



National Land Surveying and Mapping Center

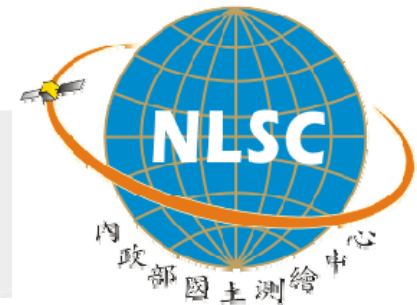
*The e-GNSS real-time
kinematic positioning system
in Taiwan*



National Land Surveying and mapping Center

Ministry Of the Interior

National Land Surveying and Mapping Center
M.O.I.



- ❖ Geodetic survey
- ❖ Topographic and hydrographic map
- ❖ Cadastral survey
- ❖ Geospatial information & map

Taiwan's network RTK system - e-GNSS

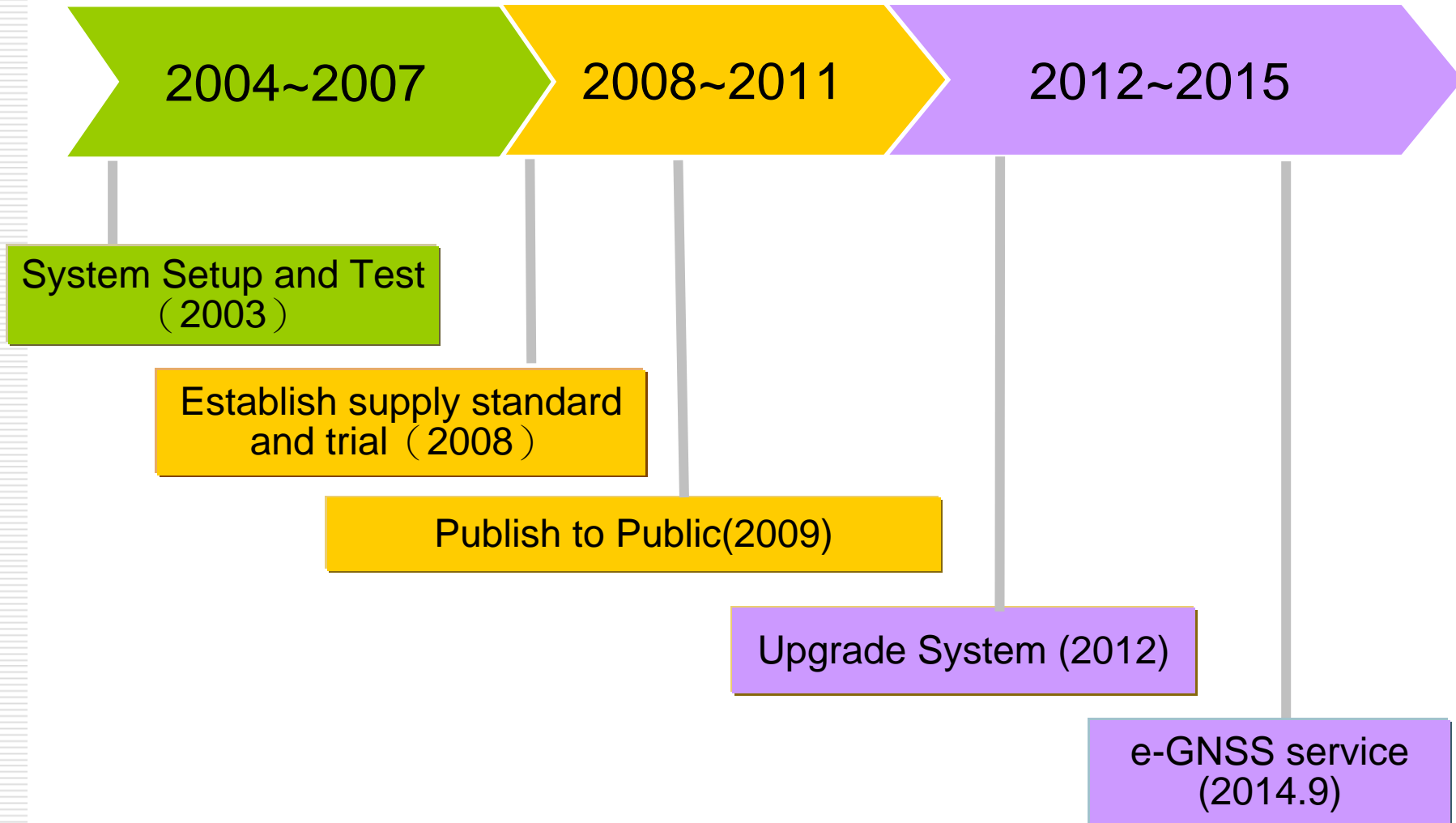
❖ Main Purpose

- Provide real-time positioning service.
- upgrade domestic surveying technology.

❖ Development Brief

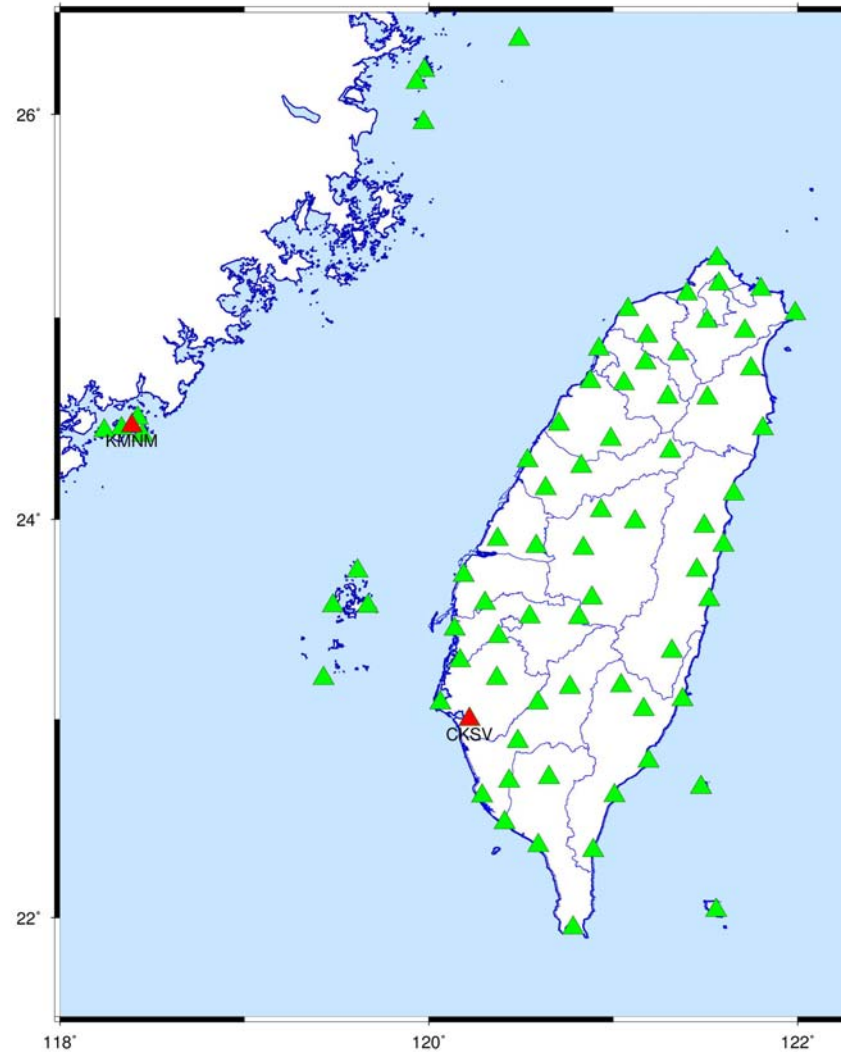
- System planning and test analysis from 2003.
- Established system in 2006.
- Service covers Taiwan, Penghu, Kinmen, Matsu.
- 78 CORS online operation.
 - Total Funds is about 2 million USD.

e-GNSS Development Briefs

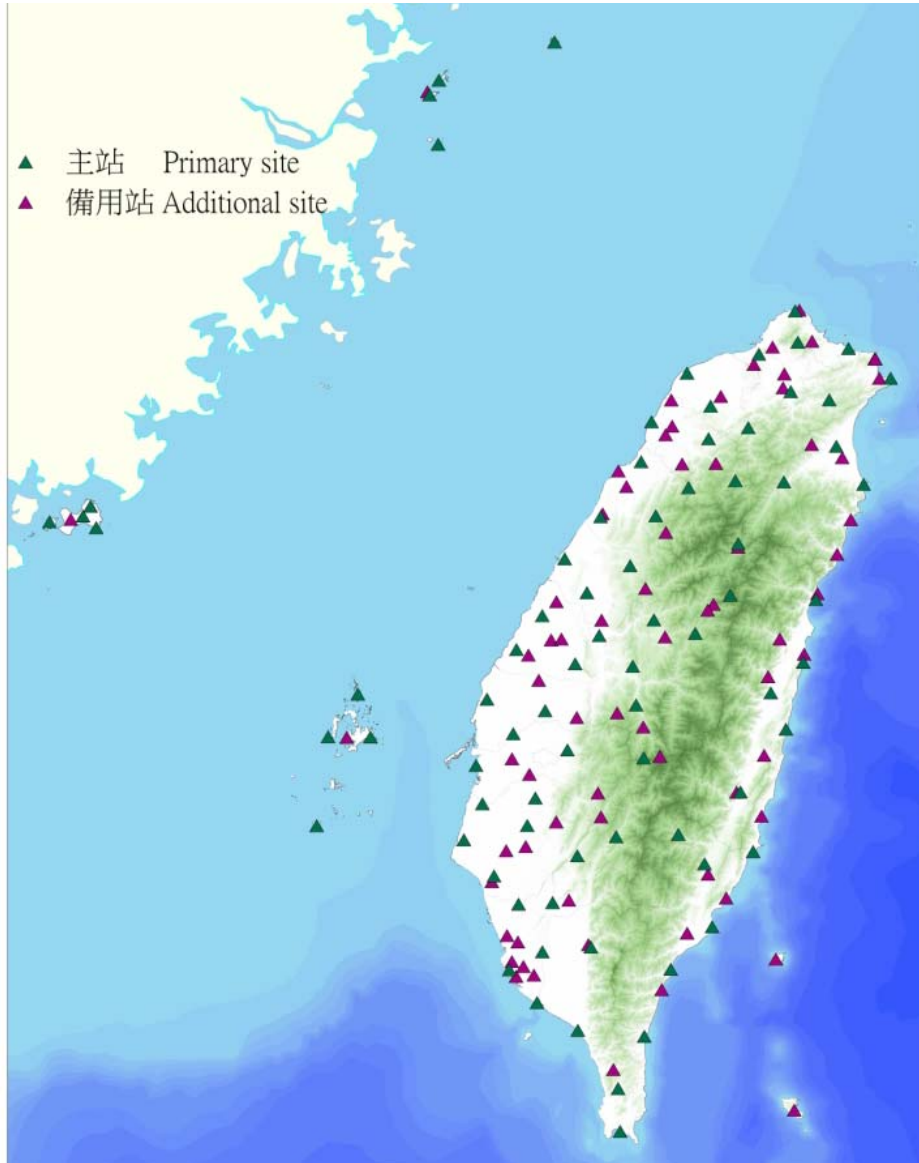


e-GNSS Base Station Network

2 CORS in IGS



CORS Redundancy



Primary site	Additional site
78	73

e-GNSS Base Station Facility

Basic devices on the stainless pillar equipment rock



e-GNSS Control and Computation Center reinforced concrete deep drilled braced



e-GNSS system service

Real-time Kinematic Positioning :

1. *VRS-RTK (2cm)*
2. *Net-Work DGNSS (50cm)*

Provision Of CORS Data :

1. *Physical base station data (RINEX)*
2. *Virtual base station data (RINEX)*

Observation Data Post-process :

Post-process with VRS-RTK positioning technology

RTK Monitor Web

即時監控
 歷史軌跡
 報表輸出
 登入登出

地圖重置

帳號: XA02

起始日期: 2015/07/1 00:00:00

結束日期: 2015/07/27 09:19:00

詳細資訊查詢 查詢歷史軌跡


查詢列表

XA02 詳細資訊 刪除

2015/07/1 00:00:00 - 2015/07/27 09:19:00

帳號: XA02 總筆數: 31筆

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3	2015/07/08 10:13:53	119.5975°	23.5343°	定位
4	2015/07/17 15:06:11	119.6167°	23.5506°	定位
5	2015/07/09 09:04:51	119.5784°	23.5606°	定位
6	2015/07/21 09:13:11	119.6028°	23.5634°	定位
7	2015/07/01 15:05:27	119.6355°	23.5642°	定位
8	2015/07/21 15:05:18	119.5993°	23.5660°	定位
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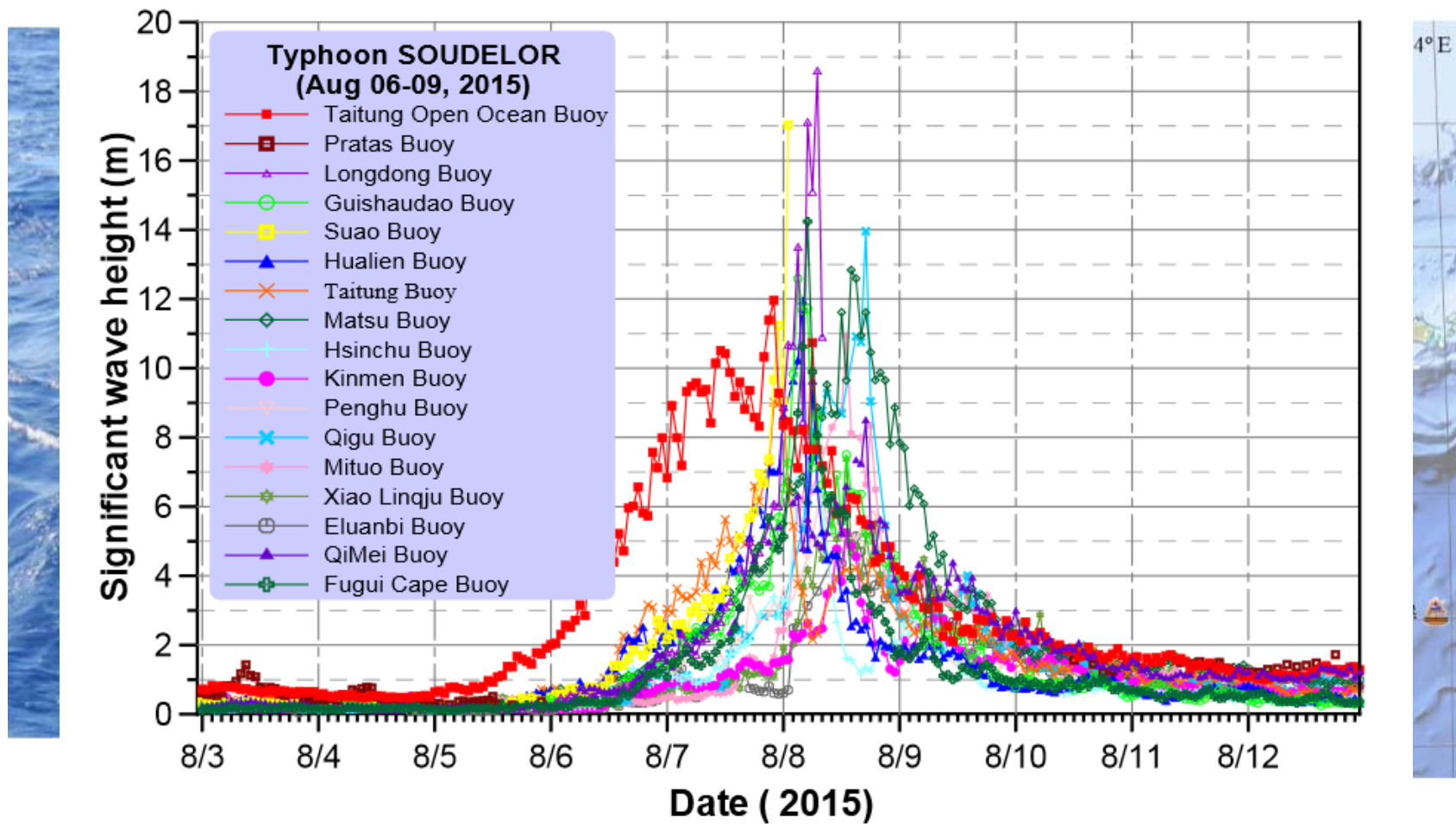
內政部國土測繪中心
國土測繪圖資網路地圖服務

內政部國土測繪中心 電話: (02) 2222-9911(夜線) 地址: 10972臺北市內政部國土測繪中心路4段27號

Cadastral Surveying、Topographical Surveying



Real-time Observation of Tide



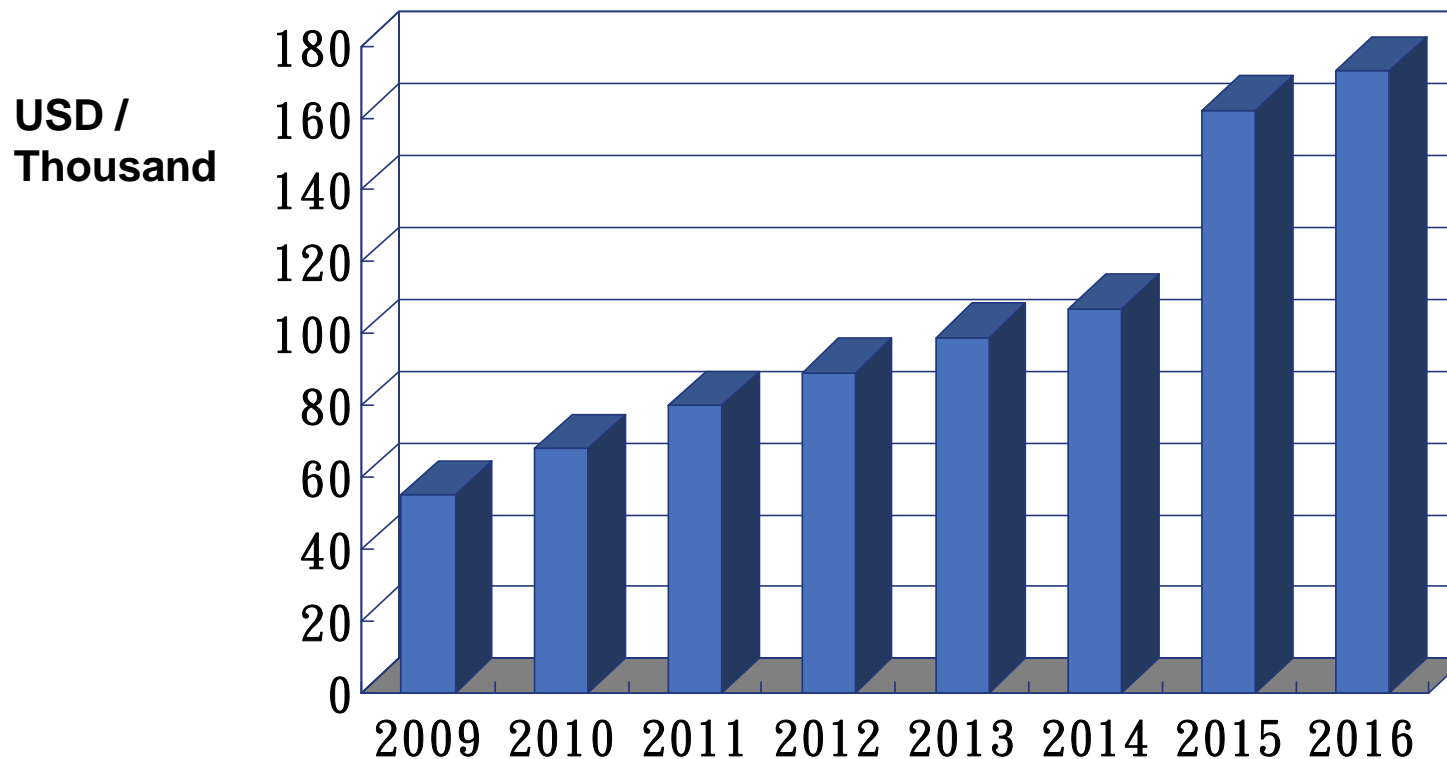
For education training

- ❖ Provides free accounts for education training



e-GNSS operation performance

- ❖ Provided e-Service since 2009. 227,000 accounts.
- ❖ there are about 120~150 accounts every working day. For government agencies & corporations. The highest online users at the same time is about 50.



Thanks for
your attention

