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BIM Task Group Chairman EFCA European Federation of Consulting Associations

Chairman of Infrastructure room – bSI



Président du CST Medi@Construct

La Nouvelle Route du Littoral

(motor way on the sea)

Métro de Rennes

(urbain metro)

DOHA Express Way

Qatar Rail

Rocade L2 Marseille

(Autoroute urbaine)

FFR arena stadium

EOLE

(Métro in Paris)

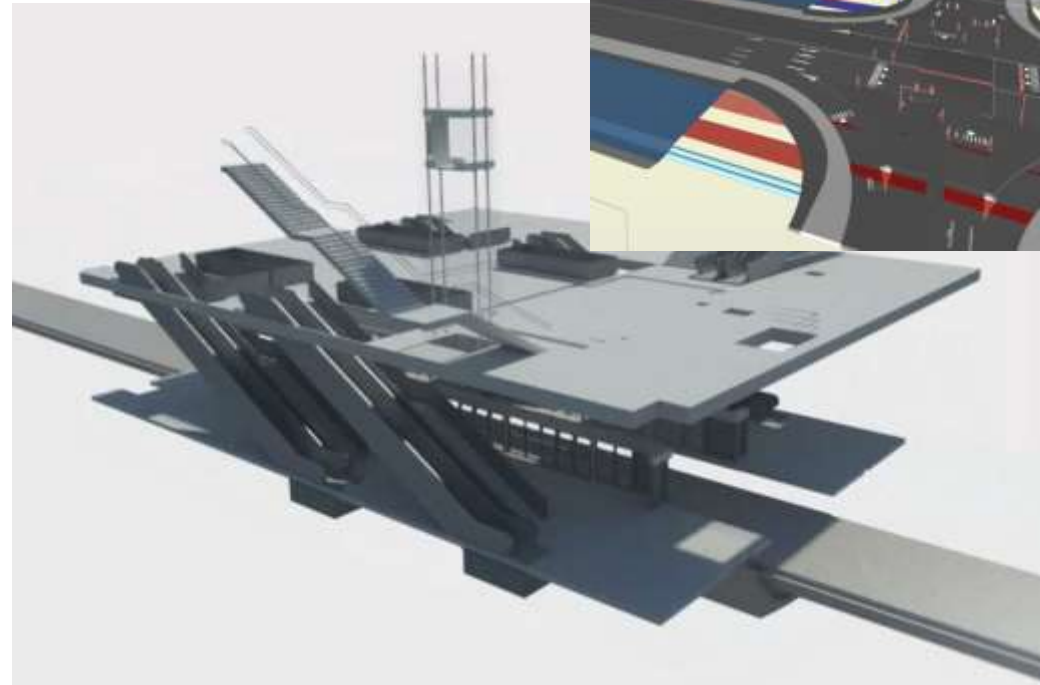
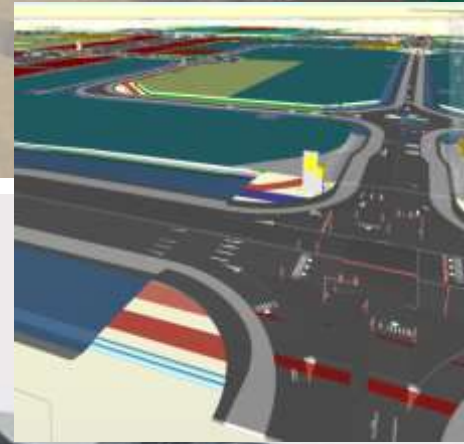
ITER

(projet international de centrale nucléaire nouvelle
génération)

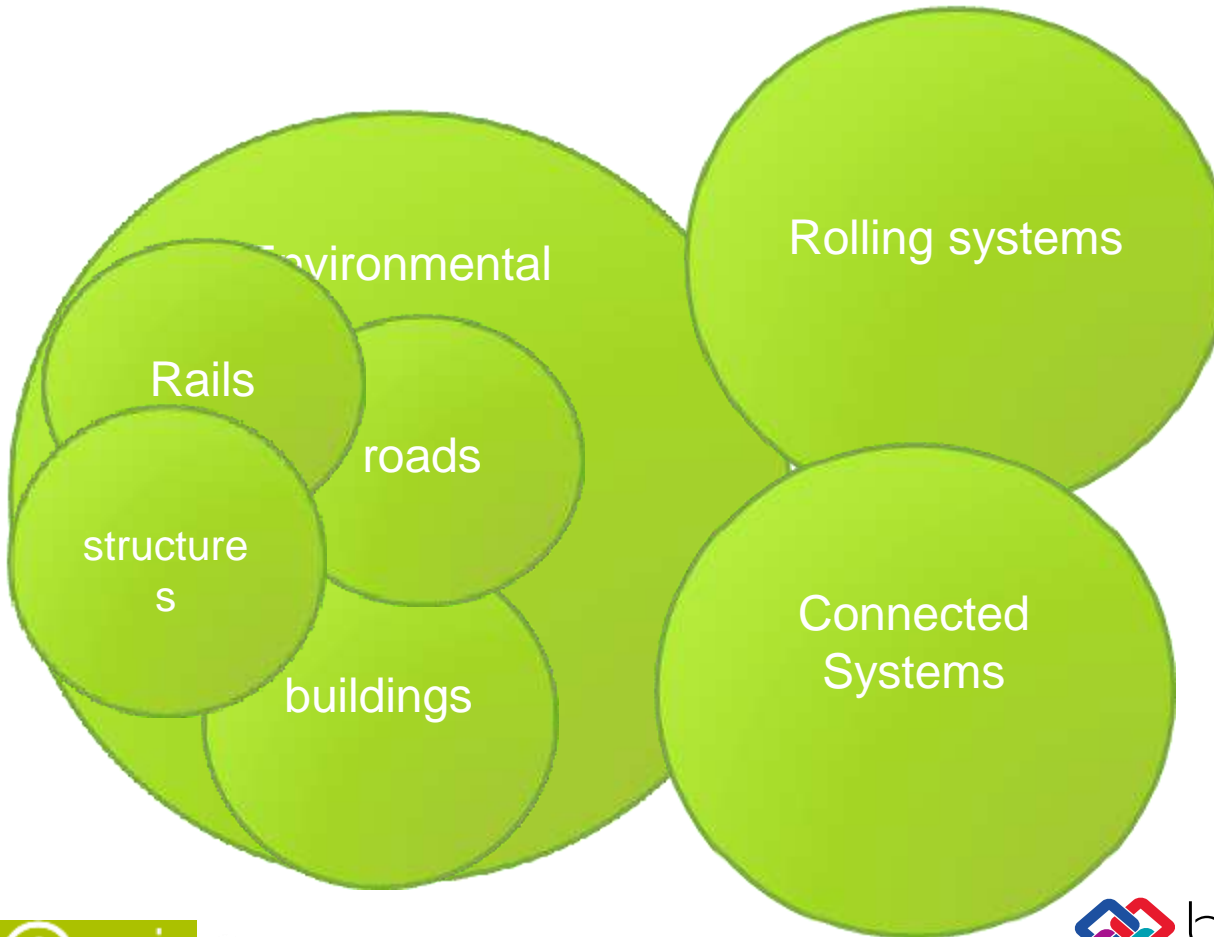
QEZ

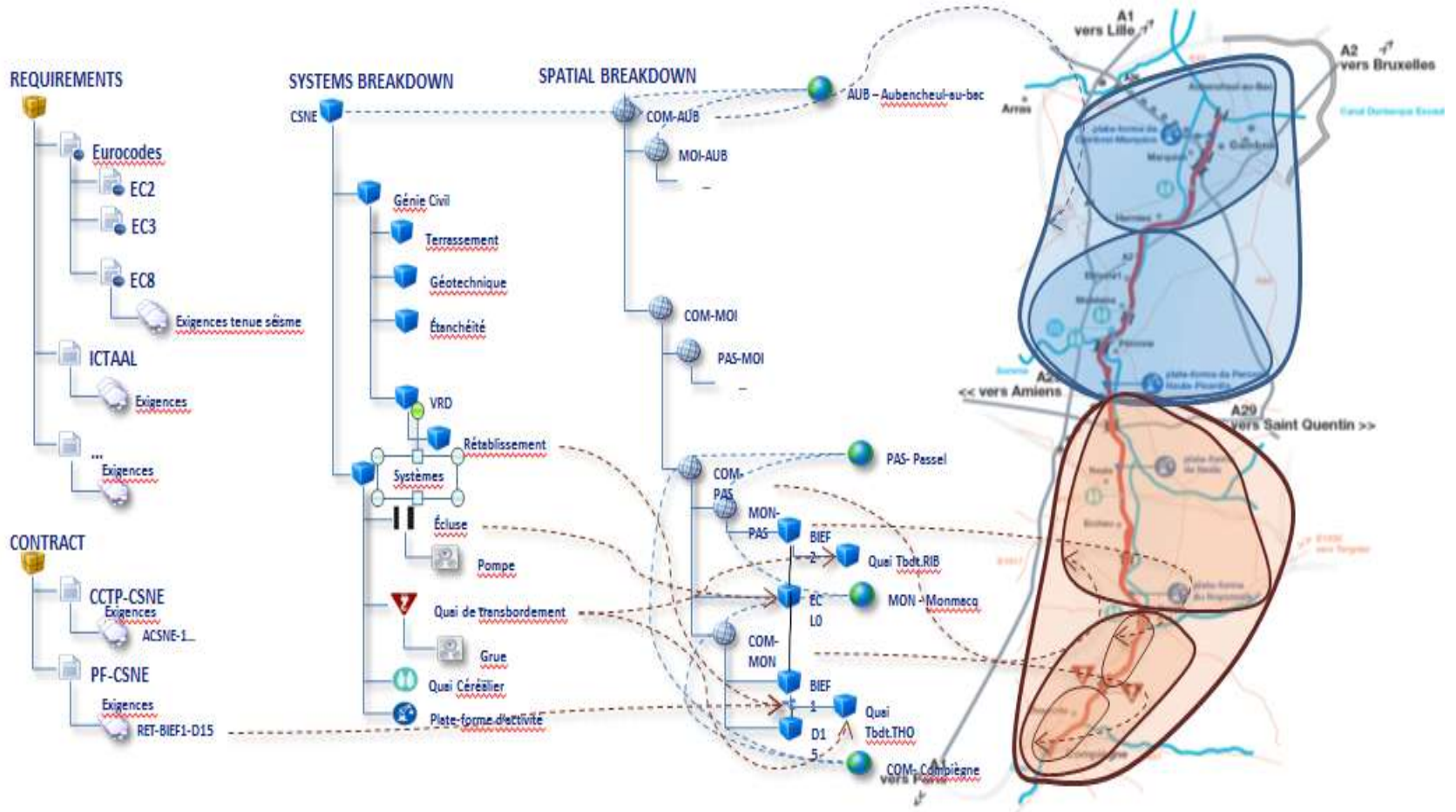
(Qatar Economic Zone 3)

...

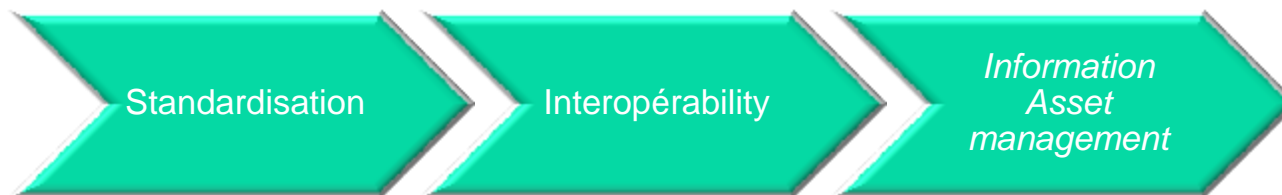


A system of systems





▣ Information as a digital asset



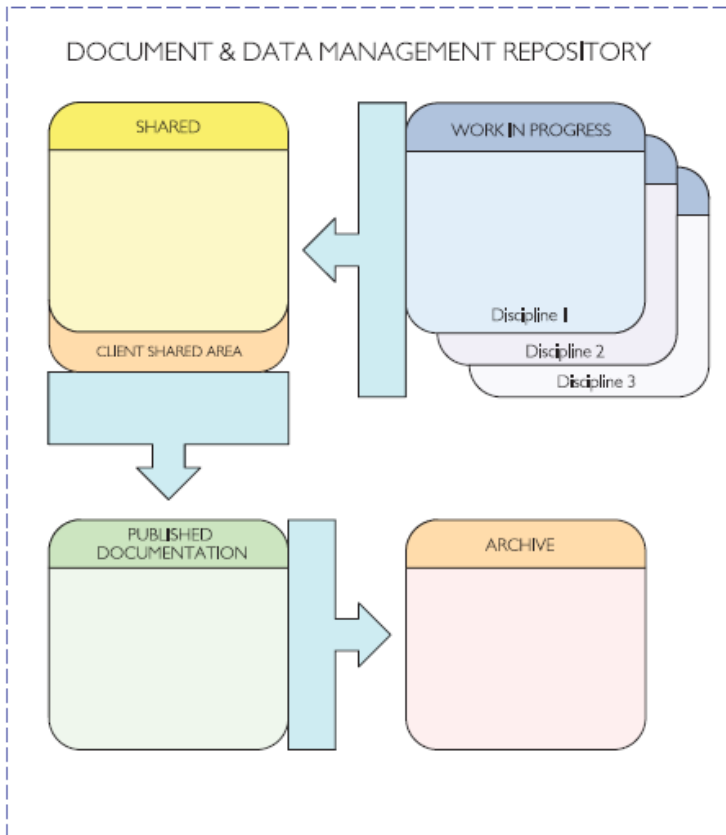
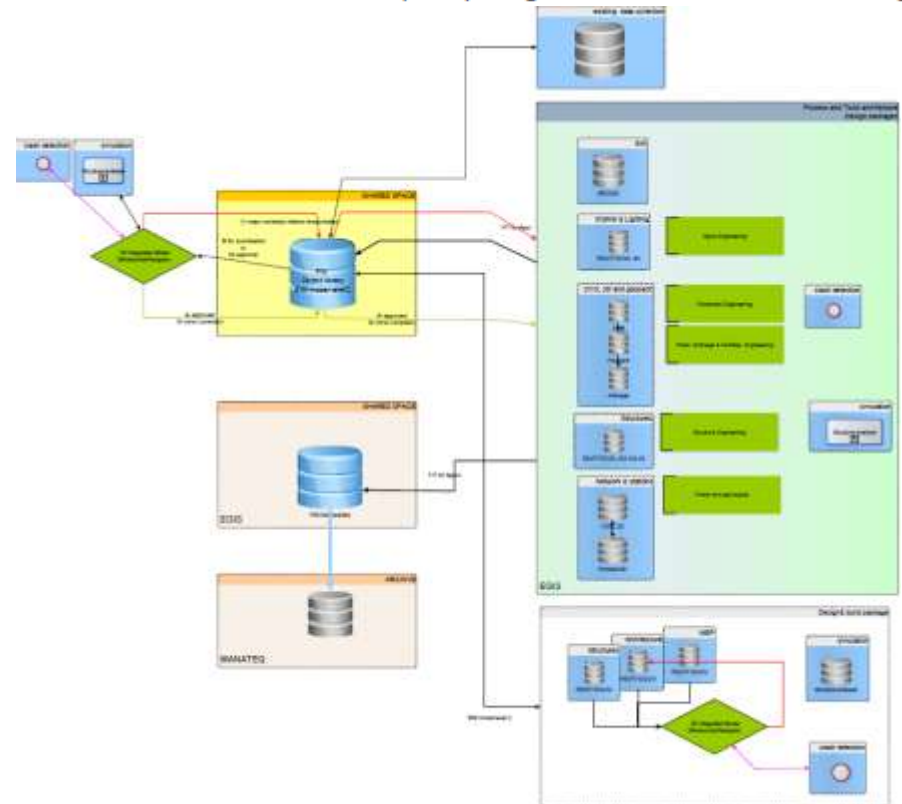


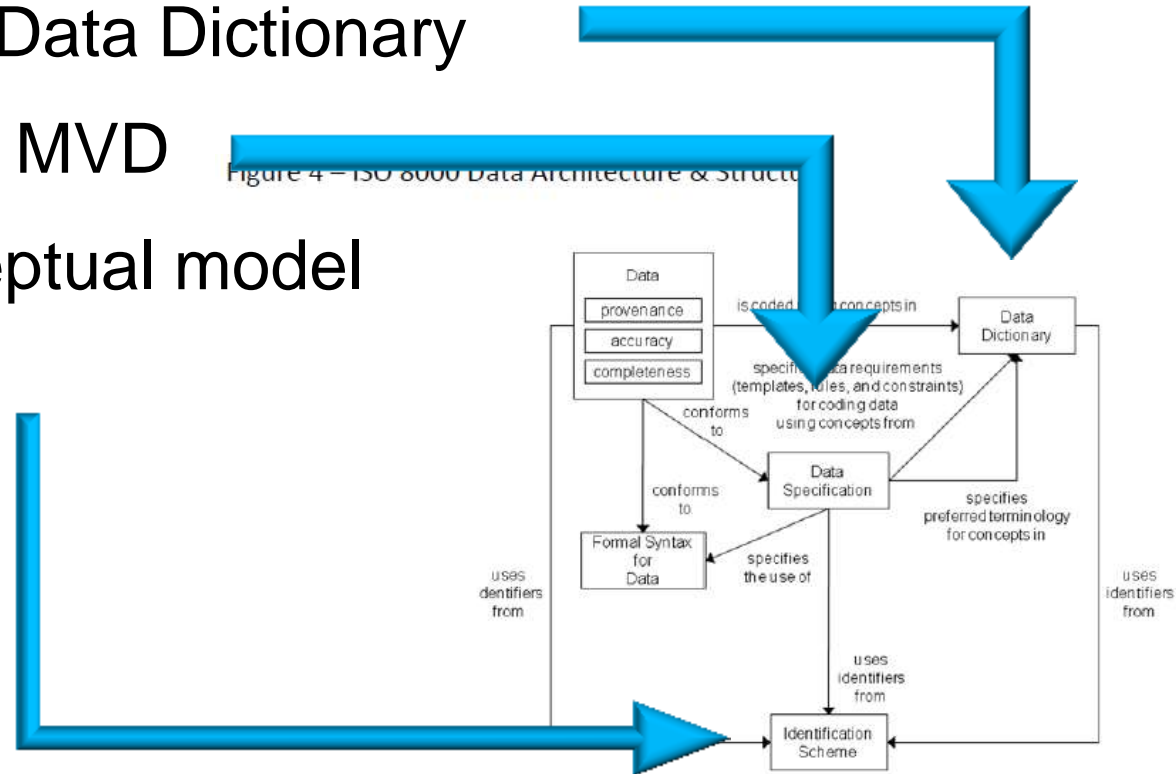
Figure 1: High-level Common Data Environment

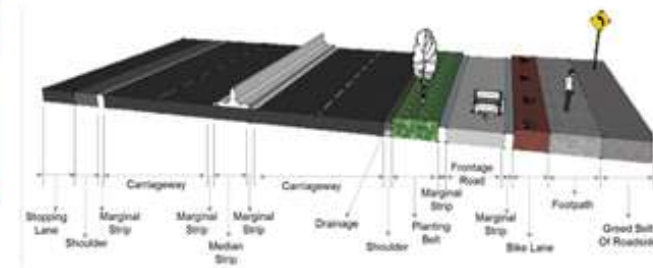
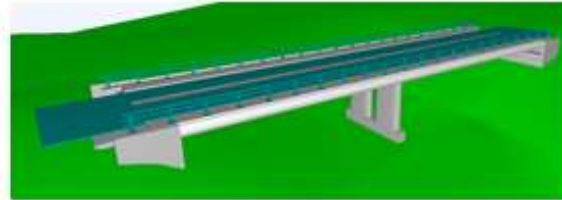
The CDE is a means of allowing information to be shared efficiently and accurately between all members of the project team – whether that information is in 2D or 3D, or indeed textual or numeric. The CDE enables multidisciplinary design teams to collaborate in a managed



- ❑ IFD – Data Dictionary
- ❑ IDM & MVD
- ❑ Conceptual model

Figure 4 – ISO 8000 Data Architecture & Structure

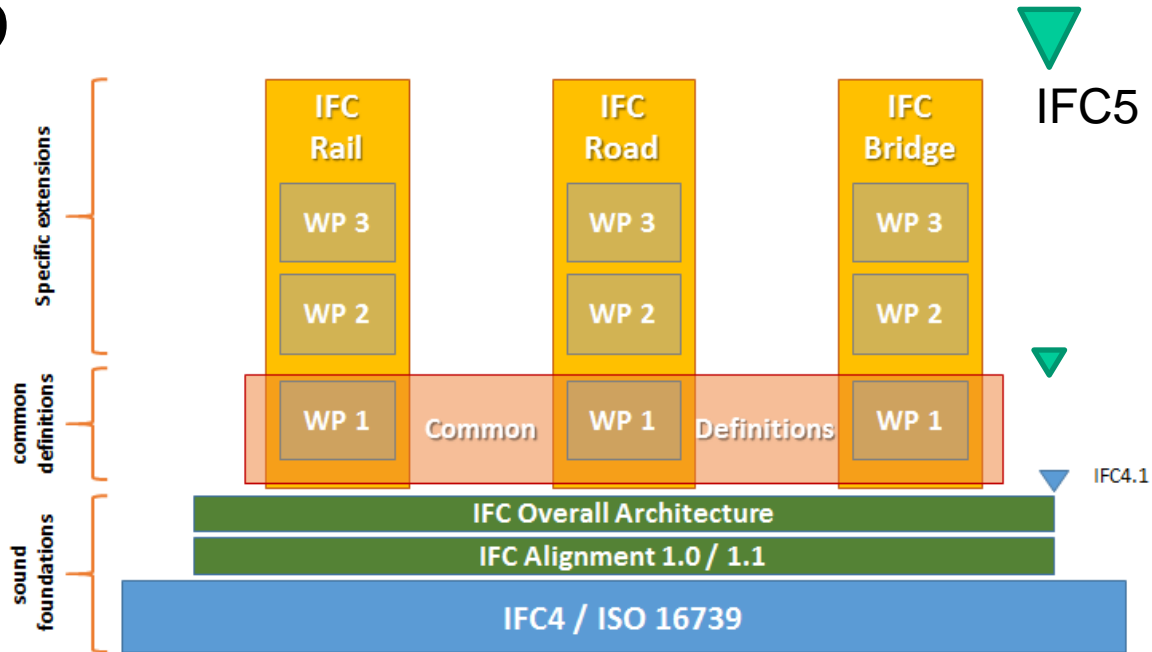




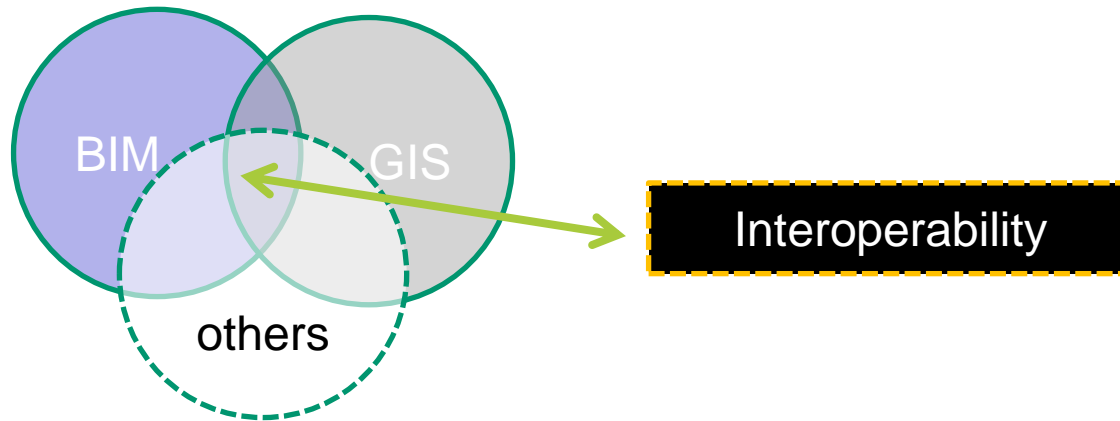
- ❑ IFC Bridge : further to MOU, preparation period is started
- ❑ PAS for Road by KICT in acceptance
- ❑ PAS for Rail by CRBIM accepted
- ❑ Alignment deployment: tests period November to December this year

IFC 4.1 including alignment 1.1

• IFC 5



IFC 5 in perspective, including
 Common schema
 Road
 Rail
 bridge





A64 – Modèle 3D

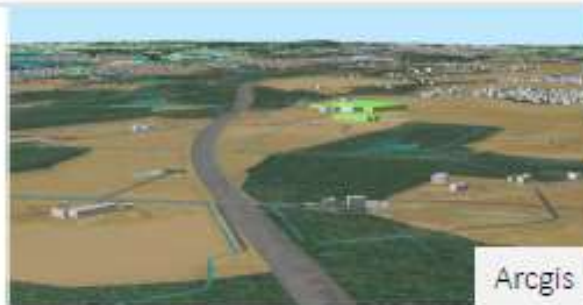


Infracworks

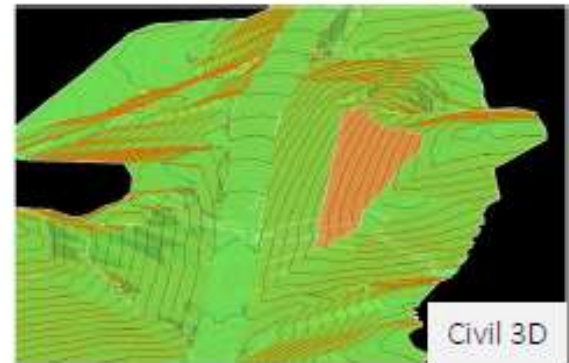


Vianova









A63 – SIG 3D

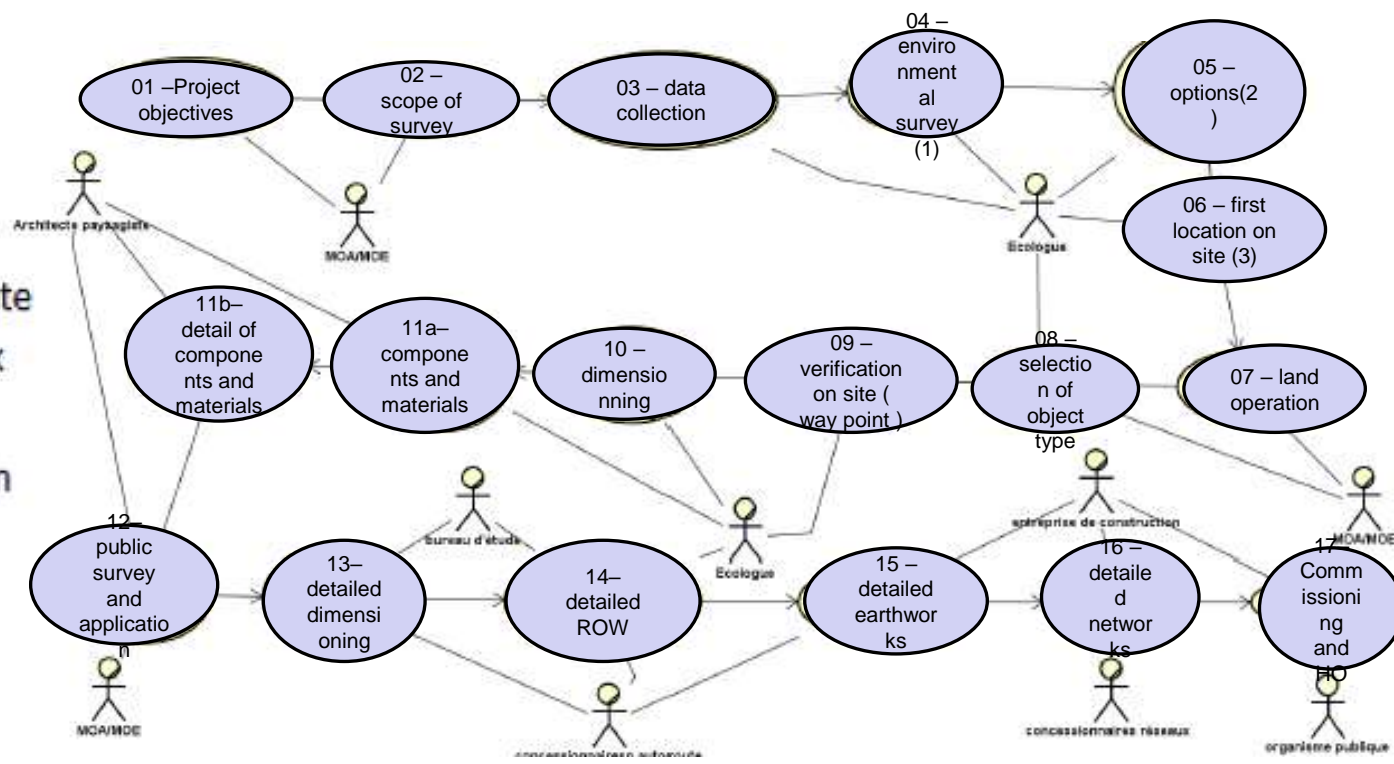


Arcgis



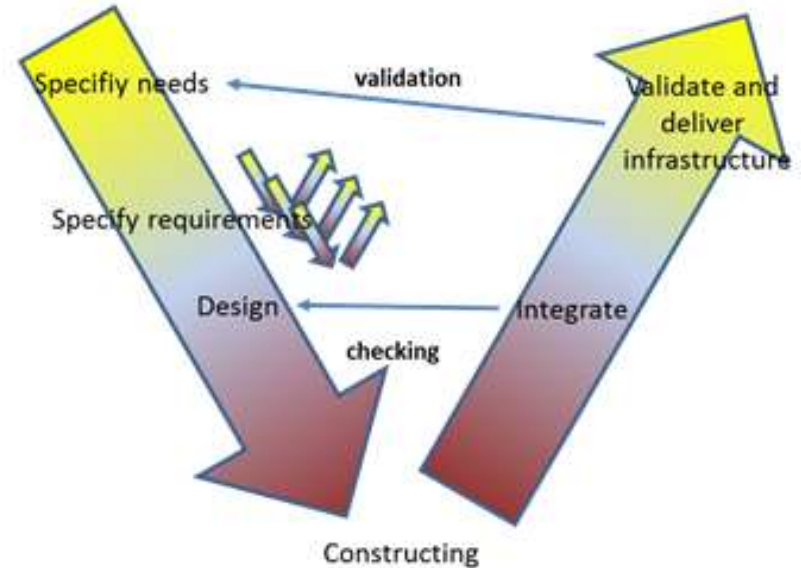
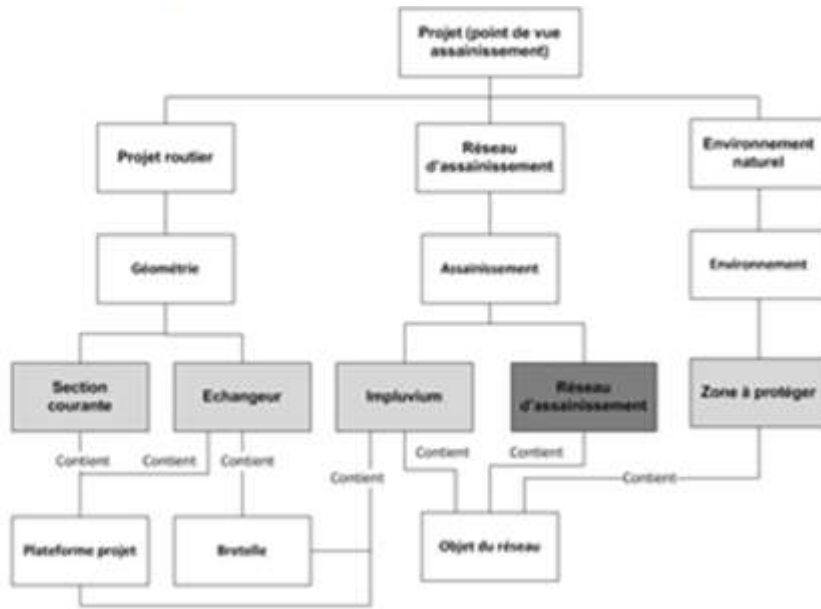
Civil 3D

-  Architecte paysagiste
-  bureau d'étude
-  concessionnaires autoroute
-  concessionnaires réseaux
-  Ecologue
-  entreprise de construction
-  MOA/MOE
-  organisme publique



Objects and requirements

- Requirements modelling

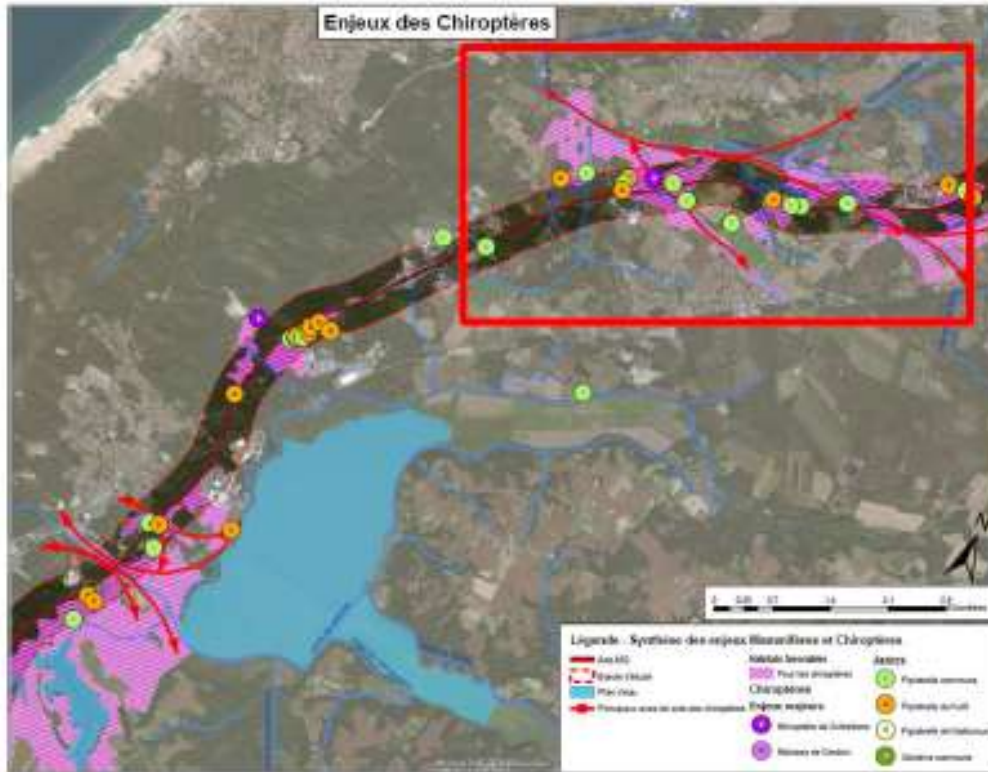


Environmental requirements

10



| ID | Type | Objectif | Description |
|----|------|------------------------|----------------------------------|
| 10 | MR | Improving transparency | To create a dedicated embankment |



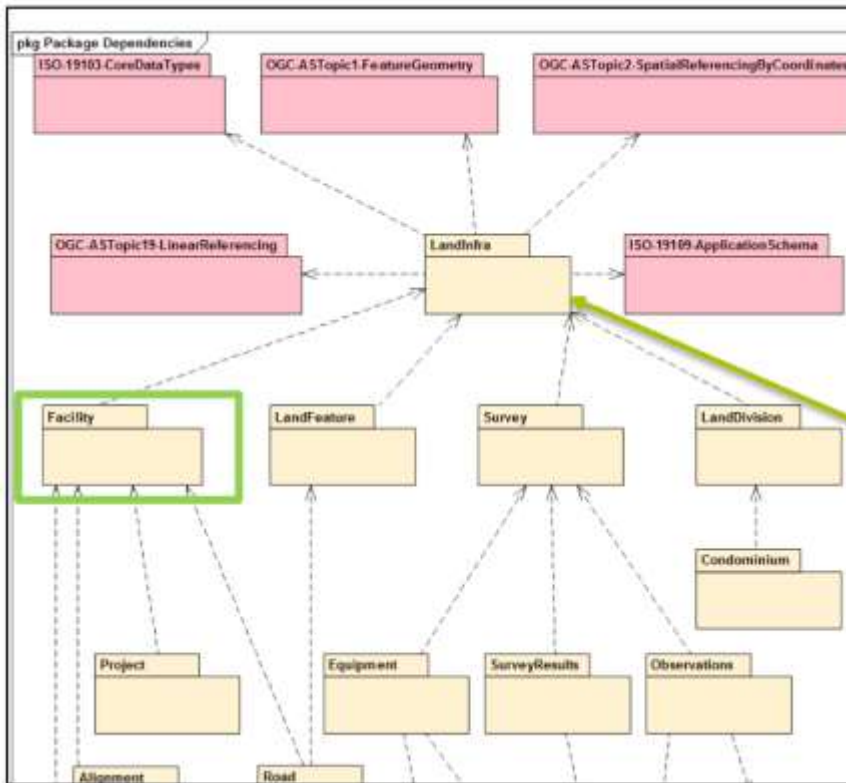
Rhinolophe



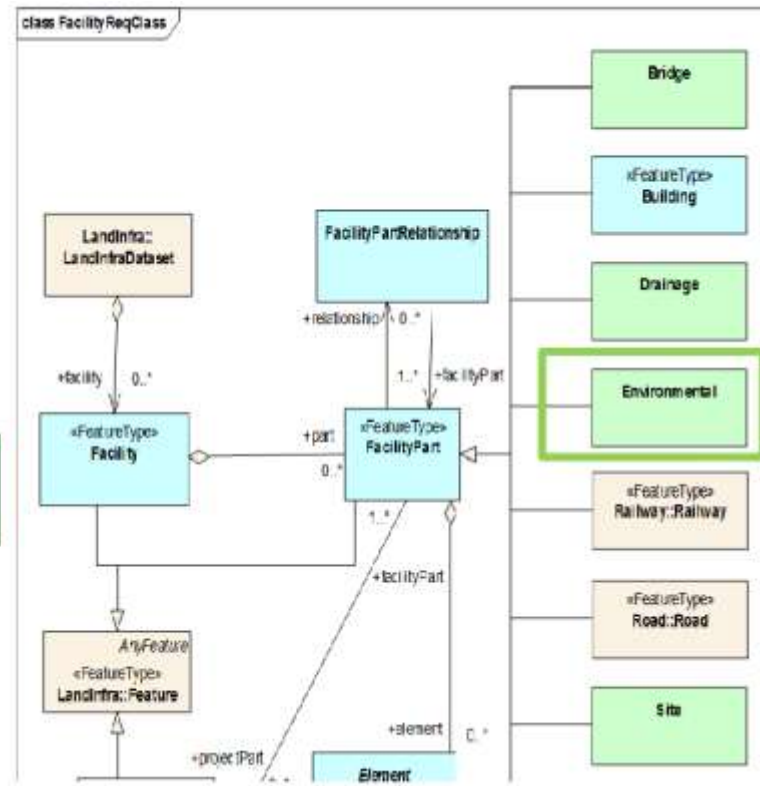
Minioptère de schreibers

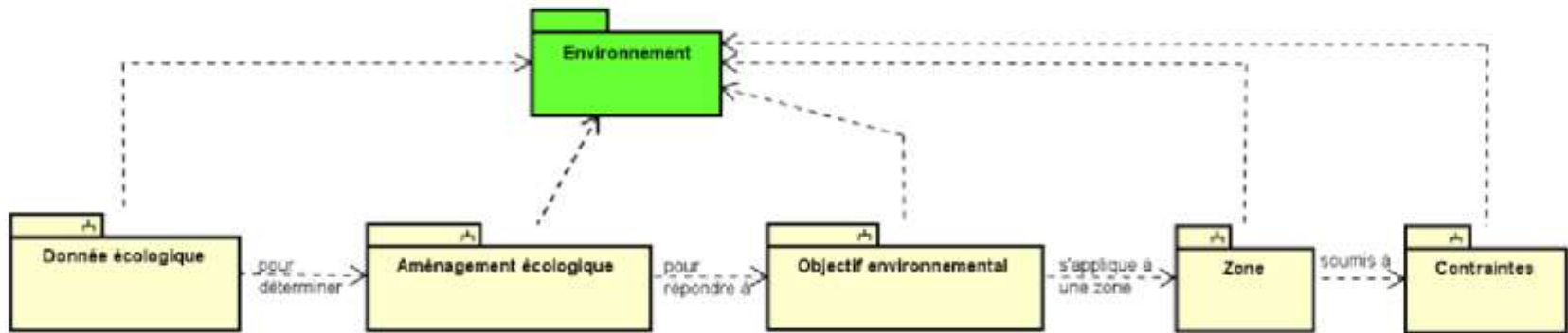
The structure to be designed





Environnement





Ecological data required for environmental assessment

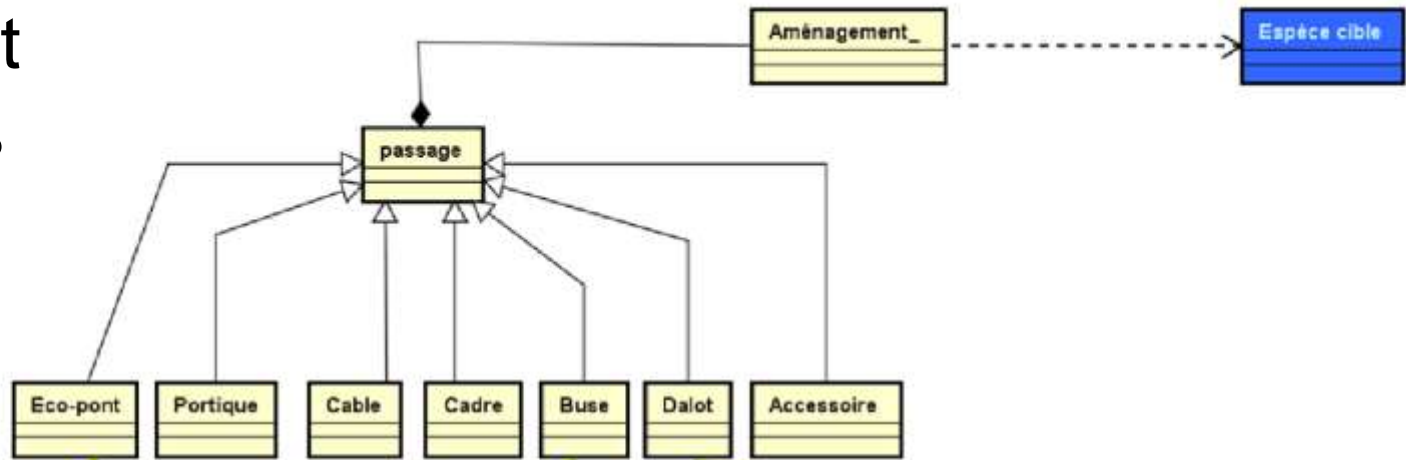
Data related to ecological works

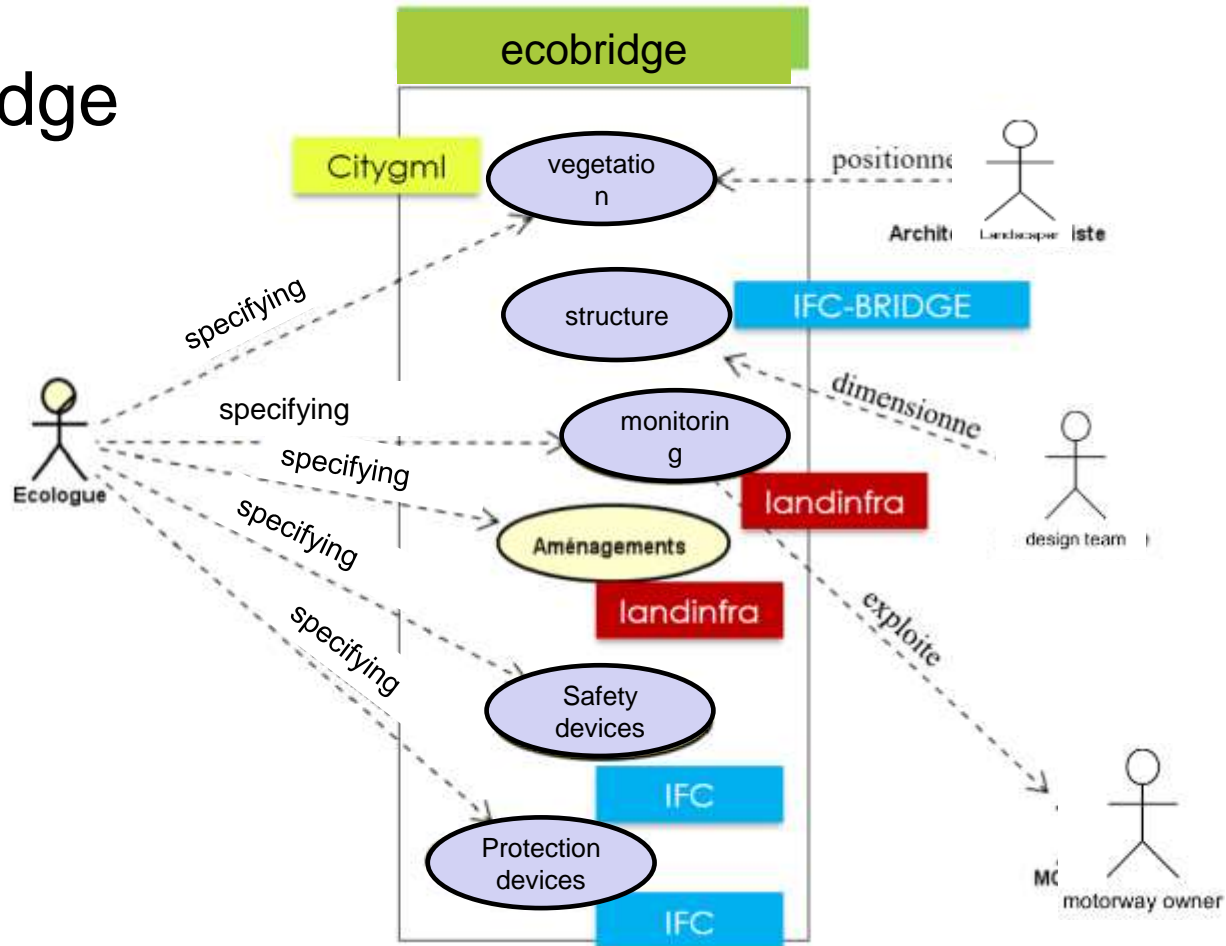
Requirements related to ecological works

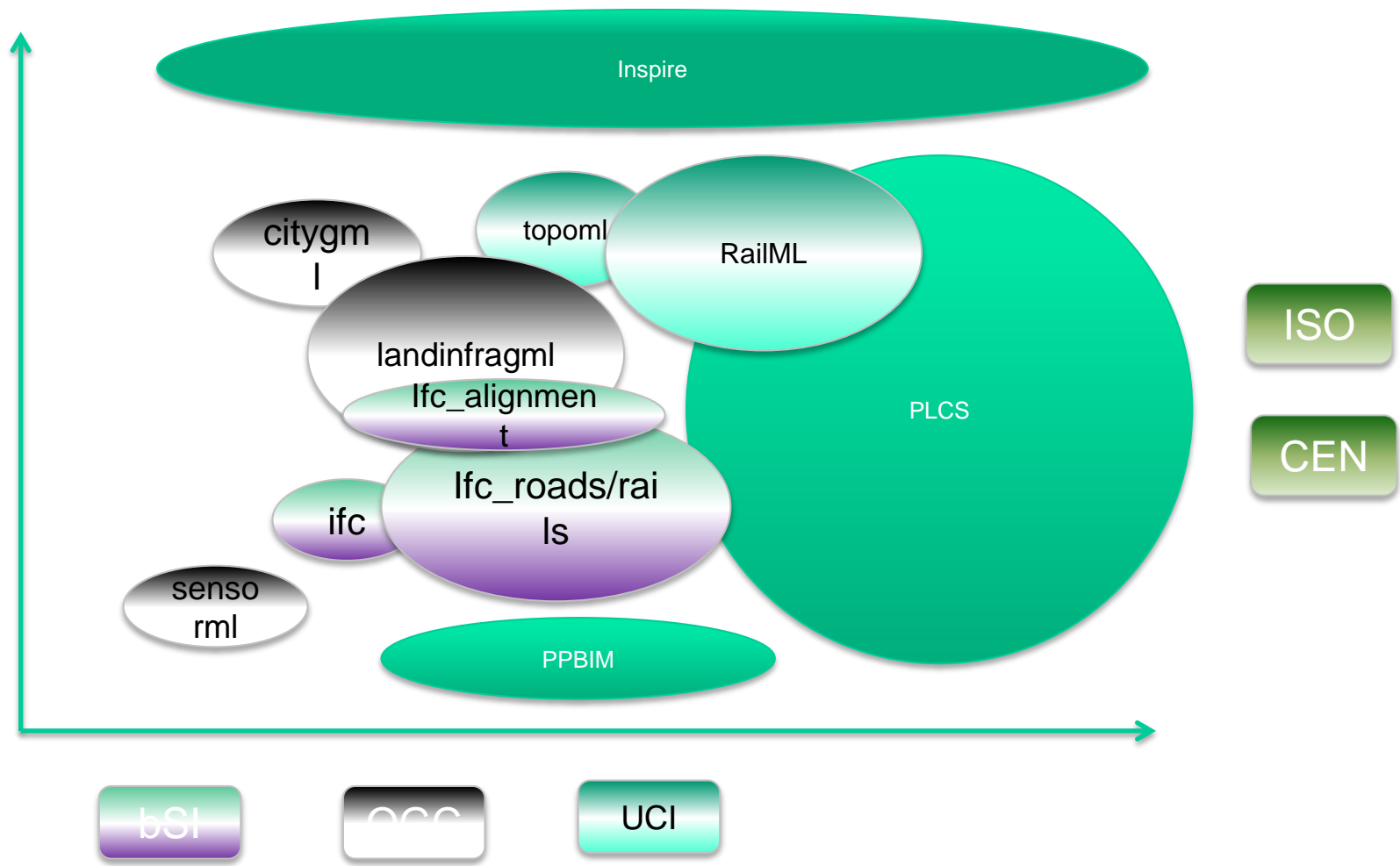
Information related to the site and landscaping

Information related to Existing conditions

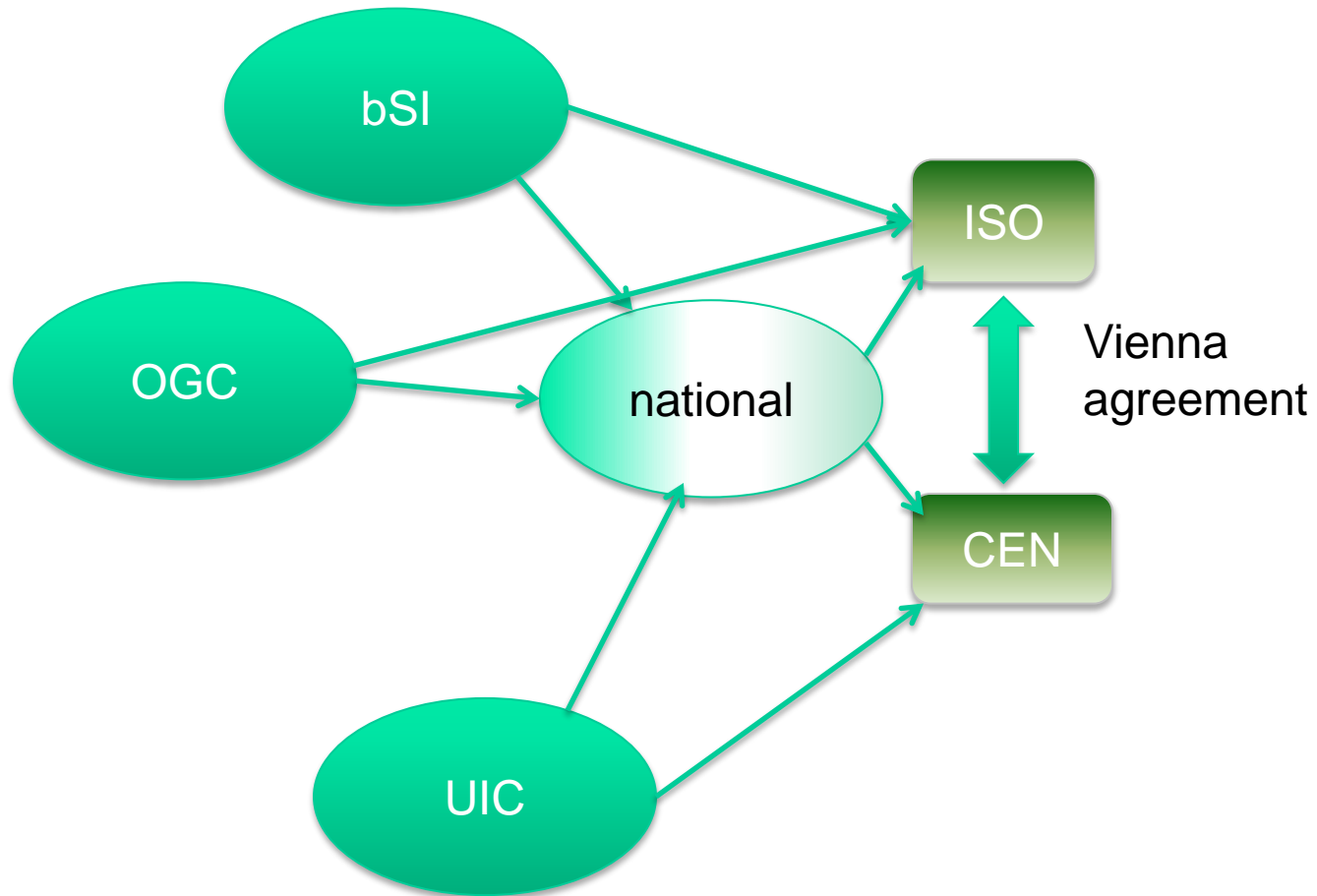
Object Types

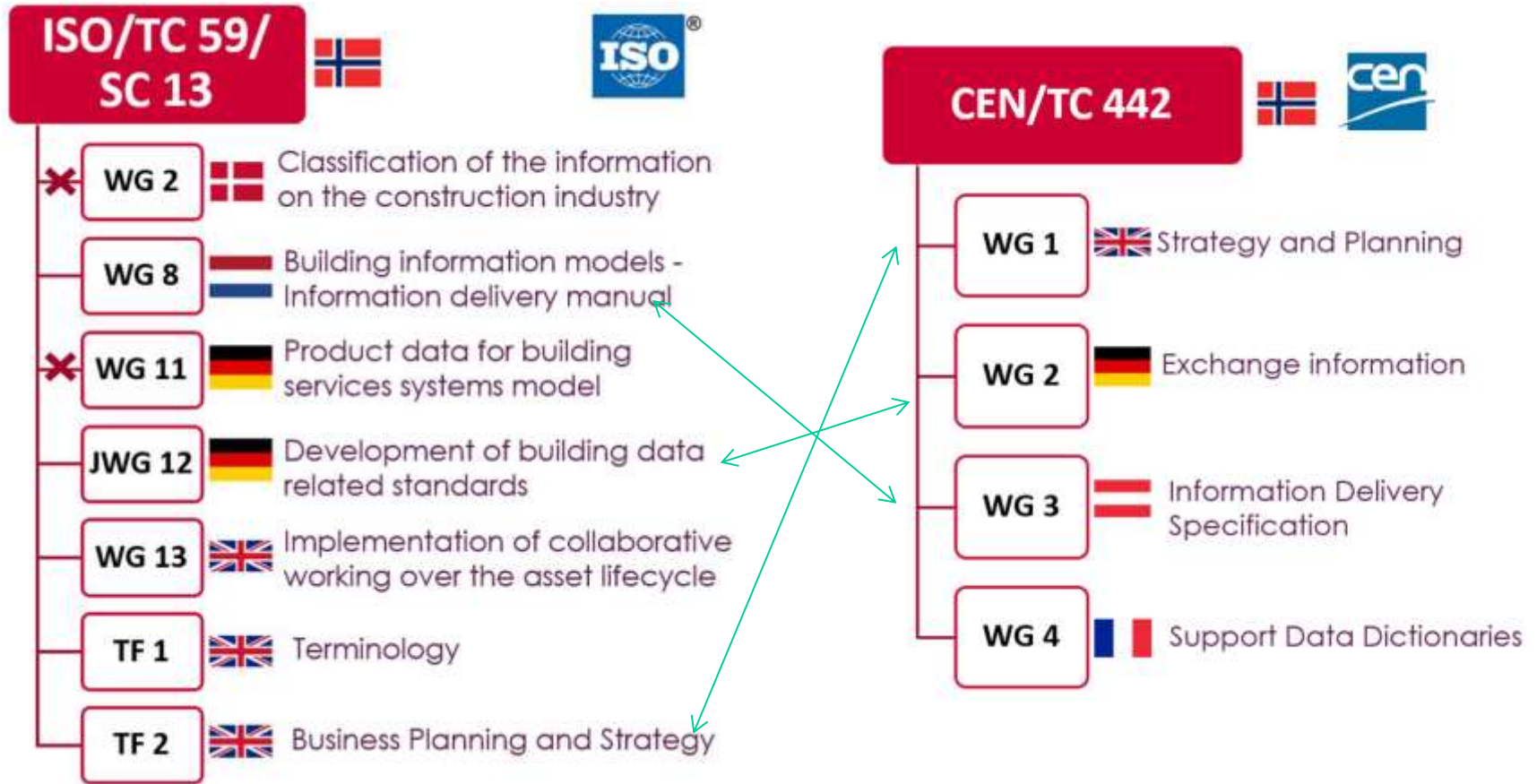






International organizations





4. Future Horizons

We have identified three key themes in which the future of digital value will manifest itself within the automotive industry. These will be explored in this section:

- Connected traveler
- Autonomous driving
- Digitizing the enterprise and ecosystem



Figure 2: Digital themes and initiatives

