



# EGNOS Services Status

Rome 24/Sep/2019



24/09/2019



EGNOS Annual Workshop 2019

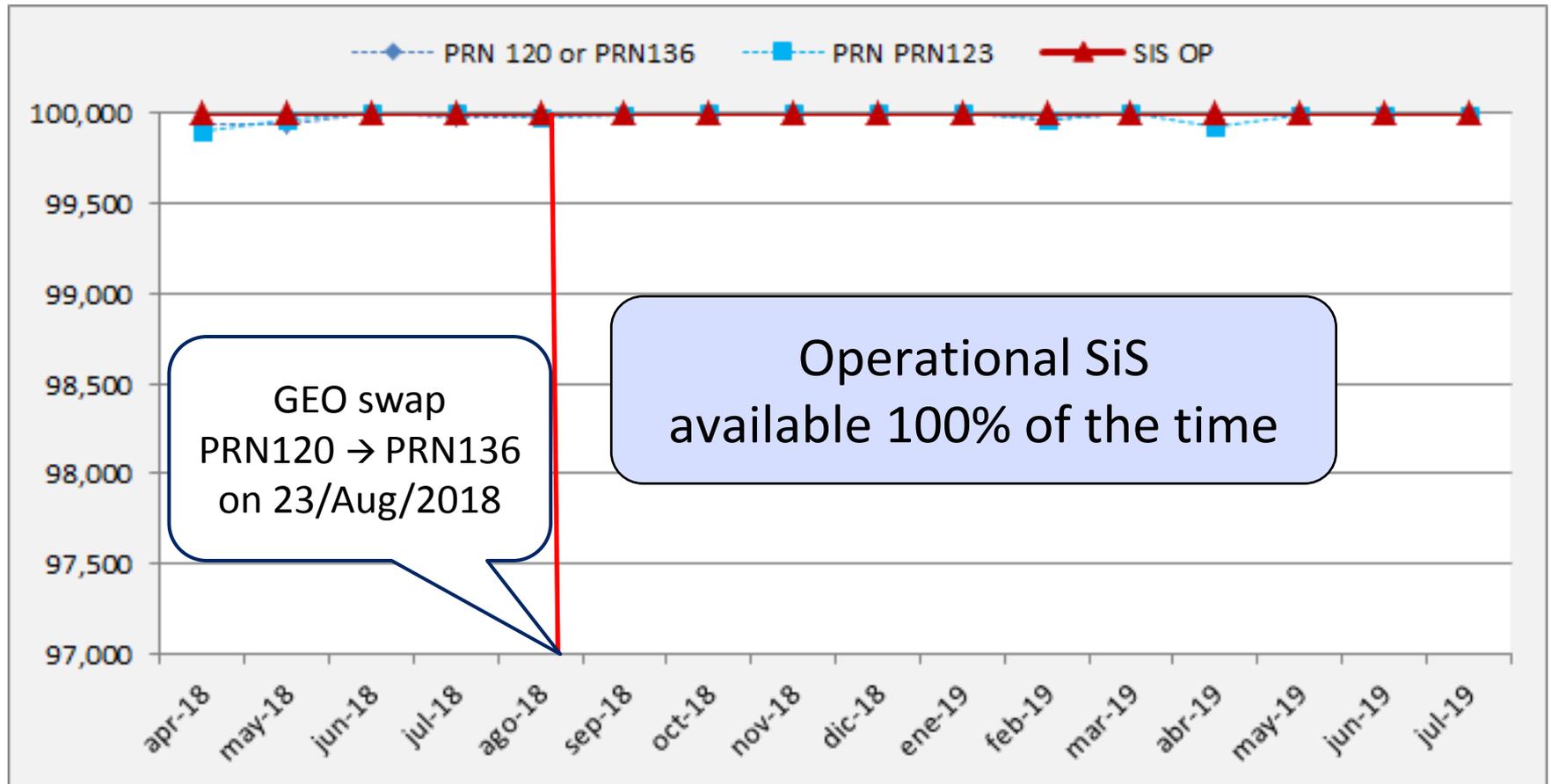
# EGNOS Services Status

- Signal in Space Availability
- EGNOS Safety of Life Service
- EGNOS Open Service
- EDAS Service
- User Satisfaction Survey Results

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# Signal in Space Availability

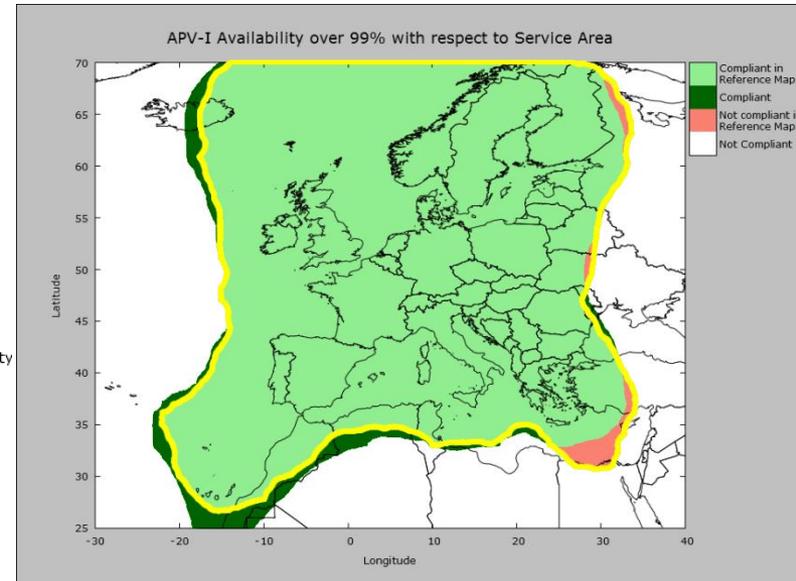
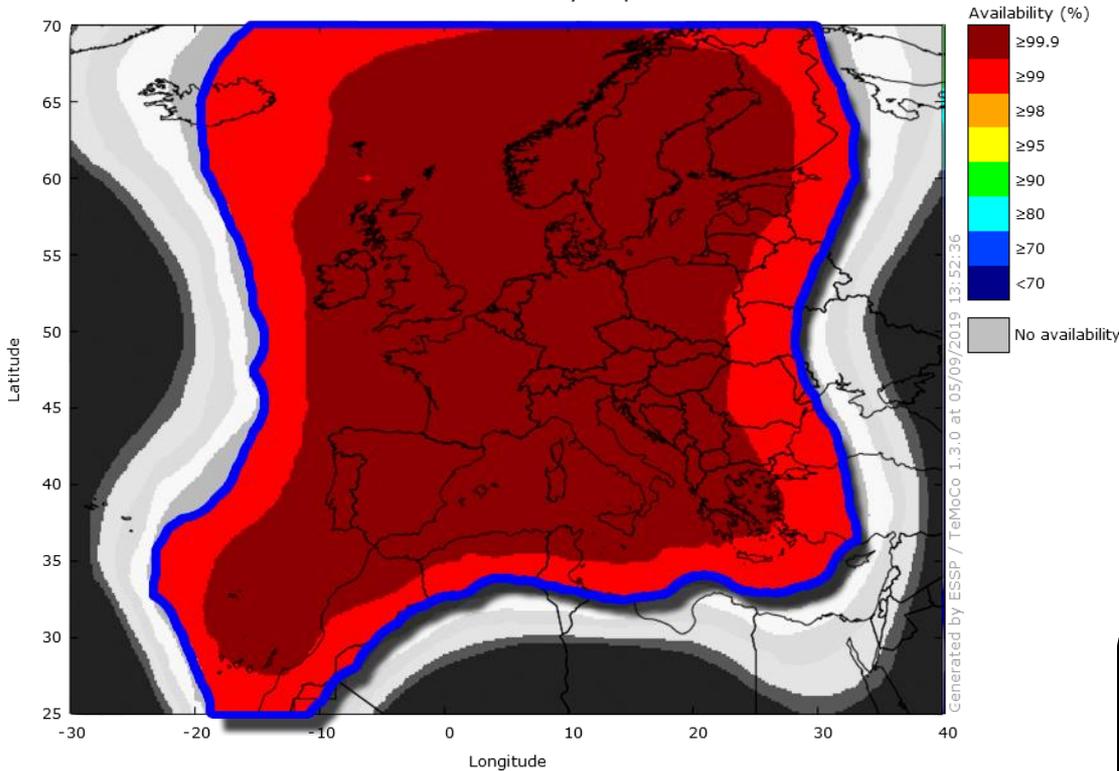


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# EGNOS SoL: APV-I Availability

SIS Op - 01/04/2018 00:00:00 to 31/07/2019 23:59:59  
APV-I Availability Map



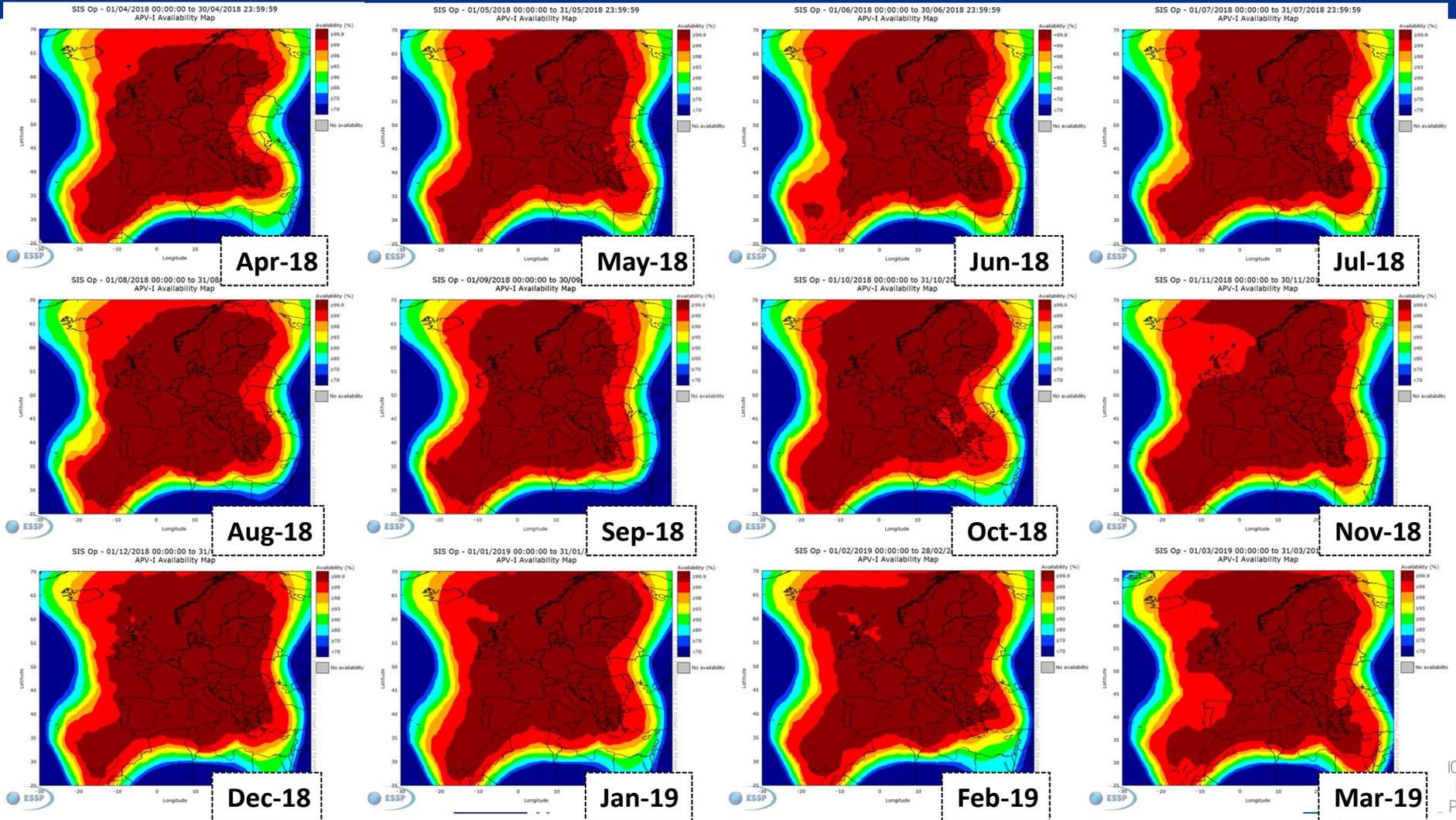
Compliance except in the East and South-East

# EGNOS SoL: APV-I Availability at airports with LPV procedures



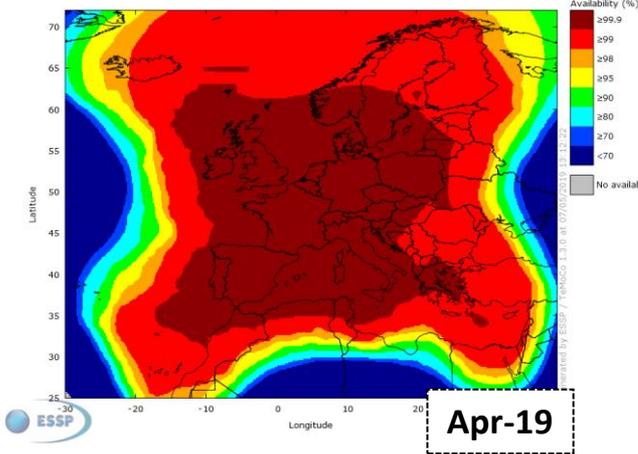
Compliance at all airports  
(from 01/Apr/2018 to 31/Jul/2019)

# EGNOS SoL: APV-I Availability trend monthly maps

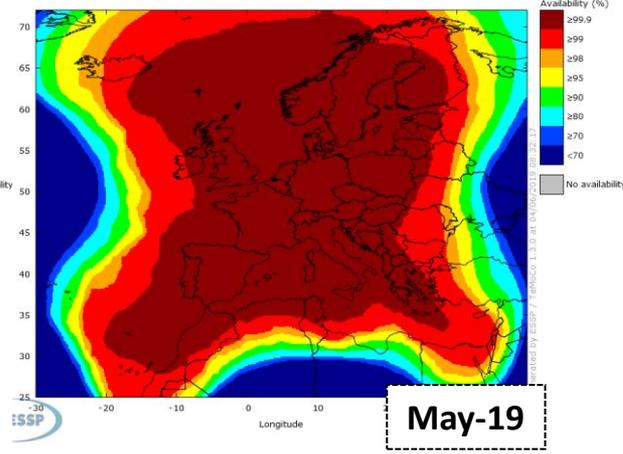


# EGNOS SoL: APV-I Availability latest months

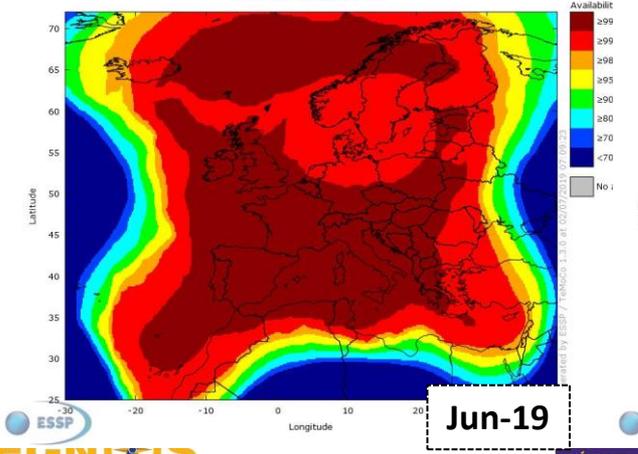
SIS Op - 01/04/2019 00:00:00 to 30/04/2019 23:59:59  
APV-I Availability Map



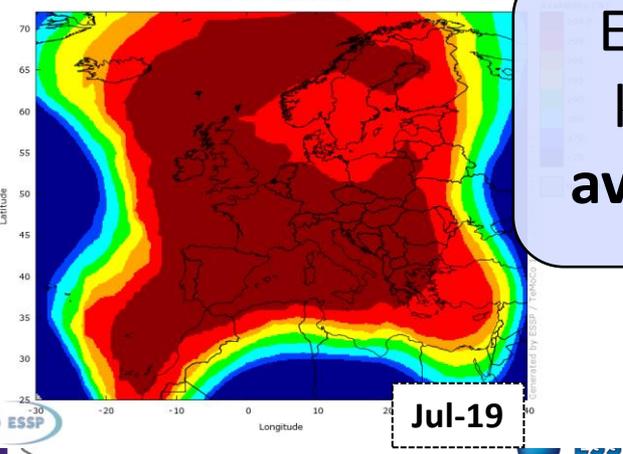
SIS Op - 01/05/2019 00:00:00 to 31/05/2019 23:59:59  
APV-I Availability Map



SIS Op - 01/06/2019 00:00:00 to 30/06/2019 23:59:59  
APV-I Availability Map



SIS Op - 01/07/2019 00:00:00 to 31/07/2019 23:59:59  
APV-I Availability Map

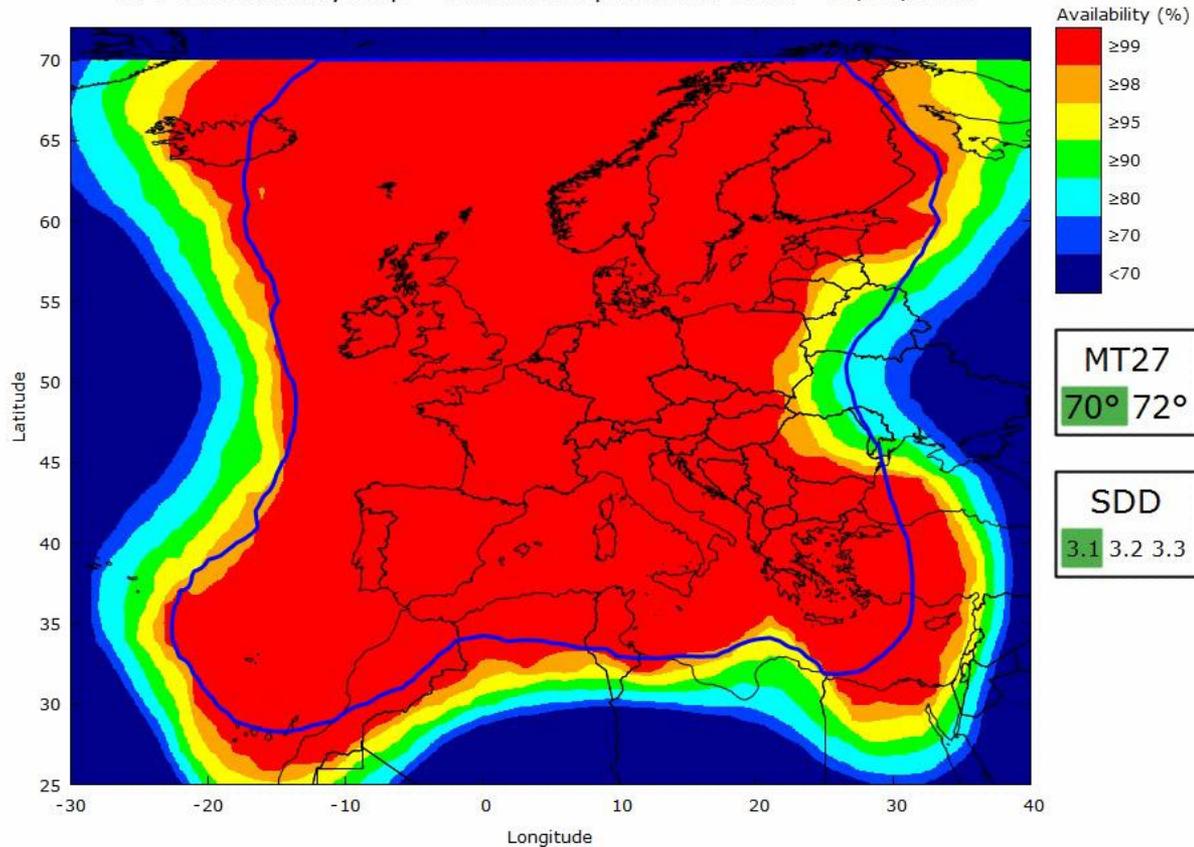


EGNOS performance keeps nominal with availability above 99%

# EGNOS SoL: APV-I Availability

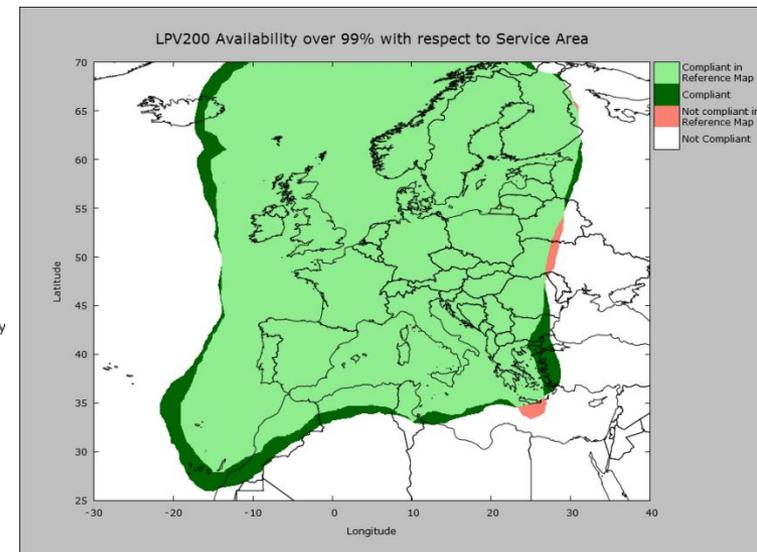
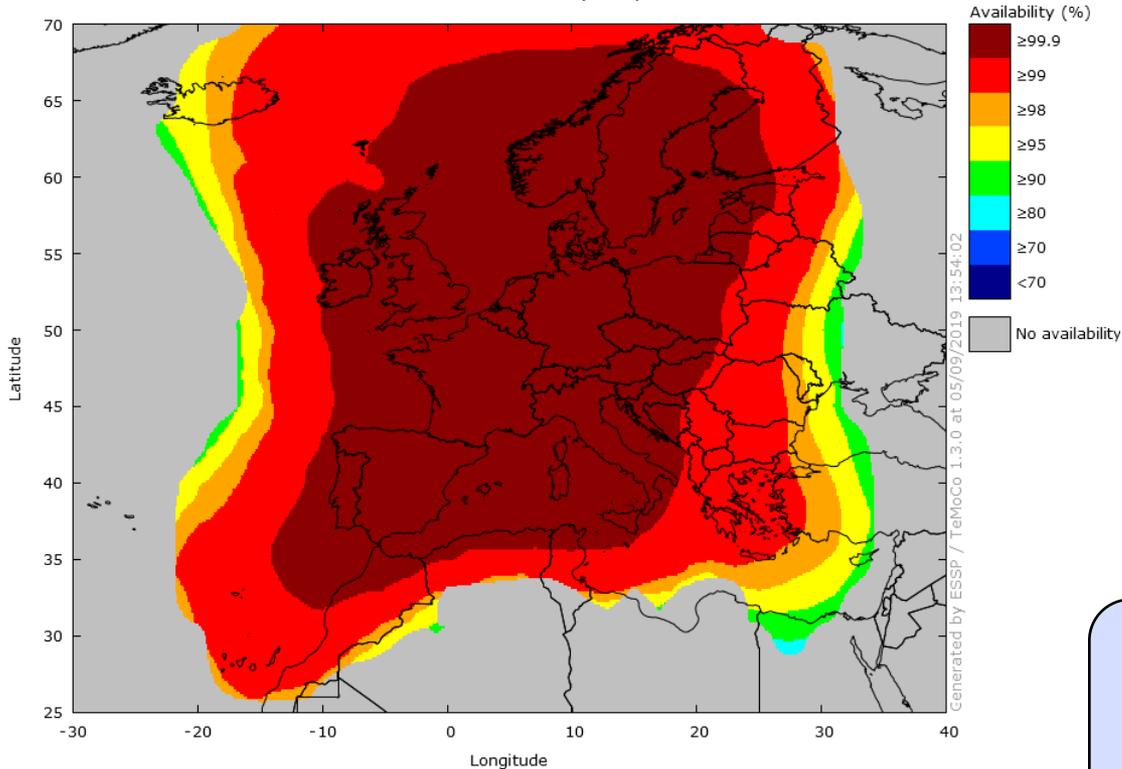
## Daily maps video

APV-I Availability Map - Combined Operational PRNs - 01/04/2018



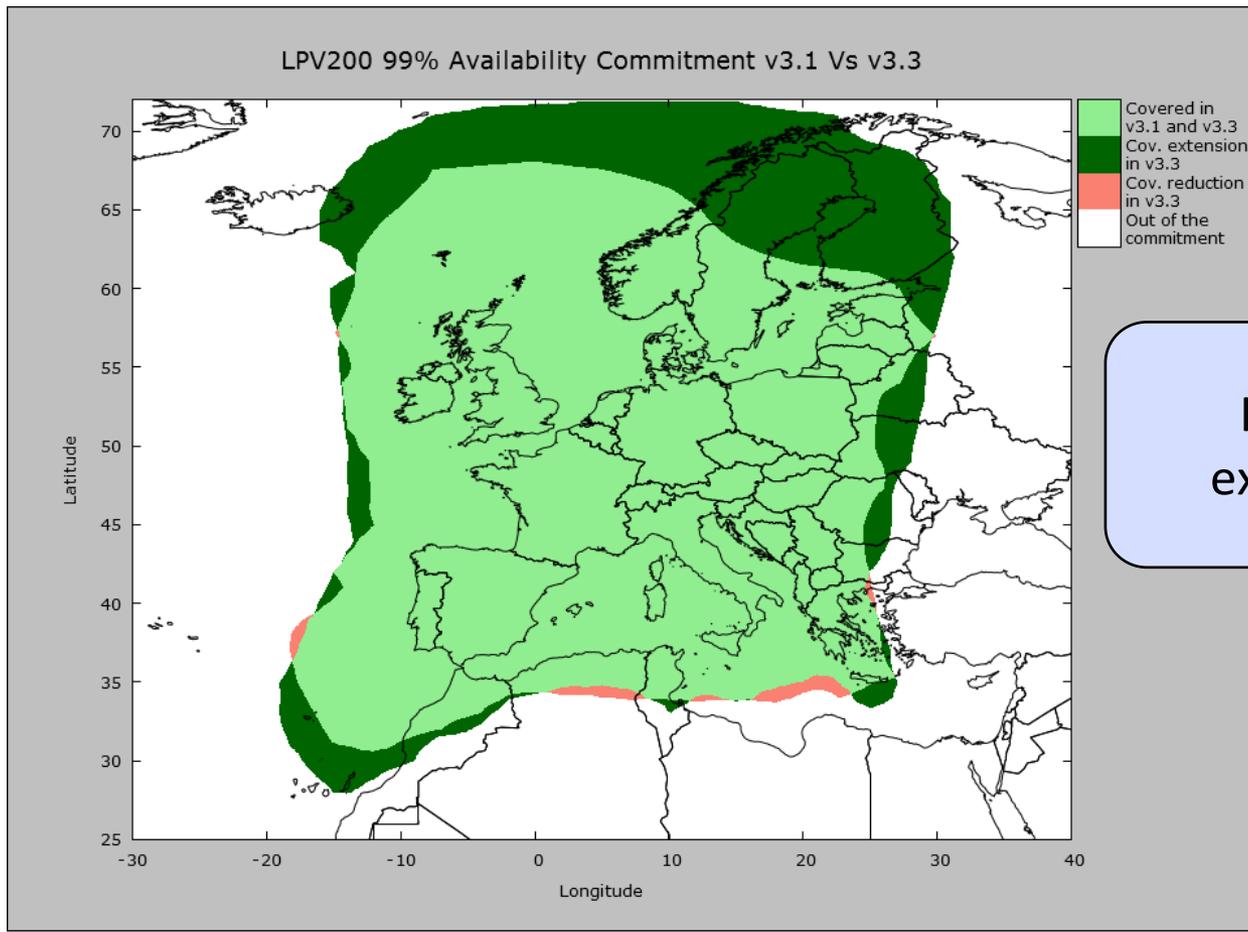
# EGNOS SoL: LPV200 Availability

SIS Op - 01/04/2018 00:00:00 to 31/07/2019 23:59:59  
LPV200 Availability Map



Compliance except in the  
East and South-East

# LPV200 Coverage Extension 01/Apr/2019



Important coverage extension in the North

# EGNOS SoL: LPV200 Availability at airports with published procedures



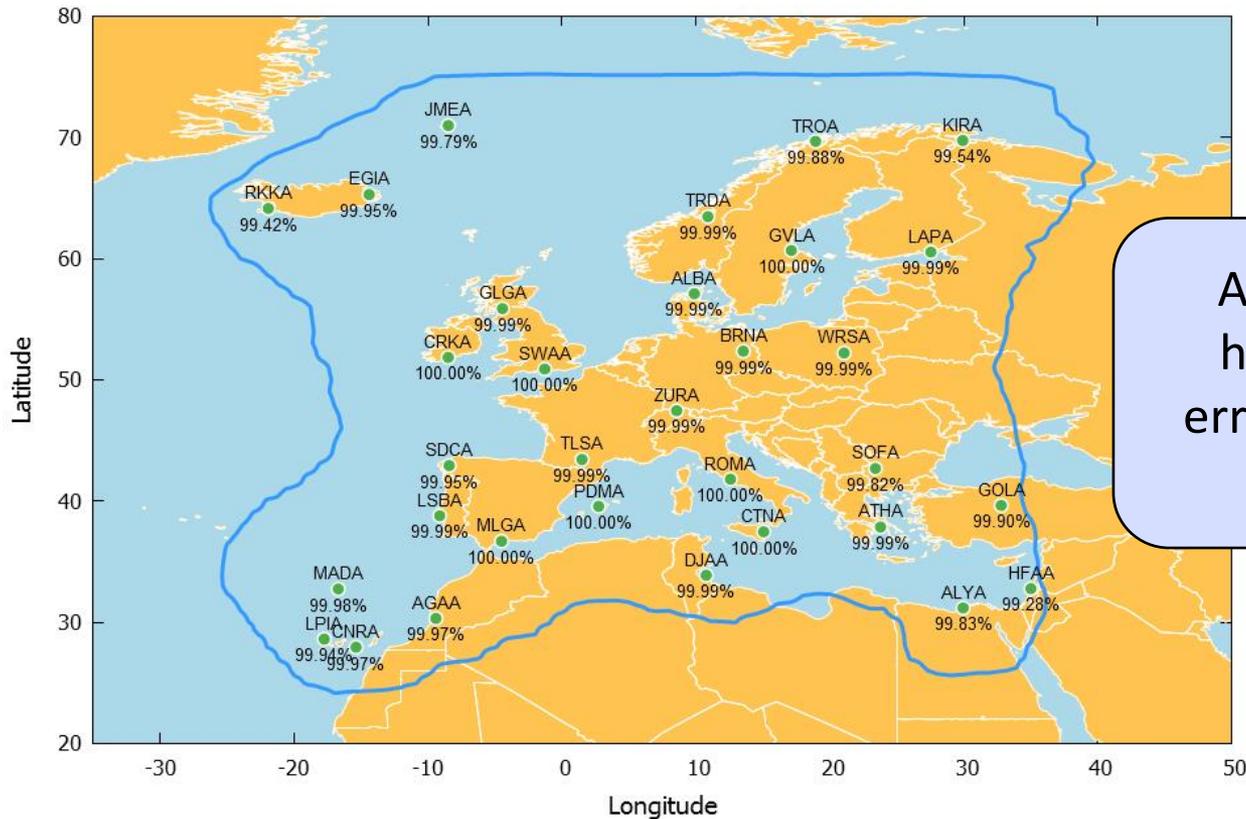
Compliance at all airports  
(from 01/Apr/2018 to 31/Jul/2019)

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# EGNOS Open Service: Availability

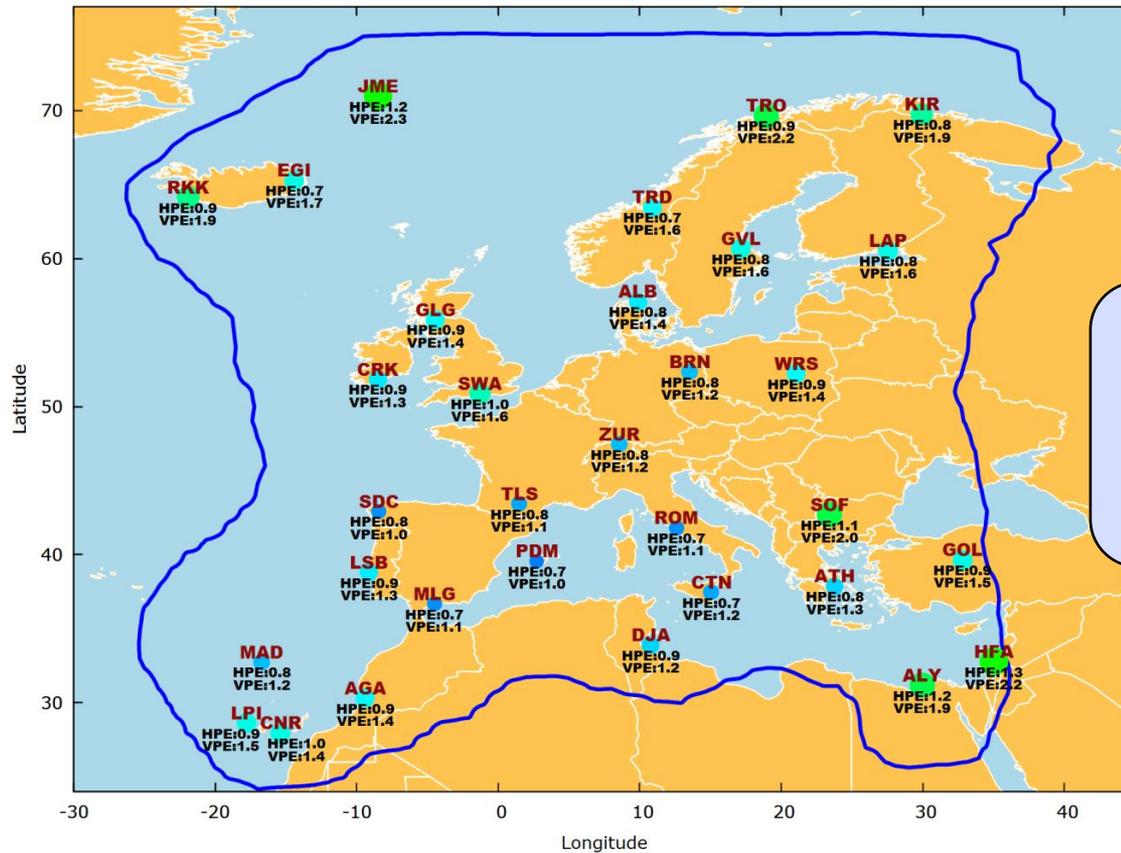
EGNOS Open Service Availability  
01.04.2018 - 31.07.2019



Availability > 99% with  
horizontal and vertical  
errors below 3 m and 4 m  
respectively

# EGNOS Open Service: Accuracy

Open Service Accuracy (01/04/2018 - 31/07/2019)

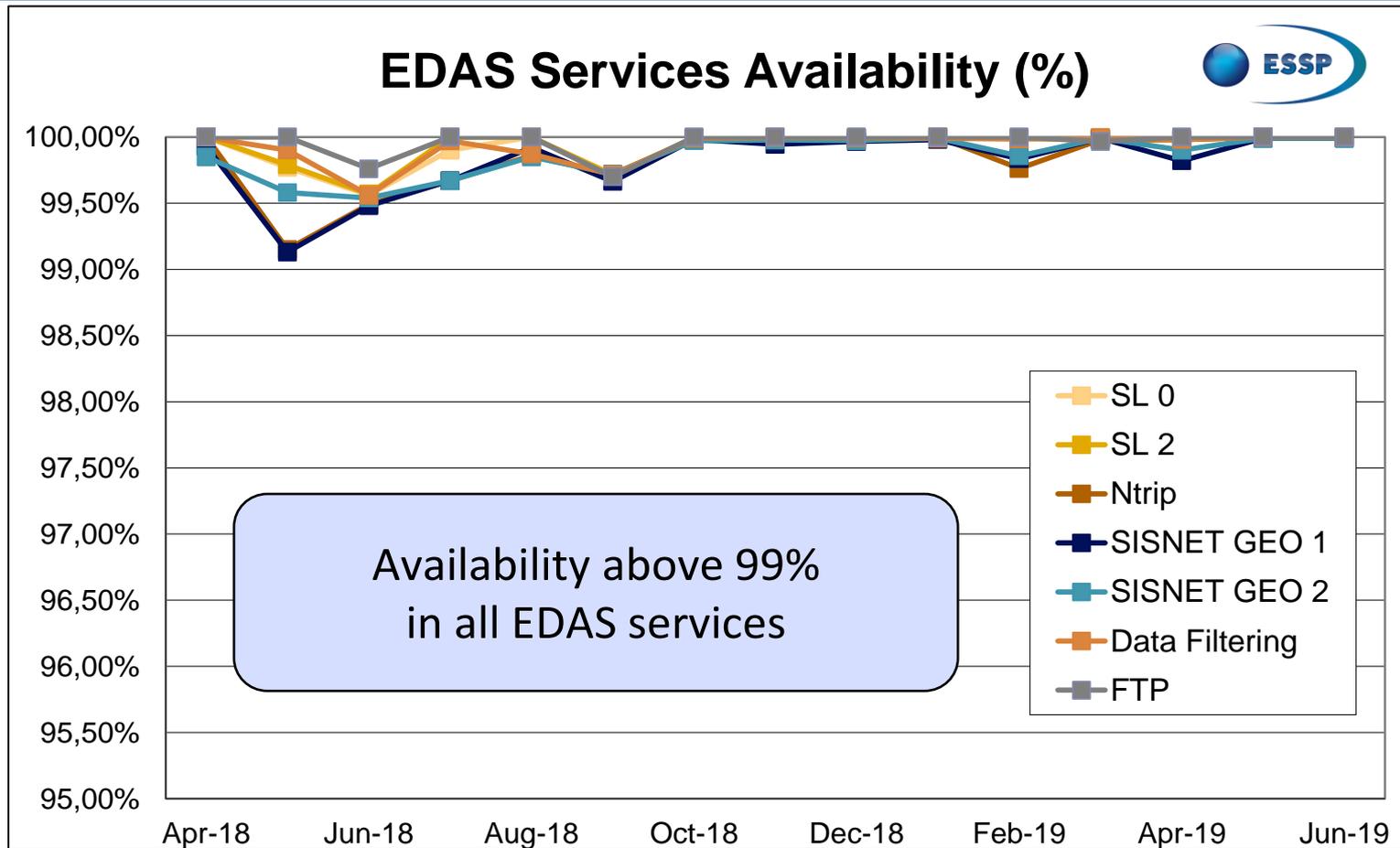


Excellent accuracy, usually less than 1 m horizontally and 1.5 m vertically

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# EDAS Service



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The questionnaire has been filled by



**140** <sup>177</sup>  
In 2017  
respondents

**25** <sup>41</sup>  
In 2017  
Non-EGNOS Users

**115** <sup>136</sup>  
In 2017  
EGNOS Users

**8.3** ▲

Global Satisfaction Score

8.1 - 2017

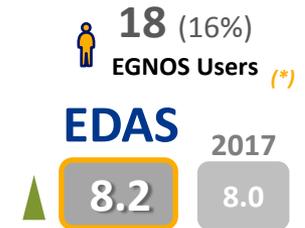
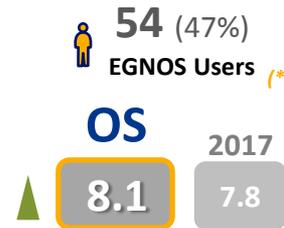
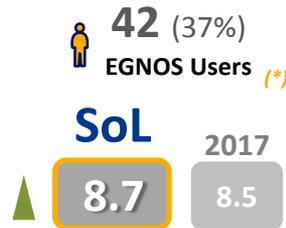


All scores are graded out of 10 points and are based on 115 EGNOS Users' answers.

EGNOS SUPPORT



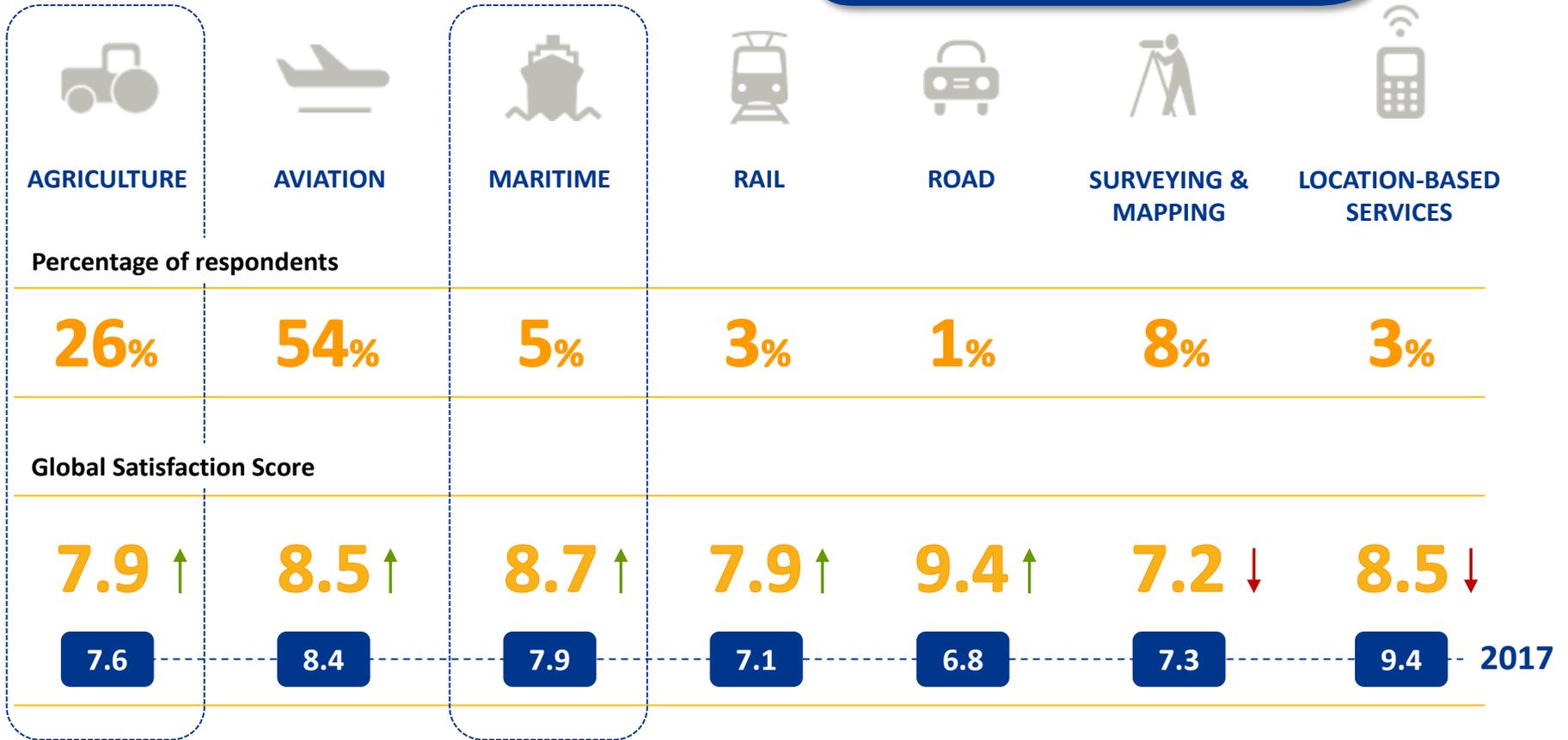
EGNOS SERVICES



(\*) Each respondent can use more than one service.

# Market Segments

## USER SATISFACTION SURVEY 2018



# Some planned activities derived from your feedback we are already working on...

## EGNOS USER SUPPORT WEBSITE

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- ❖ Implement a search functionality.
- ❖ Improve the website navigation, particularly the left side menu.
- ❖ Provide further description on those performance figures relevant to Agriculture and Open Service users.
- ❖ Add an information note in the website for agriculture users describing the main principles and limitations of EGNOS/GNSS.
- ❖ Increase the visibility of planned outages and their expected duration.
- ❖ Include historical EGNOS ionospheric activity information.



## EGNOS DOCUMENTATION

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- ❖ Analyse how to improve the EGNOS documentation for a non-technical audience.

# Conclusions

- SoL Performances observed every month are very good with the exception of slight degradations observed in the East and South-East borders.
- With respect to daily values, SoL commitment maps are well covered except some days. The main causes of those degradations are:
  - Ionosphere monitoring problems degrading the North area.
  - Punctual loss of monitoring of GPS SV's or Ionosphere Grid Points.
  - Data quality issues at some RIMS stations degrading the South-East.
- OS and EDAS performances are beyond commitment.
- There is an uptrend in the EGNOS User Satisfaction.



# Thank you!



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Corporate Video