



GJU GALILEO JOINT UNDERTAKING

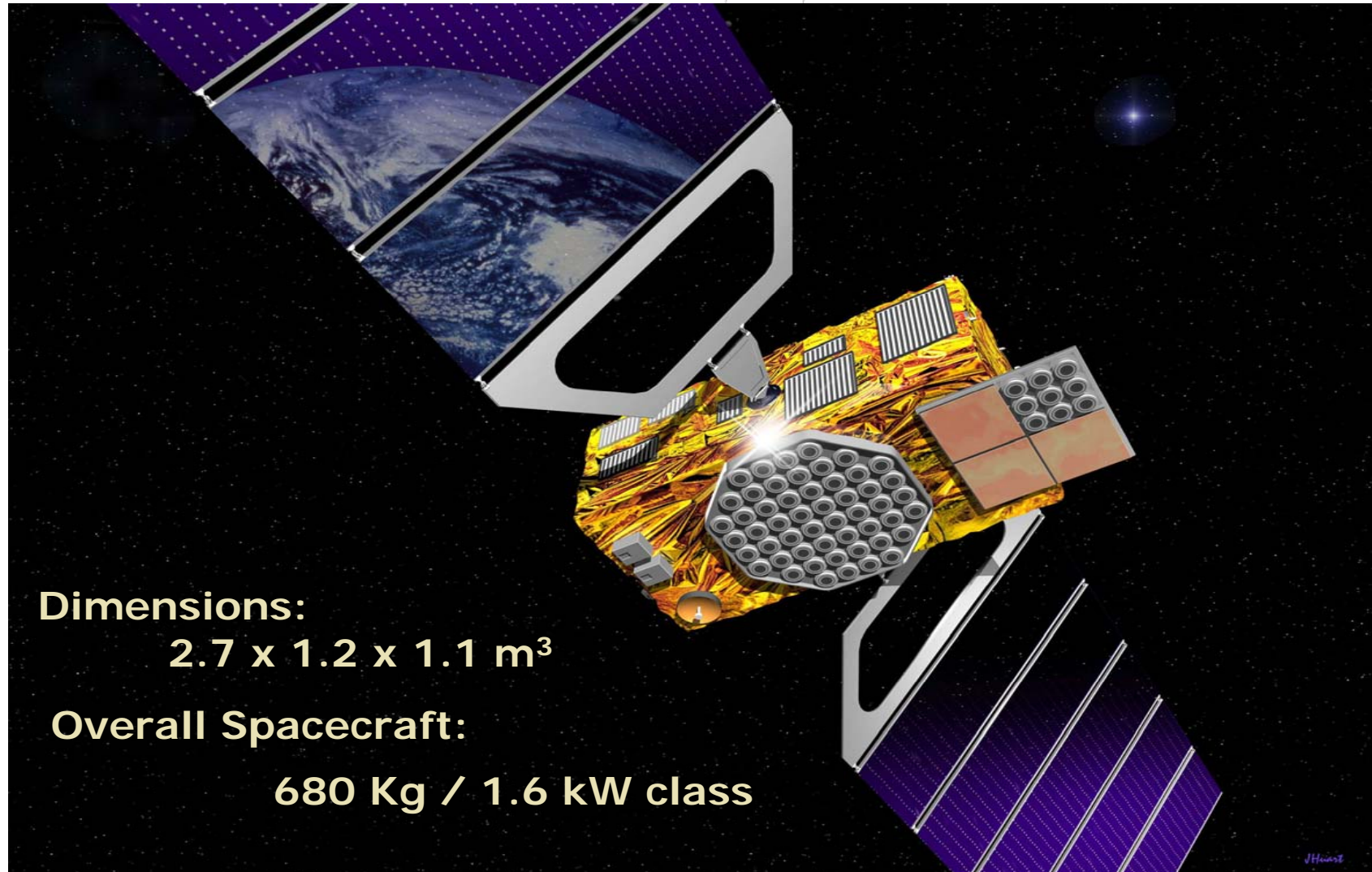


Galileo Joint Undertaking
Dr Mike Mattner
Head of Business Development

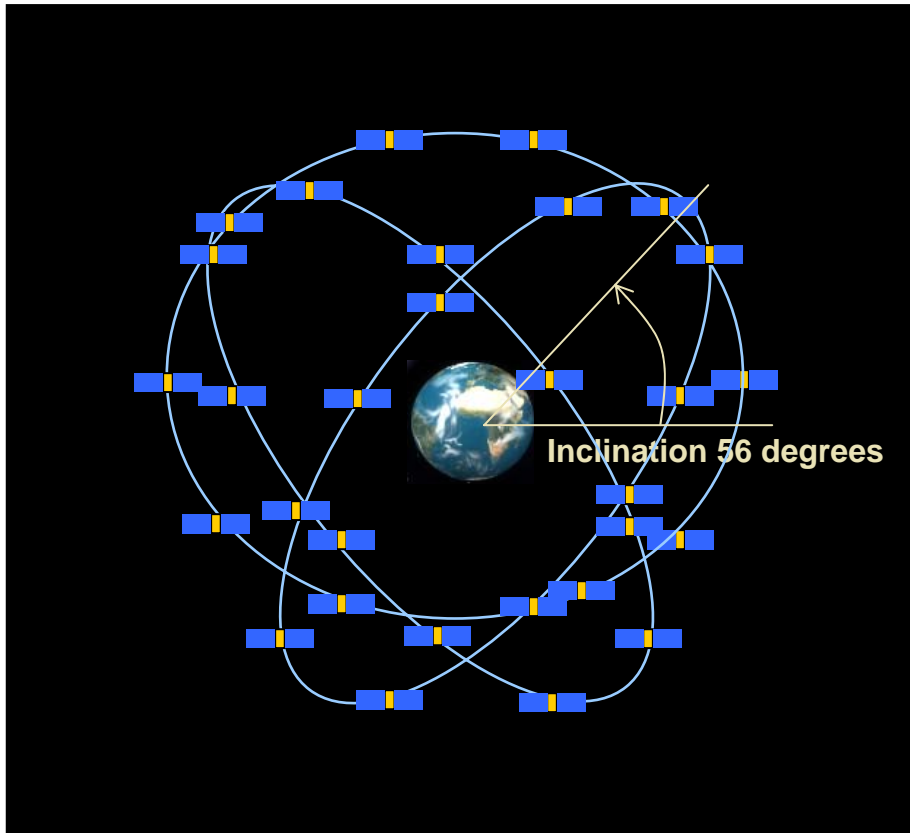
Stockholm
31st May 2005



Galileo Space Segment



Galileo Constellation



- 30 satellites in three Medium Earth Orbit MEO planes at 23616 km altitude
- 1 satellite per orbital plane is a spare
- Inclination of orbital planes 56 degrees
- One revolution 14 hours 4 min
- Ground track repeat 10 days



International Dimension

➤ **EU & ESA Member States = 28 Countries**

➤ **U.S.** (Agreement concluded), **Russia** (in negotiations)

➤ **Mandate for Negotiations (EC)**

China, (Agreement concluded, GJU – NRSCC agreement signed)

Israel (Agreement concluded, GJU negotiations started), **India, Ukraine** (in negotiations), **Morocco, Norway, Argentina** (Mandates expected)

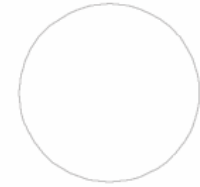
➤ **Interested Countries - Japan, South Korea, Australia, Brazil, Mexico, . . .**








Galileo Market

- Currently the Satellite Navigation market is 33 bn USD strong (16.5 bn USD equipment sales and 16.5 bn USD service revenues)
- All market studies predict strong annual growth in the years to come
- The revenue projections for 2017 are between 250 and 750 bn USD
- In 2020 2.5 billion users will benefit from Galileo

Galileo Services



Navigation	Open Access	Mass market service	
	Commercial	Business solutions	
	Safety of Life	Safety-related service	
	Public Regulated	Governmental service	
SAR	Search and Rescue	Special payload	



Galileo Value Propositions

- *Galileo is compatible and interoperable with GPS and GLONASS*
- *Galileo offers better navigation performances:*
 - *Integrity, availability, continuity*
 - *Different satellite services* for different user needs (OS, CS, SoL, PRS, SAR)
 - *Different signals and frequencies* for robustness and flexibility
 - High accuracy of *positioning, velocity and time*
- *Galileo is under civil control*
- *Galileo is open to international cooperation*



Galileo Value Propositions

- *Commercial, contractual and regulatory interface*
- *Transparency, audit-ability and records of past performances*
- *Service guarantee, quality of service, signal authentication*
- *Opportunities to sell additional non-satellite services*
- *Unique and optimal conditions to implement “law enforcement” GNSS applications*

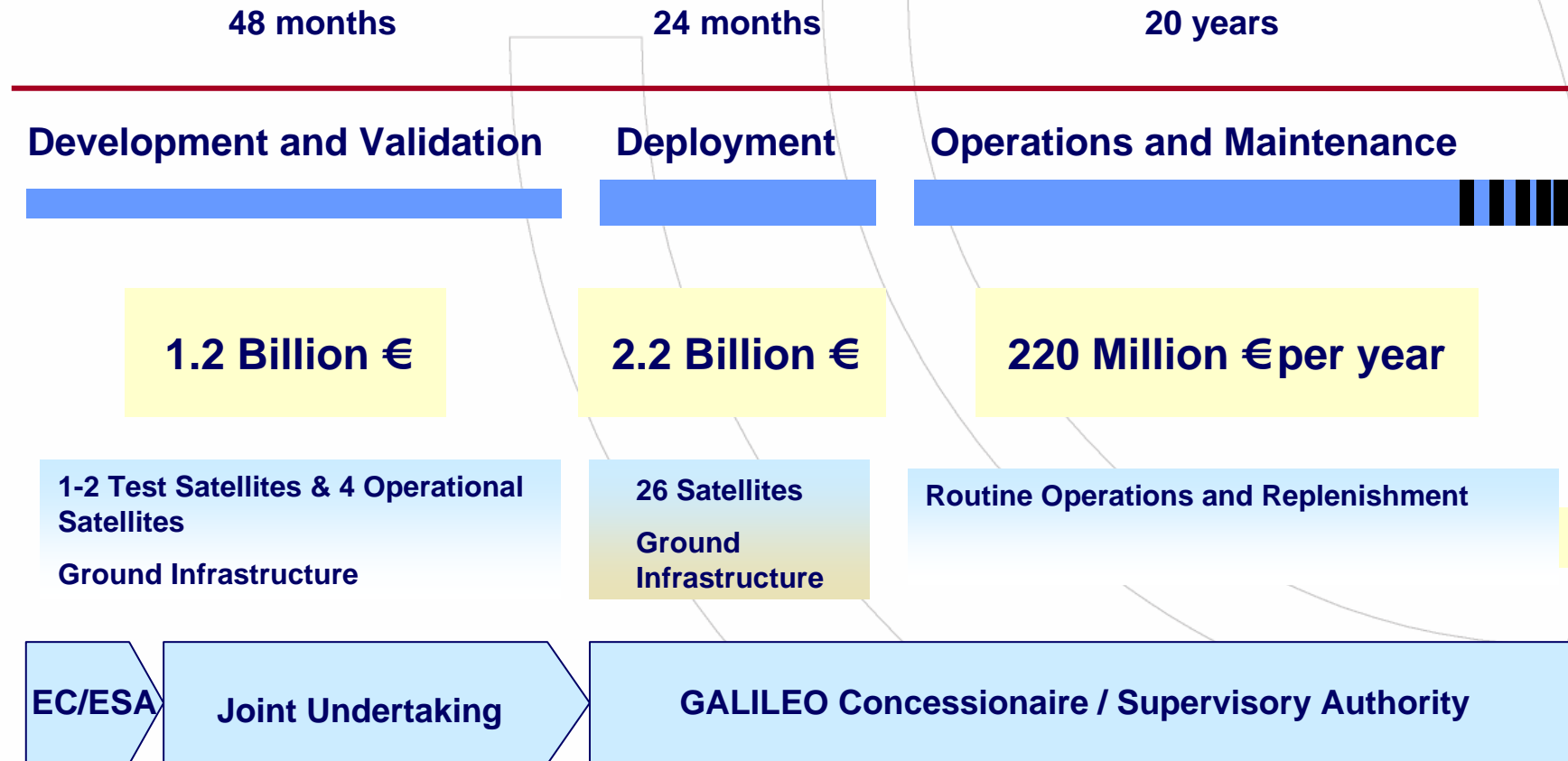


PPP concept

- *Public sector develops system*
- *Private sector deploys and operates system*
- *Public sector supports market development*
- *Private sector develops commercial business*



Galileo Schedule





The Galileo Concessionaire

iNavsat consortium

Core Members:

EADS
Inmarsat
Thales

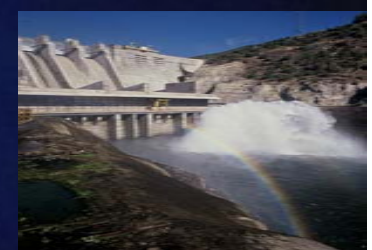
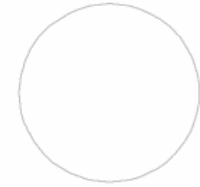
Eurely consortium

Core Members:

Alcatel
Finmeccanica
AENA
Hispasat



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*Thank you
for your attention*

Dr Mike Mattner
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