Vital Nodes:

How to connect Europe's urban nodes with the European transport network?

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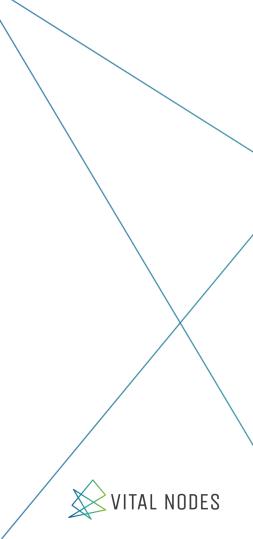




Content

- Project and goals
- Approach
- Trends and challenges
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- Follow-up





Vital Nodes project and goals

- Deliver validated recommendations for a more effective and sustainable integration of all 88 urban nodes into the TEN-T corridors focusing on freight logistics
- Establish a long-lasting European expert network based on existing (inter)national and regional networks for safeguarding long-term continuity in knowledge and implementation









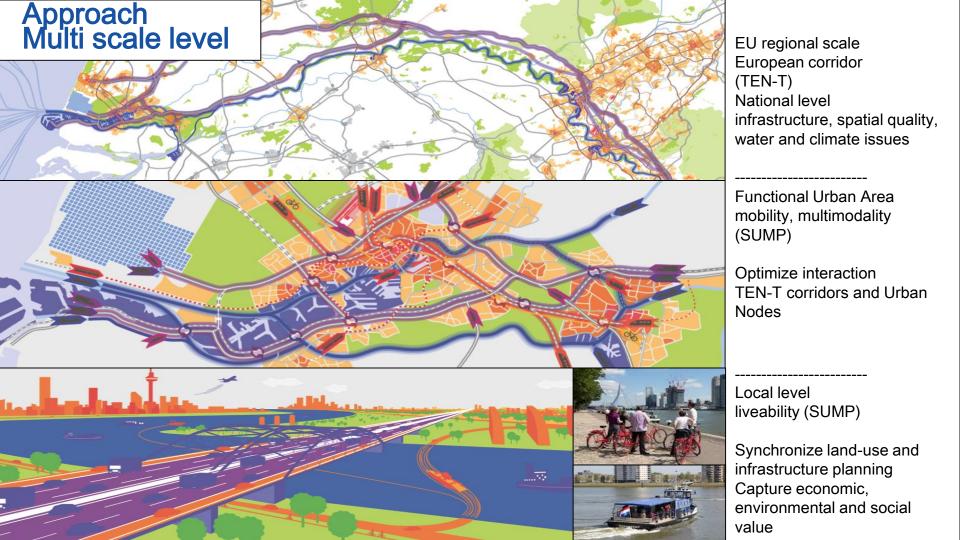


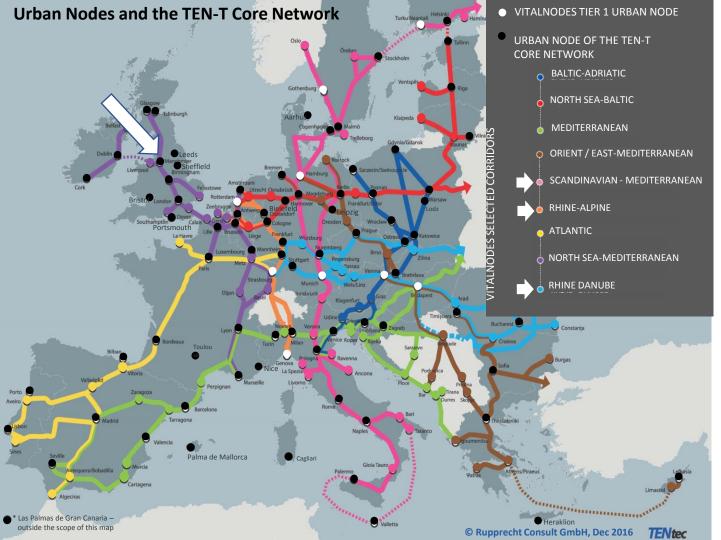










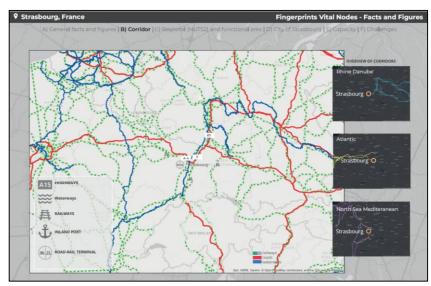


Tier 1 urban nodes:

- Vienna (AT)
 - Rotterdam (NL)
 - Gothenburg (SE)
 - Budapest (HU)
- Hamburg (DE)
- Genova (IT)
- Turku (FI)
- Strasbourg (FR)
- Mannheim (DE)



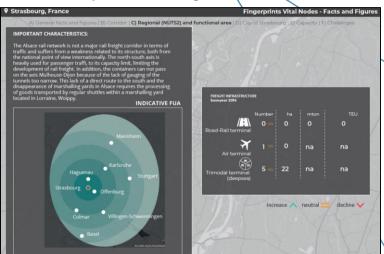
Maps on 3 levels - example Strasbourg, France

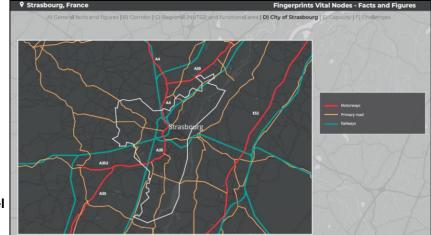


Level of TEN-T corridors (road, water, rail)



Level of Metropolitan urban region / Functional Urban Area





Urban nodes workshops (Spring 2018)













Trends and challenges

Level of international corridors (TEN-T)

- Global trade supply chain: huge volumes via limited number of EU ports, distribution via TEN-T networks to consumer
- International optimization of logistics chains

Metropolitan area / functional urban area

- Corridor and urban-regional scales compete on urban ring roads (link with last-mile distribution)
- E-commerce boom and socio-economic impact (incl. labour market)
- Little interest/awareness on a policy and strategy level of logistics and freight transport

Local level (daily urban system)

- Urban growth and densification
- Growing freight volumes and flows (construction works, e-commerce)
- Impact of transport and mobility: safety, noise, emissions





Challenges - Example - Vienna S5 A5 tack of regional (spatial) planning Korne ubura **S1** Bratislava A22 S8 Marchfeld Vienna Markgra ne usiedl International collaboration Mauerbach harmonisation Leopoldsdorf competition/challenge of space im Marchfelde Graz Hochran Bottlenecks in the city Railways S1 Lobautunnel Hütteldorf A1 LAGERFLÄCHE + BÜRO Meidling **A23 ZU VERMIETEN** Liesin9 Inzersdorf **S1** Areas wi Railroads Wienerwald Planned Naturpark Föhrenberge Madlina Existing A₂ **A21** Planned Planned Sources: Esri, HERE, Detorme, Intermap, increment P Corp., GEBCO, USGS Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), s OpenStreetMap contributors, and the GIS User Community

Recommendations

SPATIAL

- Challenge of space > Integrated planning approach, research by design
- Connect different scale levels and strengthen socio-economic relations
- Besides TOD also LOD: logistics oriented development > consolidation centers on all scale levels
- NETWORK Explore the Functional Urban Area (beyond passenger transport and las-mile logistics)
 - Resilience of the network and infrastructure fitness: bottlenecks in (growing) urban nodes and on the wider TEN-T corridors
 - Optimize network via multimodal solutions, better management of modes and chains

VALUE

- Mixture of coherent small investments; cross-border + comprehensive network; stimulate multi-stakeholder governance
- INSTITUTIONAL Stimulate regional spatial planning governance + governance at functional urban area
 - Governance of city-oriented consolidation centers and multi-company hubs
 - Cross-border collaboration and harmonisation





Dissemination and follow-up activities

- CIVITAS Forum, Umeå (19 September 2018)
- Urban Freight Conference, Gothenburg (17-19 October 2018)
- Corridor Conference, Aachen (6 November 2018)
- Workshop Rotterdam, Waal-Eemhaven (8 November 2018)
- Policy dialogue, Brussels (8 November 2018)
- Follow up workshop Gothenburg (1st half 2019)
- Tier 2 and Tier 3 activities (1st half 2019)
- Urban nodes FORUM, Budapest (April 2019)





Towards vital urban nodes Thank you for your attention

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VITAL NODES