

# openINFRA OVERVIEW

Established interoperability standards/solutions

openINFRA interoperability standards/solutions

**Standardized way of mapping information**

- Data Dictionary
- Process Deliveries

openINFRA

Inter-Domain Interoperability Standards

Domains/ Solutions

**buildingSMART**  
Buildings  
IFC, IfcXML, SimpleifcXML, BCF, IFC Bridge, IFC Tunnel  
(ISO 16739, 12006-3 and 29481 based)

**POSC/Caesar**  
Plant Facilities  
(ISO 15926 based)

**OGC/INSPIRE/ISO 19100**  
Geospatial  
LandXML, CityGML  
(ISO 19100 based)

**openBIM processes**

- Design
- Construction
- FM
- Legal Authorities

**Plant Facilities**

- Design
- Construction
- Operation

**Geospatial data processes**

- Areal Planning
- Building Permissions
- ?

**Buildings**

**Transportation**  
Coastal, Roads, Railroad, Aviation

**Infrastructure**  
Wiring/Piping  
ISO 19100

**Cadastre**

**Area planning**

**Nature**  
(Topography, biology..)

**Off-/on-shore Plants**

**Wiring/piping**  
ISO 15926

**Inter-Domain process**  
Georefer. Excavation

**Inter-Domain process**  
Design Coordination

**Inter-Domain process**  
Code check Submission

**Inter-Domain process**

**Inter-Domain process**  
Building/Plant interoperability

**Inter-Domain process**  
Building/Infrastructure interoperability

**Inter-Domain process**  
Infrastructure/Infrastructure interoperability

Interoperability based on ISO 16739, 12006-3 and 29481

Interoperability based on ISO 15926 standards

Interoperability based on ISO 19100 standards