



# Development and Challenges of BDS product Testing and Certification Service

14<sup>th</sup> Meeting of the International Committee on  
Global Navigation Satellite Systems

JiangSu BDS Product Testing Center  
Tao He

2019-12-09

# | C O N T E N T |

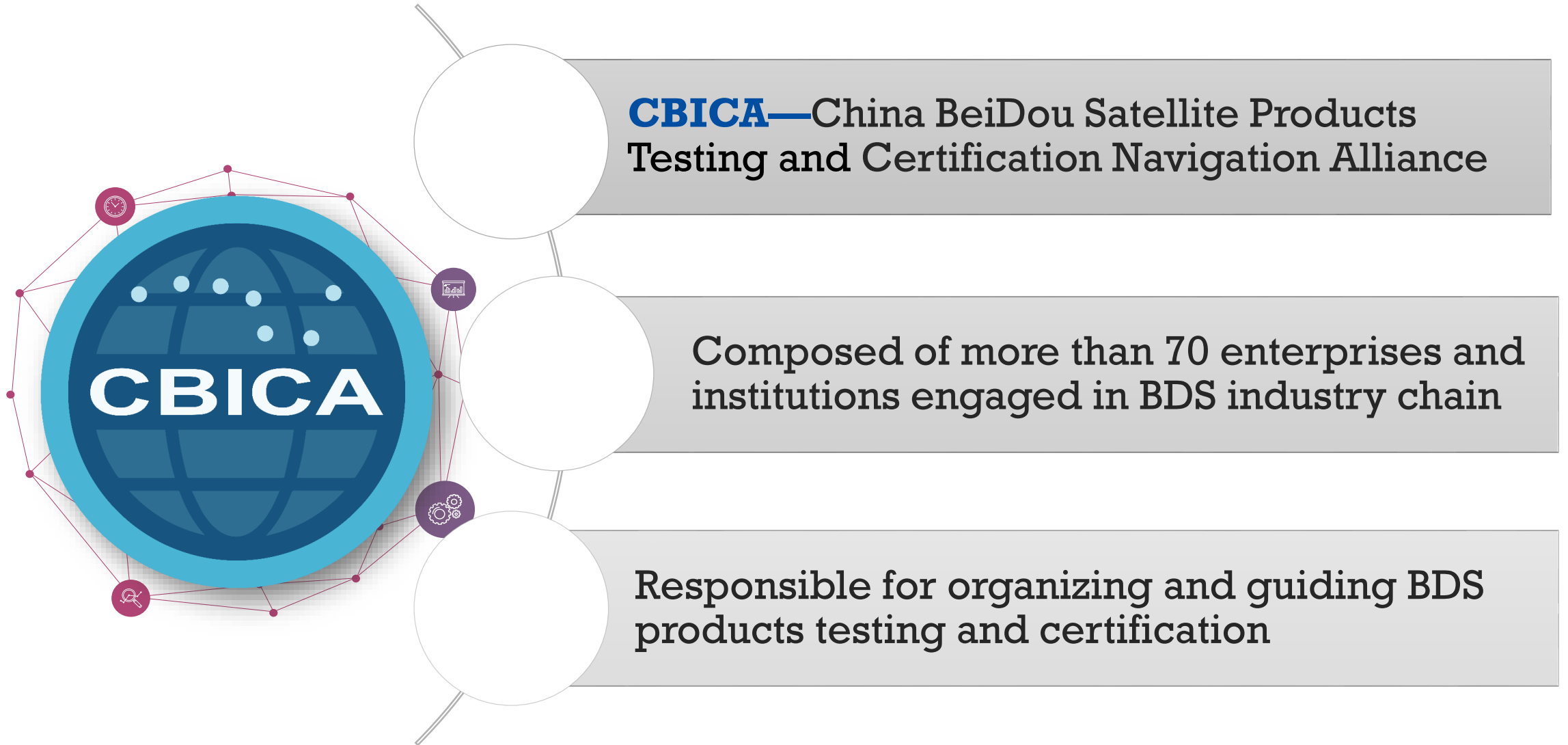
## BDS Product Testing and Certification Service

- 01 Current Status
- 02 Challenges
- 03 Next Step Plan

01

## Current Status

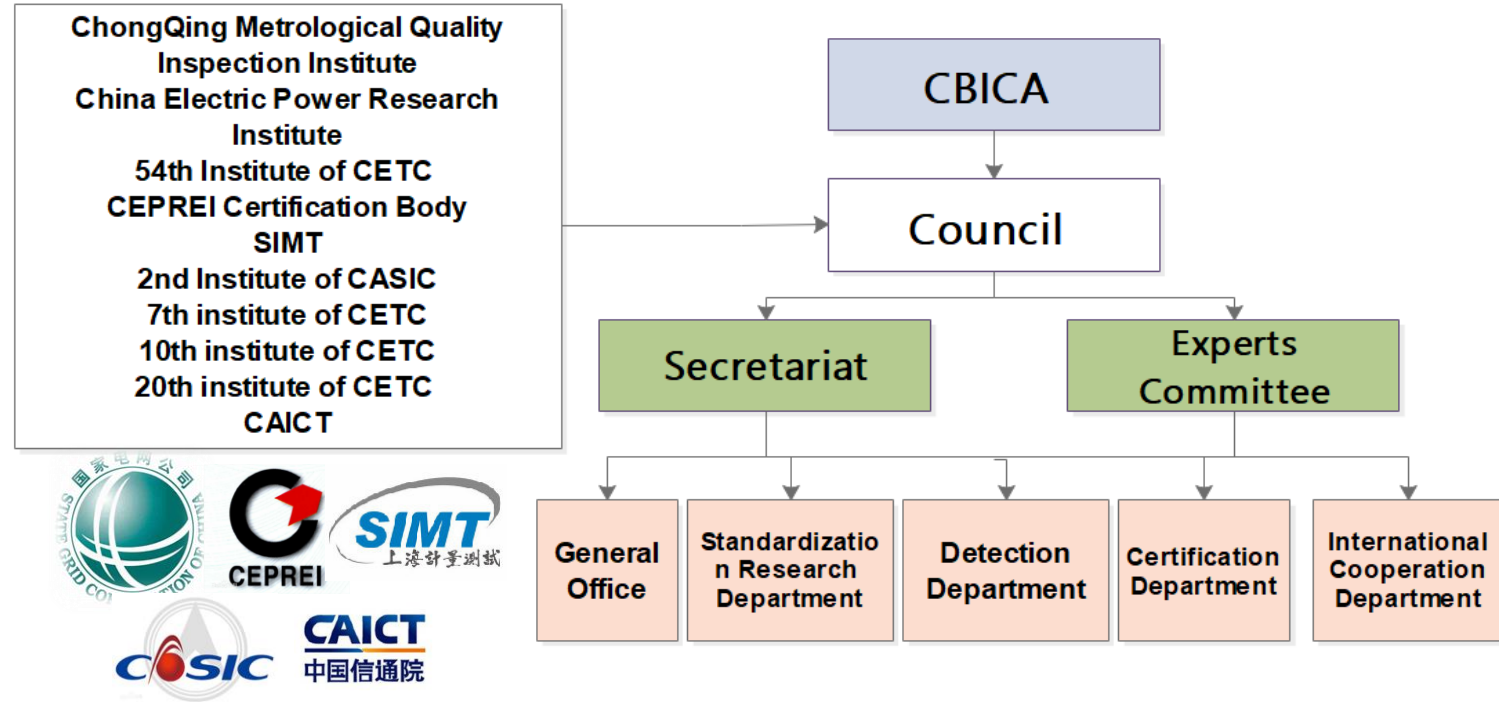
# Certification Organization —— CBICA





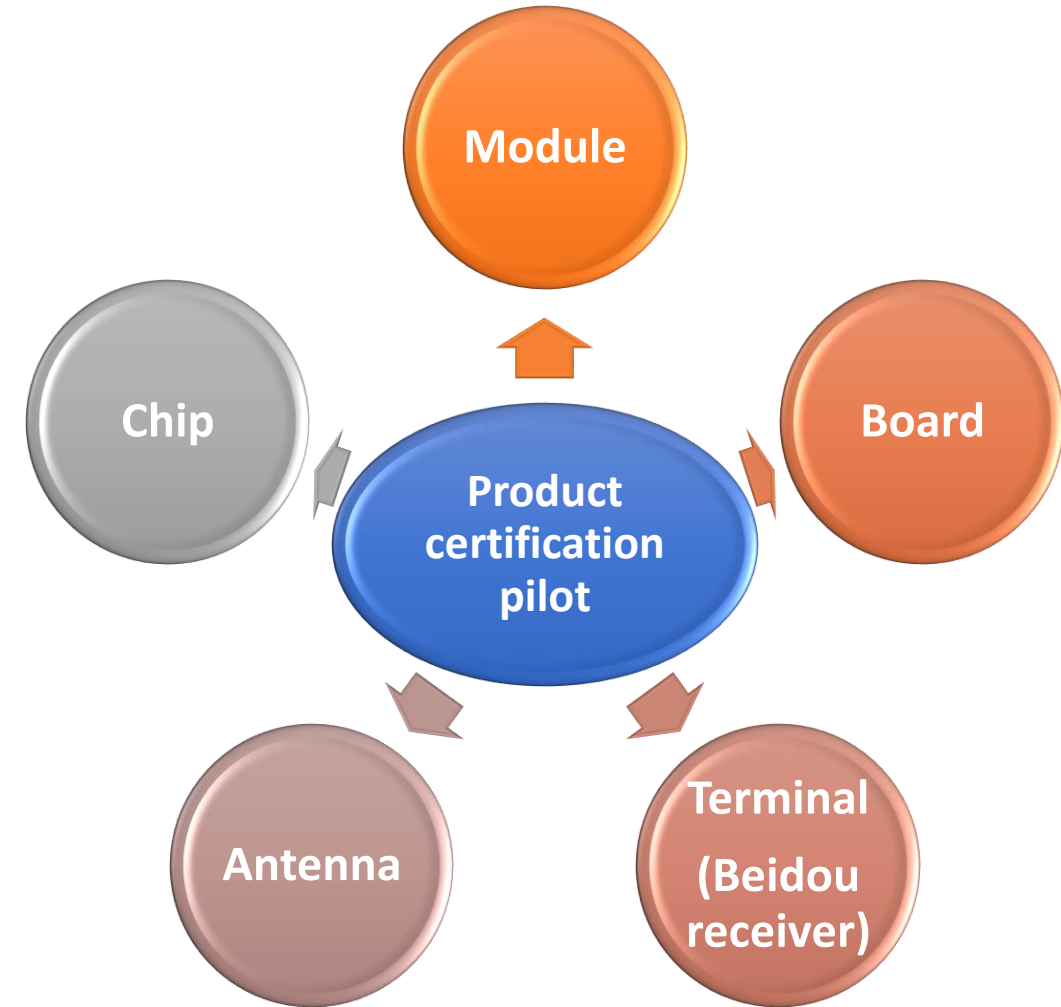
# What is BDS Product Certification?

- **Voluntary Certification**
- Evaluate whether the manufacturer has the ability to continuously and steadily produce BDS products that meet the standard requirements.
- **Certification bodies responsible for certification/Testing Center responsible for testing**
- Improve the overall quality of BDS products and promote industrial development.



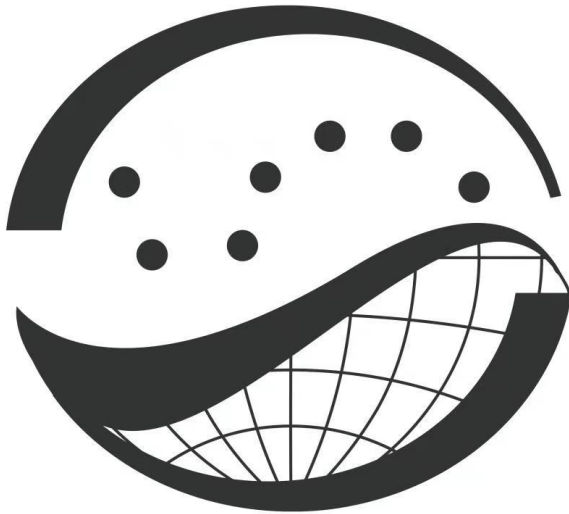
# Scope & Implementing rules of Certification

No.	Product type	Name of implementation rules
1	Chip	Implementation rules for BeiDou navigation satellite products (chips) certification
2	Module	BeiDou Satellite Navigation Product (module) Certification Implementation Rules
3	Board	BeiDou Satellite Navigation Product (Board) Certification Implementation Rules
4	Antenna	BeiDou Satellite Navigation Product (Antenna) Certification Implementation Rules
5	Terminal	BeiDou Satellite Navigation Product (Terminal) Certification Implementation Rules



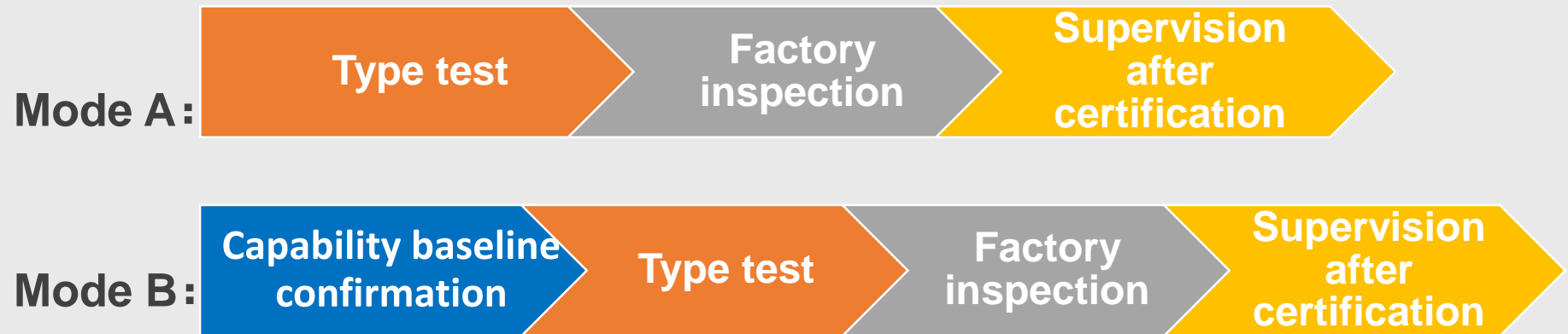
Scope of Certification Pilot

# Certification Mode and Identification



Certification Mark

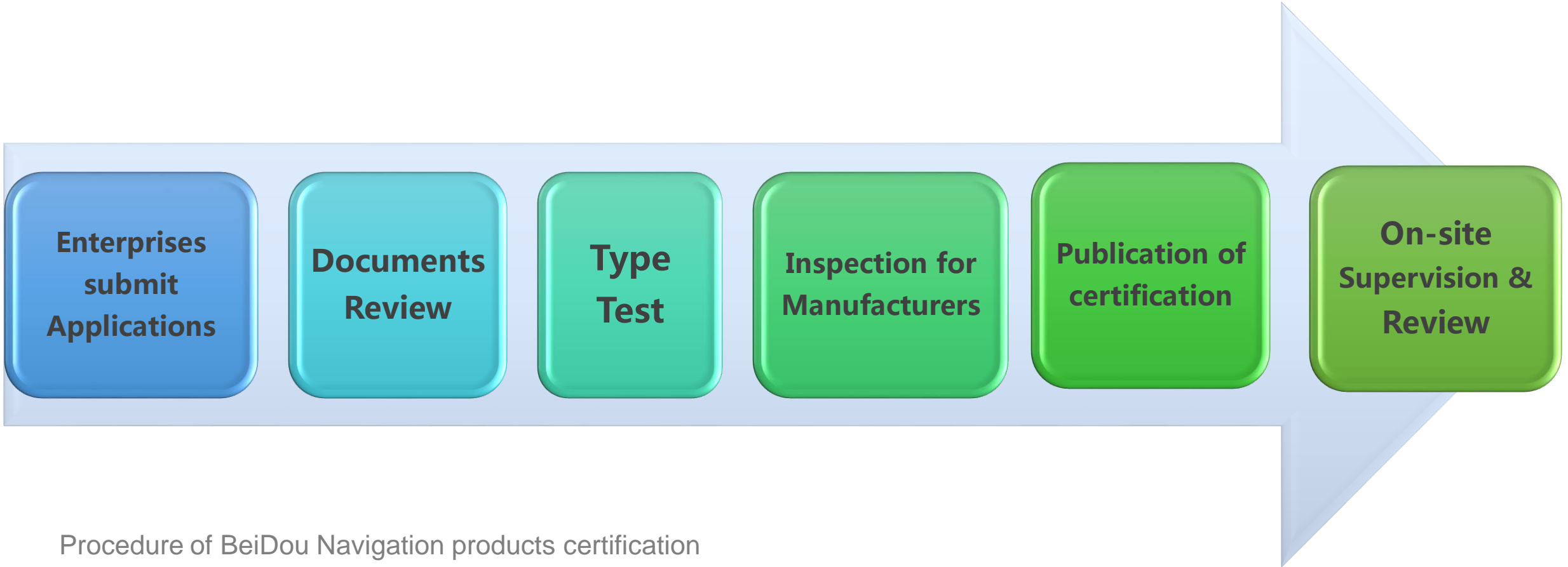
## □ Certification Mode



## □ Authorization of Certification Mark

Authorized and distributed by **CBICA**.

# Certification Procedure



Procedure of BeiDou Navigation products certification



# Certification Pilot

- August 2018, the launch ceremony of **certification pilot work** was held.
- Signed cooperation agreement with the first batch of pilot enterprises.



# 1<sup>st</sup> Batch of Licensed Enterprises in Certification Pilot



Enterprise Name	Product type
Taidou Microelectronics Technology Co., Ltd	Module
Guangzhou Runxin Technology Co., Ltd	Chip
Guangzhou southern surveying and mapping navigation Co., Ltd	Terminal
Shanghai Huace Navigation Technology Co., Ltd	Board
Beidou Tianhui (Beijing) Technology Co., Ltd	Terminal



## Other Certification Work in Progress

- 2019, the certification body of CBICA launched the BeiDou logo certification business for [smartphones and wearable devices](#).



- Relevant test standards have been established. [<Technical requirements and test methods for positioning performance of wearable equipment Part 1: wrist wear equipment> TAF/WG6](#)

- "BeiDou Navigation Satellite Product Testing qualification Report"
- "BeiDou Navigation Satellite Product Certification List"
- Products in the [List](#) will be promoted domestically and internationally.

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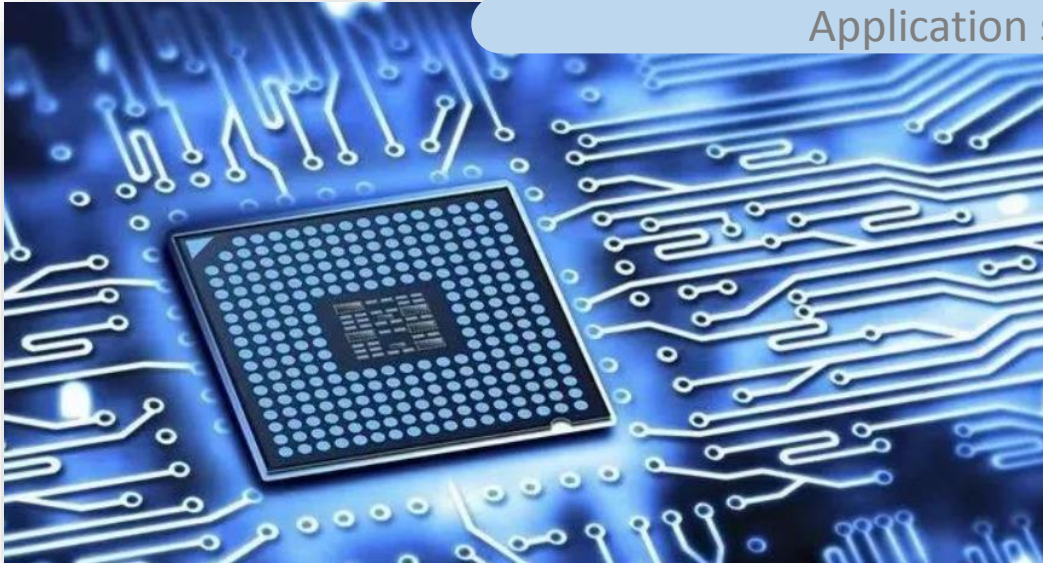
## Challenges

# Technical Challenges

□ Testing and Certification of Multi-technology Fusion Positioning Products



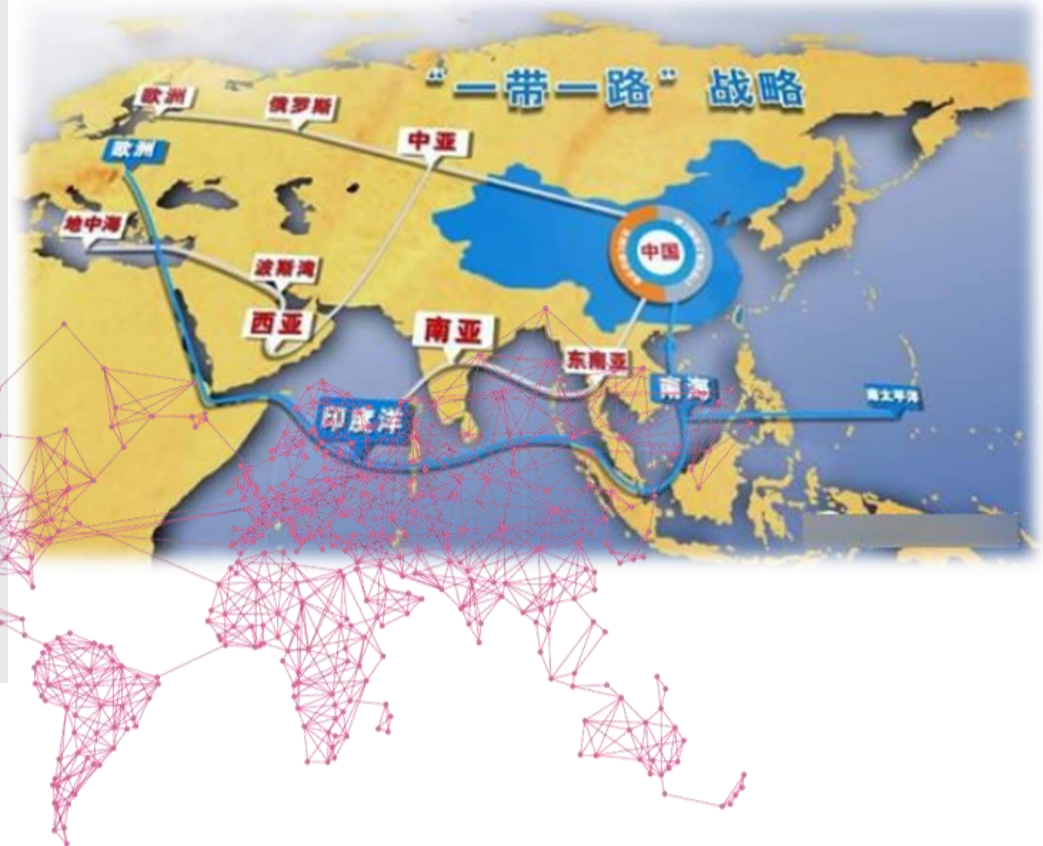
Application scope keeps extending.



□ Testing and Certification of BeiDou Chip Products

# Challenges of Globalization

- Continuously improve the testing and certification service capability of BDS products.
- Realize the international mutual recognition of beidou navigation testing and certification results.



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## Next Step Plan

# Foster More Certification Professionals

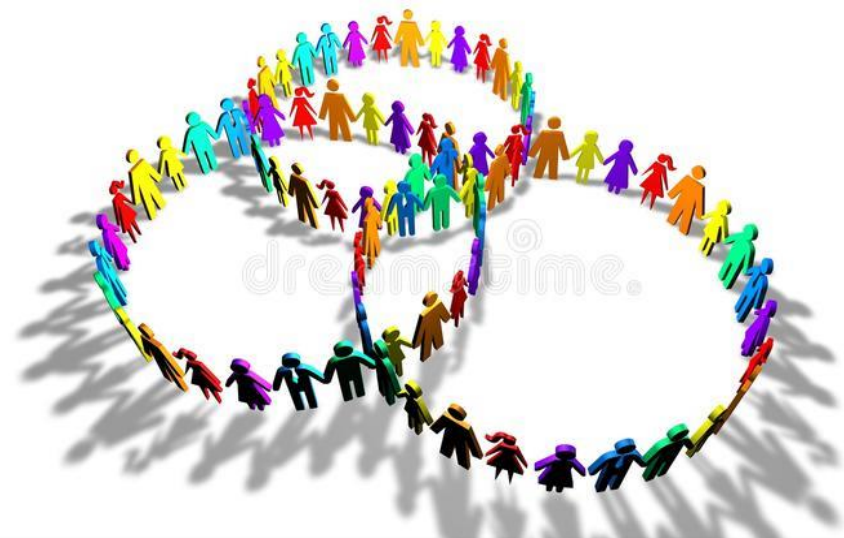
Foster more high-quality BDS products testing & certification bodies.

Establish a system for cultivating BDS certification institutions.

Cultivate a group of BDS products testing & certification personnel with strong technical capabilities.



# Standards and Communication



**Unify and improve the scientific, accurate and consistent characteristics of BeiDou related testing and certification standards, test methods and statistical methods**



**Strengthen publicity, implementation, training and international exchanges on BeiDou satellite navigation standards.**



## Conclusion

**Through the BDS products voluntary testing and certification, committed to promote quality management of enterprises, improve products quality.**