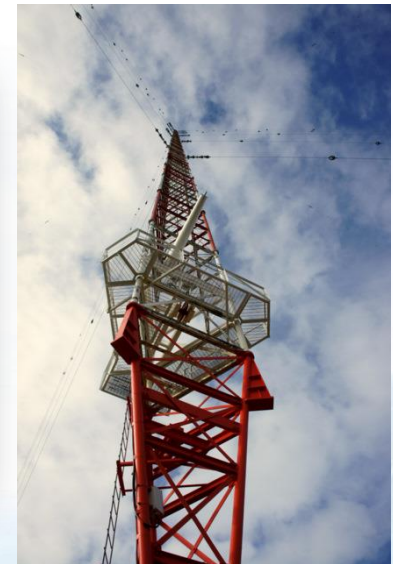


Development Status of Korea eLoran



R-Mode Intersessional Meeting
(IALA HQ, Feb. 9, 2016)

1. Background

- S. Korea experienced intentional GPS jamming attacks over the past 3 years (2010–2012)
- **Most recently**, N. Korea would consistently increase tensions on the Korean peninsula and in the area (Nuclear weapons & Ballistic missiles tests, ...)
- eLoran will be one of the most cost effective backup infra for wide range of applications that are becoming increasingly reliant on the PNT provided by GNSS
- Korea eLoran Development Program (1st Round, 2013–2015)
 - MOU on Technical cooperation between DfT(UK) and MOF(Korea) (Dec. 2013)
 - Several international biddings for Korea eLoran had been failed (2013–2014)
 - eLoran system requirement :
(Budget–34M€, 2 new stations, 1 station upgrade, 1,000 KW power, 20m accuracy in land)
 - Contract on Korea eLoran Development (Oct. 2014)
 - Contractor abandoned Korea eLoran Development business (June 2015)

2. The way forward

- **(New) Korea eLoran Development Program (2nd Round, 2016 –)**

- To be positively necessary as a GNSS backup
- eLoran policy change (Introduction of foreign machinery → R&D with domestic technologies + Technical cooperation if necessary)
- Program Budget : Total 9M€
- R&D Period : 4 years (Apr.2016 – 2020)
- Final Objective : Core Technology Development, TestBed building, Performance verification

Advancement of integrated GNSS/eLoran Receiver

- Announcement of RFP (Jan–Feb, 2016) → Selection of R&D leading Institute (Mar, 2016)