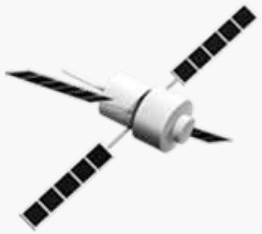
量子网络
QUANTUMNET



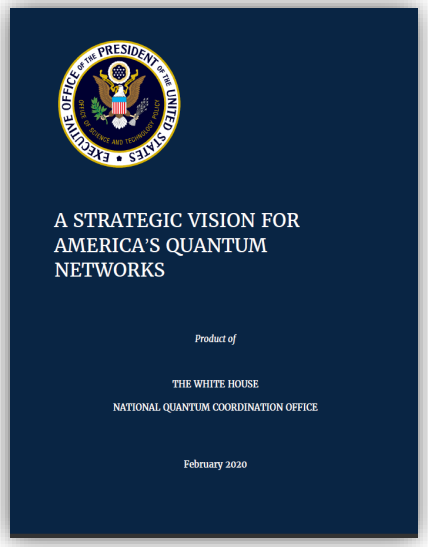
Satellite-Ground Integrated QKD networks

Jimin Nie

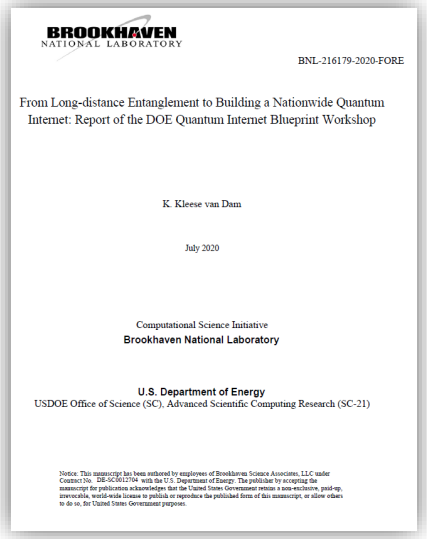
CAS QUANTUM NETWORK Co., Ltd

Quantum information technology has attracted worldwide attention

USA



Strategic vision for America’ s quantum networks

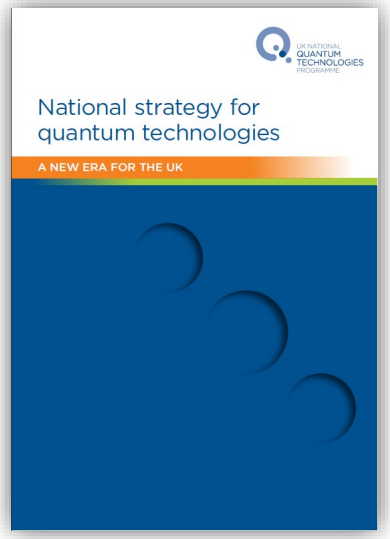


Quantum Internet Blueprint

EU

Quantum Manifesto

UK



National strategy for quantum technologies

China has attached great importance to the development of quantum information technology

Overall Arrangement	"National Innovation-driven Development Strategy Outline"		
Industry	"Development Plan of the Yangtze River Delta City Cluster"	"The 13th Five-Year Plan on informatization"	……
Technology	"The 13th Five-Year Plan on Technology and Innovation"	"The 13th Five-Year Plan on basic research"	

The Beijing-Shanghai backbone network

量子网络 QUANTUMNET

Commencement Date

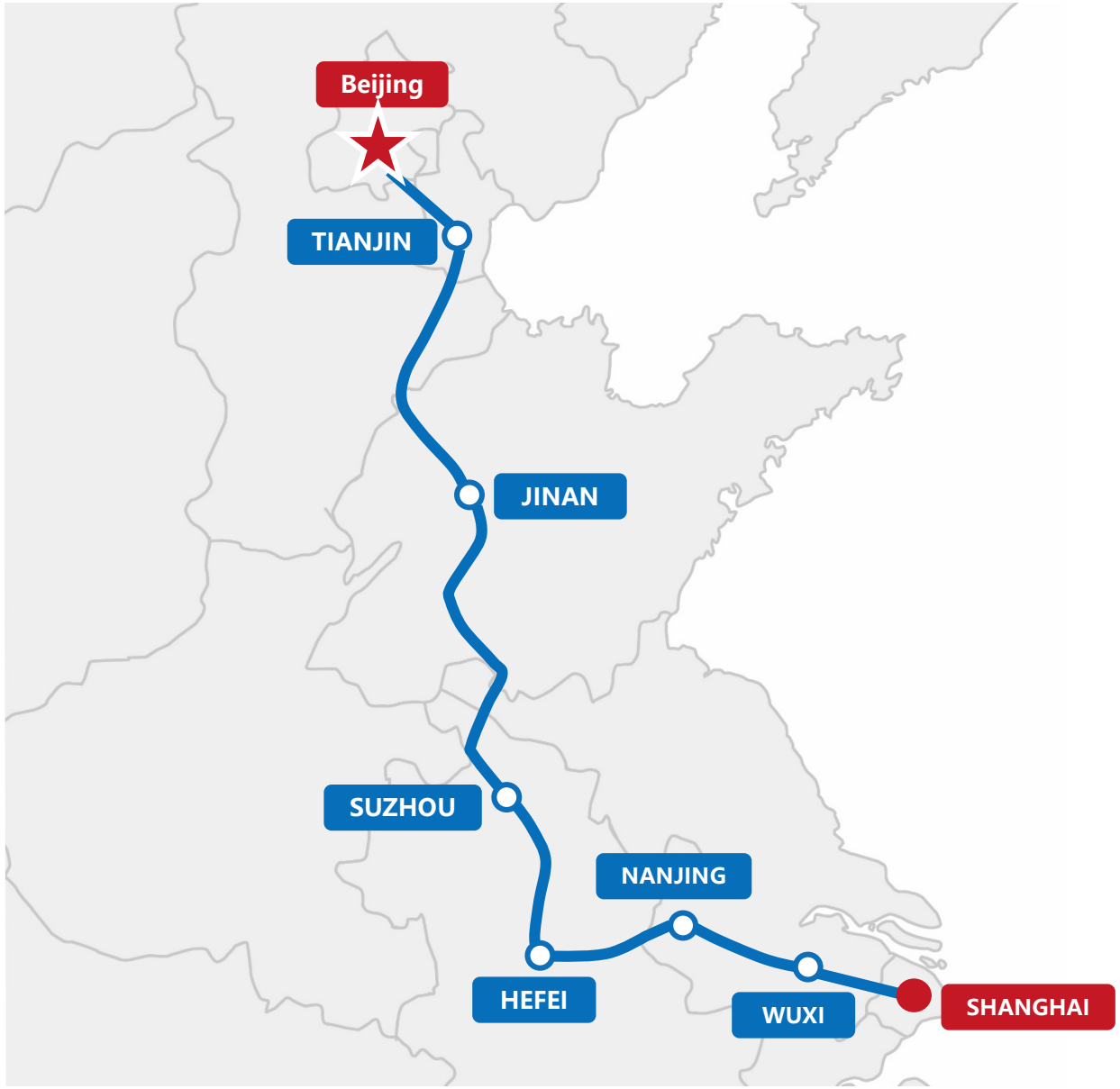
July 2013

Completion Date

December 2016

Total Line Length

2000 KM



The "Micius " Quantum satellite

量子网络 QUANTUMNET

Vienna

Beijing

国科控股
CAS HOLDINGS

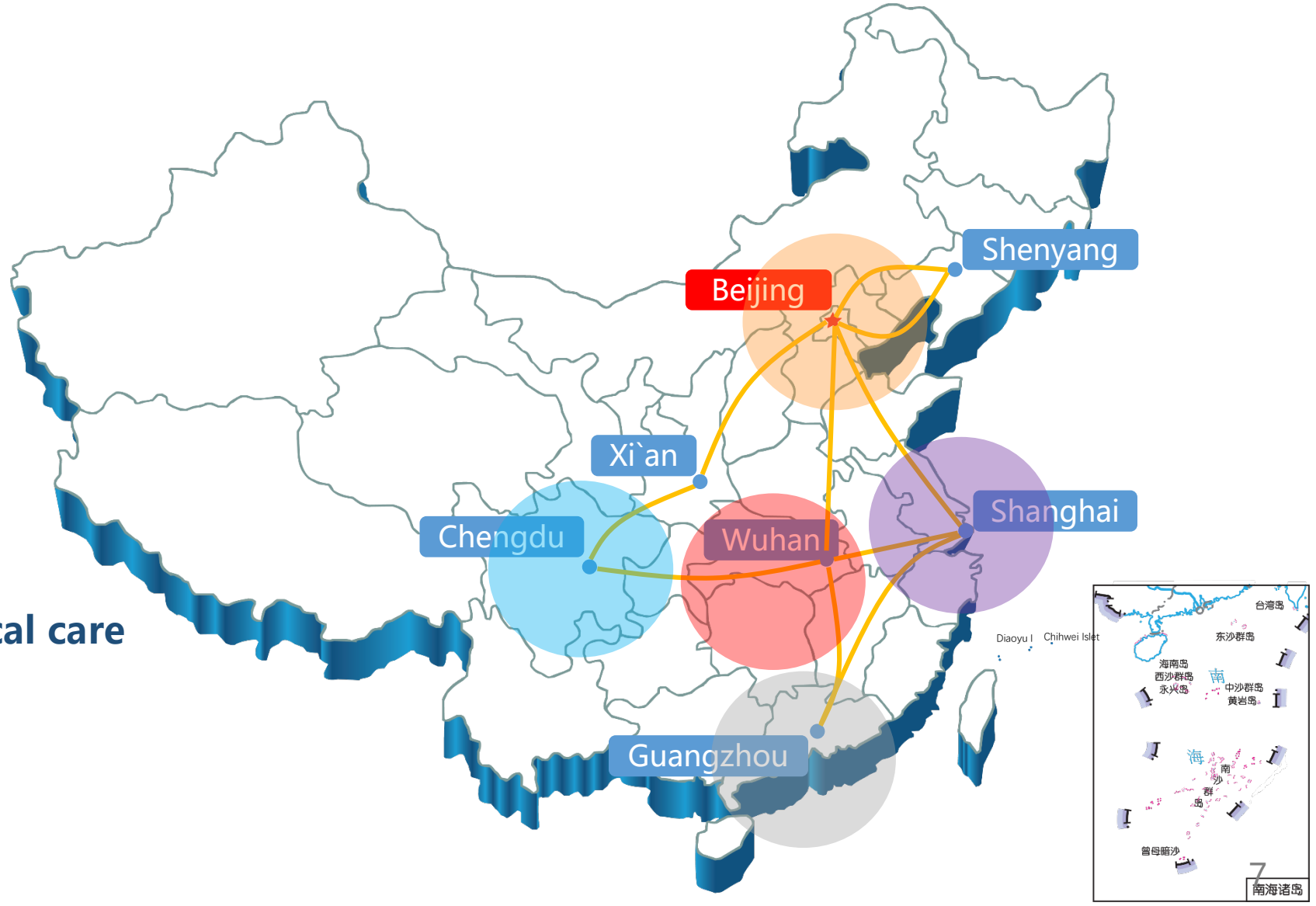
中国科学技术大学

量子网络
QUANTUMNET

The Team of Academician Jian-Wei Pan

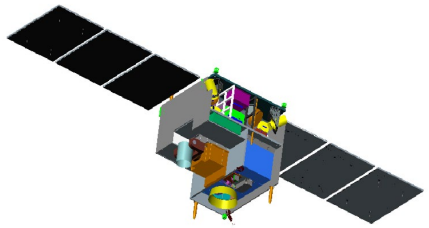
National Wide-area Quantum Secure Communications Backbone Network

- Finance
- Customs
- Health and medical care

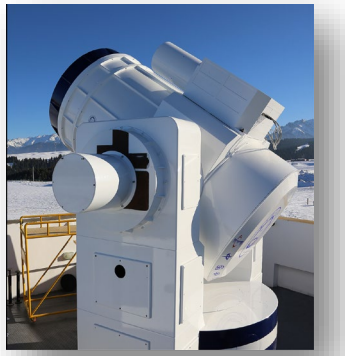


Satellite-based Quantum Network

Micius



- Weight: ~640kg
- Power: ~560W
- Frequency: 100MHz

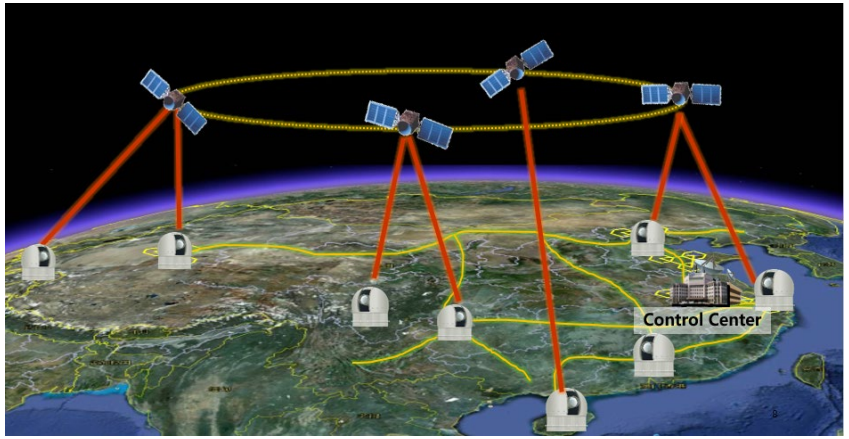


- Weight: ~10 Tons
- Power: ~60kW

Micro Quantum Satellite

- Weight: ~100kg
- Power: ~100W
- Frequency: >300MHz

- Weight: ~100kg
- Power: ~300W



Our Plan

- ~2022: 2 Satellites, 10 Ground Station
- ~2030: 5~8 Satellites, 100 Ground Station

量子网络 QUANTUMNET

- **Becoming a leading international quantum security service provider**
- **Paving the way towards the future quantum Internet**

Thanks