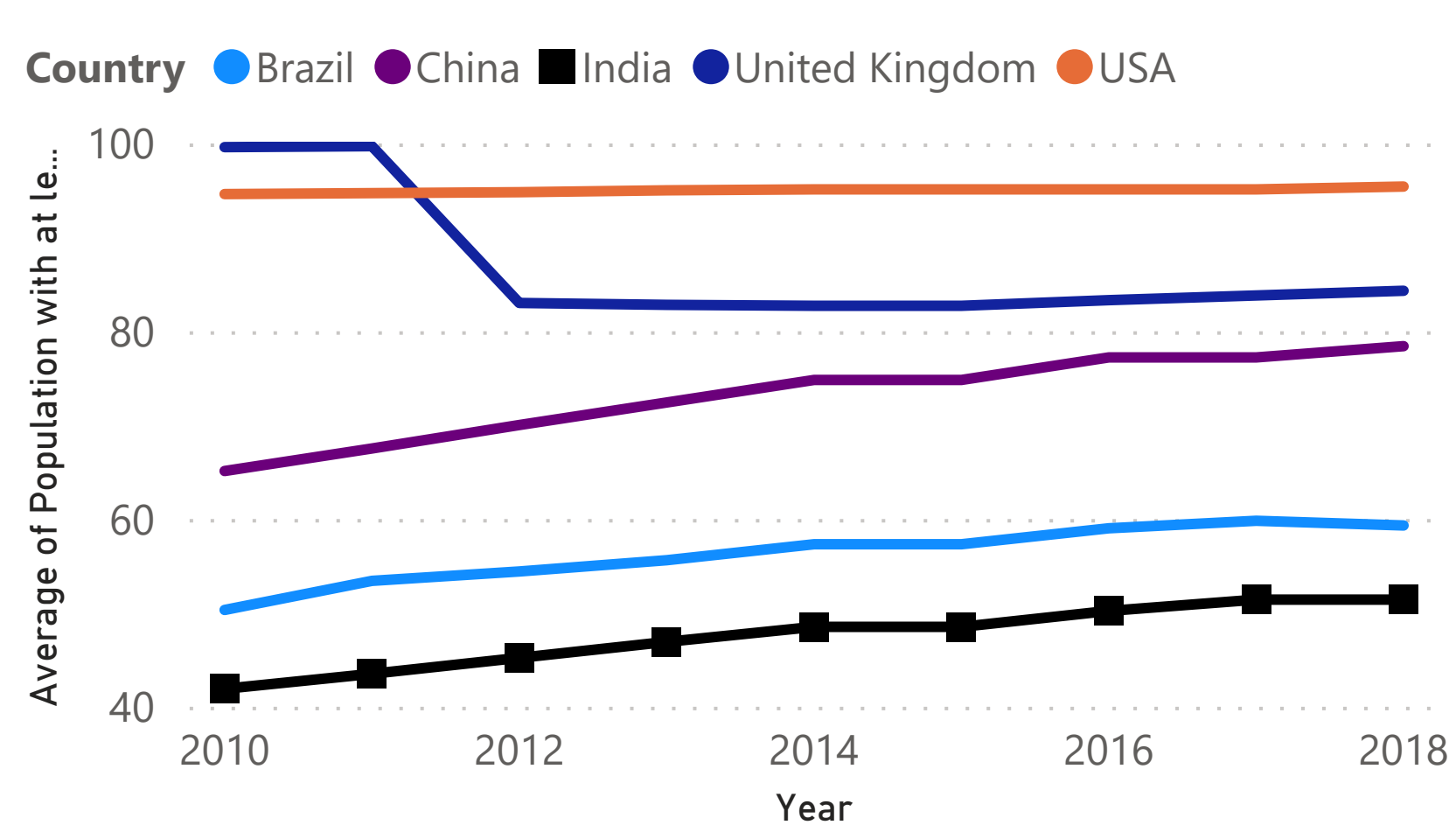
India



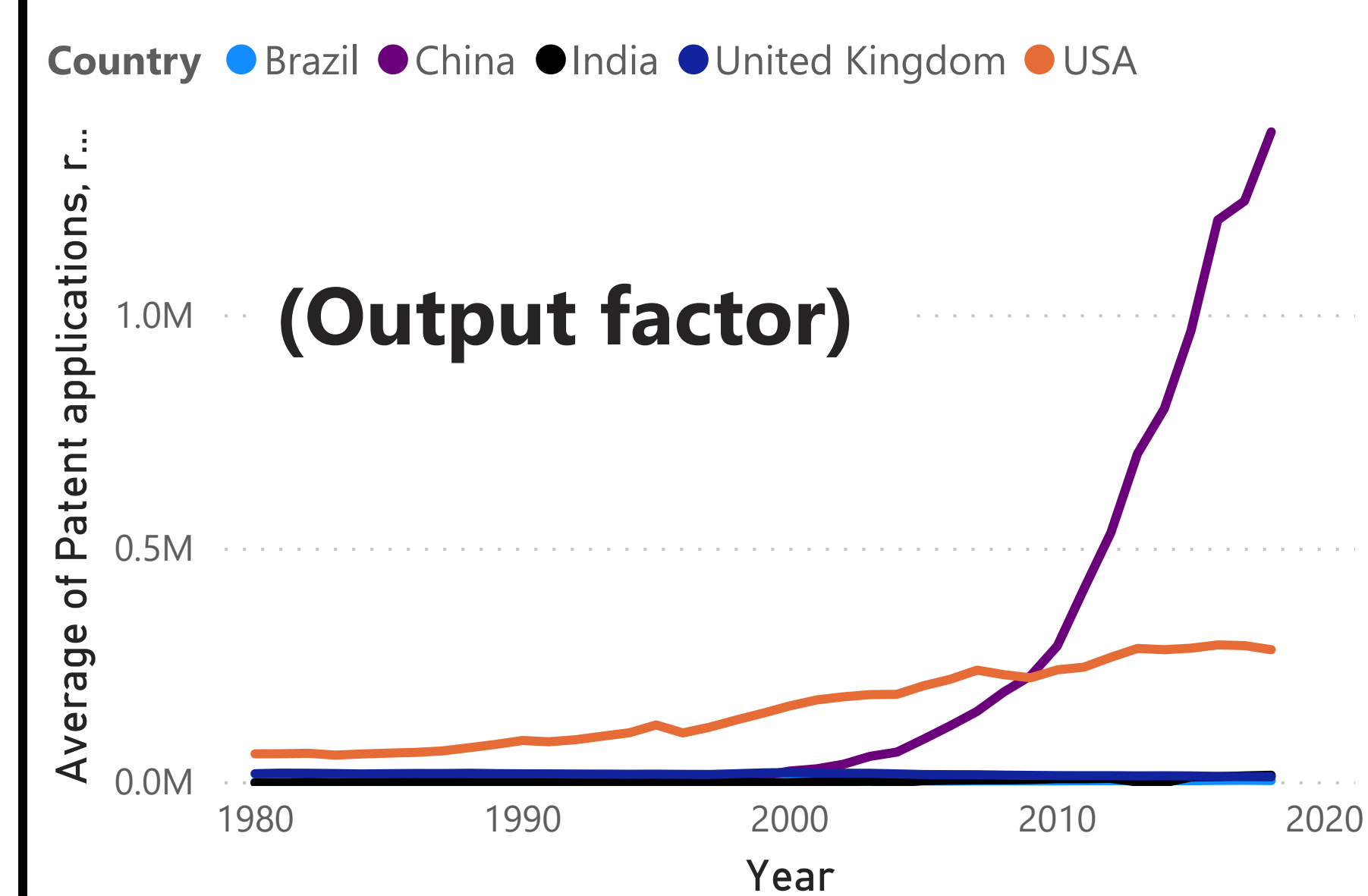
Average of Government expenditure on education (% of GDP) by Year and Country



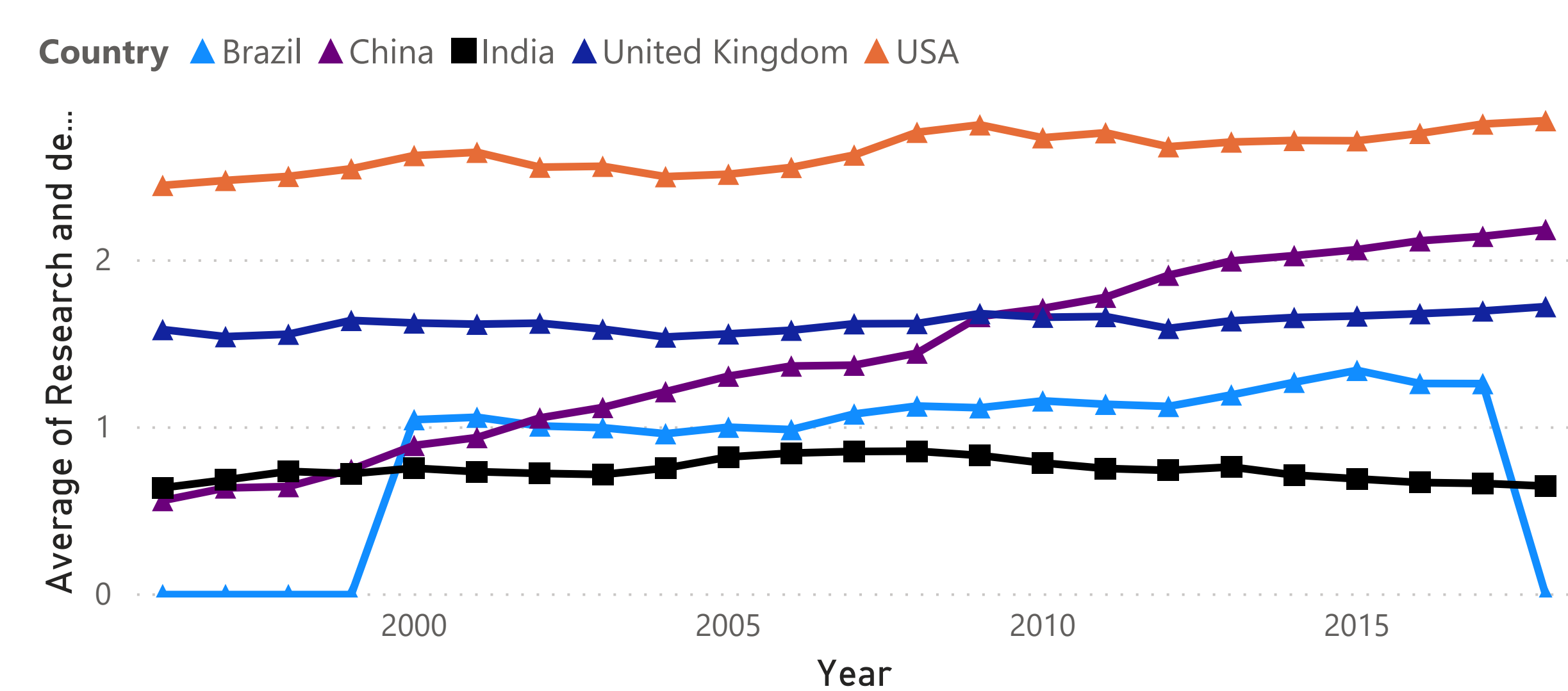
Average of Population with at least some secondary education (% ages 25 and older) by Year and Country



Average of Patent applications, residents by Year and Country



Average of Research and development expenditure (% of GDP) by Year and Country



Average of High-technology exports (current US\$) by Year and Country

