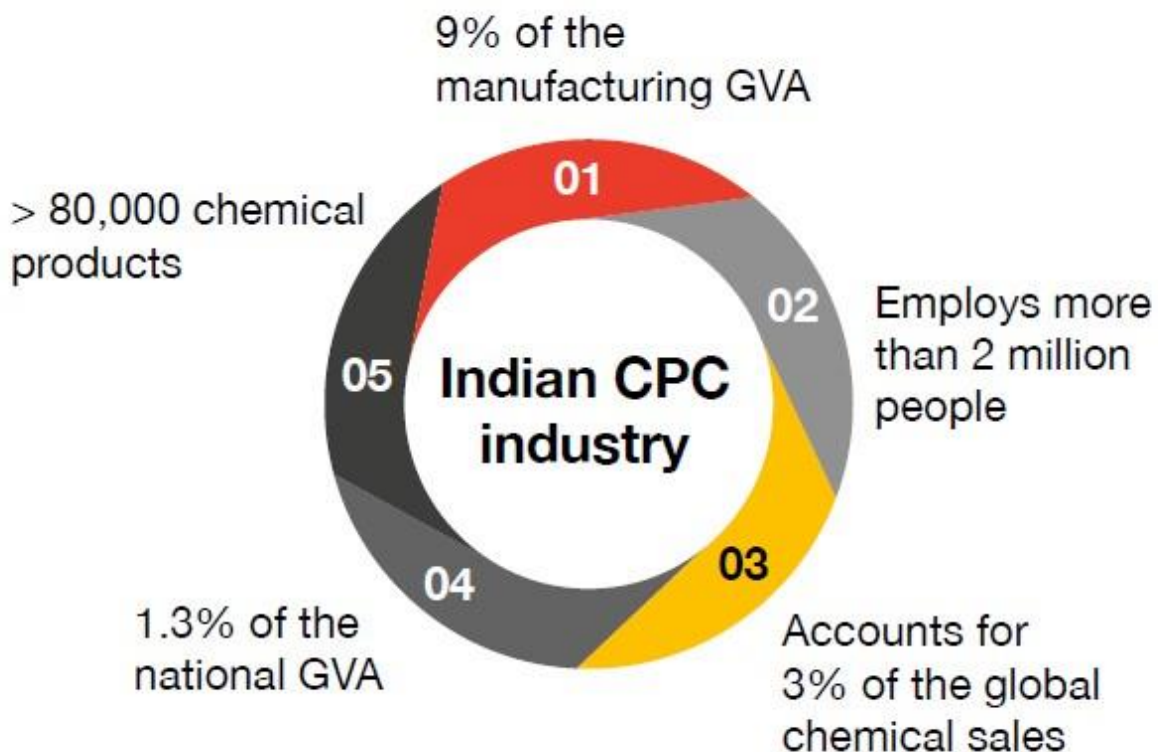


The Indian chemical and Petrochemical industry

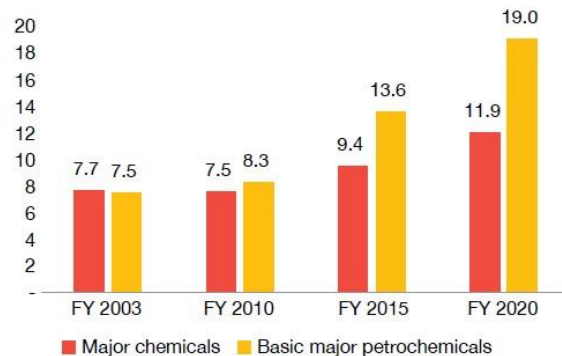
Today, India ranks sixth globally and fourth in Asia in terms of global sale of chemicals.⁹ More than 80,000 varieties of chemicals and petrochemicals are manufactured in the country, and the industry employs over two million people. India is known for the export of specialty chemicals and specific agrochemicals, dyes and pigments. It is the fourth largest producer of agrochemicals globally and exports about 50% of the production. India is also the second-largest manufacturer and exporter of dyes.¹⁰ The CPC industry accounted for around 9% of India's manufacturing gross value added (GVA) and 1.3% of its national GVA in FY20. Chemical manufacturing accounted for 1.4% of the total FDI equity inflows in FY21.¹¹



3.2 Industry size

The CPC industry plays a crucial role in the development of a country's industrial and agricultural sectors. The Indian CPC industry has reached significant milestones in terms of capacity additions and value growth in the last 70 years. Basic heavy chemical production capacity stood at 223 kilo tonnes (KT) in FY1951¹⁵ compared to 10 million metric tonnes (MMT) and 1.5 MMT for alkali and inorganic chemicals respectively in FY20. Back then, increasing agricultural output was the primary reason why basic chemical manufacturing capacities were developed since India was primarily an agricultural economy. Today, such chemicals are used in a variety of end-use industries. Petrochemicals, especially polymers, have witnessed higher growth in the past owing to their light weight and chemical and mechanical properties, gradually replacing metals, wood and natural fibres. India's rate of petrochemical growth has always outpaced the global rate primarily due to the country's large population base. Moreover, India entered the petrochemical market nearly 20–25 years after petrochemicals were introduced globally, resulting in their increased domestic adoption.

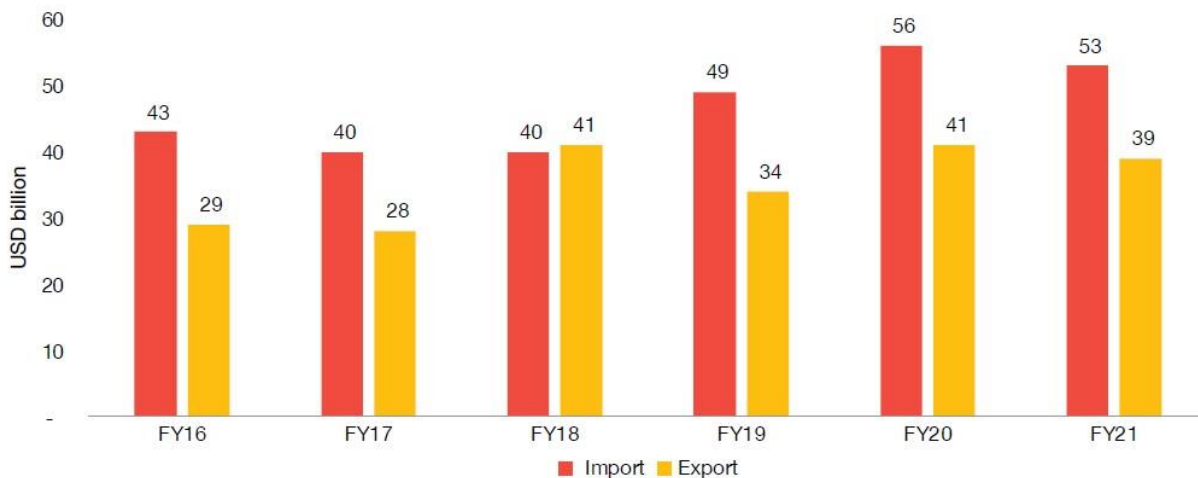
Production of chemicals and basic petrochemicals from FY03–20 (in million tonnes)



Source: DCPG

With the IIP of chemical and chemical products

Import and export of chemicals and petrochemicals from FY16–21 (in USD billion)

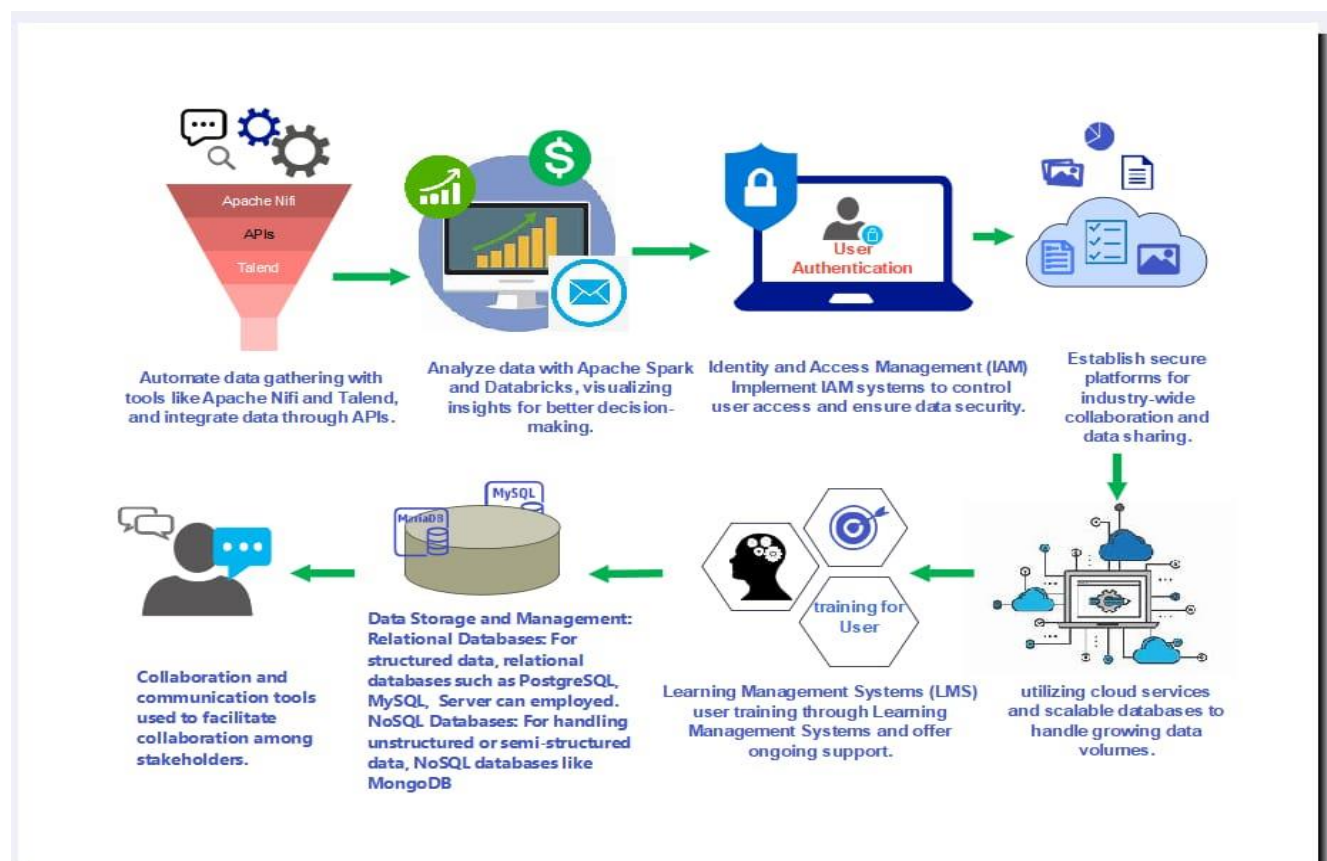


Globally, India ranks sixth in the import and ninth in the export of chemicals and chemical products (excluding pharmaceutical products) respectively. Chemical products contributed 12.9% to India's total exports and 12.8% to India's total imports in FY21.¹⁸ Its import rate increased at a CAGR of 5.4% between FY16 and FY20 with petrochemical intermediates accounting for a major share of over 30% of the total. On the other hand, export of chemicals and chemical products grew

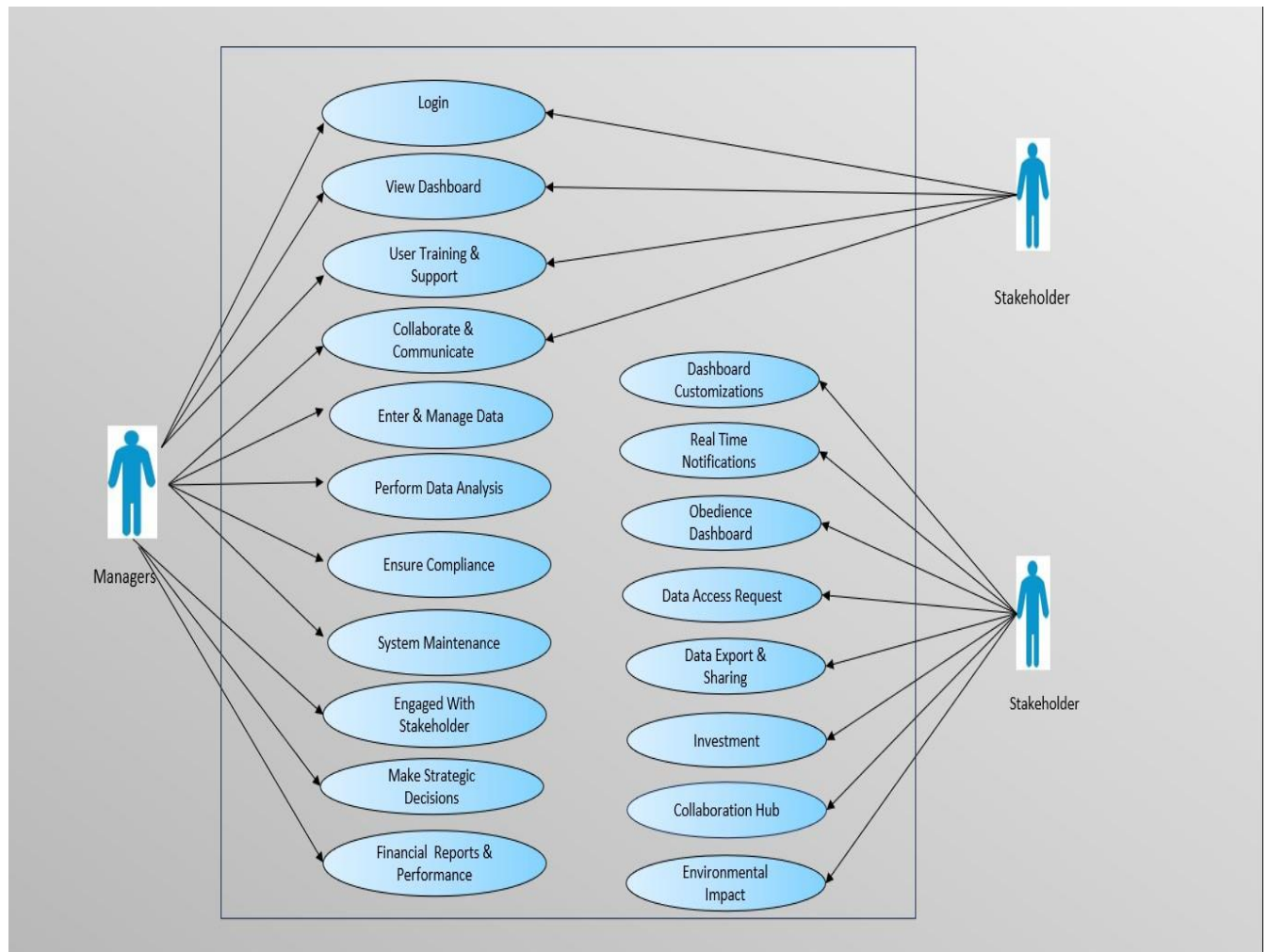
at a CAGR of 7.2% between FY16 and FY20. Specialty chemicals account for over 50% of chemical exports, dominated by agrochemicals, dyes and pigments, etc. Export of inorganic chemicals, staple fibers, filaments and tanning chemicals was slightly impacted due to the pandemic in FY21 which resulted in lower exports compared to FY20.19.

The abundance of data in this sector suggests a need for thorough analysis to extract valuable insights. Analyzing and optimizing this data can offer benefits such as improved operational efficiency, identification of growth opportunities, and informed decision-making for industry stakeholders, policymakers, and investors. So, we are developing an “app” which will show the insights and help to make decisions for stakeholder’s and industries and will be an effective way to manage and keeping record of data.

Data Process



Use Case



Sample UI

2023-10-19

Petrocharts Launch: Let the Data Madness Begin!

→

2023-11-01

First Quarterly Valero Update: Data So Fresh!

→

2023-12-15

The Great Global Gas Glut: Data Trends Unleashed

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2024-01-23

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