

Industrial Collaboration between Japan and Europe

16 December 2021

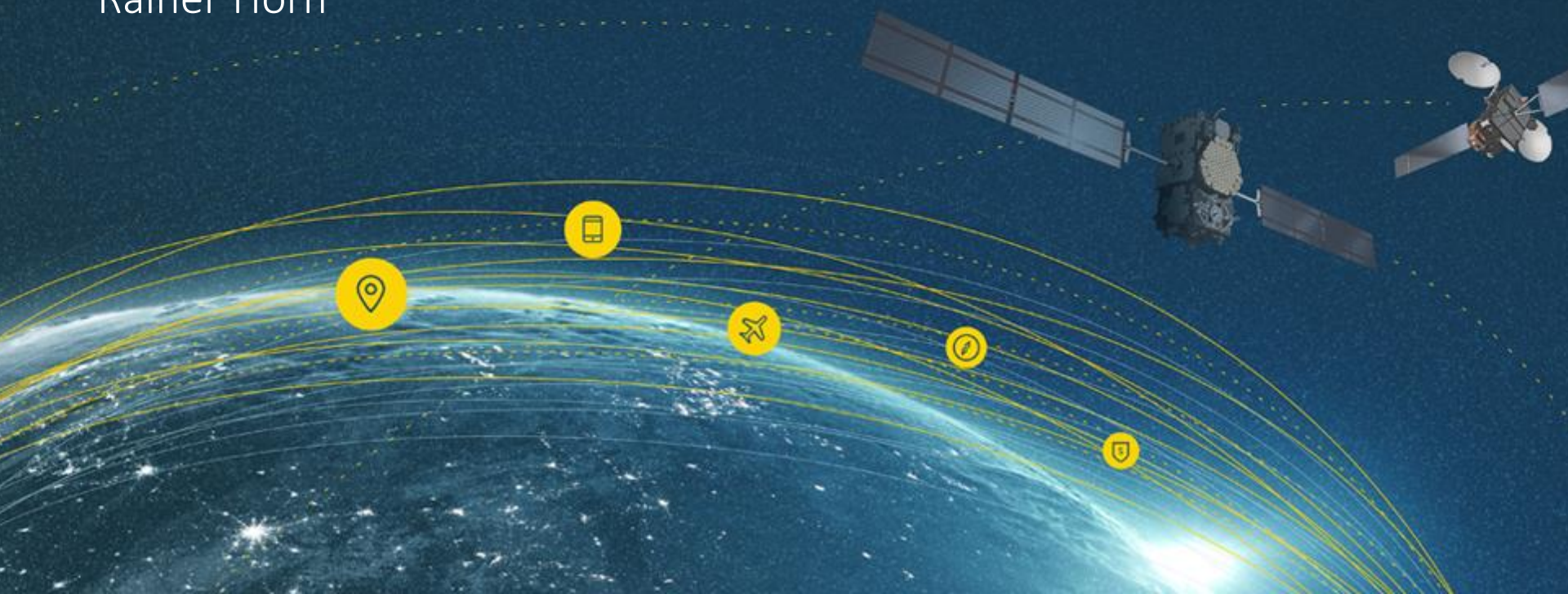
Rainer Horn

GNSS. asia



European
Global Navigation
Satellite Systems
Agency

HORIZON 2020



Who is GNSS.asia?



Funded by Horizon 2020



Running since 2012



3 main objectives



Leverage industrial cooperation across continents

GNSS.asia aims to stimulate the creation of partnerships through **industrial matchmaking** and **outreach events**. These include workshops, industry seminars, delegation visits and roundtables.



Support institutional relations

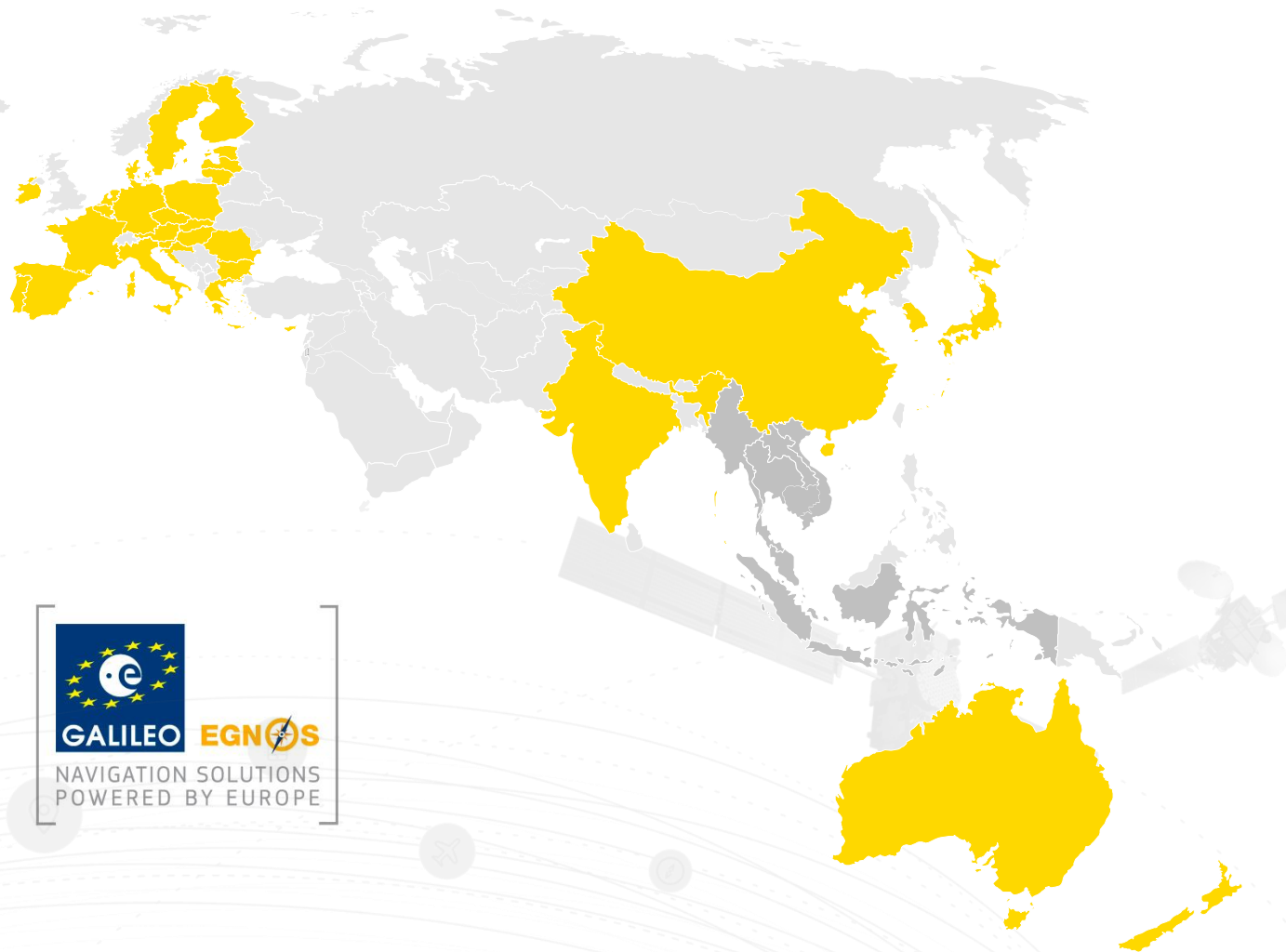
Via a network of local institutional partners, GNSS.asia can support EU and Asia-Pacific civil institutions in their aims of **cooperation** and **standardisation**.



Drive EGNSS adoption

GNSS.asia promotes the benefits of **Galileo** and **EGNOS** as service enablers and performance enhancers in the multi-GNSS hotspots of Asia-Pacific.

GNSS.asia drives Galileo adoption in Asia

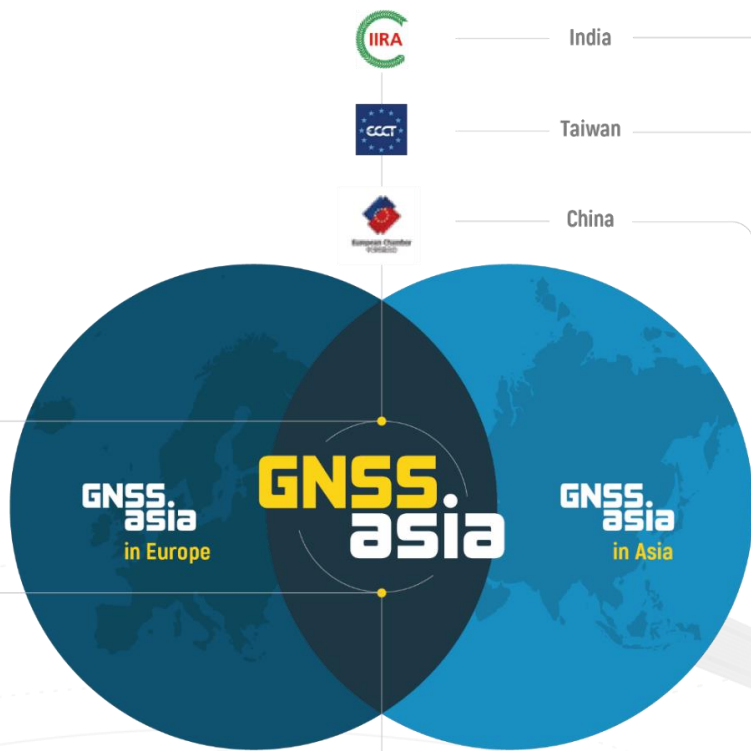


GNSS.asia networks in Asia

Industry



Institutions



India

Taiwan

China

South Korea

Japan

Australasia

INSTITUTIONS

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● Past events from GNSS.asia



5th
EU-Japan
GNSS
Roundtable

25-26 November 2021

The poster features a dark red background with a network of white lines and nodes. Various icons representing GNSS, communication, and technology are scattered across the scene. A large blue rectangle contains the event title and dates.



GNSS.asia
www.gnss.asia

EU-China Online Industry Workshop
An Insight into China's GNSS Market

Friday 4 December
10:00 CET / 17:00 CST

Tiaohua Qi
GNSS Asia China
European Union Chamber
of Commerce in China

Daofei Xu
GNSS Asia China
National Vice Chair
Standards and Conformity
Assessment Working Group,
European Union Chamber
of Commerce in China

The poster has a dark background with a red and yellow color scheme. It features a globe and various icons related to GNSS and industry. Two circular portraits of the speakers are prominently displayed.



EU-ASEAN
Workshops
by **GNSS.asia**

**Using EU Space Data
for Emergency & Maritime
Applications in ASEAN**

25-26 March

Session on **Emergency Applications**
25 March 2021 | 10 AM CET | 4 PM ICT

Session on **Maritime Applications**
26 March 2021 | 10 AM CET | 4 PM ICT

Logos for GISTAR, ARTSA, COORDUS, and others are visible at the bottom.

The poster features a dark background with a yellow and white color scheme. It includes icons of a satellite and a ship, and a stylized wave graphic.



GNSS.asia
www.gnss.asia

EU-Taiwan Online Industry Workshop
**GNSS for Unmanned
Traffic Management**

Tuesday 19 January
9:30 CET / 16:30 CST

register now

The poster has a dark background with a blue and yellow color scheme. It features a large image of a drone flying over a city skyline.

○ The 5th EU-Japan GNSS Roundtable



Organised by the European Commission and the
Cabinet Office, Government of Japan

Supported by **GNSS.asia** and **EUSPA**

“GNSS is one of the most important infrastructures for today's world.”

- K. Numata, Director of the QZSS Strategy Office

“Events such as the EU-Japan GNSS Roundtable are very useful for companies from both Europe and Japan to exchange ideas and build new cooperations.”

- Fiammetta Diani, EUSPA

“Augmentation Systems like QZSS, SBAS & EGNOS are essential in achieving autonomous driving”

- Youichi Sugimoto, Executive Chief Engineer at Honda Motor Co. Ltd

○ The 5th EU-Japan GNSS Roundtable



Enhance the public-private dialogue



Promote business cooperation



Bring together established as well as new industry actors

153 Registrations

20 Speakers

3 Panel Discussions



- Industry
- Consulting
- International Organisation
- Institution
- Start-up
- Academia
- Space Agency
- Other
- Public Sector

Setting the Scene

Strengthening the EU-Japan Partnership



Thierry Breton @ThierryBreton · 23. Jan. 2020
1st anniversary of the EU-#Japan partnership agreement

We are #allies sharing the same values & vision of the world's evolution.

Together we cherish the importance of long-term #cooperation.

➡️ will come personally to Japan to enhance our joint #sovereignty interests.



5 40 107



GNSS.asia in Japan



EU Space

Satellite Navigation



Earth Observation



Secure Connectivity



Space situational awareness



Galileo is Europe's **Global Navigation Satellite System (GNSS)**, providing improved positioning and timing information with significant positive implications for many European services and users.



Galileo Differentiators

- ✓ **Fully interoperable** with other GNSS constellations
- ✓ Open service **free of charge**, delivering **multiple frequencies**
- ✓ Modern signal is more **resistant to multipath**
- ✓ Global **high-accuracy service** for free delivering down to 20 cm accuracy
- ✓ Only constellation that provides **signal and data authentication**

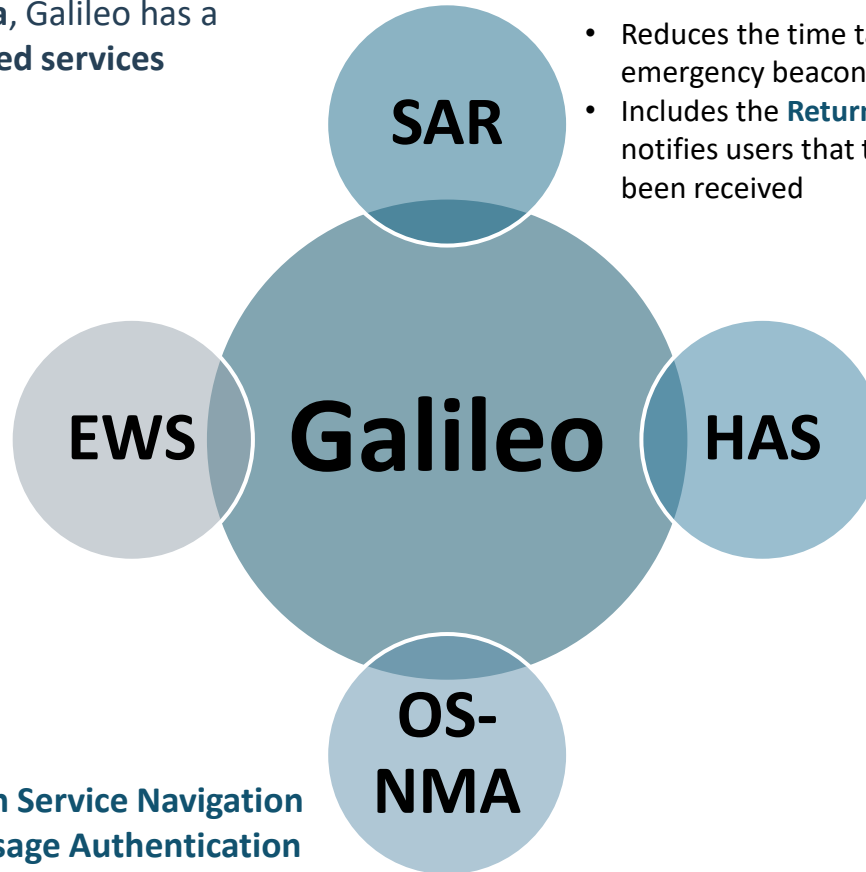
Galileo services

More information:
www.usegalileo.eu

Besides offering **open access to precise positioning and timing data**, Galileo has a wide portfolio of **value added services**

Emergency Warning Service

- Leverages Galileo's messaging function
- Transmits alerts to smartphones within affected areas without relying on ground infrastructure



Search and Rescue Service

- Reduces the time taken to locate emergency beacons
- Includes the **Return link service** that notifies users that their distress signal has been received

High Accuracy Service

- Reduces positioning errors to below 2 decimetres
- Based on the free transmission of Precise Point Positioning

Open Service Navigation Message Authentication

- Ensures the authenticity of circulating GNSS information
- Enables higher-than-before levels of service robustness
- Complemented through the **Commercial Authentication Service** that allows access to the encrypted E6-C codes

Galileo constellation

More information:
www.usegalileo.eu

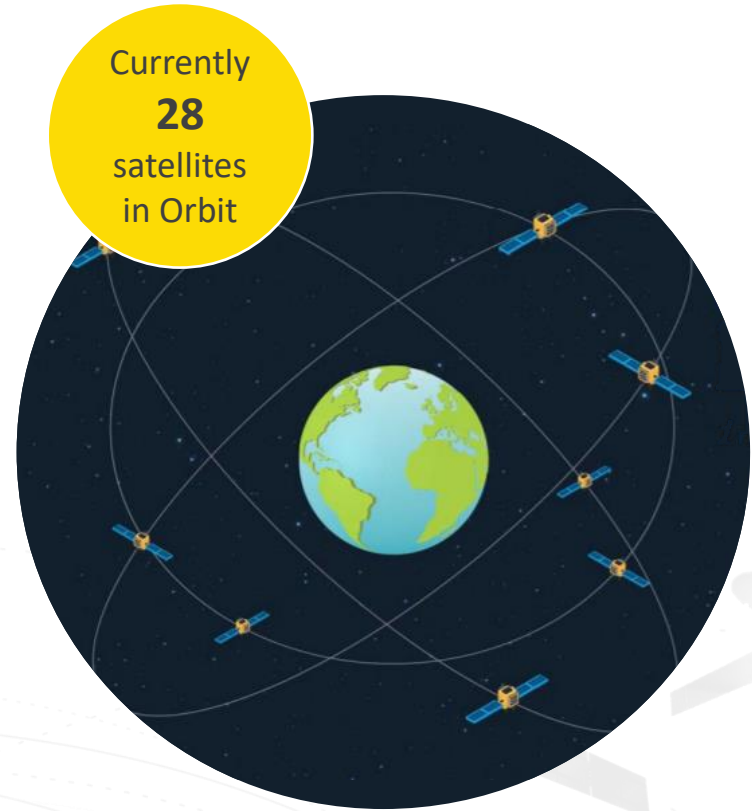
Once fully deployed:

30 satellites
24 operational
+ 6 orbit spares

in 3 Medium Earth Orbit
(MEO) orbital planes:

23.200 km

Currently
28
satellites
in Orbit



More **reliable coverage** through satellites located in a higher orbit

Galileo authority and reports

More information:
www.usegalileo.eu

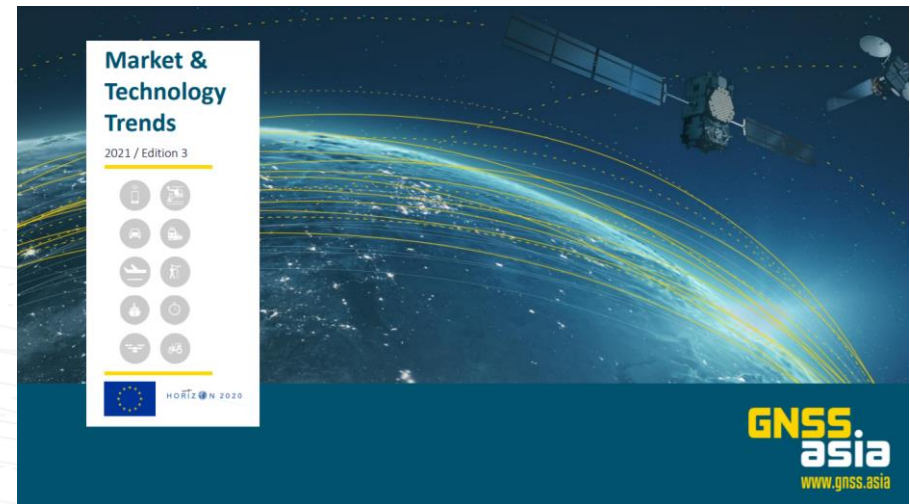


Designed specifically for civilian applications & managed by civil authorities

GNSS Market Report from EUSPA



Market & Technology Trends Report from GNSS.asia



○ The European Union Agency for the Space Programme



EUSPA is responsible for Galileo and the user-oriented operational Agency of the EU Space Programme, contributing to **sustainable growth, security and safety** of the European Union. By fostering the development of innovative and competitive upstream and downstream sectors and engaging with the entire EU Space community worldwide, EUSPA is **driving innovation-based economic growth**.



Find out more!

Community: hub.gnss.asia

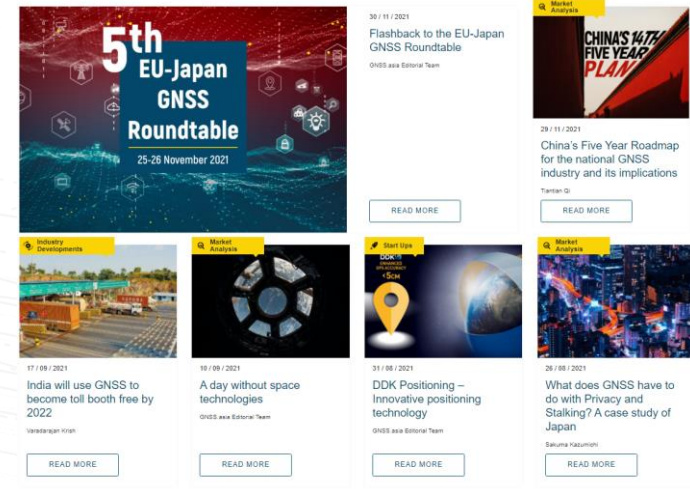


Website: www.gnss.asia



The Hub at a glance

- Profit from GNSS.asia services free-of-charge
- Showcase your business on the marketplace
- Book B2B, B2C & B2G meetings anytime anywhere
- Join inspiring keynotes, plenary session, workshops and much more



● Contact the Team



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