

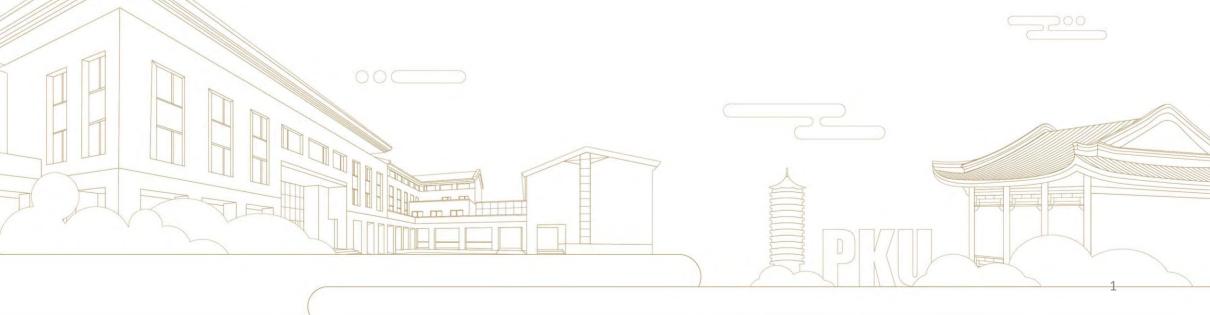
The Impact of Subsidies and Market Dynamics on China's EV Industry



Roadmap

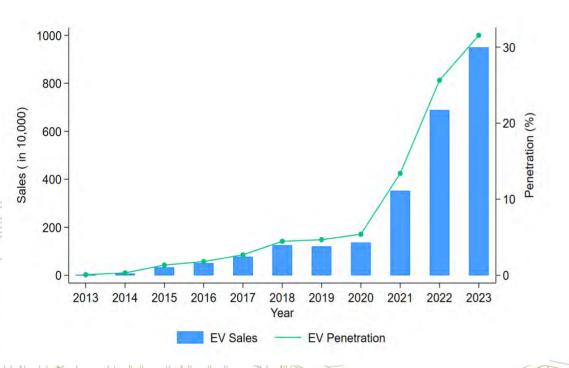


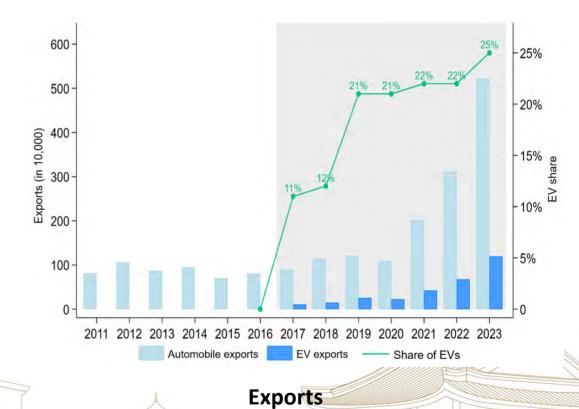
- 1. The evolution of China's EV industry over the past decade
- 2. The role of government subsides
- 3. The impact of market dynamics on EV expansion
- 4. Key takeaways and lessons learned



China's EV Industry





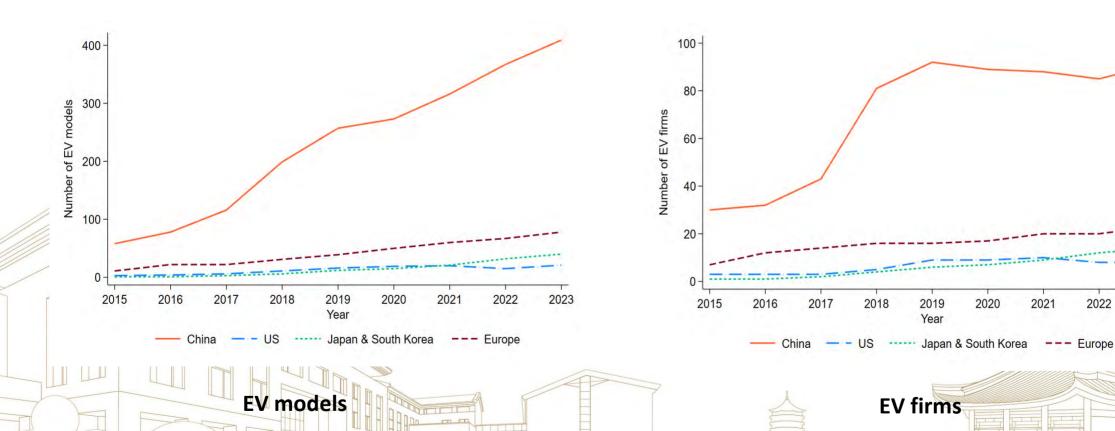


Domestic sales

China now leads the world in EV production and sales, with over 40% of global EV exports in 2024.

China's EV Industry

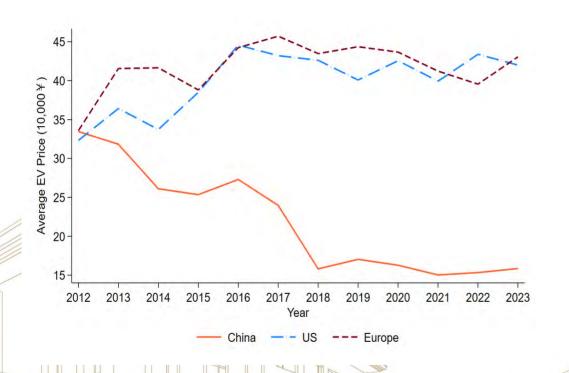


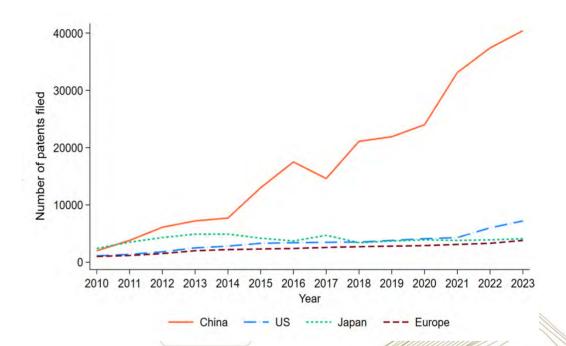


2023

China's EV Industry



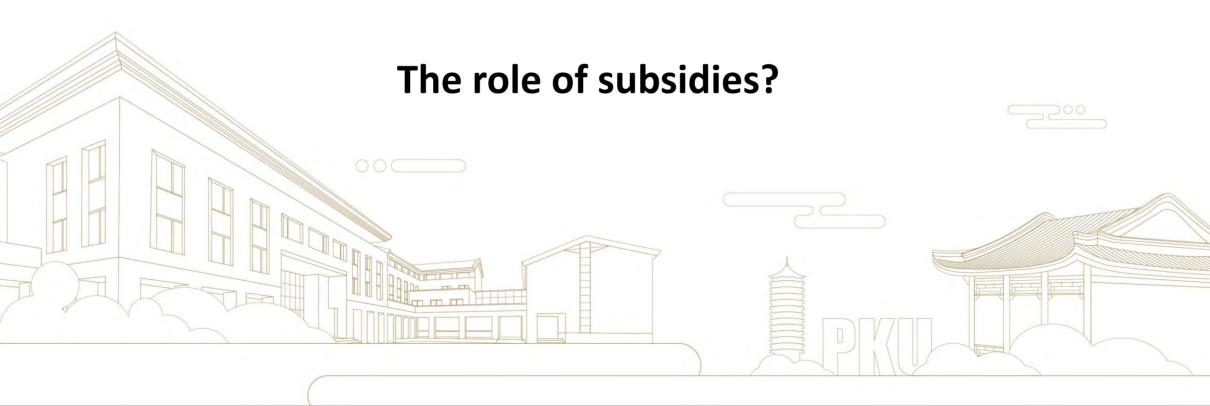




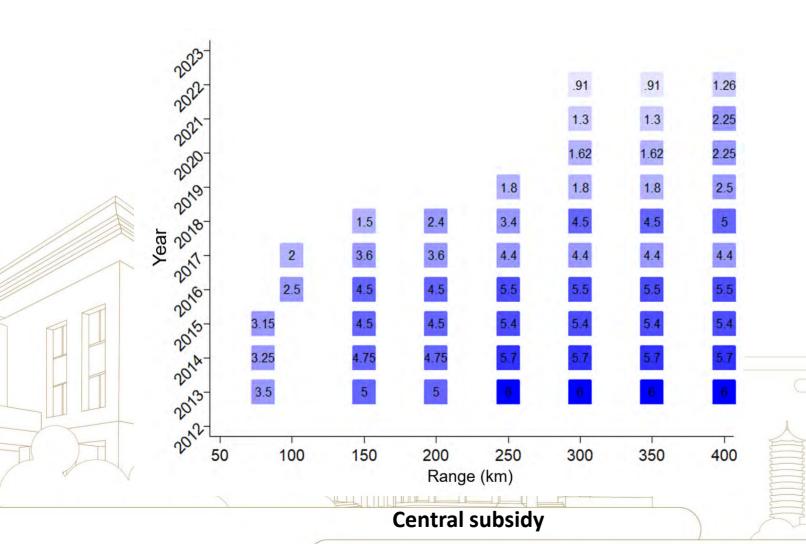
EV price

EV patents

What explains the performance of China's EV industry?

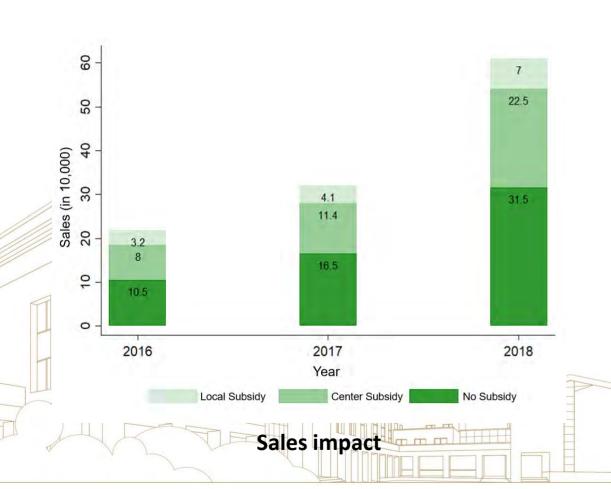






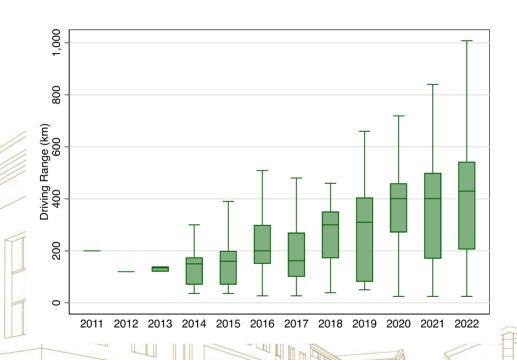
- Subsidy amount based on range
- 2010: 10 pilot cities
- 2013: Official implementation
- Ended by the end of 2022.



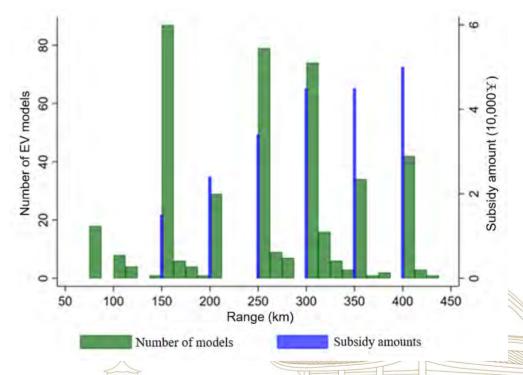


- Subsidies accounted for 49% of EV sales, with central subsidies contributing to three-fourths of the increase.
- US: 40% (Li et al. 2017)
- Norway: 57% (Springel 2021)





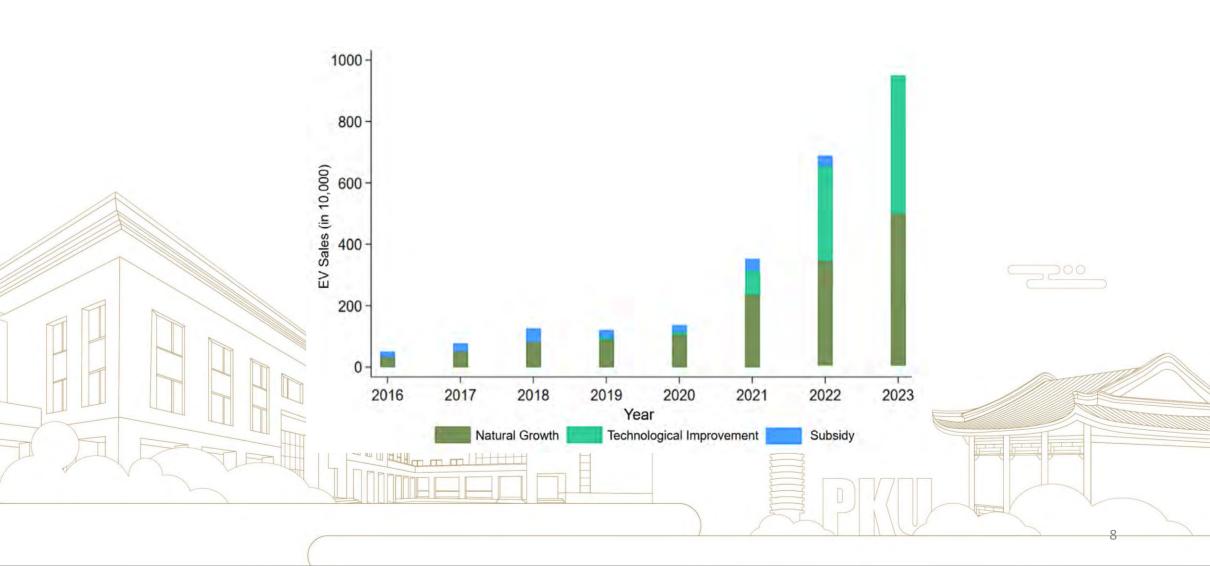
Range improvement



Subsidy and technological improvement

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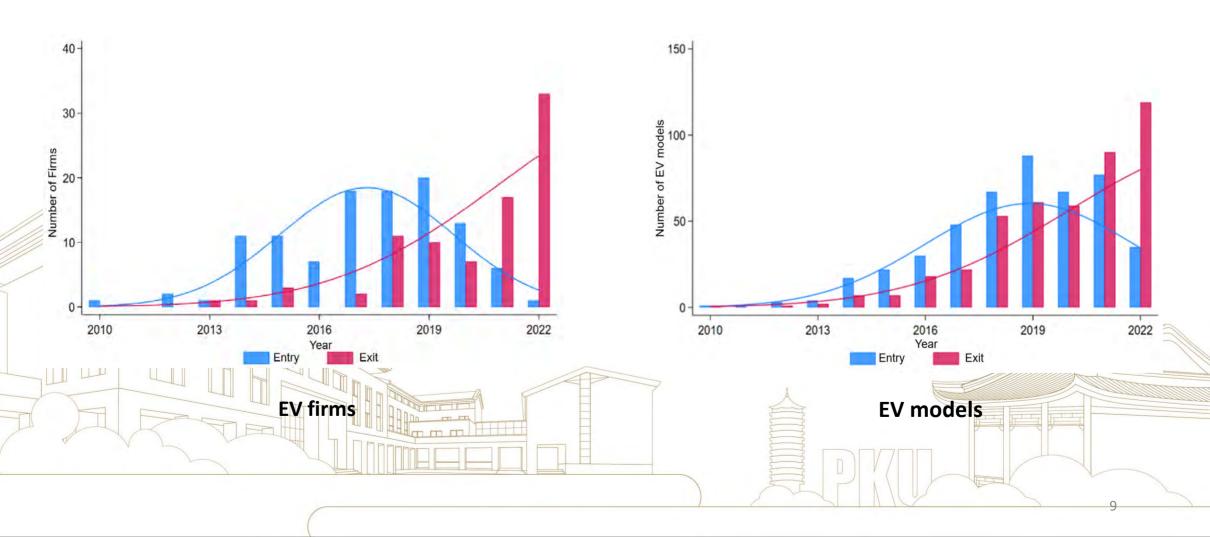


What explains the performance of China's EV industry?



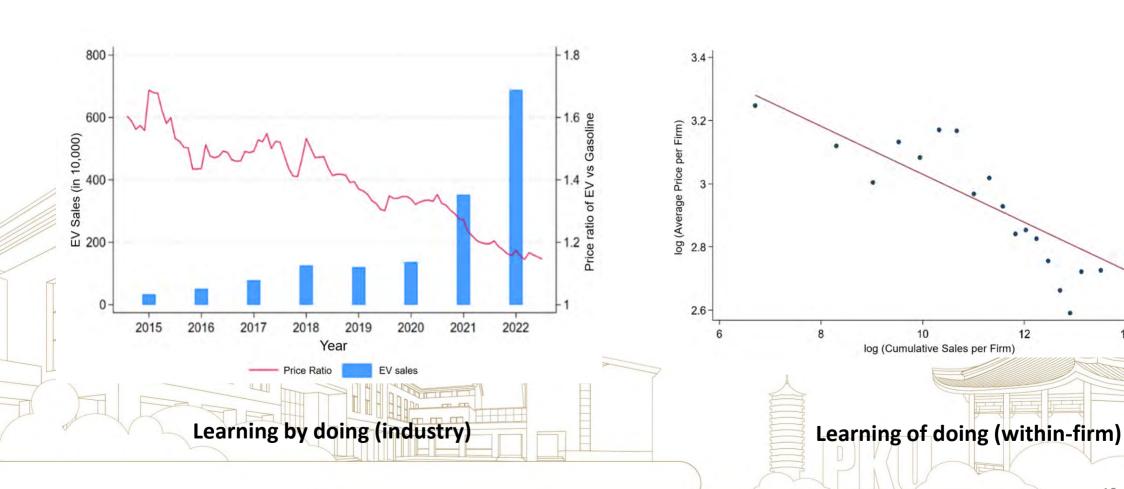
Competition





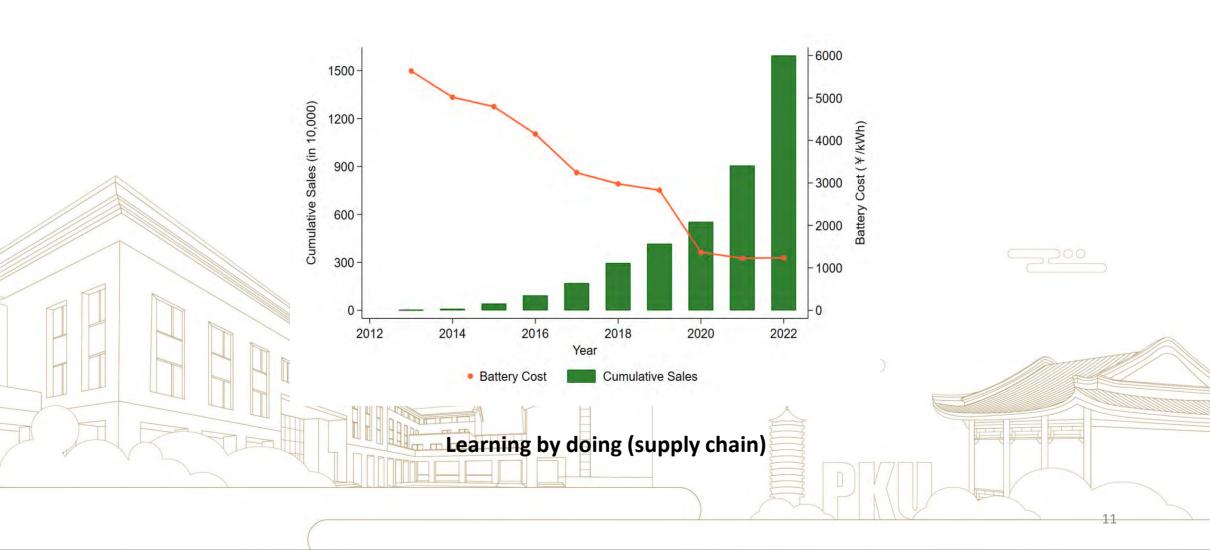
Learning by doing





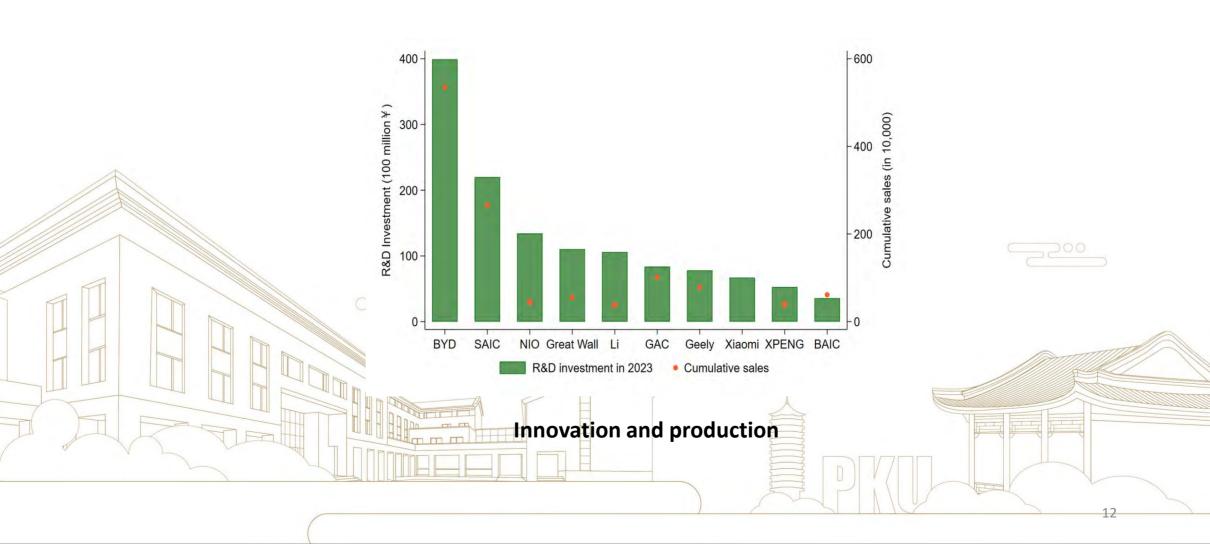
Supply chain





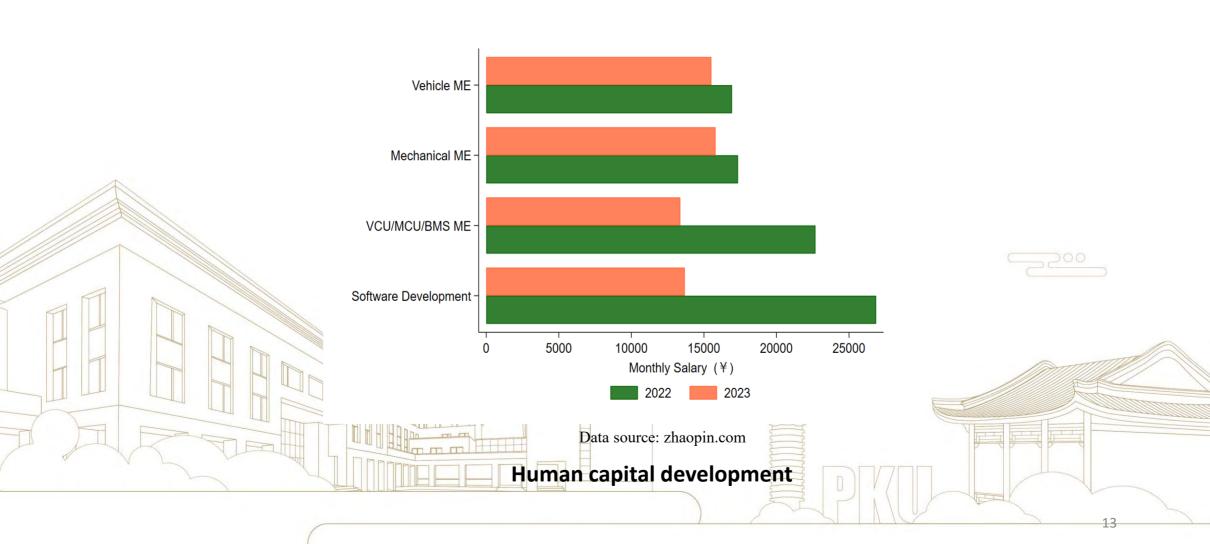
Innovation





Human capital





Takeaways



- 1. Subsidies played a key role in early market expansion.
- 2. Subsidy-driven growth accelerated learning-by-doing, innovation, human capital development, and the upstream industry advancement.

Justification of IP: addressing externalities

3. Market forces sustain growth in post-subsidy era.

Thank you!

