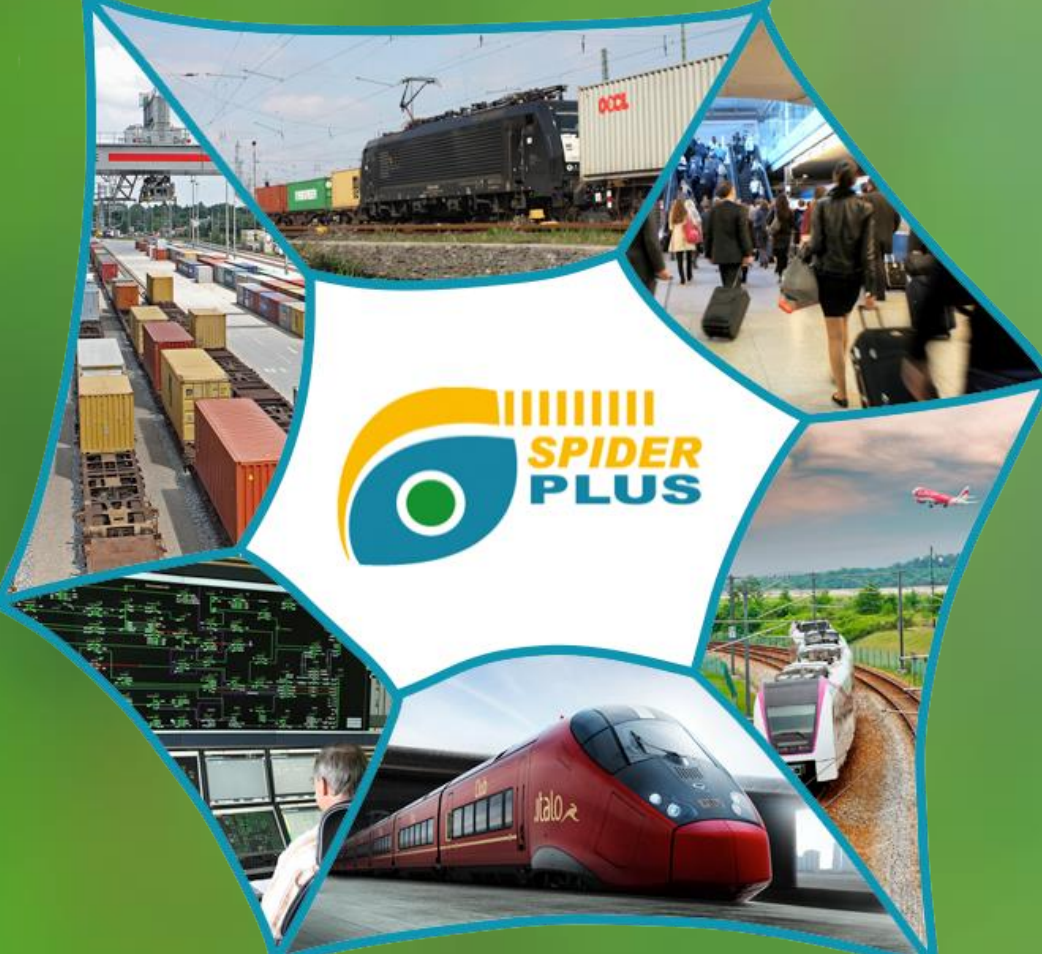


SPIDER PLUS
WP 10
Frankfurt 02.12.2014



Task 10.1 “The Policy recommendations in the Guide Book”



SPIDER PLUS

Workshop with external experts

Work package 9 Roadmap,

Task 10.1 The Policy Recommendations in the Guide Book

Frankfurt, 2 December 2014

“Spider Plus aims at developing a passenger and freight mobility vision for 2050 encompassing seamless transportation where electrified rail has the central role.”

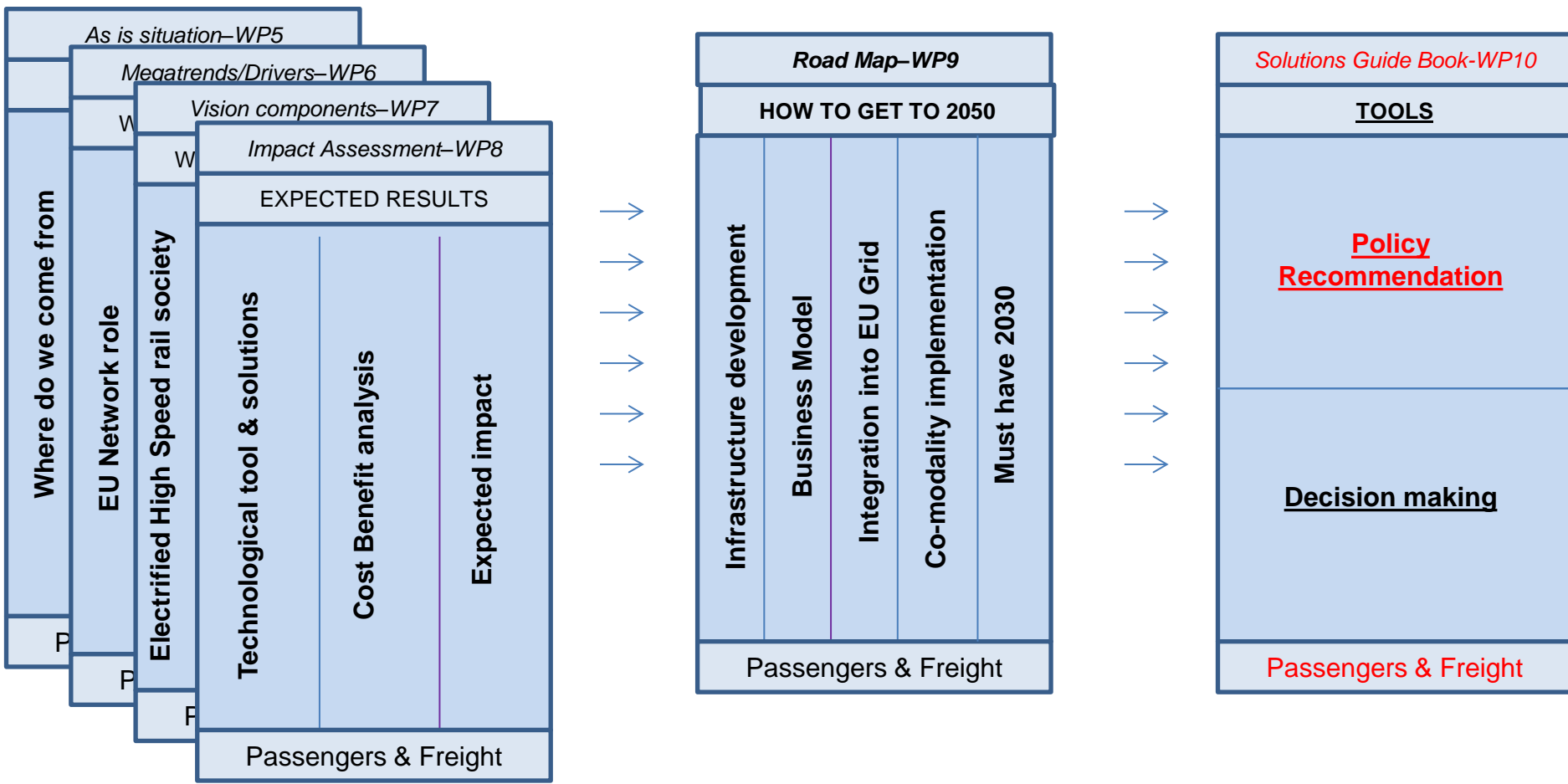
PROJECT KEY FACTS

- › Budget: 4.1 million €
- › EU contribution: 3 million €
- › Duration: 12/2012 – 5/2015
- › Coordination: HaCon
- › Consortium: 13 European research and industrial companies from seven countries
- › Project goals:
 - ›› Developing a vision for sustainable mobility in 2050
 - ›› Elaboration of measures to support a modal shift to rail according to the EU White Paper

www.spiderplus-project.eu



SPIDER PLUS PROJECT MIND MAP



Modal Shift & Sustainable Mobility – Electrified Rail Society

WP Leader: NEWO

HC	<u>NEWO</u>	KC	IBI	DUSS	TTU	CFS	GPC
4.52	6.44	2	1	0,5	1	5	1

- DoW:**
- Summary of recommendations
 - Especially concerning design and planning modification of the Infrastructures layouts and co-modal integration – actions not sufficiently included in current planning,
 - Emission of the Guide Book
 - Training activities on the Guide Book
 - Provision of decision making tools capable of fulfilling the Road Map

TASK 10.1 POILICY RECOMMENDATIONS IN GUIDE BOOK

HC	<u>NEWO</u>	KC	IBI	DUSS	TTU	CFS	GPC
2,26	3,22	1	0,5	0,25	0,5	2,5	0,5

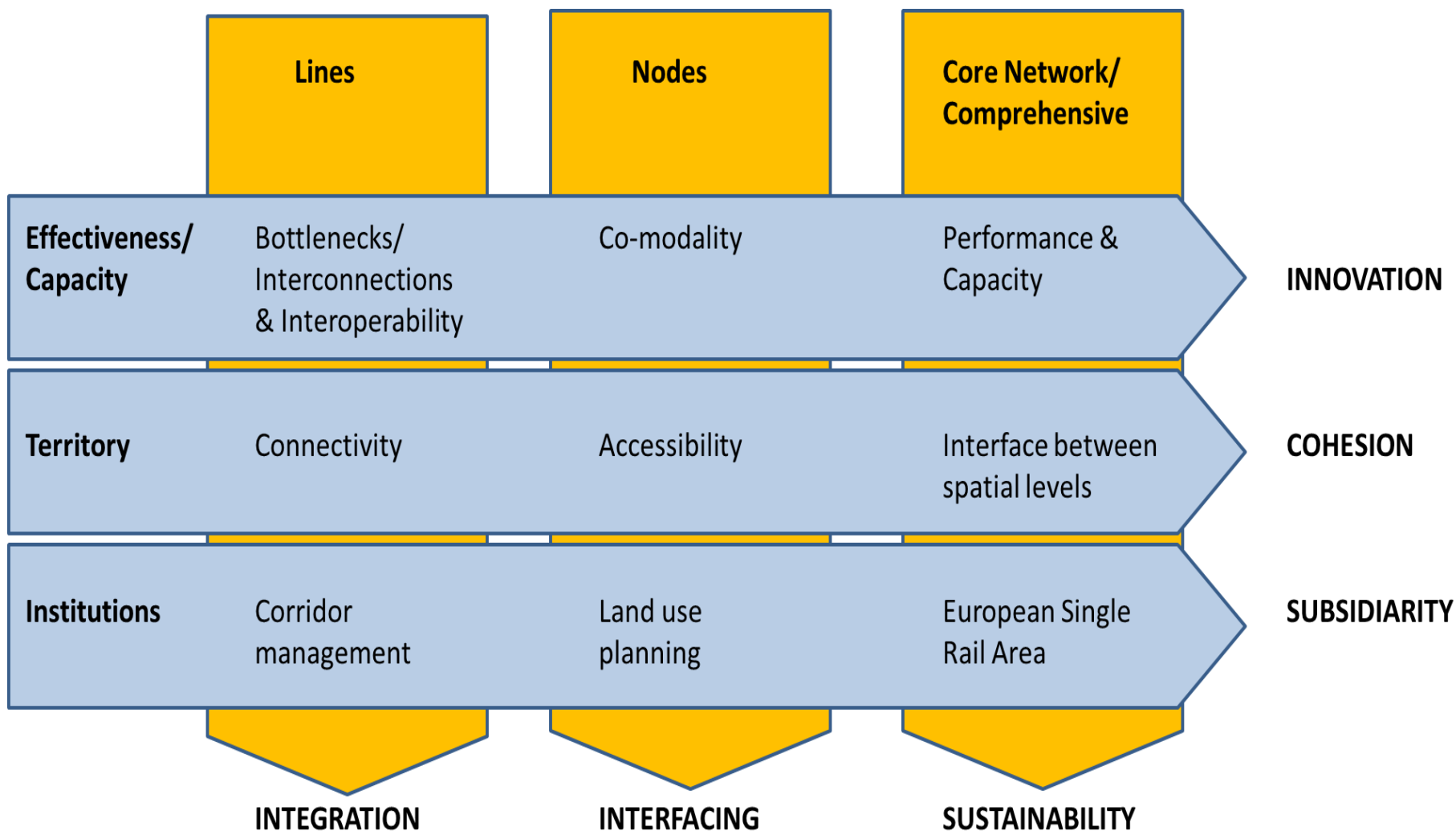
DoW:

- Elaboration of a Guide Book for Decision makers in all fields of traffic and mobility
- Based on all outputs of our 2050 Spider Plus Mobility Vision and the vision itself
- The Guide Book constitutes guidelines to be adopted for the fulfilment of the vision / the Road Map
- The Guide Book contributes to the harmonisation/standardisation/integration process, always in the sense of the Co-Modal approach
- The training on the guide book will be fulfilled just before the project closure

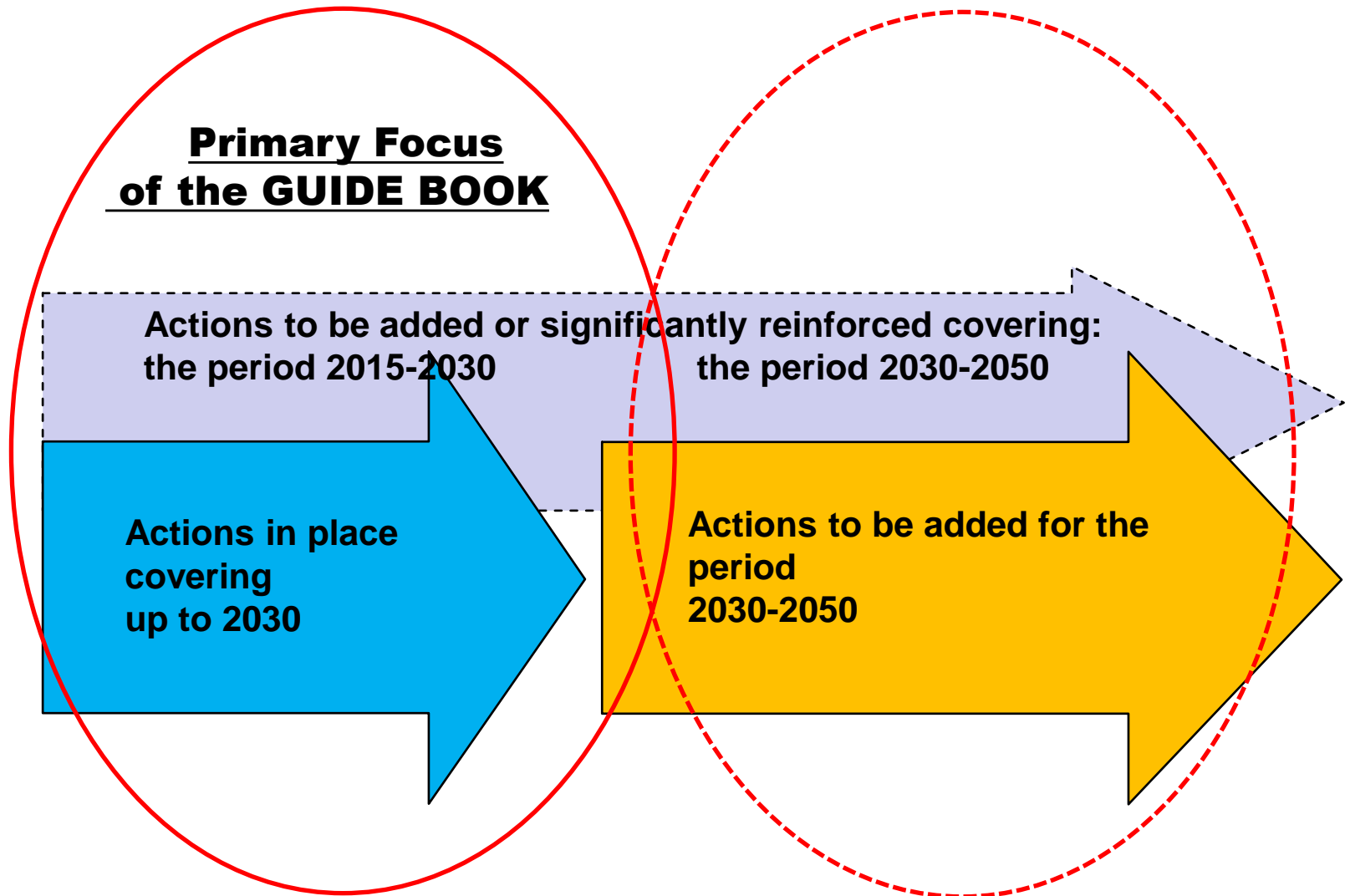
VISION AND ROAD MAP ARE THE REFERENCES...

White Paper targets				
	Investments	Governance	Technology	Market uptake
2050	<p>Comprehensive network implemented according to co-modality principles; Electrification of secondary lines for local traffic; Extension of urban networks to surrounding areas; Implementation of ERTMS extension to additional lines; All Euro-Asian rail routes fully operational</p>	<p>EU single mobility rail area implemented for the comprehensive network; role of European organizations both in coordinating a consistent and compelling guidelines to lower levels (national, industry, etc...) and in executing European strategies and programs</p>	<p>Dynamic control model in place for capacity optimization and fast recovery of inconveniences; cascade information communication model to interested parties; Modular design and automation fully exploited</p>	<p>New integrated or virtual EU operators covering EU traffic segments with new business model and harmonized EU performances; Environmental features and KPIs fully established and driving co-modal policies and industry</p>
2030	<p>Connection of all core airports; Plan of core network expansion; TEN T "completion"; Completed current 35 cross border initiatives for filling cross border interoperability gaps; ERTMS fully implemented in all core network; predictive maintenance model implemented</p>	<p>EU single mobility rail area implemented for core network; EU single mobility area planned for the comprehensive network; Costing integrated with full externalities; Mobility authority in each metropolitan area; 50% cut in road deaths enabled by co-modality</p>	<p>ICT tools for time tabling and operational traffic management; centralized "crisis" management able to minimize disruption; The National Single Windows for shipping across five key areas- customs, ports, security, border controls, and health; comprehensive ICT development plan for the period 2030-50</p>	<p>Collaboration business model (including 4PL for freight) legally recognized and preferred as beneficial for solution set up, traffic planning and performance drivers (pollution, congestion, cost); Providers of rail services rated with appropriate performance regimes for mobility providers and infrastructure managers</p>
2020	<p>Closing high speed gaps; TEN T 2030 plan fully financed; New urban line fully financed; All major port rail connected; Freight train 1500 m long in place; Freight traffic bundling leveraging main hubs; ERTMS implemented on all core axis; low cost transshipment terminals at major Eastern entry points</p>	<p>EU single mobility rail area planned; Land use and spatial planning around sustainable efficiencies of public transport; Mobility driving urban/territory planning; Common appraisal methods for cost benefit analysis of cross border business; strong link between benefit and funding new investments</p>	<p>Integrated information systems handling the whole journey across modes and different mobility providers; Improved train management systems widely used; Integrated rail freight production model for increasing utilization of train capacity</p>	<p>Ticketless journeys compatible with local transport fare management systems; Standardization of ticketing procedure and information; Freight transport pricing linked to efficiency in using resources with profit sharing between supply chain partners; Incentive plan supporting environmental friendly solutions</p>
2015	<p>Comprehensive planning of actions to be implemented within 2030 with focus on co-modal "nodes" both for passenger and freight; integration of "corridor" and "node" focus; Comprehensive planning of new urban lines to be implemented within 2030; Integration of Metropolitan areas and TEN T planning</p>	<p>Corridors fully established; Co-modality driving infrastructure and space planning decision process; New authorities in place managing co-modal integrated operations; EU interoperability standard fully in place enabling liberalization of supply; Road map monitoring process linked with individual actions and risks assessment</p>	<p>Intelligent System planned for optimizing use of existing infrastructure; tools in place for empty running and equipment repositioning; Tagging standardization of equipment (RFID); published technology guidelines enabling operators to reduce risk for uncertainty</p>	<p>Integrated handling the whole journey across mode and different mobility providers; logistic service offering in dry ports and in other rail hubs; Integrated rail freight production concept for increasing utilization of wagon load capacity; Horizontal collaboration in place within territories (mainly passengers) and logistic chains</p>

.... CONNECTING THE VITAL IMPLEMENTATION ELEMENTS



THE ROAD MAP HAS SEGMENTED THE ACTIONS



METHODOLOGY & DELIVERY FORMAT

- The Guide Book to be **an interactive multilevel document on the SPIDER PLUS WEBSITE**

	Infrastructure developments	Business model	Integration into the EU grid	Co- modality integration	Must have 2030	
Investments	Here you find 2-3 pages summary related to the 4 item clusters as in the road map 9.1					
Governance						
Technology	<div style="border: 1px solid black; padding: 10px; background-color: #4a7ebb; color: white; text-align: center;"> By clicking each item you enter the below level (see next page example of target content) </div>					
Market Uptake						

new infrastructures (tunnel, by passes, passing tracks, connections)

bottlenecks elimination

electrification, class upgrading of old lines

gauge C (4 mt high)

new urban rail lines

East freight interchanges with Tran Siberian and Trans Asian in industrial scale

robotics/mechatronics/in transfer tech

accessibility and nodes integration, hub & spoke

sea port rail connectivity, airport rail connectivity, co-modal accessibility, co modal station

new sidings to lines and industrial park

interoperability, modular design, easy and preventive maintenance

EU rail network for competitive freight

ERTMS level 3

Action description (content, player, etc...)

- In place (reference as TENT, Urban Planning, etc...)
- To be added/reinforced (rationale)
- Link with other actions (prerequisites, conditions for leveraging results, etc...)

Milestones

- 2015
- 2020
- 2030

Spider Plus References

Current situation (document reference WP5 – deliverable, chapter, paragraph)

Trend (document reference WP6 -)

Vision (document reference WP7 -)

Impact relevance (document reference WP8 -)

CONTRIBUTIONS WITHIN THE TASK

➤ **Coordination and integration**

- **NEWO:** Setting the format, Filling the “first” level of all the table, Developing the web tool, Coordinating the full task and developing the “Executive summary”

➤ **Filling the “second” level of the table (within February?)**

- **NEWO:** “Infrastructure development”
- **KC:** “Business models”
- **DUSS:** “Integration into the EU grid”
- **TTU:** “Co-modality implementation”
- **HC:** “Must have 2030”
- **IBI:** links with WP 5
- **CFS:** links with WP 6 and 7 (+ overall English review)
- **GPC:** links with WP 8

THANK YOU FOR YOUR CONTRIBUTIONS