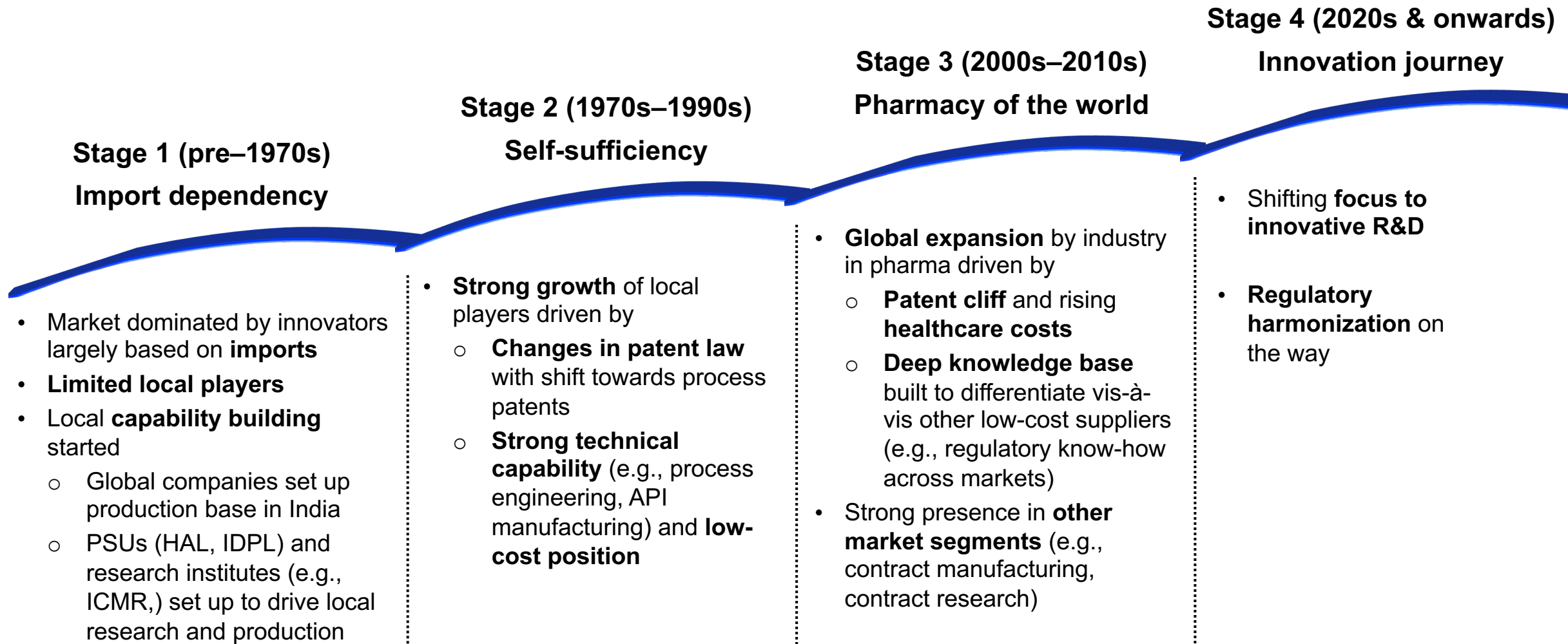


Is India Ready for the Biotech Frontline?

Presented at Scale-up Health 2025

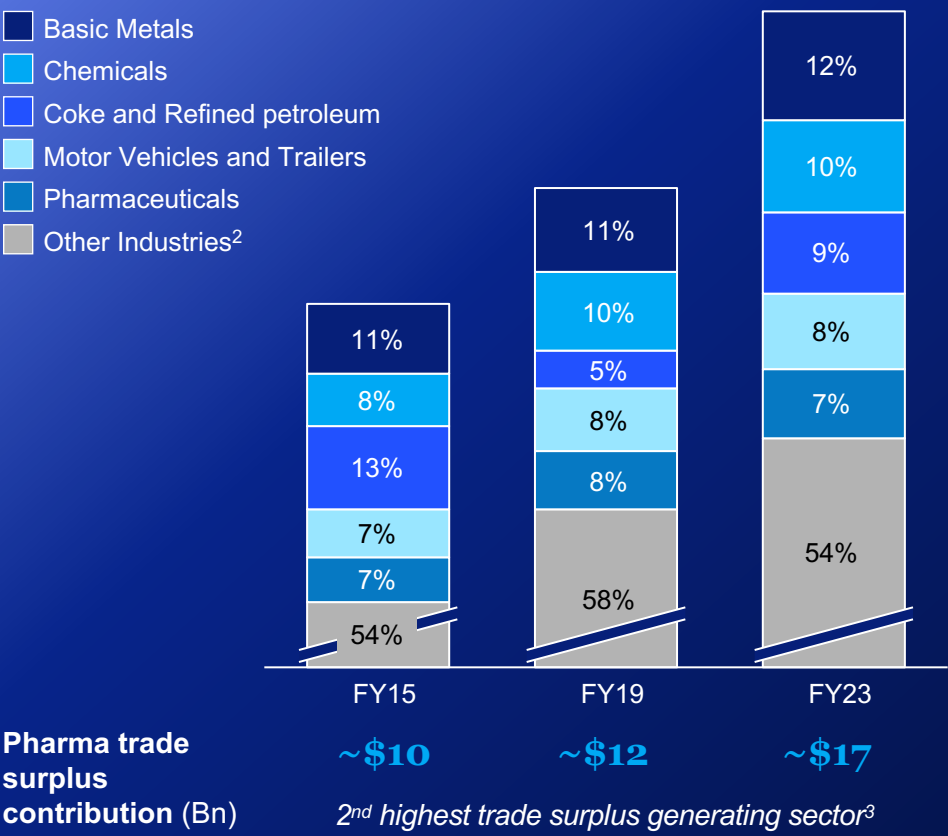
September 10, 2025

The Indian life sciences industry is in the fourth stage of its evolution



The sector has made significant contributions to India...

Pharma continues to be a top 5 contributor to India's manufacturing GDP¹...



... while considerably improving health and economic outcomes for the country

~37% reduction
in disease burden in India (DALY⁴, 2000-2020)

~39% reduction
in infant mortality rate (IMR) from 2000 to 2020)

1Bn+
COVID-19 vaccinations administered

~20% increase
in treatment coverage for diabetes in India between 2010 and 2020

2.7Mn+
total jobs created in India⁵

~\$19.5Bn
pharma's contribution to trade surplus in FY24

1. India's GDP breakdown: Manufacturing & utilities contribute 18-19%, construction ~8%, agriculture ~13%, and services ~60%

2. Others includes food products, electricity, etc.

3. Second highest trade surplus in the merchandise sector, 2nd only to textile and related products

4. DALY: Disability-Adjusted Life Years

5. As per 2020 estimates from IBEF article

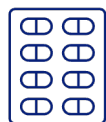
Source: MOSPI, EMA reports, CDSO database, Ministry of Commerce & Industry-GOI, PIB-GOI, Ministry of External Affairs-GOI, IPA, Global Health Observatory-WHO, IBEF, 2025 IPA whitepaper (Shaping the next decade of Indian pharmaceutical manufacturing), IHME, GBD, World Bank life expectancy data, PIB, Lippincott, National survey, WHO – Mortality, MOHFW, PMC

McKinsey & Company 3

...and gained recognition for the country as the “pharmacy of the world”

India has evolved into a leading supplier of medicines for the world...

... improving lives and economies in different ways



~20%

of global generics volumes sourced from India



300Mn+

COVID-19 vaccines supplied globally to 100+ countries during 2021-23



~60%

of global vaccine volumes supplied by India



25-30%

of the world's population consumes medicines from India



~70%

of global Antiretroviral (ARV) HIV medication volumes fulfilled by India



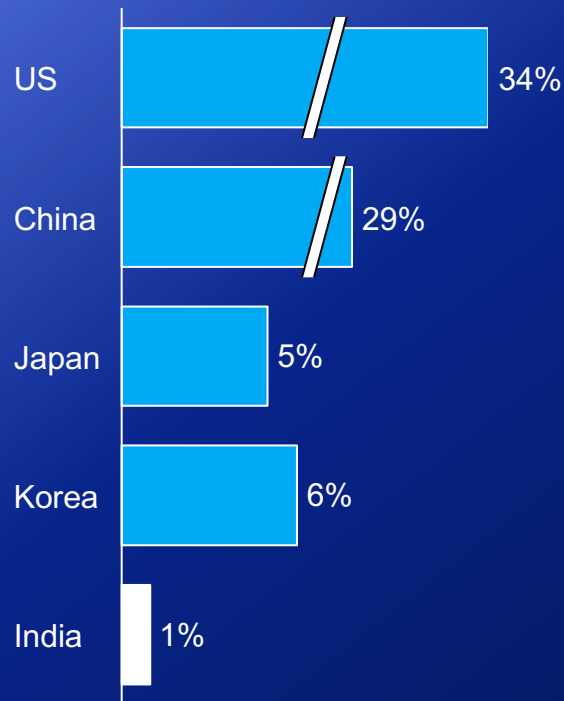
~\$1.3Tn

savings to healthcare systems around the world from Indian pharmaceuticals between 2013 and 2022

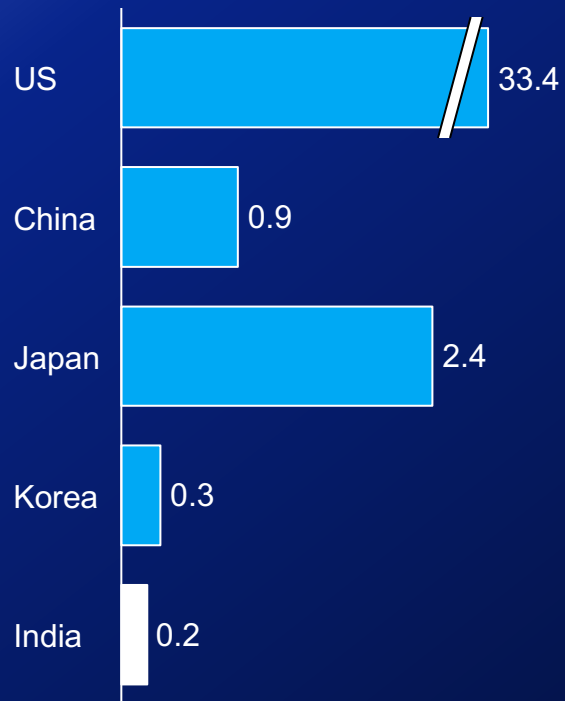
We have now started the journey towards innovation, but our contributions are still in the early stages

India's contribution to the global innovative pipeline and launches have been modest so far...

Innovative pipelines by originator region¹, in %, 2024



Avg. annual FDA-approved NMEs in last 10 years

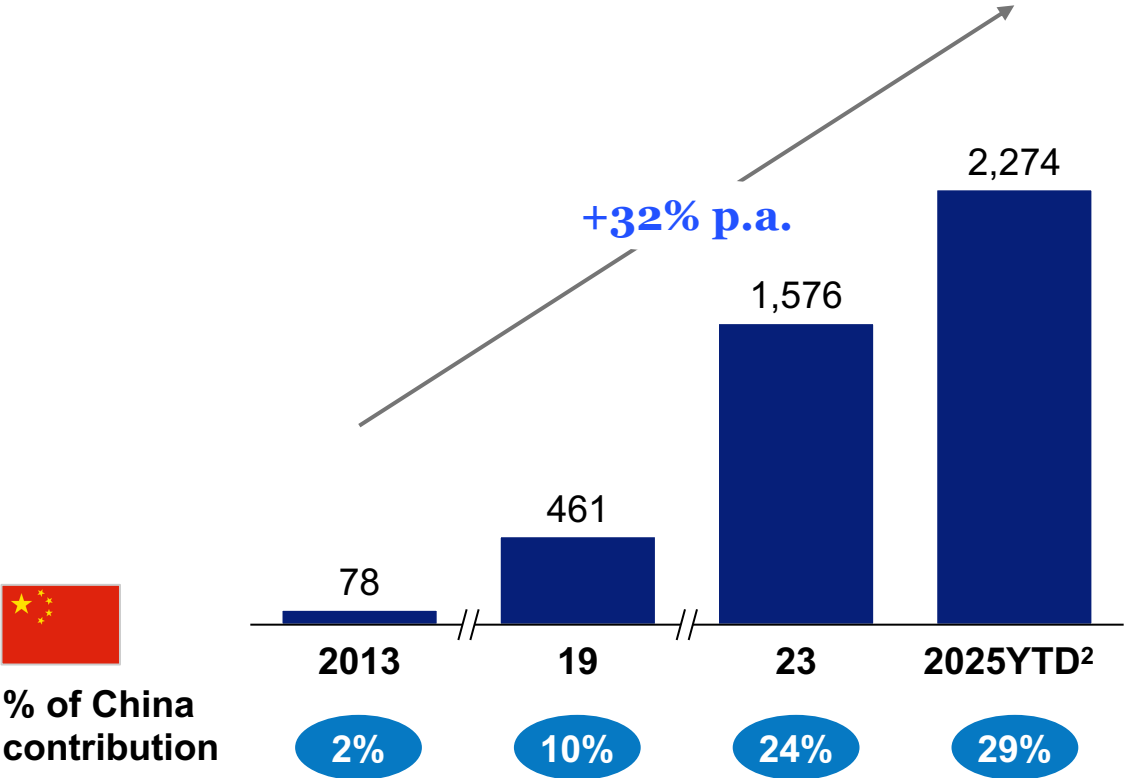


... however, multiple trends influence the push towards innovation

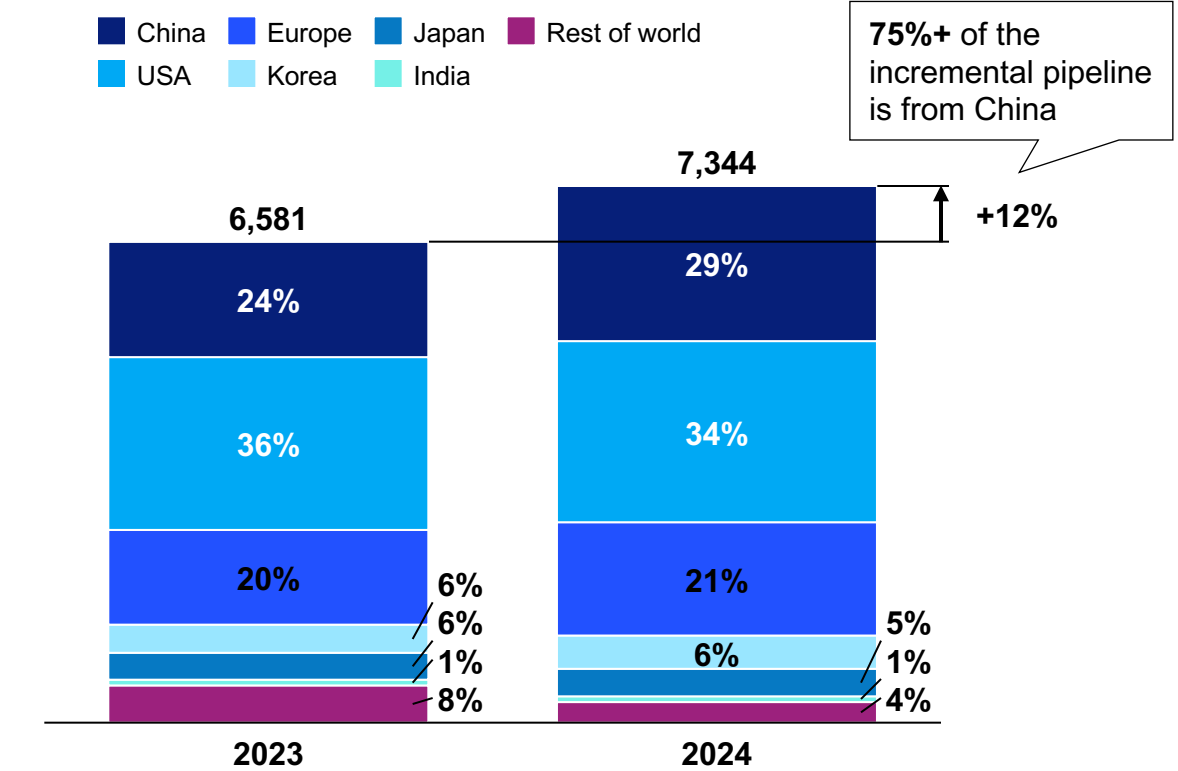
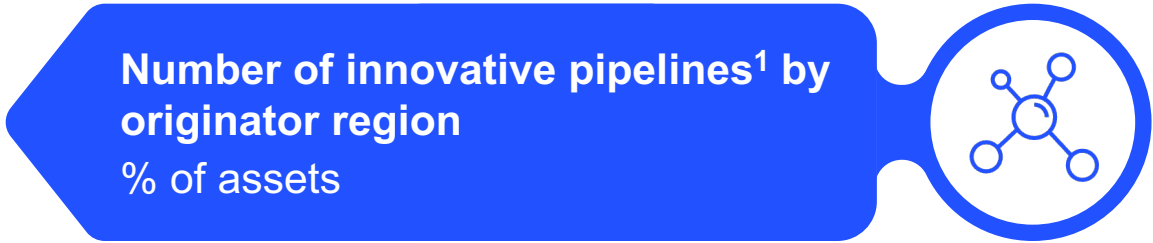


- A** **India's disease burden** remains high and unique, encouraging the government to support innovation to improve outcomes and access, while also pushing for self-sufficiency
- B** **Evolving geopolitical landscape**, encouraging multinationals to expand their geographical footprint to countries like India
- C** **Maturing Indian ecosystem** with the right set of capabilities, infrastructure, and an entrepreneurial industry

China's innovative pipeline¹ has been growing at 32% CAGR, and contributed to 75%+ of global incremental innovative assets in 2024

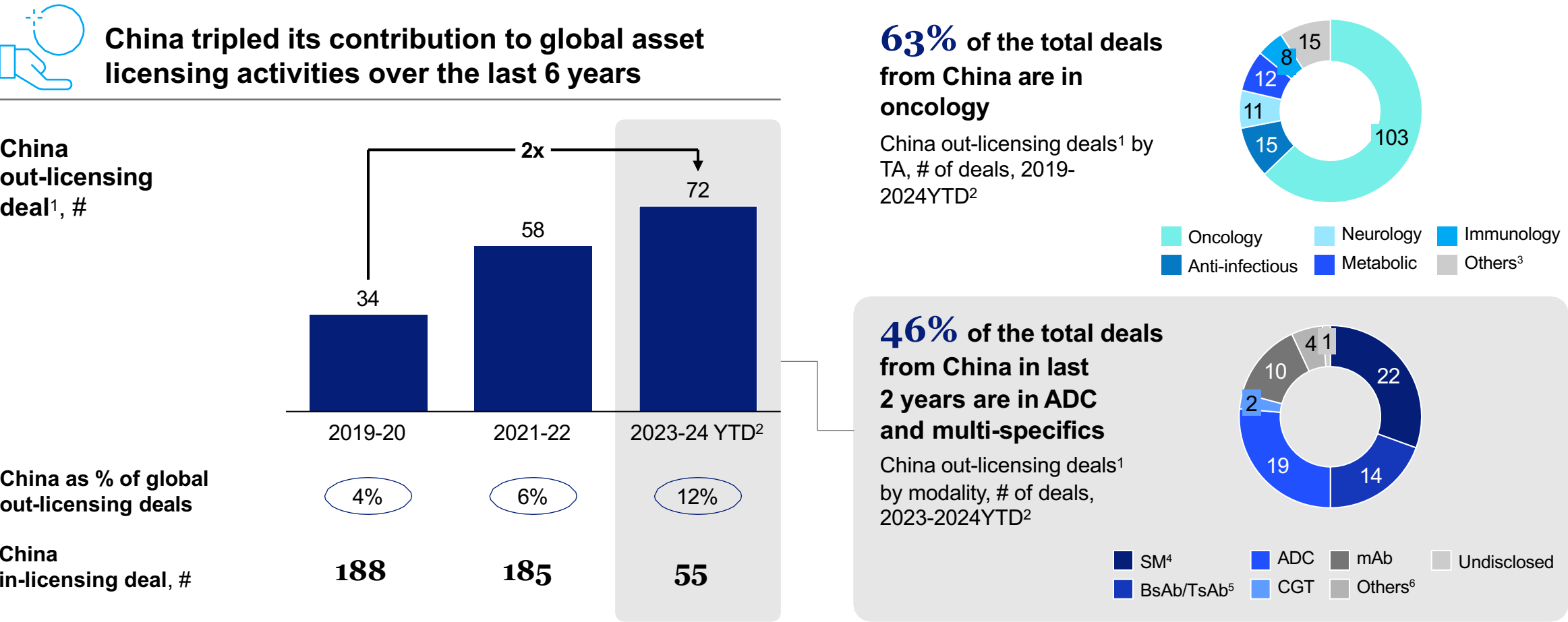



% of China contribution to global



1. Innovative pipelines from clinical phase 1 to pre-registration. Excluding natural products, biosimilar, reformulation, and Gx drugs | 2. As of Feb 28, 2025

China is also continuously increasing its contributions to global asset licensing activities, with more diverse TAs and modalities



1. Innovative asset-based deals (excluding Gx and biosimilar) with licensor being China-originated companies and deal rights territory including USA/EU markets; 2. As of Oct 29, 2024; 3. Incl. muscle-skeletal, respiratory, CV, Ophthalmology, etc.; 4. Small molecule; 5. Incl. 1 deal in 2023 for multiple assets (BsAb & TsAb); 6. Incl. Traditional Chinese Medicine, probiotics, vaccines

Key enablers driving China's innovation engine

Enabler	Status	Key insights
1  Government Support	Strong commitment to holistically support innovation with funding, infrastructure and favourable policy	12+ biotech innovation hubs established with government's special funds
2  Regulatory harmonization	Continued regulatory reform to harmonize with global standard	100% ICH guidelines implemented as of 2023
3  Capital Funding	Active VC/PE , viable public market (HKEX, STAR). However currently experiencing first downturn cycle	22 Bn USD total VC/PE investment in biotech in 2018-23, ~35X that of Japan >80 China biotech IPOed¹ between 2018 and 2024 ~40% average market cap drop in 2023 from 2021 peak ²
4  Talent and Culture	Scaled talent pool with high entrepreneurship	Large number of oversea returnees attracted back through benefits such as high pay, grants, etc. to found biotechs ~220 million people hold bachelor degrees or associate degrees, up ~75.3% decade over decade ~50K STEM PhD in 2022, vs. 34k from US
5  Digital and Tech enablement	Significant investment and global collaboration in AIDD	~100 AIDD companies in China since 2013 2nd largest AIDD market by pre-IPO funding

1. Only count first IPO listing; incl. listing in SEHK, SHSE, NasdaqGM/GS, SZSE, TPEX

2. Only incl. 61 biotechs listed in Nasdaq, SEHK Chapter 18A, and SHSE STAR Market

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