### US-India Chemicals and Petrochemicals Forum

Investment and Collaborative Opportunities between the US and India

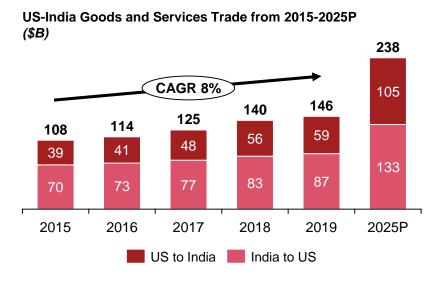
#### Mr. Mark Lustig

Chemicals Advisory Strategy Leader March 2021



# US and India have a strong bilateral trade relationship as a result of complementary policy and trade interests

In 2019, US-India Goods and Services trade totaled ~\$146B¹; bilateral trade is projected to exceed \$238B in 2025² with an estimated annual growth rate of ~8-10% through 2025



- 1. Sourced from Office of US Trade Representative
- 2. Sourced from US-India Strategic Partnership Report Source: Office of the US Trade Representatives, US-India Strategic Partnership Form

### Key Drivers for the Successful Trade Relationship

### Observations



India's rapid economic growth and diverse consumer base India is one of the fastest growing economies in the world with GDP growth rate of 7 - 8% prior to COVID impact in 2019



Continued trade tension between US and China

 India continues to be a key US regional trade partners as the new Biden administration has announced that it will not immediately remove the Trump Tariff on China



Shared approach on energy security and access

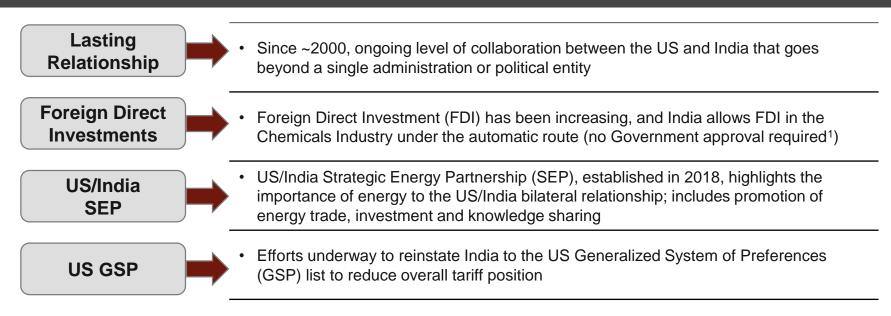
US-India Strategy Energy
 Partnership was established in 2018
 and has led to significant
 cooperation in key petroleum,
 renewable, and energy
 infrastructure partnerships

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## A combination of factors have impacted the strategic partnership between the US and India

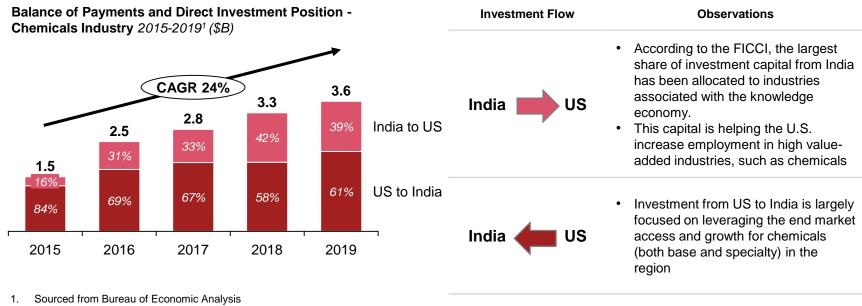
Overall, the relationship between the US and India has been positive, with longstanding cooperation



<sup>1.</sup> Except in the case of certain hazardous chemicals Source: Congressional Research Service, FDI India, US DoE

# Chemical Industry Foreign Direct Investments between the US and India have steadily risen since 2015

Chemical Investments between the US and India have become increasingly bi-lateral with India increasing FDI in the US



Source: BEA, Invest India, FICCI, Make in India

## Major US chemical manufacturers have recently completed or have planned investments in India

Select investment projects include acquisitions, capacity expansions, greenfield manufacturing investments and R&D centers



 In 2017, H.B. Fuller opened a new Pune, India, business office and a new R&D center in its Shirwal, India manufacturing facility



 In 2018, Dow opened a Polyurethane site in Maharashtra, India to serve growing market segments such as consumer durables, infrastructure and automotive



 In 2019, Celanese acquired Next Polymers Ltd., one of India's largest engineering thermoplastics compounders



In 2019, Ecolab, a provider of water, hygiene and energy technologies, in partnership with SMC<sup>2,</sup> has set up an Ecolab Digital Center (EDC) in Bengaluru



 Lubrizol and Grasim Industries have entered into a definitive agreement to manufacture and supply CPVC resin in India through increased production capacity in Dahei, Gujarat (proj. 2022)



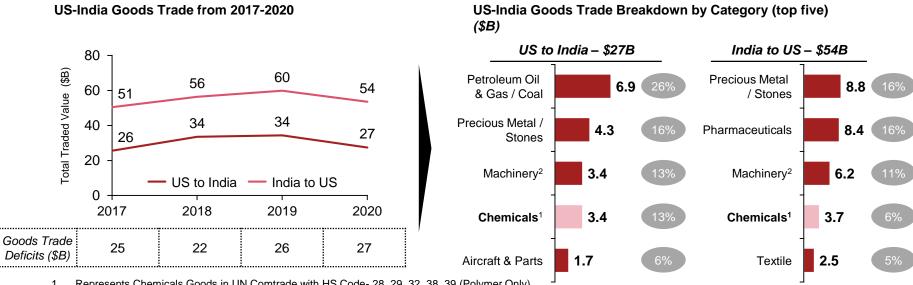
 INOX Air Products, a JV between Industrial Oxygen Company and Air Products, announced plans to build eight new greenfield Air Separation Units across India through 2024

Source: H.B. Fuller, Dow, Lubrizol, Cision, Businesswire, Business Line

Illustrative, Not Exhaustive

### Chemicals Goods represent a key area of global trade between US and India

Chemicals Goods was one of the top traded categories between US and India in 2020 and represented \$7B in total value



- Represents Chemicals Goods in UN Comtrade with HS Code-28, 29, 32, 38, 39 (Polymer Only)
- Represents both electrical and mechanical machineries

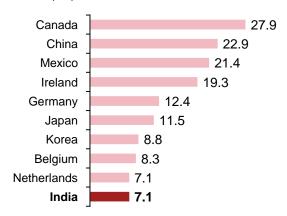
Source: UN Comtrade. PwC Analysis

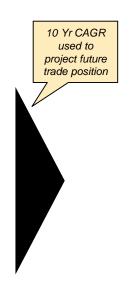
# India is well positioned with US in Chemicals trade and is projected to further strengthen their position going forward

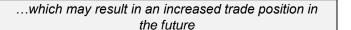
India is currently the 10<sup>th</sup> largest chemical trade partner for the US and is estimated to increase to 7<sup>th</sup> by 2030E based on historical growth rate projections

Trade with India has had a higher CAGR than that of it's peers...

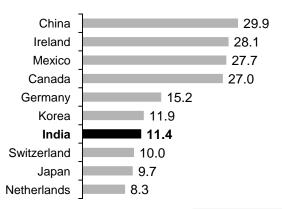
US 2020 Chemicals Trade (import and export) by key partners<sup>1</sup> (\$B)







PwC Estimate – US 2030E Chemical Trade (import and export) by key partners<sup>1,2</sup> (\$B)



Illustrative

- Represents Chemicals Goods in UN Comtrade with HS Code- 28, 29, 32, 38, 39 (Polymer Only)
- 2. Estimated using 2020 trade values with historical 10 yr CAGR

Source: UN Comtrade, PwC Analysis