

EBPPLP 1299 Frame contract

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TRANSPORT |

ALSTOM

1. Project description

2. Shelters

EBPPLP1299 : Project Description

• **Frame contract awarded to BELGOSIGNAL (BSA) = consortium Siemens - Alstom**

• **ALSTOM deliveries:**

- 1100 signalling shelters including TFM + Related Engineering
- 94 Smartlock 400
- Data preparation for Smartlock 400
- Various studies (database, availability studies, ...)
- Support to commissioning
- Repairs - Maintenance

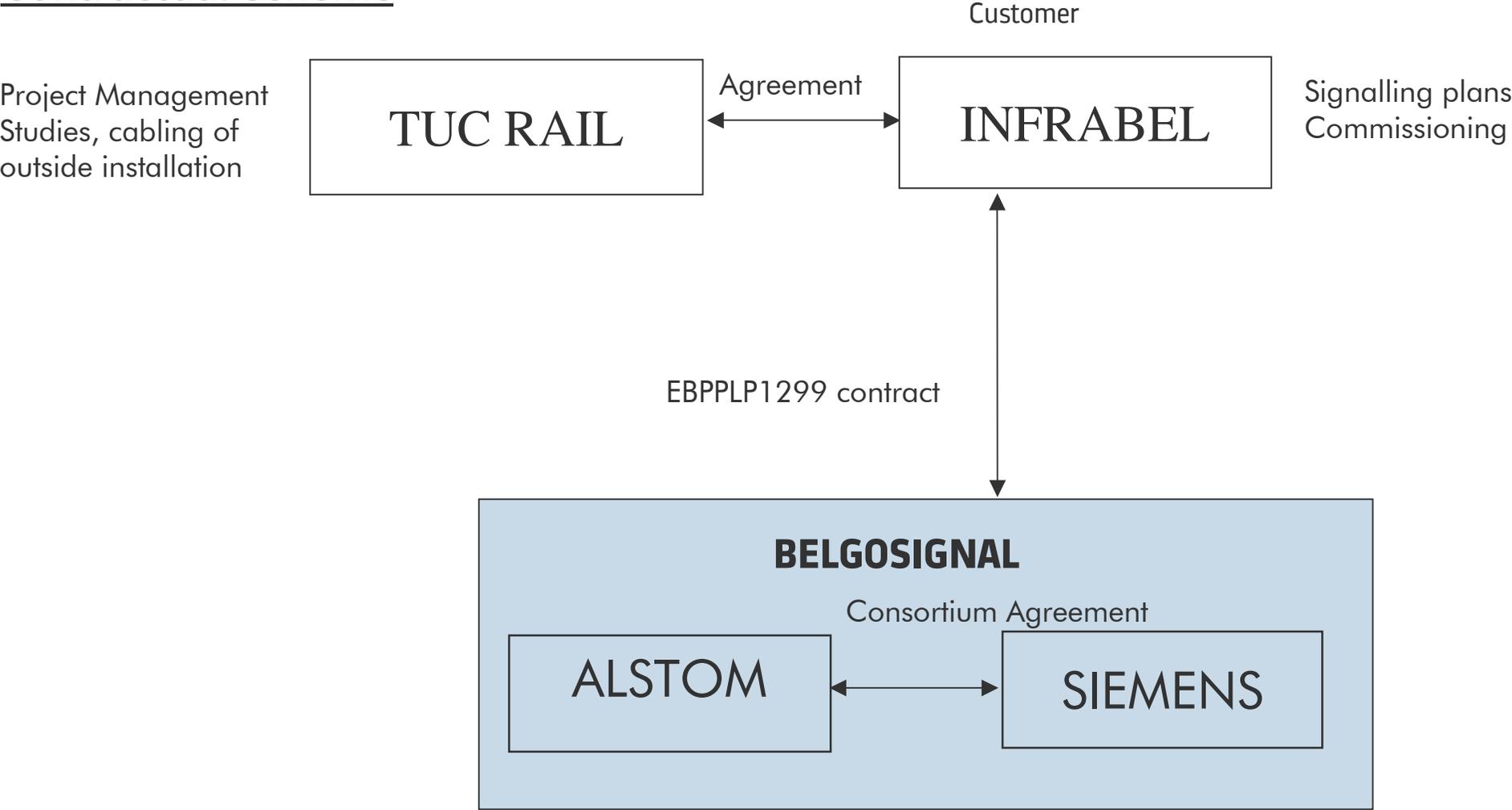
• **SIEMENS deliveries**

- EBP (Stratus computers) & parametrisation
- ACAT (axle counters)
- Installation works in the signalling cabins
- Repairs - Maintenance

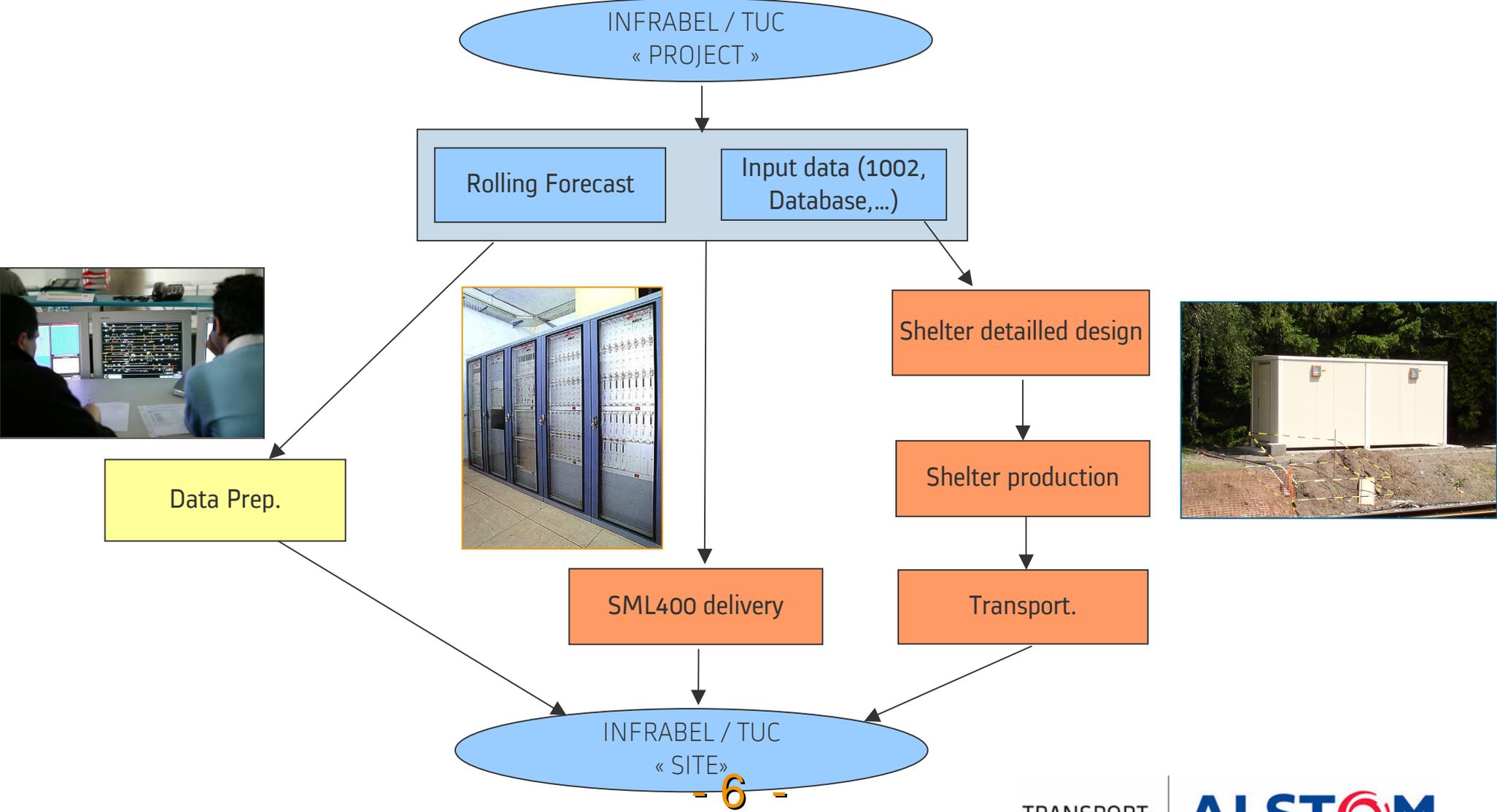
• **Every 6 months partial order issued by Infrabel**

EBPPLP1299 : Project Description

Contractual scheme



EBPPLP 1299 : Workflow



1. Project description

2. Shelters

Shelters

Integrated AAC
shelter

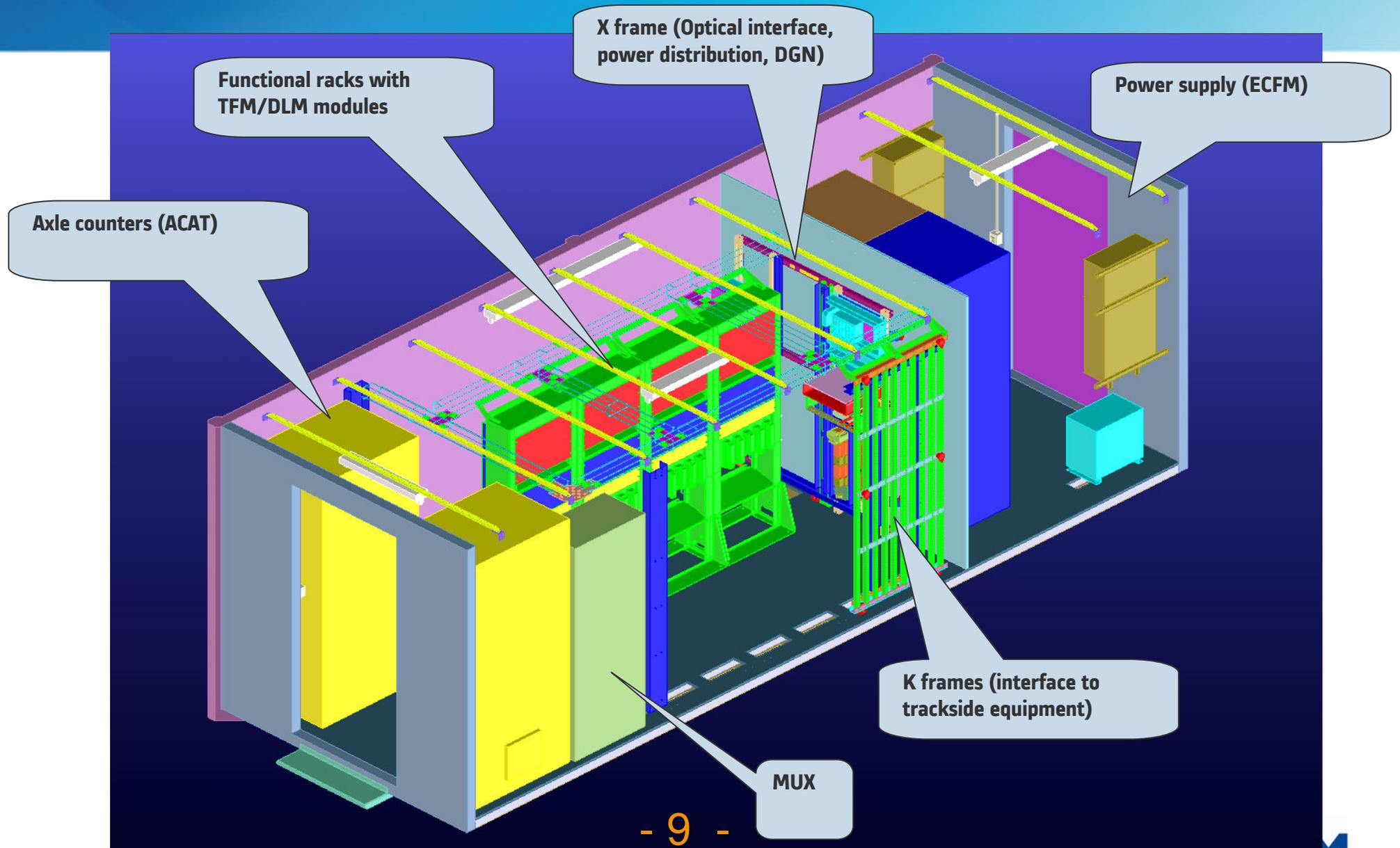
Dimensions (L*I*h)

6,3m * 2,3m * 2,8m

Weight : 4500 Kg



Shelter : 3D Model



Shelter



Shelter

- Workshop activities
 - Mounting and interconnections of equipments in the shelter
 - Functional test (black box for the customer)
- Delivery on site (transport by truck or train)

Shelter: Transport



Shelter : Transport



Shelter : Standardisation

- **Objectives**
- - Simplification of studies.
- - Quality improvement.
- - Faster delivery (3 months -> 1,5 months)
- - Ease of maintenance and possibility of evolution without cabling change

Lessons learned

- Standardize as much as possible
- Plug & Play concept confirmed.
Complete shelter integration & test in factory (much easier to do in factory than on site)
- Get agreement of all stakeholders on processes and input data
 - ✓ maybe longer than expected (ex: different way of working in the various zones)
 - ✓ importance of a common document base (ex: use of Smarteam tool)
 - ✓ importance of proper baseline definition

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