

Vision for the IGS

Considerations about GALILEO

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- **Key Items for “Fault-Free” State:**
 - Orbit Determination and Prediction
 - Onboard Clock Determination and Prediction
 - Precision (accurate) Timekeeping
 - Sensor Station Characterisation

- **Translates directly into the Navigation Message**

- **Common Interests of the Galileo Project with IGS**
 - Processing algorithms
 - Station network issues
 - Calibration
 - ...

- **GPO collaborates in IGS GNSS Working Group**
 - Orbit Determination
 - ✓ satellite antenna calibration data
 - ✓ Laser retro-reflectors
 - ✓ Radiation pressure model information
 - Reference Frame
 - ✓ Link to ITRF
 - System Time
 - ✓ Tie to UTC
 - Signal choice
 - ✓ IGS to talk to receiver manufacturers
 - Exchange Format
 - ✓ Revise all standard formats for future systems
 - Discussion Platform

- **GIOVE-A → in Space**
- **GIOVE-B → soon to come**
- **Four IOV satellites to follow**
- **New fields to become active:**
 - Geodetic Reference Service Provider (under prototyping)
 - New signals & observables, multi-frequency, better performance
 - New receivers to be deployed and characterised
 - New clocks, i.e. PHM to be assessed
 - New laser ranging observables
 - Calibration issues to be resolved
 - ...

