

GALILEO







FEBRUARY 27, 2001

**** * * ***

GALILEO



GALILEC

• Open Service

- performances to compete with GPS
- Commercial Services
 - market driven commercial services.
 - Access commercially controlled.
 - Services to include integrity, differential corrections etc.
- Public Services
 - Safety of Life Services
 - high availability and high integrity needs
 - ► Integrity warnings 6 second Time to Alarm
 - ►Availability 99.9%
 - Access controlled.
 - Encrypted signal included
 - Final decision in 2001



GALILEC

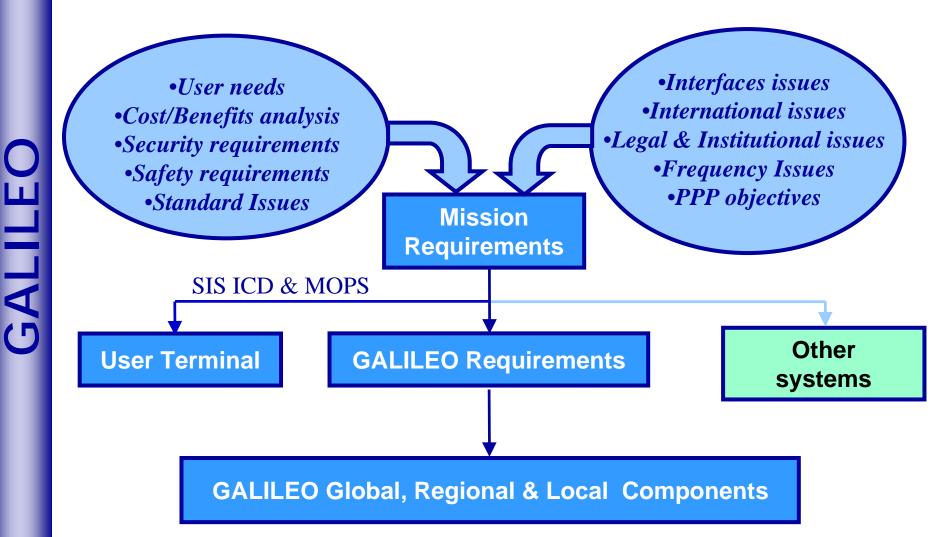
• Public Services (continued)

- ♦ Regulated Services
 - Common EU Policies
 - ➡ Same performance as safety of life.
 - Guarantees of service.
 - Access controlled.
 - Encrypted signal.
- Search and Rescue
 - Location of distress beacons with acknowledgement to user through Galileo Navigation signal

• Navigation Related Communication Services.

- Existing/ planned space or terrestrial communications systems to be used.
- Option to include a packet data payload on Galileo will be decided in 2001.

Overview of Mission Requirements



**** * * ***

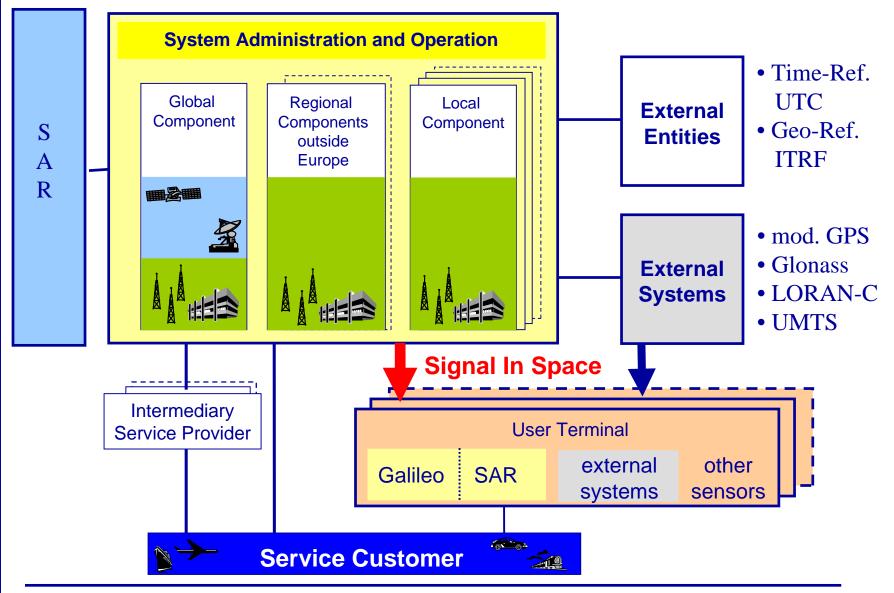
OREGIN CONFERENCE



GALILEC

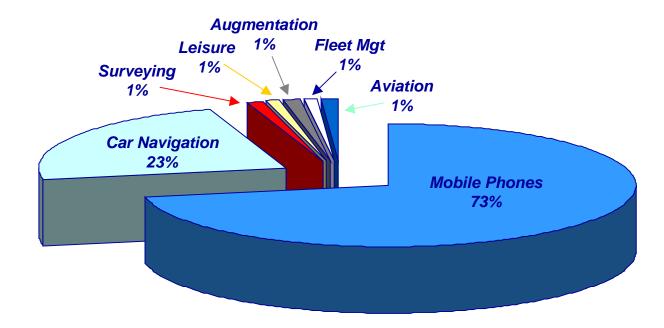
5

GALILEO OVERALL ARCHITECTURE



OREGIN CONFERENCE

European GNSS Market 2005



Market Size €6Bn



GALILEC

**** * * ***

OREGIN CONFERENCE



GALILEO discriminators

GPS alone: 55% urban coverage GPS+GALILEO: 95% urban coverage GALILEO: liability and

guarantee on quality of service

GALILEO: certification for Safety of Life

GALILEO: local elements

etc.



3ALILE

OREGIN CONFERENCE



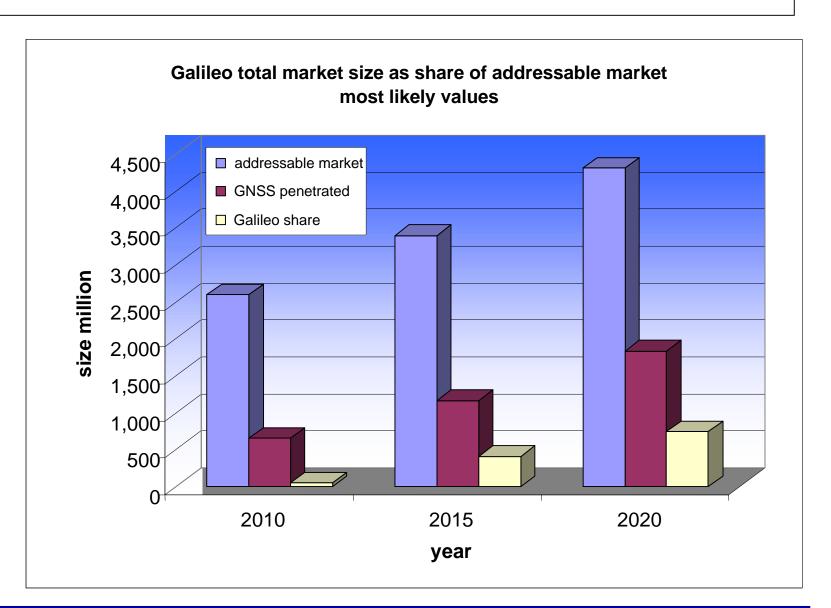
Organisational and contractual aspects

- An <u>operating agreement</u> will constitute the link between the public side of GALILEO and the operator.
- The operator needs <u>freedom to establish a</u> <u>business</u> and the public obligations need to be adequately reflected.
- <u>No legal requirement</u> that the <u>public side</u> needs to be the owner of the infrastructure.
- A <u>special vehicle company</u>, separating the operator and the owner could <u>facilitate the establishment of a PPP</u>.





Total market size



9

OREGIN CONFERENCE



General Roadmap Logic

[2001	2002	2003	2004	2005
Mission Doc.					
System Doc.					
GALILEO	Consolidation	Development and validation			
5th Framework Pr	gm				
6th Framework Pr	gm				

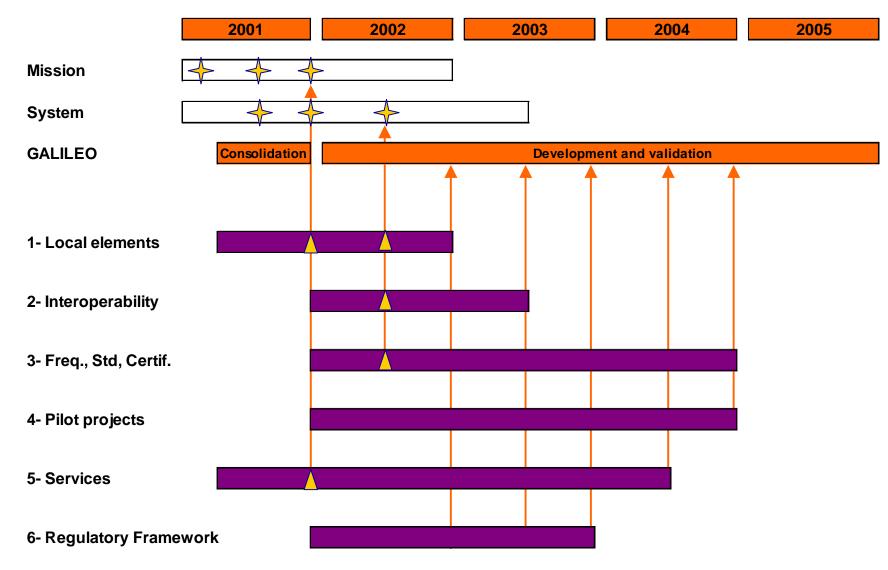
+ Important milestones :

- World RadioConference (WRC-2003)
- Flight model(s) availability
- EGNOS availability
- Management Structure
- International discussions, Enlargement

10



Fifth Framework Program: Roadmap Logic



11

OREGIN CONFERENCE

MAJOR STEPS IN 2001

- European Council in Stockholm (23rd March)
- Transport Council (5 April)
- Establishment of a single public authority
- Tendering process for the next phases



GALILEC