



WP8: FUNCTIONAL, ECONOMIC AND ENVIRONMENTAL ANALYSIS

DHL + CENIT

1st global meeting

Kiruna, April 2017



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- The **major objective** of WP8 is to analyse the functional, economic and environmental role of intermodal terminals on the **overall logistic network**
- It **links the quantifiable findings from WP4 to WP7** and the ratings from WP3 with a **high level** analysis on the trends of the sector (technology and market evolution studies and statistical data and forecasts)
- The output should provide **recommendations** for new or remodeled intermodal terminals regarding the 3 roles: **functionality** (location, operation and integration with infrastructure), **economic** (performance and profitability) and **environmental** effects



WP8 OBJECTIVES AND DELIVERABLES

2 BLOCKS

8.1.1 Functional analysis	8.1.2 Economic analysis	8.1.3 Enviromental analysis
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8.2.1 Current logistics studies	8.2.2 Statistical data and forecasts
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8.3 Validation

8.4.1 Integration previous WPs	8.4.2 Recommendatio ns
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**INFO GATHERING
DIGEST & ASSESSMENT**

**VALIDATION
APPLY TO RESULTS**

8.1.1 Functional analysis

WHAT

Grid integration and role
Opportunities and risks current
European flows
Location, size and functional
scope (modes)

8.1.2 Economic analysis

Microeconomic: Specific
incomes and expenses
Macroeconomic: Effects on
hinterland, savings, economic
benefits (terminal, shippers)
CBA

8.1.3 Enviromental analysis

Environmental impacts: carbon
footprint, environmental risks
(dangerous goods), noise
Terminal related / whole chain
Contruaction and enlargement
vs operation

HOW

Studies and reports (own
structure and public)
Current decision making
proceses and know-how
Qualitative assessments
White papers
Scientific literature
Technical publications
Evaluation manuals
Know-how and expertise
from consortium

D8.1 (M20)
Definition and
description of funcional,
economic and
environmental analysis

WHAT & HOW

Analysis of

8.2.1 Current logistics studies

- Studies on current market and trends
- White papers, scenarios of the future
- Logistic networks developement
- Evolution of trade main drivers (policy, demography, energy, technology developements, economy, finance)

8.2.2 Statistical data and forecasts

- Public statistics
- Anual reports of private companies such logistics providers, infrastructure developers, operators and users (parteners)
- Other forecasts

D8.2 (M27)
Assessment of current
transportation and
logistic studies and
trade statistics



WP8 OBJECTIVES AND DELIVERABLES

8.3
Validation

WHAT

Integration of KPI values (D8.3)
Test on terminals and with experts (D8.4)

HOW

Guided interviews
Workshops
Paper discussion
Delphy
Obtained KPI values
Cause and effect measures
Fuzzy logic

8.4.1
Integration
previous WPs

Summarize findings
Extract conclusions and recommendations (D8.5)

Evaluation framework
Partners discussion

8.4.2
Recommendations

WP8 RISKS AND OPPORTUNITIES

Ass. WP	Risks	Mitigation measures
8.3	R24: Delay in validations at selected terminals	Add resources, new collaboration schemes
8.2	R25: Specific concept / results cannot be agreed among partners	Review process and corrective actions
8.4.1	R26: Failure in integration of Key Results	Reinforce integration task. Involve new end users. Reinforce commitment of facilities for demonstration activities

Ass. WP	Risks	Mitigation measures
All	Analysis disconnected from other WP approaches and findings	Involve companies and regular alignment
8.2	Distortions due to high volatility of logistics business	Multidisciplinary WP team: research experts combined with business experts

Ass. WP	Risks	Mitigation measures
8.1-8.2	Market knowledge and approach lost with leadership transfer	Increase PM of CENIT, compensated with lower personnel costs. Add "8.0" Lit. Rev.
All	Lack of coordinated effort due to atomized partnership	Specific role and requests per partner. Force 8.1-8.2 bilateral meetings.
8.1-8.2	Dissemination limitations. Congress + Peer review processes	Speed up completion of work packages



WP8 MITIGATION MEASURES

Market knowledge and approach lost with leadership transfer

8.0
Literature
review

8.1.1 Functional analysis	8.1.2 Economic analysis	8.1.3 Enviromental analysis
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8.2.1 Current logistics studies	8.2.2 Statistical data and forecasts
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8.3
Validation

8.4.1 Integration previous WPs	8.4.2 Recommendatio ns
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Provide wider scope and base
for scientific writing with
literature review

Increase in PM for CENIT

WP8 MITIGATION MEASURES

Dissemination limitations

Scientific paper life:

- Write paper
- Review process (6-12 months)
- Changes to paper (1-3 months)
- 2nd review (1-3 months)
- Final changes and editing (1 month)



Add conferences:

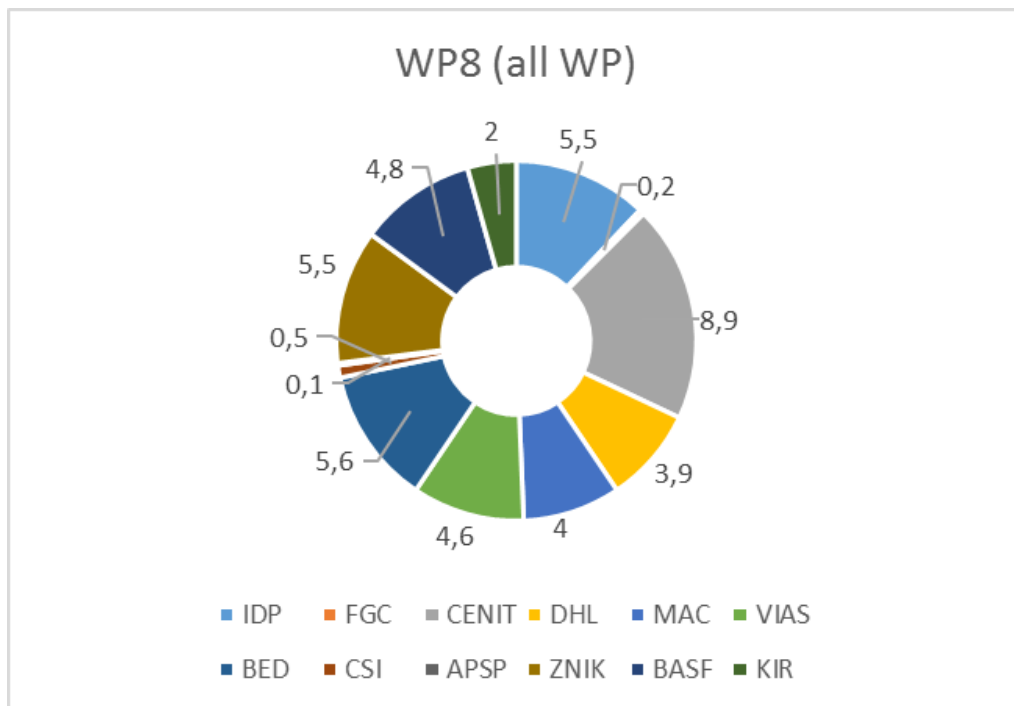
- Dissemination
- Can speed up review if associated journal
- Direct feedback with stakeholders

	Year 1												Year 2												Year 3											
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	Year 1												Year 2												Year 3											
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WP8 MITIGATION MEASURES

Lack of coordinated effort due to atomized partnership



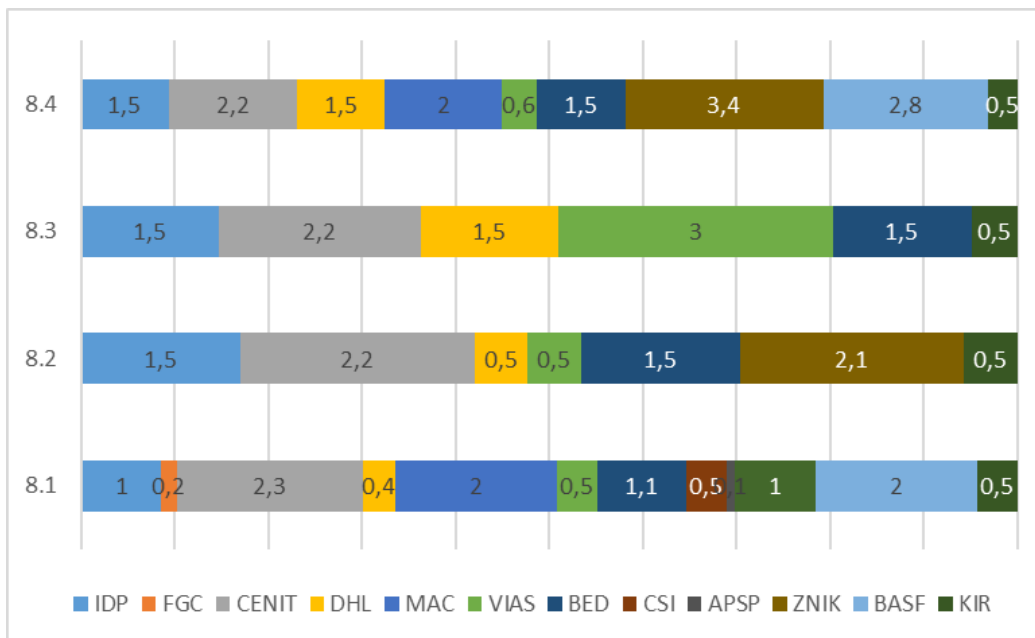
Better task definition per partner

Group efforts per block

Bilateral and group meetings

WP8 MITIGATION MEASURES

Lack of coordinated effort due to atomized partnership



Better task definition per partner

Group efforts per block

Bilateral and group meetings

WP8 IMMEDIATE OBJECTIVES (NEXT 6 MONTHS)

Next 6 months:

Apr'17 Check list on what can be provided

May'17 Gather scientific documentation

May'17 Gather other partners information (permissions / confidentiality)

Sep'17 Produce draft first digest/paper (d8.1)

Oct'17 Working meeting (call) for alignment with main partners involved

Oct'17 Identify congresses where to send

Road ahead:

Work towards second digest (d8.2)

Prepare interviews / workshops / delphy database



QUESTIONS?
10'

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THANKS!

