

# Vital Nodes Urban Nodes Forum

**Welcome!**

**#UrbanNodesForum**



VITAL NODES

# Vital Nodes Urban Nodes Forum

## Welcome

Balázs Fejes

BKK Centre for Budapest Transport, Hungary



# Vital Nodes Urban Nodes Forum

## Welcome

Prof Jos Arts

Rijkswaterstaat, Dutch Ministry of Infrastructure and Water  
Management, Vital Nodes Project Coordination



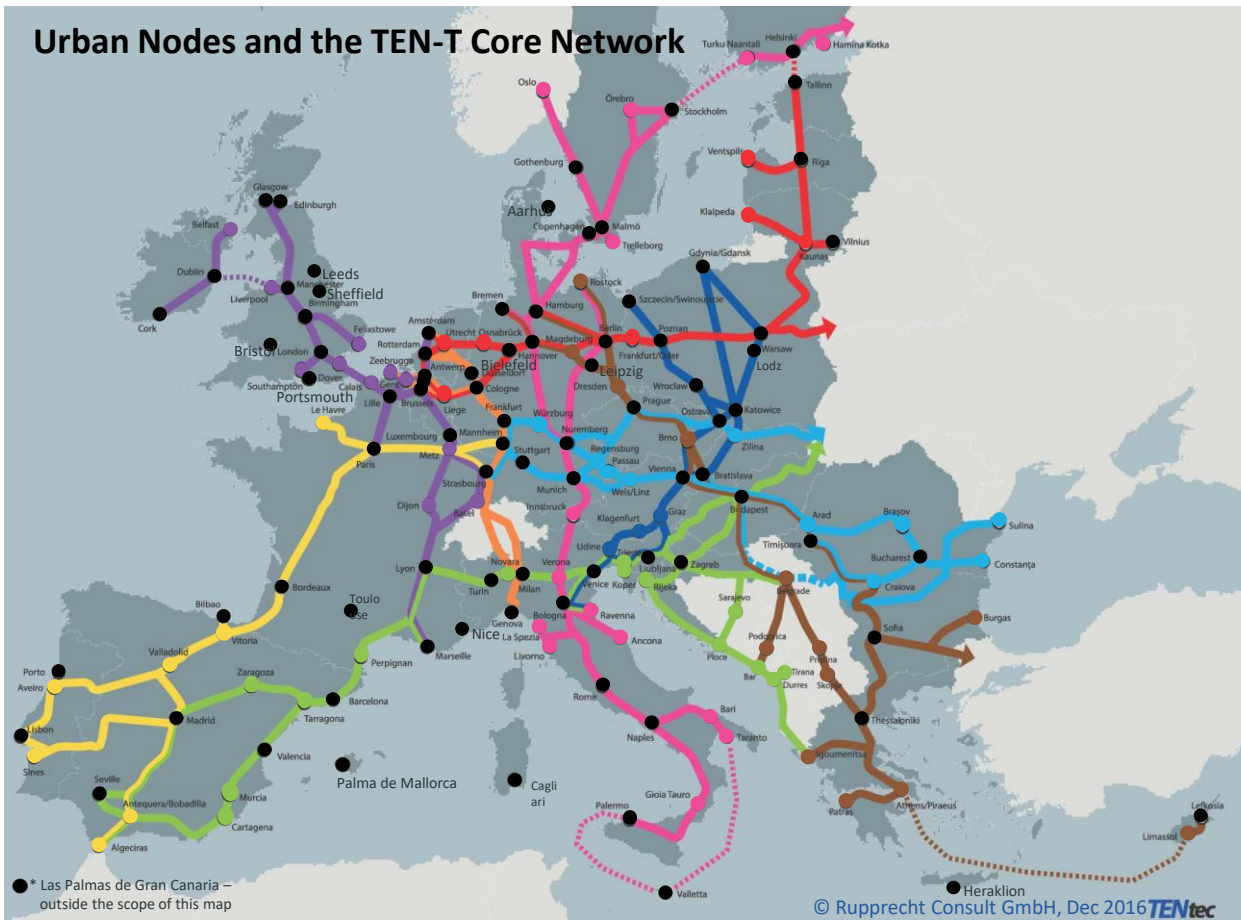
# Vital Nodes Urban Nodes Forum

## Introduction

Siegfried Rupprecht, Rupprecht Consult  
Budapest, 3 - 4 April 2019



## Urban Nodes and the TEN-T Core Network



## Urban nodes are vital for the TEN-T

- **intersections of transnational traffic flows**
- **interconnection and distribution functions** between small and large-scale traffic
- **access points** via modal sub-nodes (e.g. ports, railway stations, logistics platforms)
- can be designed as highly **effective interchanges**
- ... and must remain **attractive places to live**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# Vital Nodes objectives

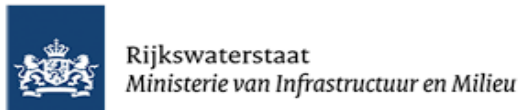
- To deliver **validated recommendations** for a more effective and sustainable integration of all 88 urban nodes (focus on freight logistics).
- To establish a **sound and long-lasting European expert network**.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# Involved Consortium partners



**Funding 2M€; Start 1 November 2017; duration 24 months**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# Aim of the Urban Nodes Forum

- Support **knowledge exchange** between Urban Nodes representatives
- Understand your **challenges, strategies and projects** to improve interoperability and connectivity for freight and logistics
- Collect and validate **recommendations** to the European institutions

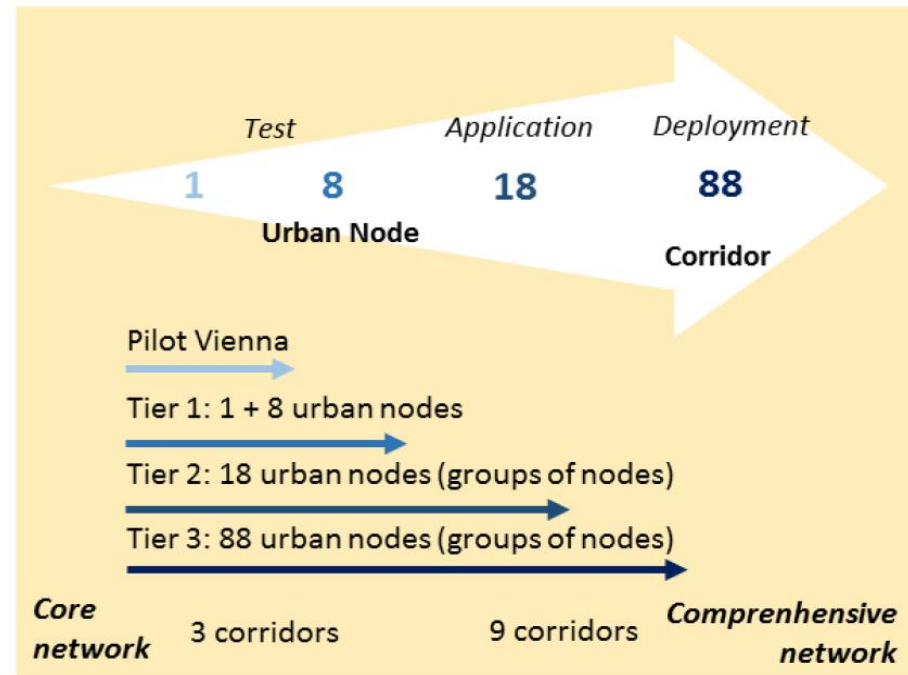


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# What has Vital Nodes done so far?

- **Analyses** and collection of **data**
- Work on **toolbox**, collection of **good practice** examples
- **Communication** with many stakeholders
- **Outreach** to urban node stakeholders
- Draft **recommendations**



# Why are we doing this now?

We need to contribute **consolidated needs and facts** about Urban Nodes to the European **policy development** process:

- **New European Commission**
- **Horizon Europe** – the next research and innovation framework programme
- **Connecting Europe Facility (CEF)** – the new funding programme for the TEN-T
- **legislation** in preparation, e.g. Combined transport directive review
- **EU Multiannual Financial Framework 2021 – 2027**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# Connecting Europe Facility (CEF)

Status: Trilogue of EP, EC and Council concluded

## Key aspects

- **synergies** between transport, energy and digital sectors (e.g. for automation, alternative fuel infrastructure)
- increase in transport **budget** (14% in constant prices, including dual military-civilian use and cohesion fund contribution; 42.265.493.000€ for all sectors)
- stronger emphasis on **decarbonisation**, and **connected, sustainable, inclusive, safe and secure transport**
- priority to further **TEN-T development** (60%; 40% to modernising), focus on **cross-border** projects with an EU added value
- some **extension** of core network
- **urban nodes** are a priority (with multi-modal logistics platforms, ports, terminals, airport connections (Art.2.a.i) and sustainable freight (Art.2.b.iii))
- "actions to remove **interoperability** barriers, notably in **urban nodes**" (Art.2.b.v bis)
- <https://www.consilium.europa.eu/media/38507/st07207-re01-en19.pdf>



# Examples of draft recommendations

- Follow the **corridor approach** more systematically
  - system of LNG terminals on one corridor
  - coordinated alternative fuel infrastructure deployment
  - comprehensive truck parking strategy
- Improve cooperation and harmonisation **across borders**
  - infrastructure planning
  - harmonisation of operational rules
  - financial bonus for cross-border projects
  - transfer from US: multi-state Metropolitan Planning Organisations?



# Examples of draft recommendations

- **Plan** more actively for modal shift (in freight)
  - Sustainable Urban Mobility Plans (SUMP) for 'functional urban areas'
  - build competence, facilitate exchange of good practices
  - network resilience as a key criterion (e.g. for traffic network management)
- **Cooperate** more intensively across institutions, build trust
  - incentives for private-public cooperation schemes
  - 'nodal labs' for automated last mile delivery
- **Share** data – and transport capacities
  - create trust for data sharing → freight capacity sharing?
  - analyse freight flows more concretely
  - create data sets and impact studies



# Examples of draft recommendations

- **Consult** with Urban Nodes and within Urban Nodes
  - support networking of Urban Nodes
  - apply multi-level governance in nodes
  - build competence and trust
- Establish **fact-based funding** approach more widely
  - "financing follows freight" – focus on high volume nodes
  - develop indicators (e.g. freight function, risk, resilience)



Thank you for your attention!

[www.vitalnodes.eu](http://www.vitalnodes.eu)



# Vital Nodes

## Urban Nodes Forum

### **Multi-level governance as a tool for territorial integration of Urban Nodes in the TEN-T Network**

Dr. Ana Peric

Institute for Spatial and Landscape Development,  
ETH Zurich

Budapest, 3 - 4 April 2019



VITAL NODES



# Vital Nodes Urban Nodes Forum

## Panel Discussion



# Planning for freight - challenges and strategies of urban areas on the TEN-T network

- **Prof Jos Arts**, Rijkswaterstaat, Dutch Ministry of Infrastructure and Water Management and Vital Nodes Project Coordination
- **Balázs Fejes**, BKK Centre for Budapest Transport, Hungary
- **Dr. Michał Tuszyński**, Department for Cooperation and Analysis, City of Gdynia, Poland
- **Thomas Ertel**, Interregional Alliance for the Rhine-Alpine Corridor EGTC
- **Dr. Ana Peric**, Institute for Spatial and Landscape Development, ETH Zurich



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458



# Vital Nodes Urban Nodes Forum

## Site Visits



# Site Visits

1. Intermodal hub and new Metro line control centre
2. FUTAR: traffic management and control centre

**Departure from registration desk at 16:30 and 17:20 (sharp) – check your badge!**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 769458

# Vital Nodes Urban Nodes Forum

## Coffee and Networking Session





# URBAN NODES FORUM

3-4  
APRIL  
2019  
BUDAPEST

#UrbanNodesForum