

# An Introduction to the EGNOS Central Processing Facility

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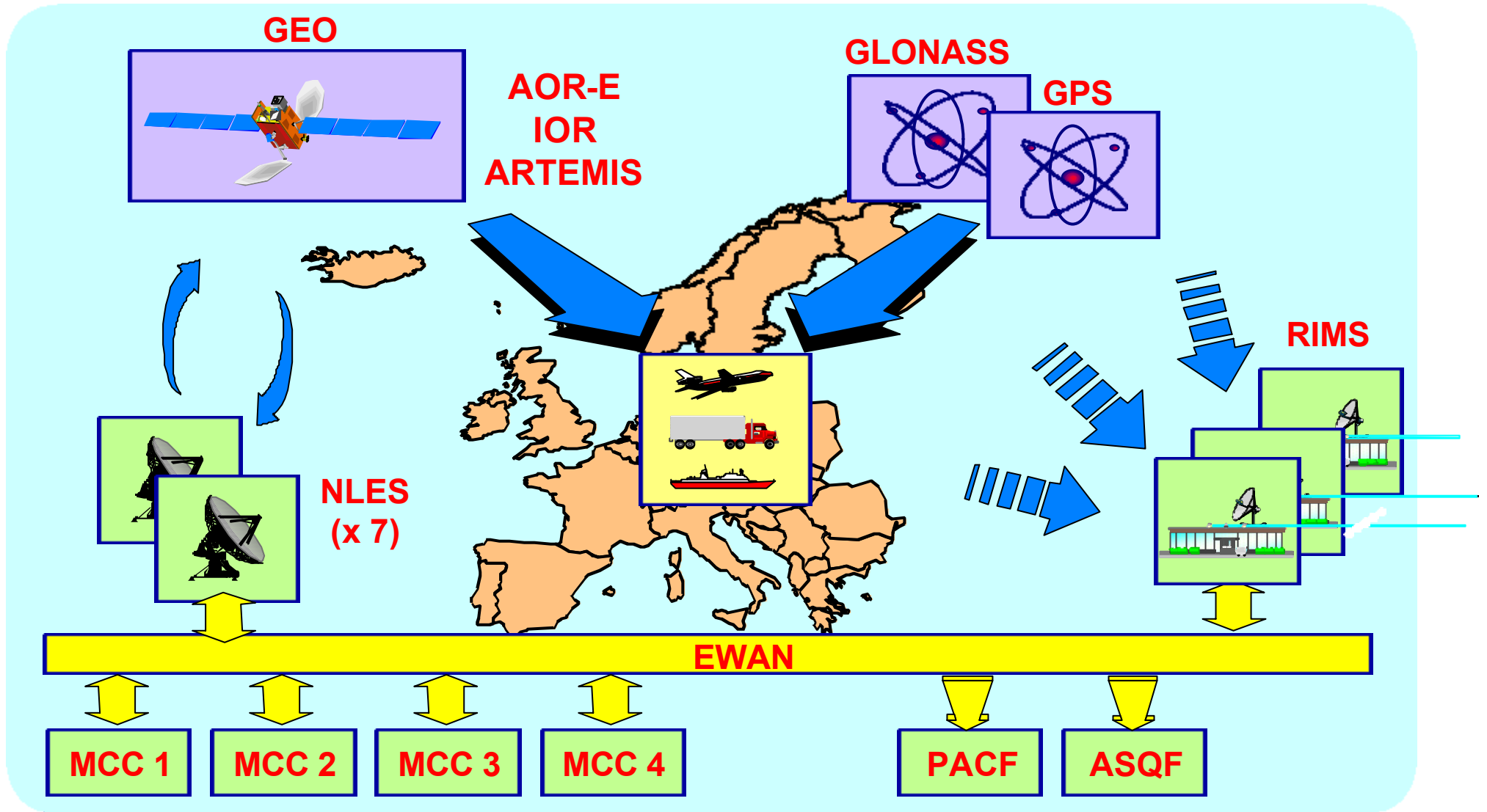


# Presentation Overview

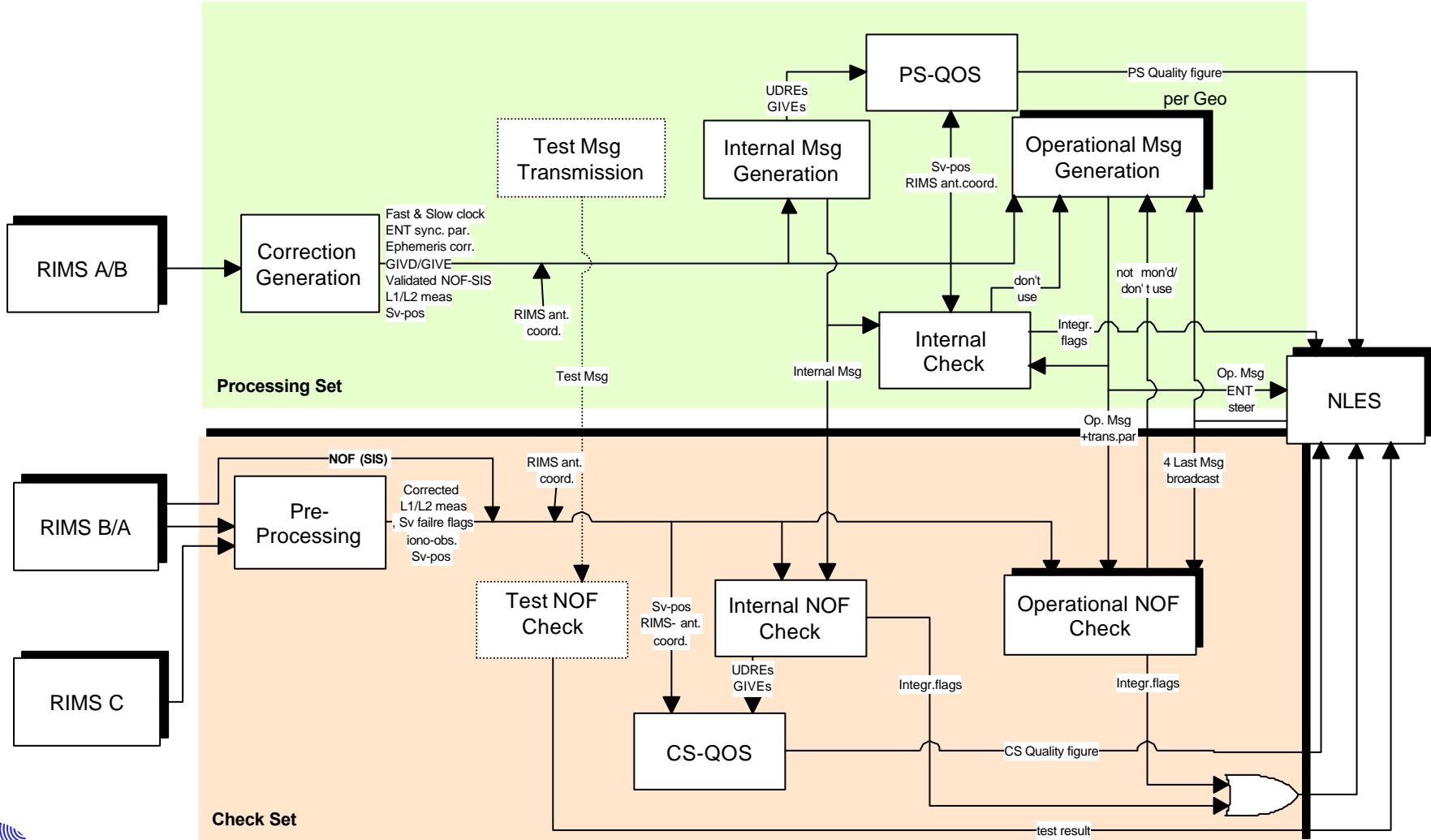
- EGNOS Overview
- CPF Functionality
- EGNOS Integrity Provision
- Performance apportionment
- Performances
- Challenging Issues
- Development team



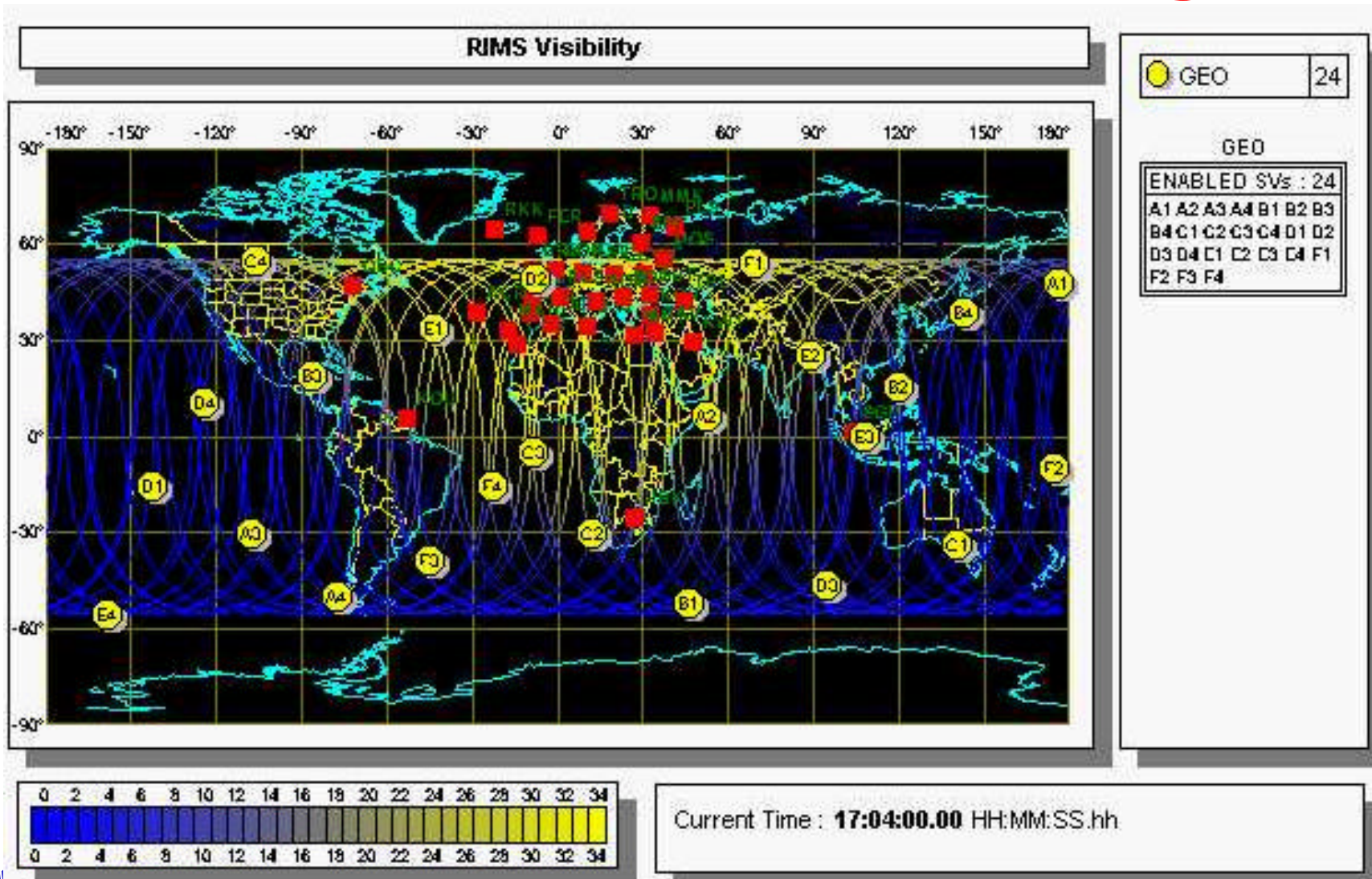
# EGNOS AOC Architecture



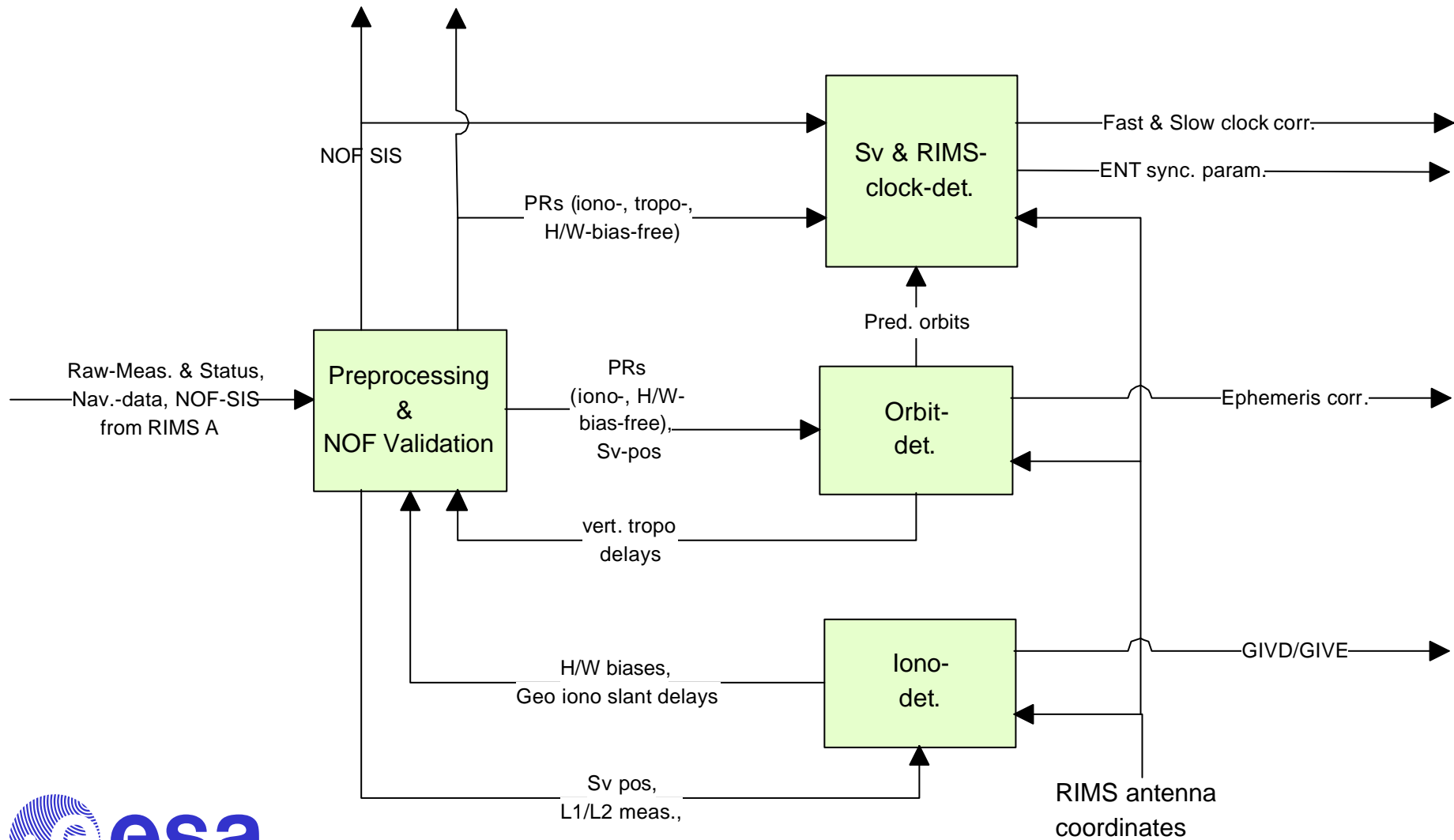
# CPF Overview



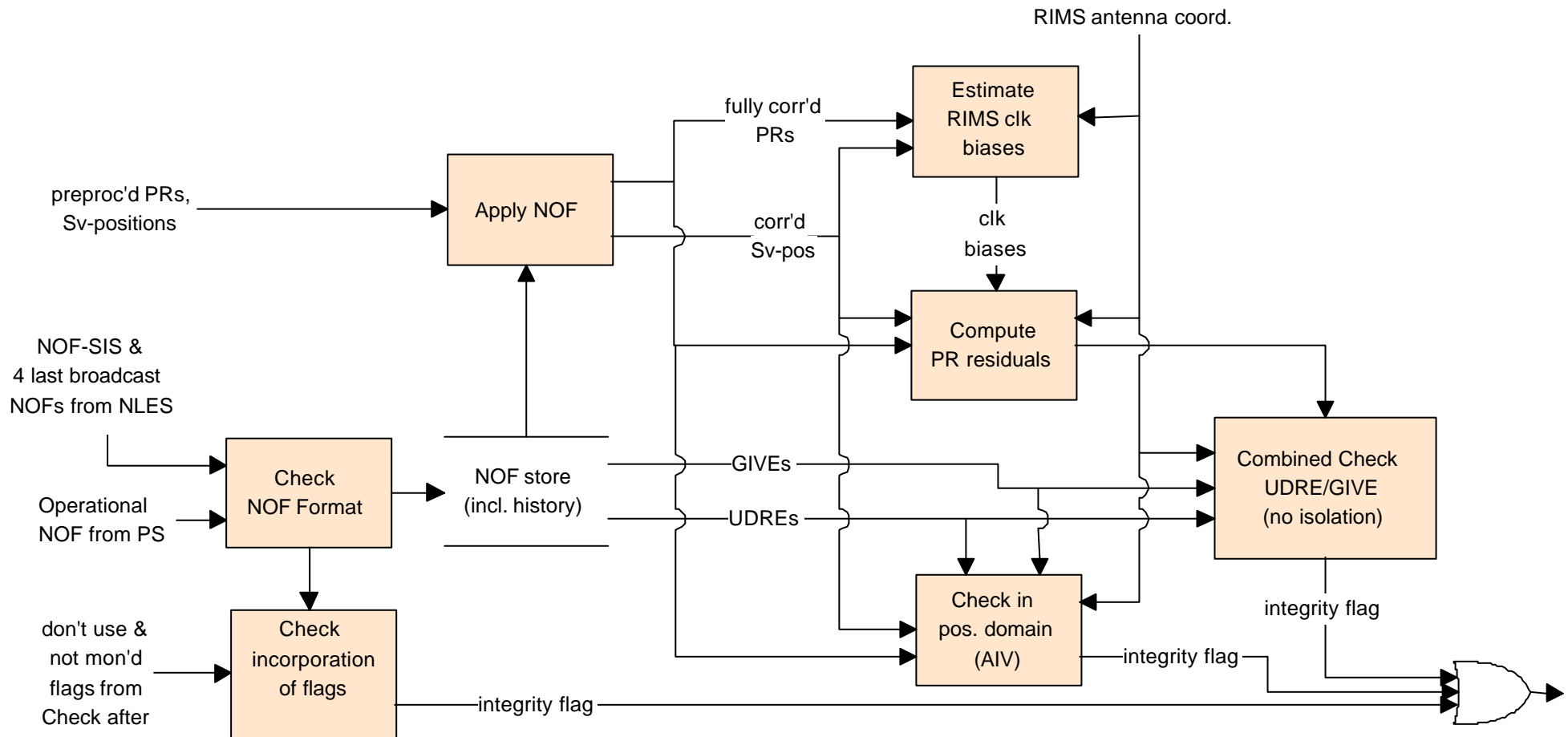
# RIMS Data Processing



# CPF Correction Generation

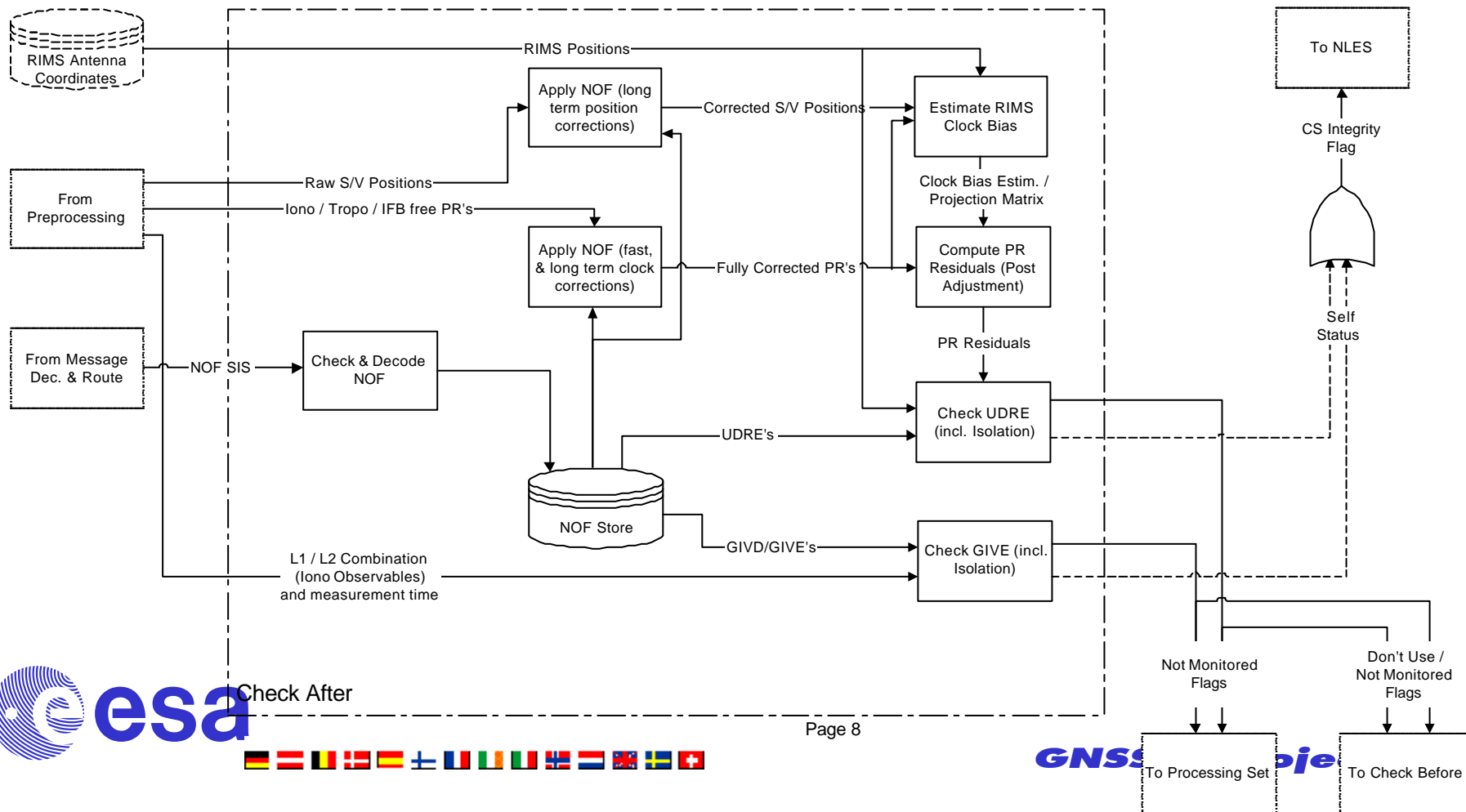


# Check Before Uplink



# Check Set (ii) - Check After

Check After In Operational NOF Lane





# Performances (i)



# Performances (ii)



# Performances (iii)

# Integrity and Continuity apportionment

# Ionospheric Experts Team



# Challenging Issues

- Hard Real time system
- Large Software development
- Certification of Software
- Integrity and Continuity apportionment
- Ionospheric Integrity - IET

# CPF Development

- Large European Industrial Consortium
- Alcatel Space - EGNOS Prime
- Astrium - CPF Prime
- GMV - PS Development
- IfEN - Check Set Algorithms
- Racal - Clock and Iono Algos
- Logica - Check Set SW and COTS
- SENER - Proc Set SW and COTS



# Development Schedule

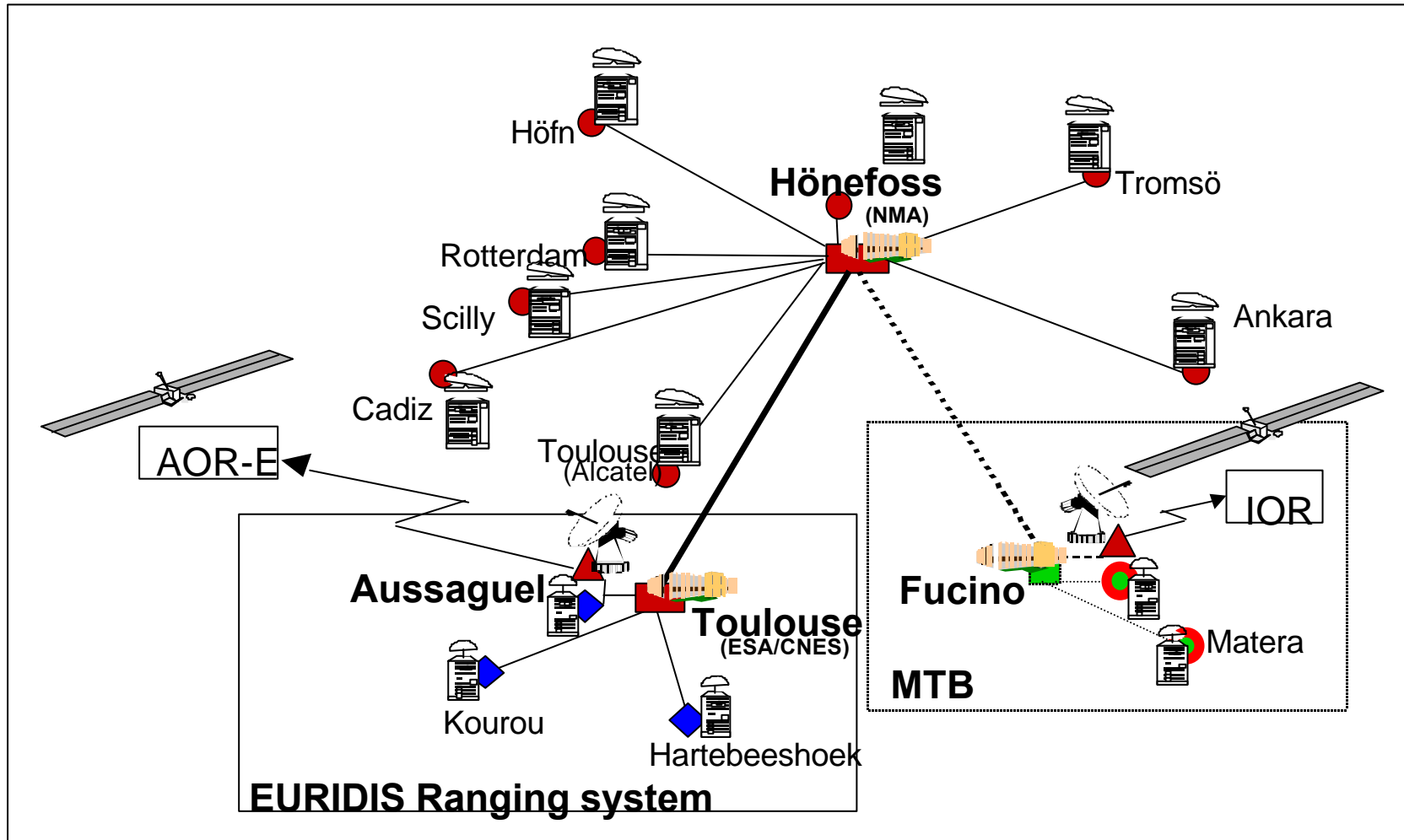




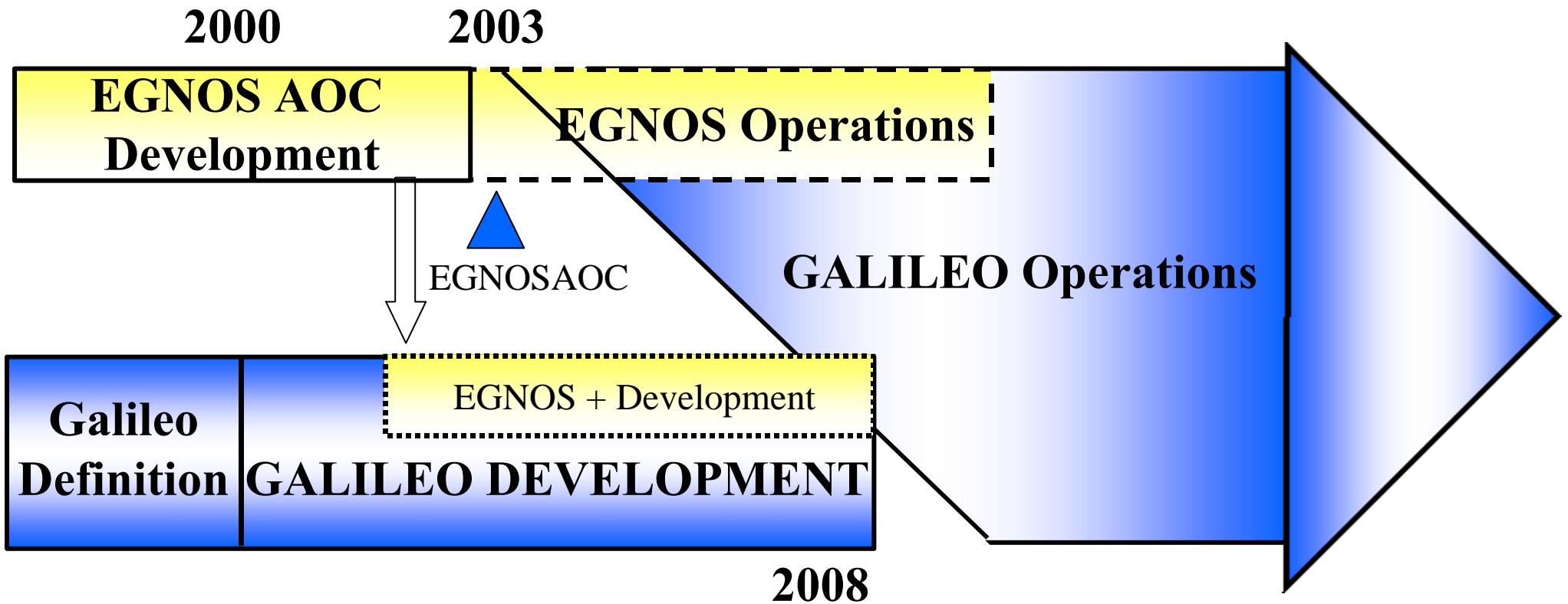
# Additional Slides



# ESTB Overview



# EGNOS and GALILEO Integration Overview



Full  
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Capability

**GNSS-1 Project Office**