

Deep Knowledge Analytics, a subsidiary of Deep Knowledge Group, has released open-access interactive Big Data Analytical Dashboards and special analytical case studies that, taken together, identify key factors behind the ongoing growth of Asia's international leadership in science, technology, industry and economy, providing tangible and data-validated insights to support the presumption that Asia will continue to become the predominant global leader in a number of highly important technology-oriented sectors over the course of the next decade, and that 'the Future is Asian.'

**2400**

*Companies*

**1300**

*Investors*

**100**

*Hubs*

**25+**

*Parameters*

**57000**

*Data Points*

While most Asian regions lag behind the industrialized world in terms of AI adoption, the trend is quickly changing. The growing, vast and emerging base of skilled AI and DeepTech specialists, rising adoption of cloud computing, freedom from legacy assets, and various proactive government initiatives favouring AI are among the core factors driving rapid growth and diversification in sectors such as financial services, healthcare, transportation, and media.

One of the largest players on the continent, China, now leads the world in annual R&D spending, with nearly \$275 billion (just above 2% of GDP), but other Asian regions are also much above 2%, including Japan (\$176 billion), South Korea (\$70 billion) and Singapore (\$13 billion). By comparison, U.S. federal R&D spending is around \$131 billion. While these figures capture a wide range of sectors from biotech to materials to computer science, all are driven by AI and all will continued to see their growth propelled by advanced in AI development.

The dashboard aims to provide a broad analysis of the present state and near-future trajectory of the DeepTech and Artificial Intelligence Industry in Asia and Pacific in 2020, with specific emphasis on industry trends and government development initiatives for artificial intelligence. It also identifies the latest technological and media trends in Asia and provides an overview of underlying economic data.

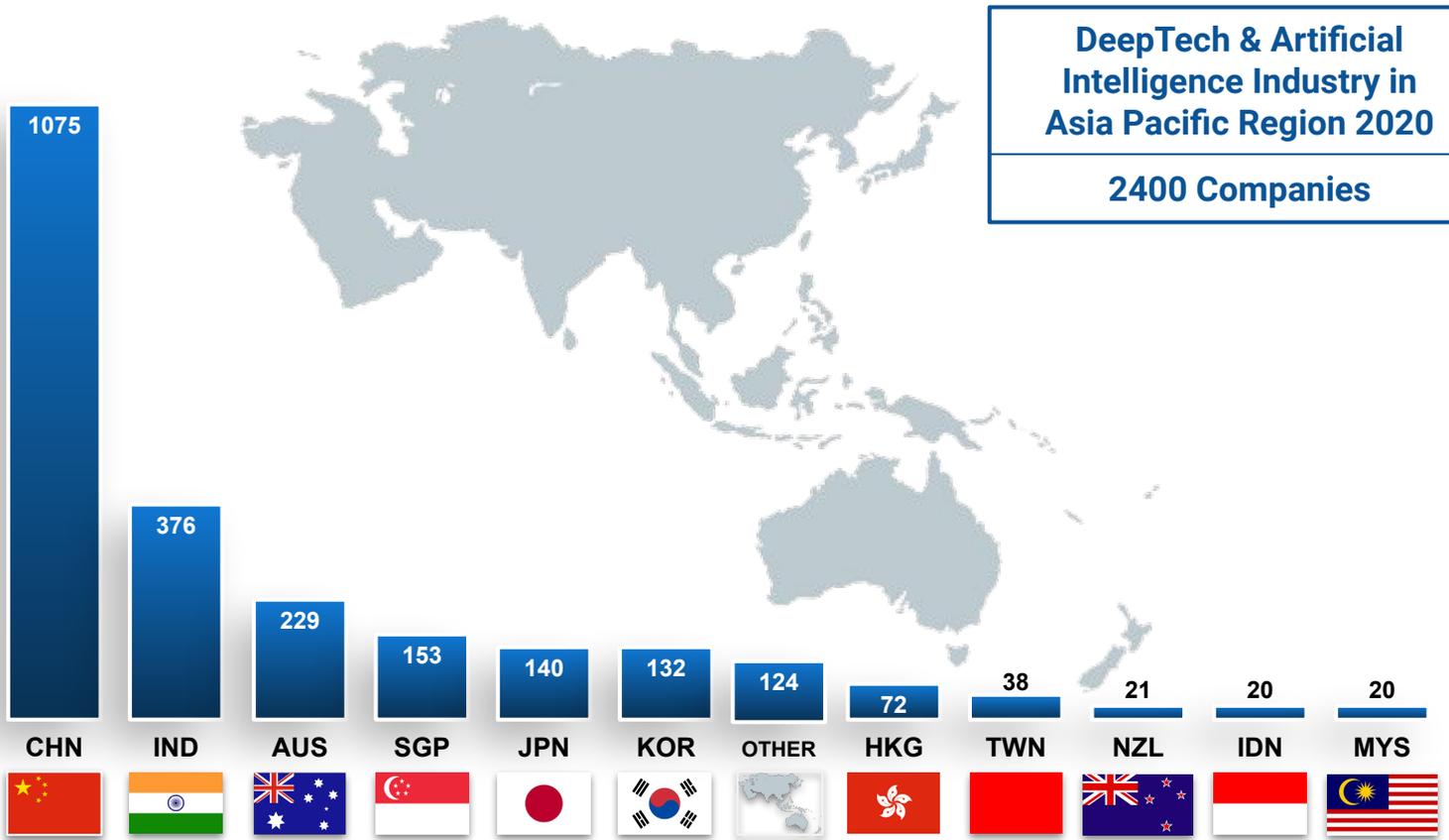
Overall, the project uses quantitative analysis of key technological and macroeconomic factors impacting Asia's ongoing economic, financial and technological growth to show that all major Asian economies are investing heavily in the creation of new opportunities centered on AI in order to increase their competitive advantage over the rest of the world, and this combination of strong technological and economic assets combined with Asian national governments' proactive stance on AI adoption provide substantial advantages over many Western economies.

## Key Takeaways

- 61% of the world's population is concentrated in Asia, which is expected to drive substantial increases in AI deployment, adoption and penetration, given the industry's comparatively early stage of development.
- Together with 5G and other technological developments, online learning will see significant enhancements in the years to come. China's online education is expected to reach RMB 696 billion in 2023, up by more than two-fold from RMB 294 billion in 2020E.
- Cloud computing provides fast connection speeds and doesn't require maintaining computing infrastructure, driving an expected growth of 15% over the next two years.

- With a 10.8% market share, China's cloud infrastructure services market is the second largest in the world. The successful listing of Kingsoft Cloud during the pandemic in the US raised more than USD 510 million. We can thus expect to see substantial growth in Asia's cloud computing market in the years to come.
- Robots will become easier to programme and install as machine learning tools make them more intelligent, functional and capable, which will drive significant growth in the Asian robotics market.
- 5G technology is expected to contribute more than USD 13 tln to global output by 2035, representing 5% of total global output and 22.3 million jobs.

# DeepTech & Artificial Intelligence Industry in Asia Pacific Region 2020



**DeepTech & Artificial Intelligence Industry in Asia Pacific Region 2020**

**2400 Companies**

## DeepTech & AI Industry in Asia Pacific Region 2020

**Companies - 2400**  
**Investors - 1300**  
**Hubs - 100**

