Consequences of national space legislation
Accompanying space regulations –
Ensuring safe-in-orbit operation and interoperability

IISL/ECSL Symposium at LSC
22 March 2010, Vienna

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This presentation reflects the personal view of the author only and is not providing, nor intending to provide any position of the GSA or other European institutions.
1. Safe-in orbit operations (including regulatory competences).
2. The Role of the European Union.
4. European Space Policy (ESP).
5. ESP towards safety?
6. Inter-operability
7. Examples of inter-operability.
8. ESP towards inter-operability?
Article 1 (3) French Space Act “Space operation” means any activity consisting in launching or attempting to launch an object into outer space or to control a space object during its travel in outer space, including the Moon and other celestial bodies, as well as, if applicable, upon its return to Earth;
Space operation

- Launch
  - Licenses
    - Certification
    - Accreditation
  - Registration
- In-orbit operation
  - Registration
  - Operational provisions
  - Space traffic (management) regime?
Role of the European Union

- Competence on space safety?
  - Before Lisbon Treaty
  - Entry into force of the Lisbon Treaty
  - The Lisbon Treaty enshrines space as a shared responsibility for the EU and its members States
    - Article 4 Lisbon Treaty
    - Article 189 Lisbon Treaty
European Space Policy

- Increased responsibility by Europe for Space matters
- Stakeholders
  - EU – ESA - member states
- International relations and Europe in Space
- Coordination in a multilateral context together with ESA
- UN Code of Conduct on outer-space activities
ESP towards safety?

- Industry policy
- Standards give clarity regarding future markets
- Assessment of necessary future standardisation in support of the regulatory framework
  - Control of satellite derived data
  - Spectrum use
  - Export control regulations
- European Cooperation for space standardisation
  - CEN
  - CENCELEC
  - ETSI
- ECSS standards
- Approach for standardisation
  - Policy recommendations
Interoperability is the capability of a product or system -- whose interfaces are fully disclosed -- to interact and function with other products or systems, without any access or implementation restrictions.

- **Concerns**
  - non-disclosure of one or several interfaces
  - implementation or access restriction built in the product/system/service
Examples

- Interoperability of signals
  - GALILEO and GPS
  - EGNOS and other SBAS
- Interoperability of space and ground based systems
  - Competences
    - States
    - ITU
  - ESP
ESP towards interoperability

- Standardization and interoperability
- Access to data and standardization
  - acquisition and use of data
  - Protection of sensitive information
Thank you very much for your attention.

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