



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

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Space operation

- ▶ **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

Inter-operability

- ▶ **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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