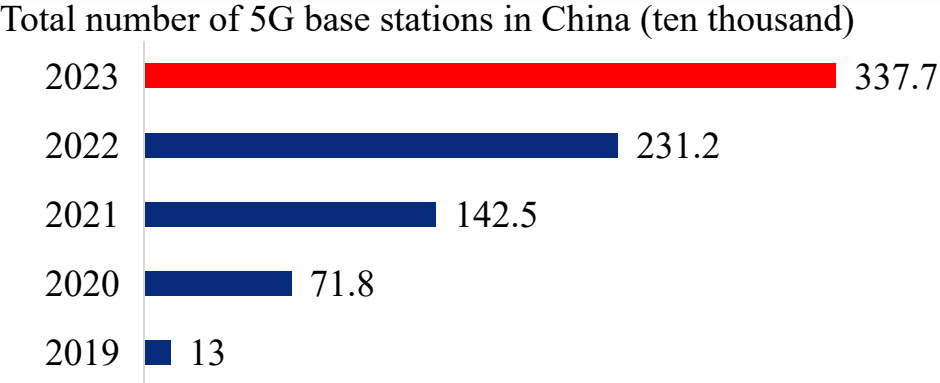


5G development in China



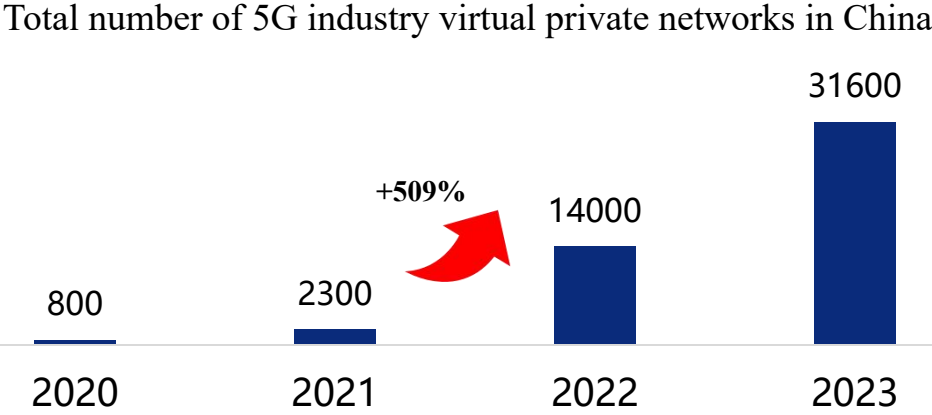
5G network build-out in China

The world's largest 5G SA network has been built



Data source: MIIT

5G industry virtual private network has been introduced



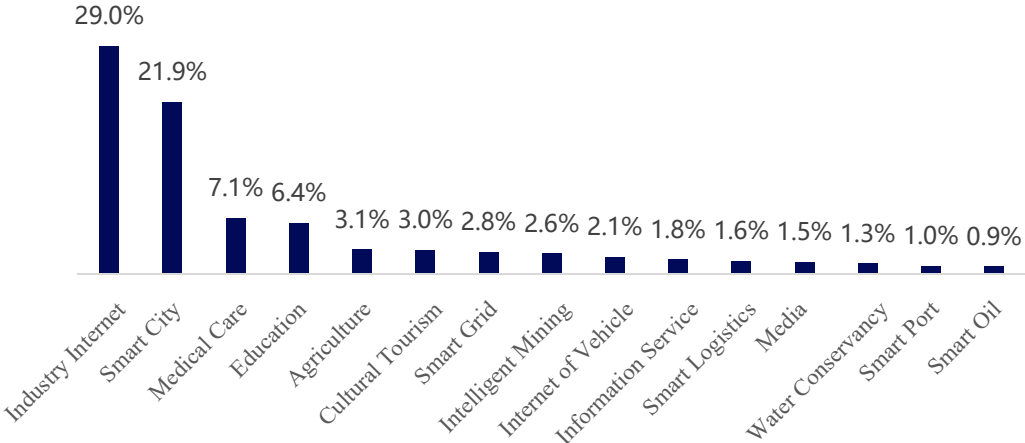
Data source: MIIT

Actively promote 5G base station sharing



- Total 1.2 million 5G BSs
- More than 0.6 million 700 MHz 5G BSs

Application proportion of 5G industry virtual private networks in China

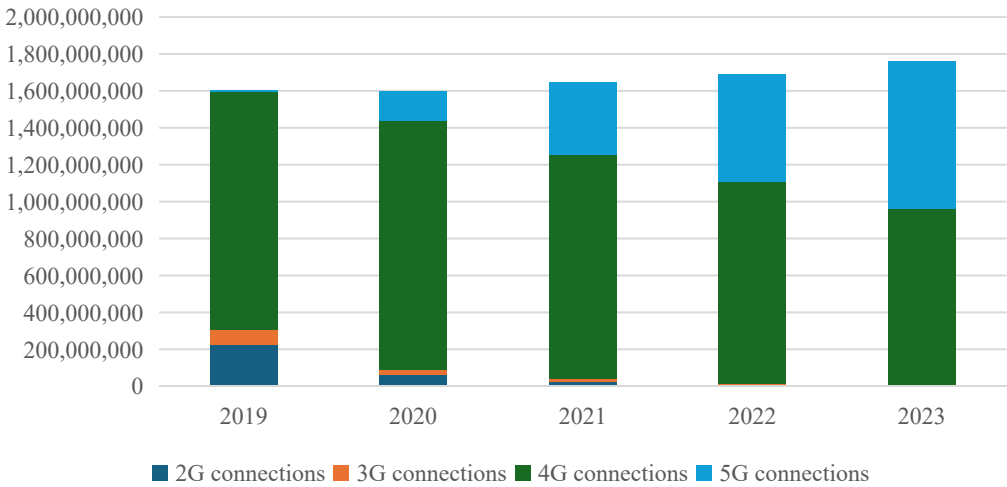


Data source: CAICT

China 5G subscribers

By the end of 2023, 5G mobile phone users reached 805 million, with a penetration rate of 46.6%.

Development of 2G/3G/4G/5G mobile phone users in China

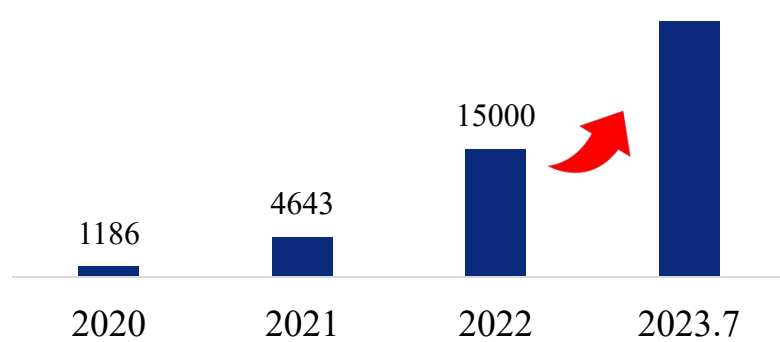






Data source: MIIT

- The number of 5G mobile phone users increases **244 million** compared to 2022.
- The penetration rate of 5G mobile phone users increases by **13.3%** compared to 2022.

By July 2023, the number of 5G vertical industry users in China exceeded 30 000.

Development of 5G vertical industry users in China



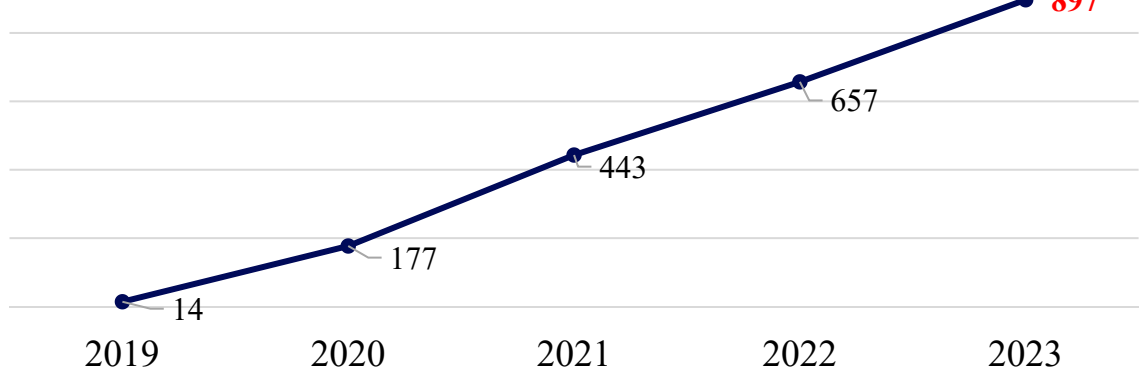
			
6948	691	547	2149
“5G+Factory”	“5G+Mines”	“5G+Grid”	“5G+Hospital”

Data source: China Telecom, China Mobile, China Unicom

Shipment of 5G terminals in China

By the end of 2023, the cumulative shipments of 5G mobile phones in China's market reached **897 million**.

Development of 5G mobile phones shipments in China (million)

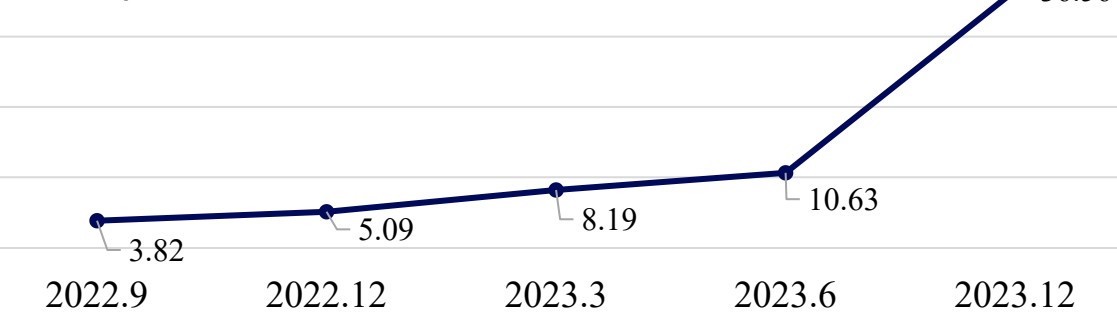


Data source: CAICT

- 5G mobile phone shipments in China's market accounted for nearly **83%** of the same period's mobile phone shipments in 2023.

By the end of 2023, the number of 5G IoT terminal connections in China reached **36.56 million**.

Development of 5G IoT terminal connections in China (million)



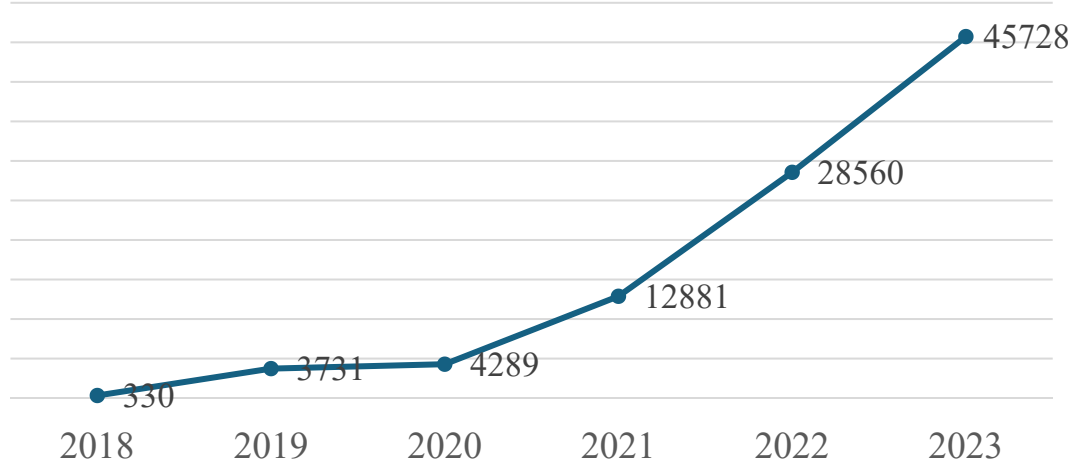
Data source: MIIT

- The number of 5G IoT terminal connections increases by **618.2%** compared to 2022.

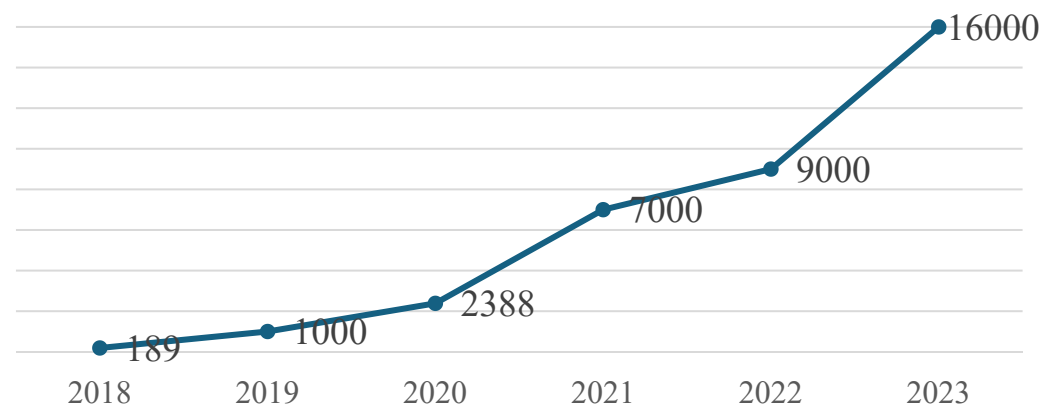
5G “Bloom Cup”

China held the first “Bloom Cup” 5G Application Contest in **2018** before the official issuance of 5G commercial licenses

The number of participating projects in previous “Blooming Cup”



The number of participating companies in previous “Blooming Cup”



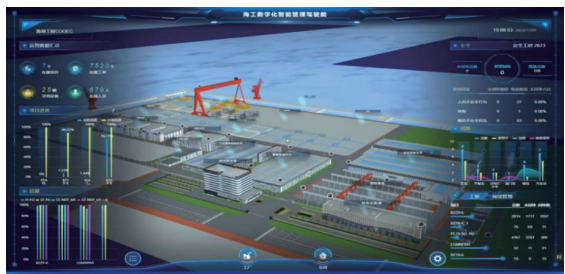
Data source: CAICT

- Successfully wakeup a number of innovative services.
- Select a number of excellent demonstration benchmarks with good application effects in the whole society.
- Collect more than **90 000** 5G application cases over the past six years.

Examples of 5G applications in “Bloom Cup”

5G empowers smart factories

Tianjin CNOOC has achieved a **50%** reduction in the general assembly time and a **33%** reduction of personnel working at height.



5G+DIMS system



5G+Intelligent safety helmet



5G+AR/VR remote collaboration



5G+Tower crane monitoring

5G enables “patients can be hospitalized immediately by 5G ambulance”

The Beijing Emergency Centre has achieved a reduction in the average response time of emergency care in ambulance by about **15 minutes** through 5G on line combine with hospital.



5G+Emergency dispatch



5G+Transport escort



5G+Online guidance



5G+hospital information docking

Examples of 5G applications in “Bloom Cup”

5G helps mining “drilling well without going down the well”

Shaanxi Kekegai Coal Mine has achieved a **50%** reduction in the number of workers and operating time by the deployment of 5G+intelligent digging machines.



5G+RIS



5G+Large equipment assembly



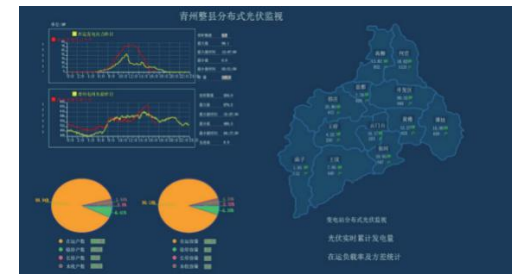
5G+Automatic spray mixing control



5G+Security monitoring

5G realizes intelligent adjustment of PV power generation

Shandong Qingzhou Power has reduced the grid connection cost of distributed PV power stations by **87%** and reduced CO2 emissions by **50000 tons** annually by adopting an integrated 5G application.



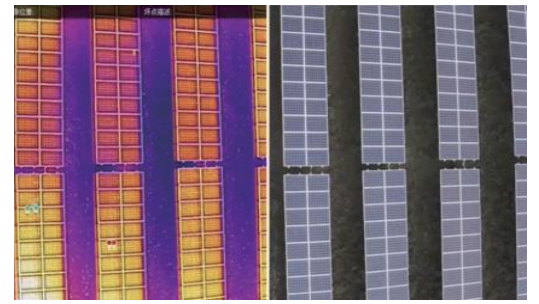
5G+PV regulation



5G+UAV inspection



5G+AR remote operation



5G+Fault detect

Enterprise interested in applying 5G

Enterprises with a better digitalization base



Electric Power



Industry

Enterprises with strong economic strength and willingness for digital transformation



Harbor Port



Petrochemical

Enterprises with a significant improvement in social benefits



Medical Care



Education

Enterprises with a stronger sense of innovation



Cultural Tourism



Information Service

Thanks for listening