

LIÈGE CAREX

**Cargo
Rail
Express**



EURO CAREX

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Rail
Express**





Concept

- using the HST network for cargo
- a new mode of transport
- an answer to the growing problems of energy costs
- carbon emission
- mobility
- safety of goods transport
- multimodal
- regional development tool
- world premiere





Aim: to ensure modal shift from trucks and short/medium-haul flights to high-speed trains

Initiated at CDG Airport in February 2006 with the creation of the Roissy Carex association, the project involves in each country concerned:

- o local and regional public authorities,*
- o airport and rail infrastructure managers,*
- o major airfreight operators : FedEx, UPS, TNT, Groupe La Poste, Air France- KLM Cargo, WFS, etc.*

The Carex project is a European project which gathers an initial network involving Roissy, Lyon, Liège, Amsterdam, London and Germany.





A true sustainable development project

Context

- Strong long term growth of air express freight activity
- Increasing restrictions for operators, due to a reduction in the number of night slots available in Europe
- Fluctuation of the oil price
- Speed limit imposed to heavy vehicles
- Development of a high-speed train network and opening of the rail freight transport market to competition





A true sustainable development project

- *The project is in line with the European concerns and the orientations of the White Paper of the European Commission under preparation: aiming at rebalancing different modes of transport by revitalizing rail, monitoring the growth in air transport ...*
- *A very good Carbon footprint: Carex trains Vs trucks and planes that are currently used = **35 times less carbon emissions***



1st step: 2015

2nd step: 2018

3rd step: 2020

High-speed rail freight Euro Carex network



High-speed rail freight Euro Carex network

- 1st step: 2015
- 2nd step: 2018
- 3rd step: 2020

Legend for rail lines:

- 1.0M en service
- 1.0M en construction
- Lignes existantes
- 1.0M en projet
- Amélioration de lignes
- Projet à l'étude

Projet de réalisation:
ONC, Concessionnaires (Région, SNCF, CMAF)



High-speed rail freight Euro Carex network

- 1st step: 2015
- 2nd step: 2018
- - - 3rd step: 2020

— LRM existant
- - - LRM en construction
— Ligne de base
— LRM en projet
— Amélioration de lignes
- - - Projet à l'étude

Réseau européen
 OMC, Convention Européenne, CEMT

0 100 200 300 km





Partners: 5 local associations

- **Roissy Carex**
- **Lyon Carex**
- **HST Cargo Schiphol (Amsterdam Carex)**
- **London Carex (Eurotunnel)**
- **Liège Carex**





*European « Holding »:
The EURO CAREX Federation*

Created on April 26th, 2009, Euro Carex is an international non-profit association (AISBL), federates all Carex railports and has its headquarters in Brussels. It is chaired by Yanick Paternotte. This unit uses a lobbying activity and can also urge all types of actions to ensure the feasibility of this service (Raising of European funds, etc) and to develop its utilization.





Why in LIEGE?

- Liege Airport = multimodal platform
- Near a HST line
- Successful full cargo strategy
- Presence of an express courier on the site
- Transport and logistic = priority of the Walloon Region (Marshall Plan)
- Numerous transport and logistic companies on the site
- Economically interesting in terms of employment and image
- International competitiveness





Project progress

- Updating of the Business Plan at the European level. This will be the key for the whole project.
- Studies on Infrastructures and Airport/Railport Carex interfaces.
- European study on train paths in the process of being finalized:
 - *RFF coordination with its counterparts Infrabel, ProRail, Eurotunnel, HS1 and DB Netz, related to the group of Future Carex users.*





Project progress

- Study of railway connection in process on each site.
- Study on the rolling stock:
 - *Competitive dialogue procedure towards Alstom and Siemens: first proposals presented in January 2009 to loader customers and to representatives of Carex sites.*

Were studied : technical feasibility, maintenance solutions, prices and financing solutions, approval.





Project progress

- Relations with railway companies:
 - *Creation of the “Groupement européen des Chargeurs – GEC Carex” (group of future Carex users) to make easier discussions with European railway operators interested according different hypotheses: traction, pricing and organization of services, marketing, investment in rolling stock.*





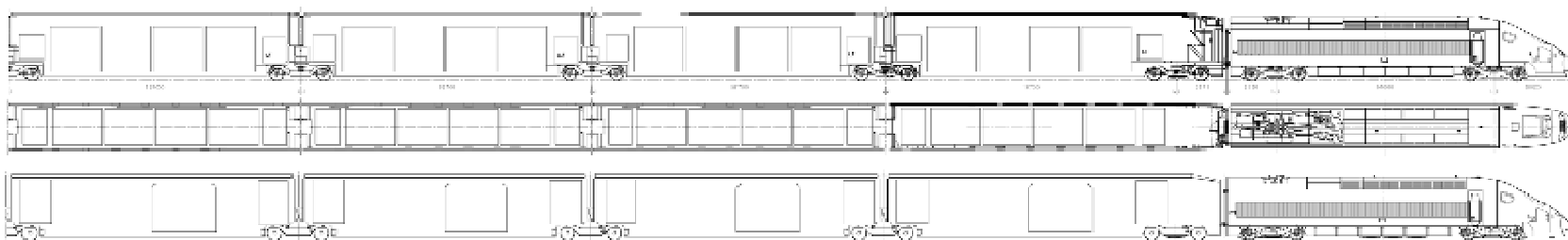
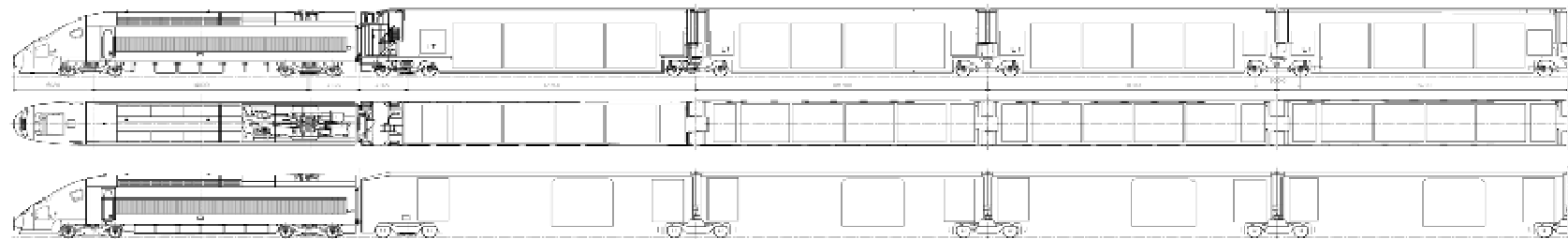
Actions 2010: European fundraising action

- Euro Carex is planning on submitting its project to **INTERREG IVB**, the Operational Programme for transnational territorial cooperation of North West Europe, allocated by ERDF (European Regional Development Fund).
- It is a priority of **INTERREG** to support European accessibility projects through new perspectives and a better use of existing capacities.
- Euro Carex needs to be selected in order to benefit from co-financing.
- Then the Marco Polo Program from the European Commission should help start up the Euro Carex service





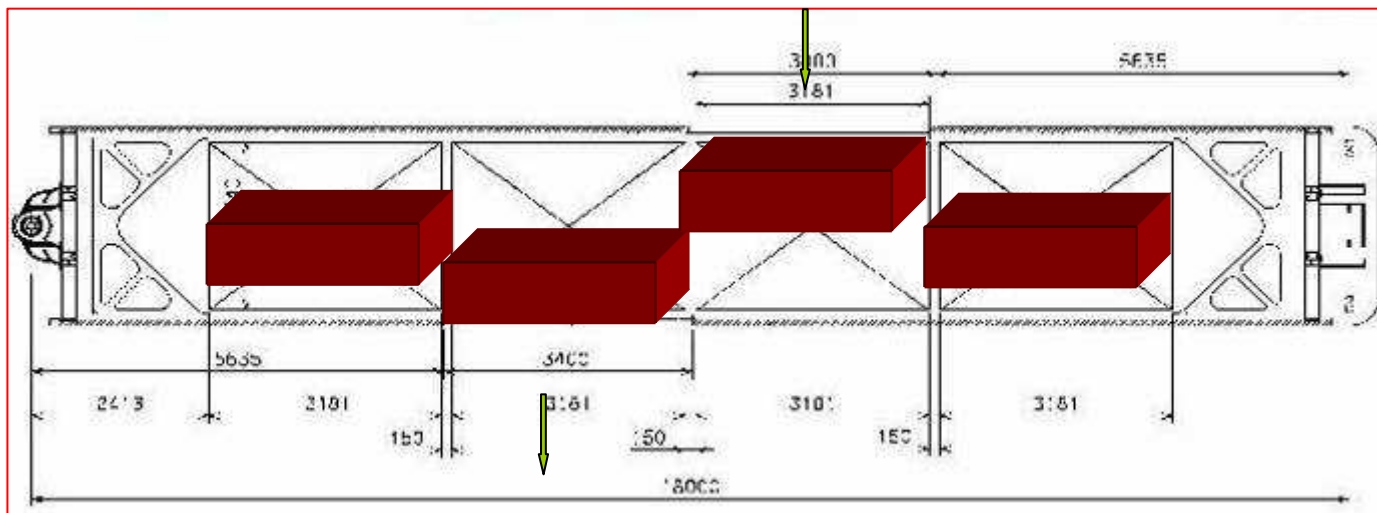
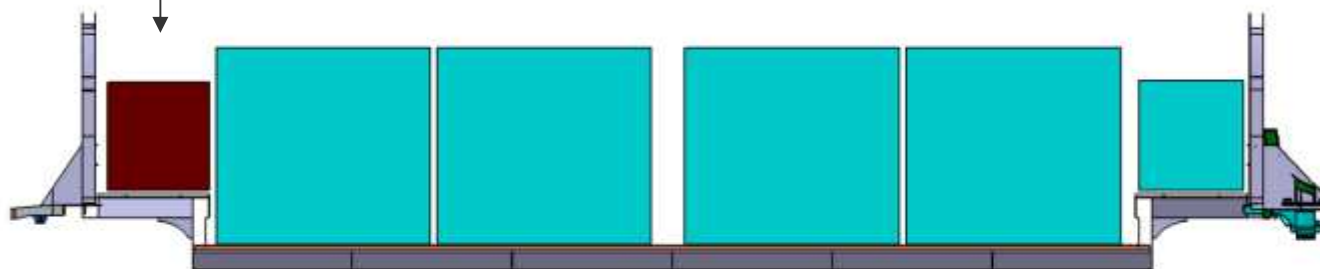
CAREX trainsets: 2 proposals



CAREX trainsets: 2 proposals



Technical zone

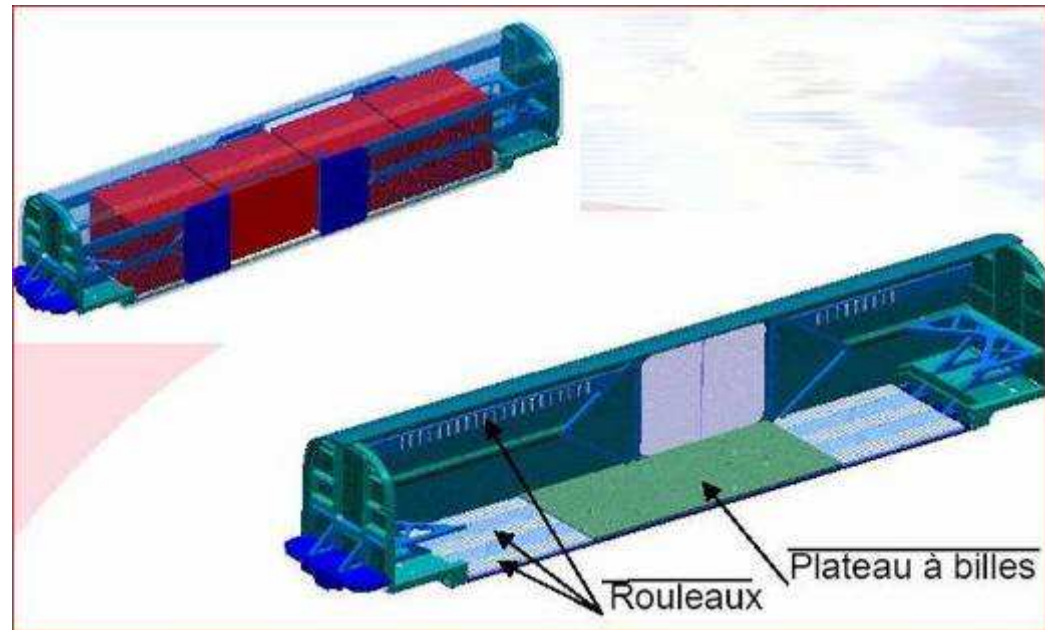
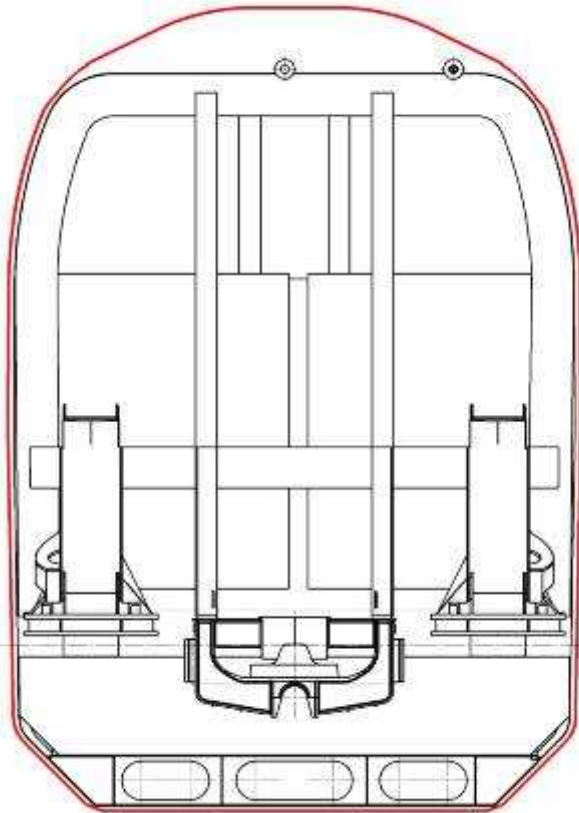


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CAREX trainsets: 2 proposals

ALSTOM |



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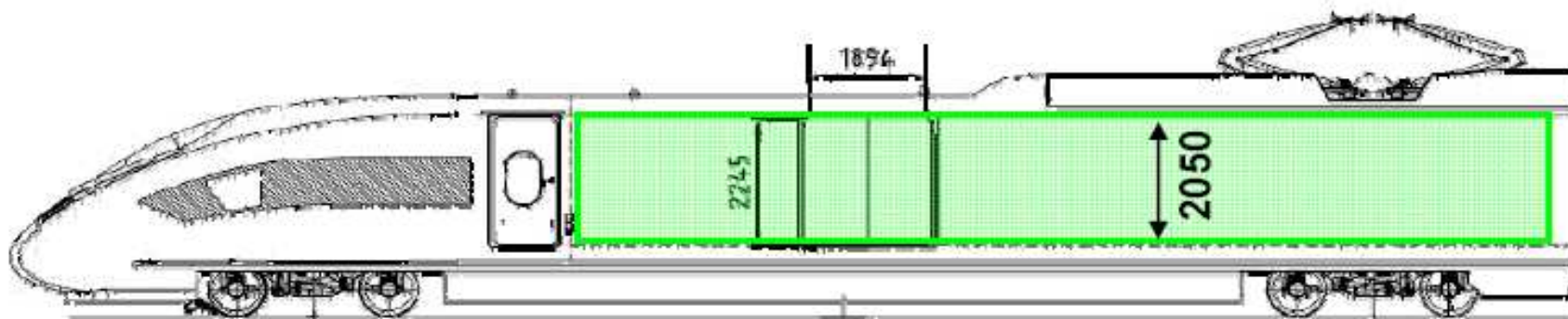
CAREX trainsets: 2 proposals

SIEMENS



CAREX trainsets: 2 proposals

SIEMENS

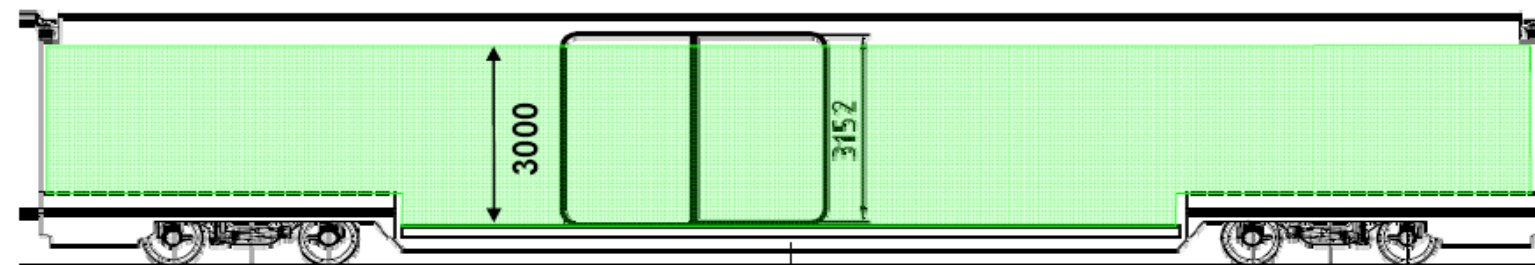
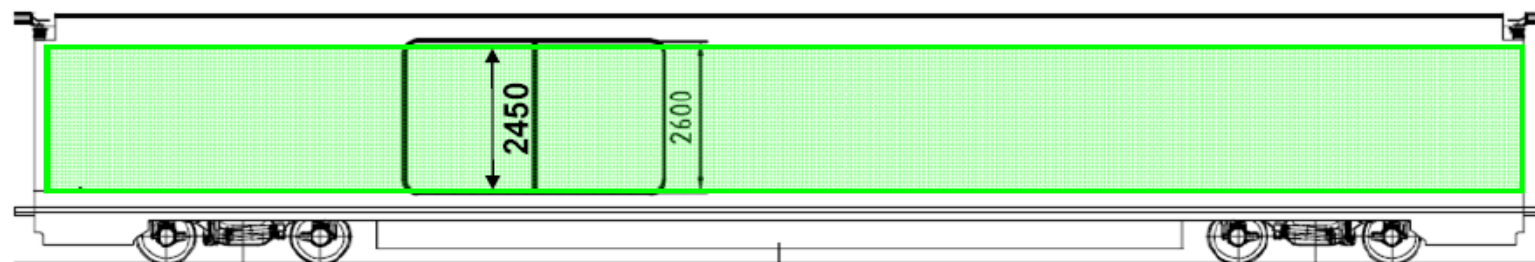
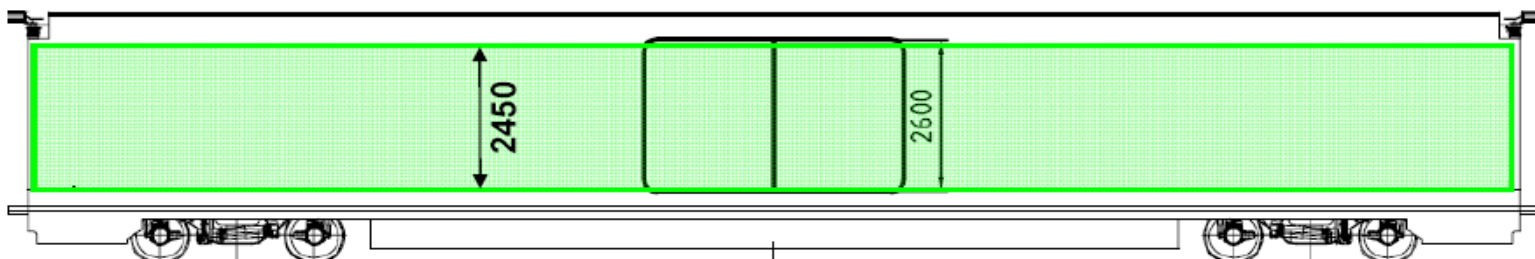


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CAREX trainsets: 2 proposals

SIEMENS





CAREX trainsets

CAREX trainset maximum useful load:

- *more than 100 metric tons*

At least the equivalent of:

- *1 Boeing B747 Freighter* or
- *1 MD-11 Freighter* or
- *3 Airbus A310 Freighter* or
- *7 Boeing B737 Freighter* or
- *6 to 7 trucks*

25 trainsets are necessary



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Helping to expand Liège Carex:

