

Benchmarking on Corridor Management **Models**

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EXECUTIVE SUMMARY

One of the objectives of the CLYMA project is the design of an intermodal management structure for the Lyon-Madrid axis, as a pilot system extensible to the whole corridor.

This benchmarking analyses the management models in 20 transport corridors throughout the world. The presented corridors include axis of different transport modes providing a wide vision of governance strategies in order to identify best practices and success factors for implementation.

STUDY ELABORATED BY: Institut Cerdà (2014)

The full document is accessible to the project's Stakeholders Interest Group on the CLYMA website: www.clyma.eu



DEVELOPMENT OF THE CONNECTION LYON-MADRID ON THE MEDITERRANEAN CORRIDOR



Co-financed by the European Union Trans-European Transport Network (TEN-T)

- Guadaajara Nadid



Foreword

This benchmarking has analysed **20 diverse** worldwide transport corridors as follows:

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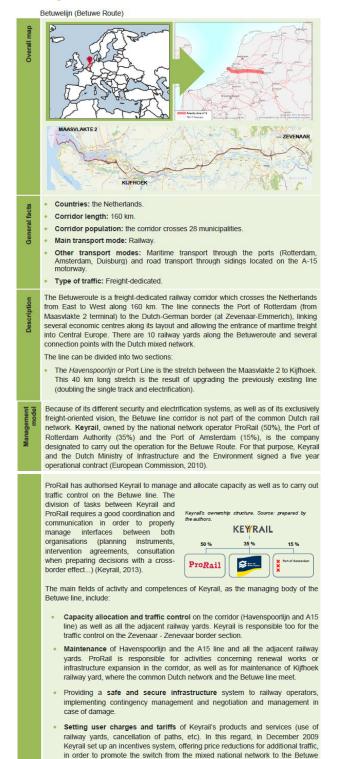
- Location: 11 European corridors, 3 African, 5 American and 1 Asian corridor.
- Geographical scope: 14 trans-national corridors and 6 along a single country.
- Transport modes: most of the selected corridors foresee intermodal connections on some of their hubs or logistics terminals, although the main transport mode can be railway, road or maritime, or inland navigation waterways.
- Management bodies of the corridors: private managerial bodies (private companies), public entities (governmental authorities) and public-private associations or alliances based on different business partnerships are analysed.

On the right side of this page, a

summary of one of the corridors analyzed, the **Betuwelijn**, has been included.

In this executive summary there is a summarised table that shows the main aspects of each corridor and shows the differences among them.

Example of corridor data sheet



An innovative aspect is that Keyrail has established itself as the supply chain manager for rail freight on the corridor by signing agreements in order to align rail operators, terminal managers and multimodal operator's rules. There are also agreements on mutual information which enable Keyrail to have an overview of the entire transport process and reduce the risk of disrubution of traffic.

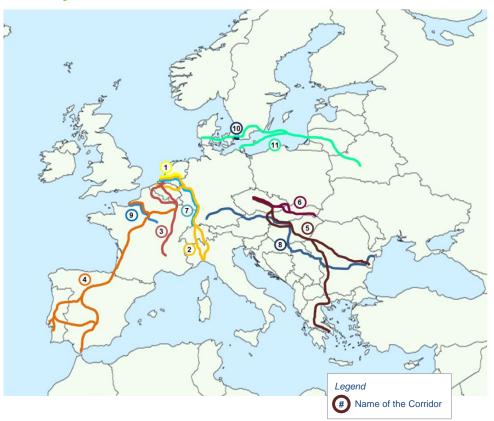
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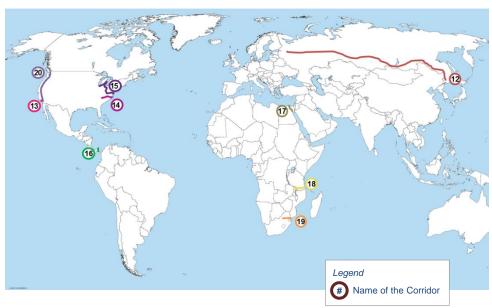


Overview of transport corridor analysed

Europe



Rest of the world



Railway Corridors

Betuwwlijn

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- 2 Rhine-Alpine Corridor
- 3 North-Sea Mediterranean Corr.
- 4 Atlantic Corridor
- 5 Orient East Med Corridor
- 6 Czech-Slovak Corridor
- 12 Trans-Siberian Railway
- 13 Alameda Corridor
- 14 NCRR Corridor
- 15 Heartland Corridor

Inland Waterways

- 7 Rhine Waterway
- 8 Danube Waterway
- 16 The Panama Canal
- 17 The Suez Canal

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Martime Corridors

HAROPA – Ports de Paris Seine Normandie

Inland Waterways and Maritime

10 Copenhagen Malmö Ports

🗥 Road, Rail and Rà Maritime

- 11 East-West Transport Corridor
- **18** Mtwara Development Corridor
- 19 Maputo Development Corridor
- 20 West Coast Corridor



Summary of managerial structures identified

| | | | | | FIELDS OF ACTION OF THE ORGANISATION | | | | | | | | | |
|---|--|-------------------------------|---------------|--|--------------------------------------|------------------------|-----------|------------------------------|--------------------|------------------------|-------------------------------|--|--|--|
| CORRIDOR | GEOGRAPHICAL SCOPE | MAIN MODE | INTERMODALITY | MANAGEMENT BODY | Legal framework | Planning & strategy | Financing | Marketing & communication | Charges collection | Capacity allocation | Infrastructure maintenance | | | |
| 1. Betuwelijn | Netherl ands | Rail | | KeyRail | | | | | | | 0 | Private company with permanent staff | | |
| 2. Rhine- Alpine Corridor | Trans-national Nether (Europe) ands | Railway | S | EEIG RFC1 | | 0 | | S | | 0 | | EEIG group: Executive Board of Ministers + Management Board of National Infrastructure Managers + Advisory Boards + Working Groups. The organisation is supported by the European Commission | | |
| 3. North-Sea Mediterranea n Corridor | Trans-national (Europe) | Railway | | EEIG RFC2 | | | | | | | | EEIG group: Executive Board of Ministers + Management Board of National Infrastructure Managers + Advisory Boards + Working Groups. The organisation is supported by the European Commission | | |
| 4. Atlantic Corridor | Trans-national (Europe) | Railway | 0 | EEIG RFC4 | | S | | S | | 0 | | EEIG group: Executive Board of Ministers + Management Board of National Infrastructure Managers + Advisory Boards + Working Groups. The organisation is supported by the European Commission | | |
| 5. Orient- East Med Corridor | Trans- national (Europe) | Railway | | RFC7 Boards | | | | | | S | | Executive Board (respective transport Ministers) + Management Board (infrastructure managers & allocation bodies) + 6 Working Groups + Secretariat + 2 Advisory Groups | | |
| 6. Czech- Slovak Corridor | Trans-national (Europe) | Railway | 0 | RFC9 Boards | 0 | 0 | | 0 | | 0 | | Executive Board of Ministers + Management Board of National Infrastructure Managers + 2 Advisory Groups + 4 Working Groups | | |
| 7. Rhine Waterway | Trans-national (Europe) | Inland Navigation | | Central Commissi on for the Navigation of the Rhine - CCNR | S | S | | | | | | State Members: 20 Commissioners (4 from each state member) + 10 Deputy Commissioners (2 from each state member)+ 10 Committees + 15 Working Parties | | |
| 8. Danube Waterway | Trans-national (Europe) | Inland Navigation | | Danube Commissi on | ⊘ | | | | | | | 11 Member States+10 Observer States. The board is composed of one president, one vice-president and one secretary. Also includes 11 officers of the Secretariat for each Department. | | |
| 9. HAROPA - Ports de Paris Seine Normandie | France | Maritime & Inland Navigat. | | HAROPA EIG | | ⊘ | | ⊘ | | | | HAROPA EIG (1 director from each port authority -Le Havre, Rouen, Paris-)+ Department directors and Secretariat interacting in all 3 port authorities | | |
| 10.Copenhag en – Malmö Port | Trans- national (Europe) | Maritime | | Copenhag en Malmö Port - CMP | | | | | | | 0 | Local authorities (Copenhagen and Malmö) and private investors | | |

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| | | | | | | | FI | THE ORGANISATION | | | | |
|--|--------------------------------|--|---------------|--|-----------------|------------------------|----------|------------------------------|---------|------------------------|-------------------------------|---|
| CORRIDOR | GEOGRAPHICAL SCOPE | MAIN MODE | INTERMODALITY | MANAGEMENT BODY | Legal framework | Planning & strategy | | Marketing & communication | ction | Capacity allocation | Infrastructure maintenance | Governance structure |
| 11. East-West Transport Corridor | Trans- national (Europe) | Rail and maritime | | East West Transport Corridor Association - EWTCA | | | | | | | | Stakeholders member association. The governance structure is not operative yet |
| 12. Trans- Siberian Railway | Trans-national | Railway | S | Coordinating Council on Trans-Siberian Transportation - CCTT | | | | S | | | | Chairman of the CCTT (President of the Russian Railways)+Management board (formed of infrastructure managers, association of forwarders, association of rail operators) + Secretariat + Working Groups |
| 13. Alameda Corridor | California | Railway | ⊘ | Alameda Corridor Transportation Authority - ACTA | | ⊘ | | | | | | 7 members of the Board (2 from each port authority,2 from each city council and 1 metropolitan authority) |
| 14. NCRR Corridor | North Carolina (US) | Railway | | North Carolina Railroad Company - NCRR | S | | ⊘ | | | | | Private company (shared with state). 1 chairman+1 vicechairman+1 secretariat+10 local representatives |
| 15. Heartland Corridor | Trans- national | Railway | | Norfolk Southern - NS | | 0 | | | | | | Private company with permanent staff |
| 16. Panama Canal | Panama | Maritime | | Autoridad del Canal de Panamá – ACP | 0 | | 0 | | 0 | | Ø | The Board of Directors (1 general administrator + 11 department members) is designated by the public authorities of the Republic of Panama |
| 17. Suez Canal | Egypt | Maritime | | Suez Canal Authority -SCA | 0 | | ⊘ | | | | ⊘ | Board of Directors (1 chairman+13 department directors) designated by the Egyptian government |
| 18. Mtwara Development Corridor | Trans- national | Road, rail, maritime and lake transport | S | No active authority | | | | | | | | |
| 19. Maputo Development Corridor | Trans-national | Road, rail and maritime | S | Maputo Corridor Logistic Initiative - MCLI | | S | | S | | | | Multi-stakeholders corporation: 12 Executive Directors (rail operators, infrastructure managers, public transport department, port operator, logistics, border security and cargo handling companies)+ 1 chairman from each country |
| 20. West Coast Corridor | Trans-national | Road, rail, maritime and air | S | West Coast Corridor Coalition - WCCC | | | | | | | | Directors Board (30 members Transportation policy members of Alaska, California, Oregon and Washington)+Executive Committee (Alaska and California Departments of Transportation, and council association of Oregon) |



Main findings

The review of the existing governance models worldwide shows **that there is not a single management solution** with regard to transportation corridors. Structures vary widely in terms of legal status, number of members, tasks and skills depending on the different corridor's contexts: different lengths, geographical scope, stages of maturity, main modes, hinterland's activity...

Most common competence and fields of actions

- Activities oriented to the establishment of an appropriate legal or regulatory framework, aimed at setting a common framework for the different stakeholders as well as for the various countries involved in the corridor development.
- Planning and strategic concerns, in order to ensure a harmonised development of the transport axis between countries and infrastructure managers, and generating knowledge about the economic prospects of the corridor or its implementation plan.
- Marketing and communication processes, both external (making the work publicly available and promoting the corridor) and internal (allowing a smooth communication, good practices exchange and identification of common and specific needs of the organisation members

Investment on infrastructure is rarely assumed by the management body, except for cases in which the manager is also the owner of the infrastructure (this only occurs in one-country corridors).

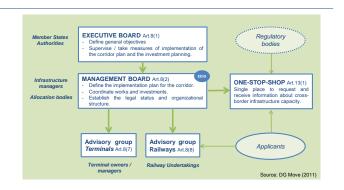
Lessons learnt from the benchmarquing

- Setting a management structure can be challenging when countries involved have very dissimilar situations.
- Encouragement of public-private consortia.
- Multinational organisations offer better performance.
- Strong commitment of all the association members is a key factor for the structure success.
- Participation of different stakeholders' members (administrators, customers, governments, businesses, etc.) is very positive.
- Transparency, external coordination and fluent communication among all participants are essential.
- Studies and works developed by specific working groups within a governance structure enable the monitoring of the work progress achieved

Although it is advised by the EU to build a corridor management including all modes of transport, the benchmarking results show that the multi-modal approach of corridor management is significantly less usual than one-mode focused organisations. In fact, today there is no multimodal management structure for a specific corridor anywhere in the world.

Management structures

Among the analysed legal and institutional options for corridor management, several corridors (most of them railway European corridors) are managed by associations with the same organizational structure (according to Regulation (EU) 913/2010, for Rail Freight Corridors governance). The structure of these management organizations, as well as the main tasks of each of its bodies, is schematized in the following image (DG Move, 2011).



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Conclusions C8 for the Lyon-Madrid axis

The Mediterranean Corridor Global project is a multi-modal transport corridor (covering roads, rail lines, ports and airports) which crosses Europe from East (Algeciras) to West (Ukrainian border). It is one of the corridors of the TEN-T Core Network and includes the Rail Freight Corridor 6 (RFC6) and the ERTMS corridor D (Valencia -Lyon - Ljubljana - Budapest), which shall be integrated into the multi-modal TEN-T.

Recommendations to be taken into account in the creation of a management structure for the Mediterranean Corridor are the establishment of a **multi-stakeholder and trans-national association**, as it **broadens the scope of action** of the corridor from a specific part of the infrastructure to other issues such as hinterland connections, cross-border interoperability, harmonised cross-border processes and promotion of the global axis.

There are different options for the legal form of the organization, being associations and EEIGs the most usual in Europe. The choice of one option rather than others depends on the expected level of members' commitment or legislation concerns (for example, an EEIG is subject to European instead of national regulations).

Regardless of these legal implications, a multilevel governance perspective (with assembly, boards and a secretariat) is suggested as it ensures the involvement of the managing members while allowing wide participation of stakeholders in lower statements of the management structure. Including representatives of the Member States concerned, regional representatives (when approaching a narrow scope of the corridor) and public and private entities is strongly advisable.

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The establishment of working groups which can focus on particular topics related to the corridor (rail infrastructure, rail capacity and rail slots, road capacity, terminals, ERTMS and interoperability, accompanying measures, crossfinancing, rail freight and passenger traffic) have proved to be efficient tools for monitoring the corridor progresses on a stable basis.

Existing management structures for RFC6 and ERTMS corridor D should be considered in order to avoid overlapping of government structures in the same corridor. In that sense, the existing working groups and the new ones can be assembled in order to avoid duplication of works but following up the studies started.



CLYMA project consists of the implementation of the corridor approach to a section of the Mediterranean corridor, concretely to the Western part of the corridor and specifically to the Lyon-Madrid Axis.

The project comprises of studies and actions on the organization and optimal implementation of the **TEN-T network**, taking into account long term perspectives, environmental aspects and associated needs, as well as studies that promote environmental sustainability, resource efficiency and low-carbon transport within an integrated transport concept. This should stimulate the deployment of the Green Corridor concept. The project also intends to develop a managerial structure for the intermodal corridor.

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Tartagon

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Barcelor



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Co-financed by the European Union