

## PROJECT OVERVIEW



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IDP

2<sup>nd</sup> global meeting

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# 1- WHAT HAS BEEN DONE

WP	Title	Start	End	Leader	YEAR 1											
					M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
<b>WP1</b>	<b>Management</b>	<b>1</b>	<b>36</b>	<b>IDP</b>												
	Task 1.1 General consortium management	1	36	IDP			D1.1									D1.3
	Task 1.2 Project meetings	1	e/6M	IDP						D1.2						D1.10
	Task 1.3 Project reporting	1	e/6M	IDP						D1.9						
	Task 1.4 Coordination of the project with the EC	1	e/12M	IDP						D1.14						
<b>WP2</b>	<b>Integrated planning environment and decision support (research act.)</b>	<b>1</b>	<b>32</b>	<b>VTT</b>												
	Task 2.1 Information and requirements for terminal use cases	1	9	VTT									D2.1			
	Task 2.2 Integrated planning environment architecture and interface specifications	4	12	VTT											D2.2	
	Task 2.3 Implementation of integrating ICT environment	12	30	VTT												
	Task 2.4 Model coordination	12	24	VTT												
	Task 2.5 Decision support in integrated planning environment	16	32	VTT												
<b>WP3</b>	<b>Data &amp; Indicators definitions (research act.)</b>	<b>1</b>	<b>12</b>	<b>FGC</b>												
	Task 3.1 Definition of KPI and KRI	1	3	FGC			D3.1									
	Task 3.2 Setting of pilot cases	1	12	FGC						D3.2						
<b>WP4</b>	<b>BIM Intermodal Terminal (research &amp; innovation act.)</b>	<b>4</b>	<b>19</b>	<b>IDP</b>												
	Task 4.1 7th D BIM execution plan	4	7	VIAN							D4.1					
	Task 4.2 Build BIM models of real locations	8	18	IDP												
	Task 4.3 Build BIM models of virtual locations	8	18	IDP												
	Task 4.4 Optimisation of first 7D static KPIs & KRIs	14	19	IDP												
<b>WP5</b>	<b>Terminals Operational Simulations</b>	<b>1</b>	<b>17</b>	<b>MAC</b>												
	Task 5.1 Data collection	1	6	MAC						D5.1						
	Task 5.2 Ontology and conceptual modelling	3	9	MAC									D5.2			
	Task 5.3 Development of the simulation component library	7	17	MAC												
	Task 5.4 Coupling of simulation model components with overarching architecture	7	14	MAC												
	Task 5.5 Calibration and validation	10	14	MAC												
	Task 5.6 Experimentation with real cases	10	17	MAC												
<b>WP6</b>	<b>External mobility effects (research act.)</b>	<b>6</b>	<b>30</b>	<b>CENIT</b>												
	Task 6.1 Simulation model setting	6	18	MAC												
	Task 6.2 Calibration and validation	18	24	CENIT												
	Task 6.3 Assessment of external mobility affectations	24	30	CENIT												
<b>WP7</b>	<b>Interconnection simulations (research act.)</b>	<b>6</b>	<b>32</b>	<b>MAC</b>												
	Task 7.1 Building an operational simulation model of 2 pilot terminals	6	18	MAC												
	Task 7.2 Calibration and validation	18	22	CSI												
	Task 7.3 Assessment of interconnection pilot cases	22	32	CSI												
	Task 7.4 Interconnection resilience testing	28	32	MAC												
<b>WP8</b>	<b>Functional, economic and environmental analysis</b>	<b>4</b>	<b>36</b>	<b>DHL</b>												
	Task 8.1 Definition and description of functional, economic and environmental analysis	4	28	DHL												
	Task 8.2 Assessment of current transportation and logistics studies and statistical data	21	27	DHL												
	Task 8.3 Validation and reconciliation of results at selected terminals	25	34	DHL												
	Task 8.4 Integration of the key results	29	36	DHL												
<b>WP9</b>	<b>Exploitation, dissemination and communication</b>	<b>1</b>	<b>36</b>	<b>IDP</b>												
	Task 9.1 IPR protection	1	36	IDP												
	Task 9.2 Exploitation	18	36	IDP												
	Task 9.3 Dissemination	1	36	ZNIK												
	Task 9.4 Communication	1	36	ZNIK						D9.1				D9.7	D9.13	D9.2
<b>WP10</b>	<b>Ethics requirements</b>	<b>1</b>	<b>36</b>	<b>IDP</b>												
	D10.1 H Requirement No.1		6	IDP						D10.1						
	D10.2 PODP - Requirement No. 2		6	IDP						D10.2						





# 1- WHAT HAS BEEN DONE

Deliverables during period M1-M6	Submitted	Approved	Pending approval	New deadline
D1.1 Website and Intranet (M3)	✓	✓		
D3.1 Study of the state of the art and description KPI and KRI (M3)	✓	✓		
D1.2 Internal progress report (M6)	✓	✓		
D1.9 Risk and contingency plan (M6)	✓	✓		
D1.14 Data management plan (M6)	✓	✓		
D3.2 Pilot innovations and improvements (M6)	✓	✓		
D5.1 Data model (M6)	✓		✓	06/10/17
D9.1 Communication plan (M6)	✓		✓	05/10/17
D10.1 H Requirements No.1 (M6)	✓		✓	02/10/17
D10.2 POPD Requirement No.2 (M6)	✓		✓	02/10/17



# 1- WHAT HAS BEEN DONE

Deliverables during period M7-M12	Submitted	Approved	Pending approval	New deadline
D4.1 BIM Execution Plan (M7)	✓		✓	25/09/17
D2.1 Requirements for terminal projects (M9)	✓	✓		
D5.2 Ontology and conceptual modelling (M9)	✓	✓		
D9.7 Electronic project brochure (M10)	✓	✓		
D1.3 1 <sup>st</sup> year full technical report (M12)	✓		✓	
D1.10 Risk and contingency plan (M12)	✓		✓	
D2.2 Integrated planning environment architecture (M12)	✓		✓	
D9.13 Conference paper 1 (M12)	✓		✓	22/09/17
D9.2 Communication plan 2 (M12)	✓		✓	05/10/17



## 2- WORK FOR THE NEXT 6 MONTHS

WP	Title	Start	End	Leader	next 6 months								
					M13	M14	M15	M16	M17	M18	M19	M20	
<b>WP1</b>	<b>Management</b>	<b>1</b>	<b>36</b>	<b>IDP</b>									
	Task 1.1 General consortium management	1	36	IDP							D1.4		
	Task 1.2 Project meetings	1	e/6M	IDP							D1.11		
	Task 1.3 Project reporting	1	e/6M	IDP									
	Task 1.4 Coordination of the project with the EC	1	e/12M	IDP							D1.15		
<b>WP2</b>	<b>Integrated planning environment and decision support (research act.)</b>	<b>1</b>	<b>32</b>	<b>VTT</b>									
	Task 2.1 Information and requirements for terminal use cases	1	9	VTT									
	Task 2.2 Integrated planning environment architecture and interface specifications	4	12	VTT									
	Task 2.3 Implementation of integrating ICT environment	12	30	VTT							D2.3		
	Task 2.4 Model coordination	12	24	VTT									
	Task 2.5 Decision support in integrated planning environment	16	32	VTT									
<b>WP3</b>	<b>Data &amp; Indicators definitions (research act.)</b>	<b>1</b>	<b>12</b>	<b>FGC</b>									
	Task 3.1 Definition of KPI and KRI	1	3	FGC									
	Task 3.2 Setting of pilot cases	1	12	FGC									
<b>WP4</b>	<b>BIM Intermodal Terminal (research &amp; innovation act.)</b>	<b>4</b>	<b>19</b>	<b>IDP</b>									
	Task 4.1 7th D BIM execution plan	4	7	VIAN									
	Task 4.2 Build BIM models of real locations	8	18	IDP							D4.2		
	Task 4.3 Build BIM models of virtual locations	8	18	IDP							D4.3		
	Task 4.4 Optimisation of first 7D static KPIs & KRIs	14	19	IDP								D4.4	
<b>WP5</b>	<b>Terminals Operational Simulations</b>	<b>1</b>	<b>17</b>	<b>MAC</b>									
	Task 5.1 Data collection	1	6	MAC									
	Task 5.2 Ontology and conceptual modelling	3	9	MAC									
	Task 5.3 Development of the simulation component library	7	17	MAC									
	Task 5.4 Coupling of simulation model components with overarching architecture	7	14	MAC									
	Task 5.5 Calibration and validation	10	14	MAC							D5.3		
	Task 5.6 Experimentation with real cases	10	17	MAC							D5.4		
<b>WP6</b>	<b>External mobility effects (research act.)</b>	<b>6</b>	<b>30</b>	<b>CENIT</b>									
	Task 6.1 Simulation model setting	6	18	MAC							D6.1		
	Task 6.2 Calibration and validation	18	24	CENIT									
	Task 6.3 Assessment of external mobility affectations	24	30	CENIT									
<b>WP7</b>	<b>Interconnection simulations (research act.)</b>	<b>6</b>	<b>32</b>	<b>MAC</b>									
	Task 7.1 Building an operational simulation model of 2 pilot terminals	6	18	MAC									
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	Task 7.4 Interconnection resilience testing	28	32	MAC									
<b>WP8</b>	<b>Functional, economic and environmental analysis</b>	<b>4</b>	<b>36</b>	<b>DHL</b>									
	Task 8.1 Definition and description of functional, economic and environmental analysis	4	28	DHL									
	Task 8.2 Assessment of current transportation and logistics studies and statistical data	21	27	DHL									
	Task 8.3 Validation and reconciliation of results at selected terminals	25	34	DHL									
	Task 8.4 Integration of the key results	29	36	DHL									
<b>WP9</b>	<b>Exploitation, dissemination and communication</b>	<b>1</b>	<b>36</b>	<b>IDP</b>									
	Task 9.1 IPR protection	1	36	IDP									
	Task 9.2 Exploitation	18	36	IDP							D9.8		
	Task 9.3 Dissemination	1	36	ZNIK									
	Task 9.4 Communication	1	36	ZNIK							D9.3		
<b>WP10</b>	<b>Ethics requirements</b>	<b>1</b>	<b>36</b>	<b>IDP</b>									
	D10.1 H Requirement No.1		6	IDP									
	D10.2 PODP - Requirement No. 2		6	IDP									



## 2- WORK FOR THE NEXT 6 MONTHS

### Deliverables during period M13-M18

**D5.3 Operational simulation model of the first real-life case (M17) – January 2018**

**D5.4 Operational simulation model of the second real-life case (M17) – January 2018**

D1.4 Mid-term financial and technical progress report (M18) – February 2018

D1.11 Risk and contingency plan (M18) – February 2018

D1.15 Data management plan 2 (M18) – February 2018

**D2.3 Interoperability and data exchange specification (M18) – February 2018**

**D4.2 BIM model demonstration of real locations (M18) – February 2018**

**D4.3 BIM model demonstration of virtual locations (M18) – February 2018**

**D6.1 External mobility simulation model (M18) – February 2018**

D9.3 Communication plan (M18) – February 2018

D9.8 Exploitation agreement version 1 (M18) – February 2018



### 3- WHAT IS EXPECTED FROM EACH PARTNER

PARTNER	MAIN TASKS
IDP	<ul style="list-style-type: none"><li>- Coordinator and civil works designer in BIM</li><li>- Involved in all WPs, participating in decision-making processes, assessing as end-user of BIM software tools and in relevant aspects of multimodal railway terminals as consultants and civil works engineers.</li><li>- Responsible of WP1</li><li>- Responsible of WP4</li></ul>
FGC	<ul style="list-style-type: none"><li>- Provide technical expertise in railway infrastructure, rolling stock, rail logistics and management</li><li>- Responsible of WP3, where pilot cases and their respective testing scenarios will be set</li><li>- Contributing in the design of intermodal freight terminals (WP4) and in the assessment of a rail connection (WP7)</li></ul>
CENIT	<ul style="list-style-type: none"><li>- Expertise in general logistics, terminal simulation, railway infrastructure and operation and urban mobility</li><li>- Responsible of WP6 (impacts of the terminal operation on the surrounding mobility) – interaction with the BIM model and the terminal operation simulation</li><li>- Responsible for the WP8 research activities and coordination for the validation and integration of results from selected terminals in collaboration with DHL</li><li>- Technical support and advice in other WPs regarding logistics, terminal design and rail freight transport (mainly WP2, WP4, WP6 and WP7)</li><li>- Coordination of the research production (papers, conferences, etc.)</li></ul>
DHL	<ul style="list-style-type: none"><li>- Knowhow and expertise to develop and implement sustainable and future oriented transportation methods</li><li>- Validation of the project results in the operational environment of their terminals and networks</li></ul>





### 3- WHAT IS EXPECTED FROM EACH PARTNER

PARTNER	MAIN TASKS
VTT	<ul style="list-style-type: none"><li>- Responsible of WP2, planning environment architecture</li><li>- Technical skills on interoperability and data exchange</li></ul>
MACOMI	<ul style="list-style-type: none"><li>- Responsible of WP5, terminal operation simulation</li><li>- Responsible of WP7, railway interconnection</li></ul>
VIAS	<ul style="list-style-type: none"><li>- Expertise in WP4, WP7 and WP8</li><li>- Railway tracks for virtual terminals</li><li>- Implementation of Optirail results, or similar, in pilot cases</li></ul>
BEDESCHI	<ul style="list-style-type: none"><li>- Integrate the theoretical model with consistent facts and technical figures of machine operation</li><li>- Involved in building 7D BIM models of virtual locations</li><li>- Handling for virtual terminals</li></ul>
CONTSHIP	<ul style="list-style-type: none"><li>- Definition of KPIs for a container terminal</li><li>- Study and simulation of the interconnections inside a railway network (La Spezia – Melzo)</li><li>- Test the resilience of the rail terminals, considering how the terminals affect it</li></ul>
APSP	<ul style="list-style-type: none"><li>- Definition of KPIs for mobility inside and around the port area</li><li>- Involved in WP4, implementation of new technologies to create new logistic infrastructures in La Spezia</li><li>- Involved in WP6, analyzing impact of the intermodal terminal operation on the surrounding mobility</li><li>- Involved in WP7, testing different innovative technologies in logistics</li></ul>
ZNIK	<ul style="list-style-type: none"><li>- Dissemination (website, presentation of project results in conferences, articles and papers)</li><li>- Communication (two electronic brochures, draft press releases for the project Consortium at general meetings and final meeting, and participation in trade shows and fairs promoting the results)</li></ul>





### 3- WHAT IS EXPECTED FROM EACH PARTNER

PARTNER	MAIN TASKS
VIASYS	<ul style="list-style-type: none"><li>- Advanced 3D modelling</li><li>- Presentation environment provider for the realistic simulation</li><li>- BIM coordination</li></ul>
BASF	<ul style="list-style-type: none"><li>- Provide solutions for a more sustainable construction</li><li>- Model of the local effects to be implemented in models</li><li>- Model calibration by means of experimental test</li><li>- Analyze structural response of materials</li><li>- Implementation in BIM models of the whole life-cycle of structures</li><li>- Solutions to accommodate a range of structural life expectancies, budgets, design considerations and maintenance requirements of the intermodal terminals</li></ul>
KIRUNA WAGON	<ul style="list-style-type: none"><li>- Modular load carriers including carriers for non-hazardous as well as hazardous dry bulk, wet bulk, ISO-containers and timber</li><li>- Provide data such as CAPEX, OPEX and maintenance costs for the chassis and load carriers</li><li>- Rolling stock for virtual terminals</li></ul>



## 4- ORGANIZATION WITHIN A TEAMWORK

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- E-mail to all partners involved – loop for each WP
- Regular on-line meetings with all WP participants to explain current situation and discuss about work done (i.e. once a month)



QUESTIONS?  
10'

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**THANKS!**

