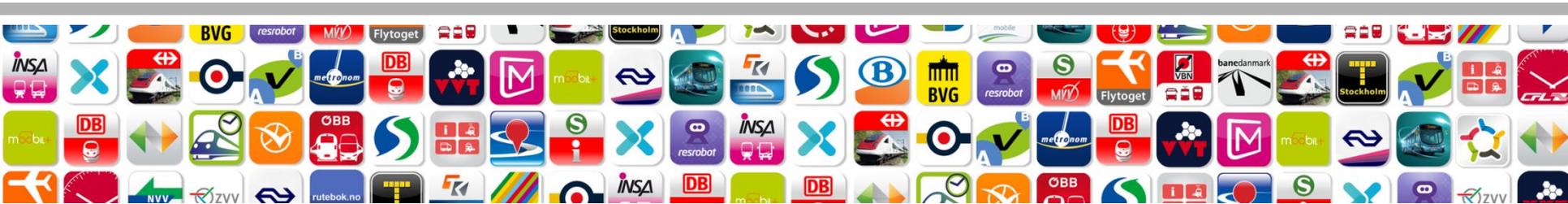


# Rail Freight Locations Portal

railfreightlocations.eu



Niklas Galonske (HaCon)  
UIRR-ELETA Digitalisation Workshop, Brussels, 13/04/2018

# HaCon at a glance

- Software & Consulting for mobility
  - Creating, Editing, Controlling
  - Publishing, Maintaining
- Established in 1984
- Wholly-owned subsidiary of Siemens AG
- 300+ employees, 75% developers

**SIEMENS**  
*Ingenuity for life*





# Background & EU framework conditions

# Motivation from EU market and legislation perspective

## NEEDS OF THE LIBERALISED RAIL FREIGHT MARKET STAKEHOLDERS

Rail Freight Corridor Regulation  
Corridor Information Document

Single European Railway Area Directive  
Implementing Act on Access to Service  
Facilities

**INFORMATION  
CONCERNING THE SERVICE  
FACILITIES ESSENTIAL TO  
OPERATING RAIL FREIGHT**

Source: UIRR

**Directive 2012/34:** obliges Infrastructure Managers and Service Facility Managers to

- publish information concerning the capabilities of their facilities,
- the conditions of access,
- any temporary capacity restrictions,
- available capacity,
- new services and
- unused capacities/facilities (available for lease).

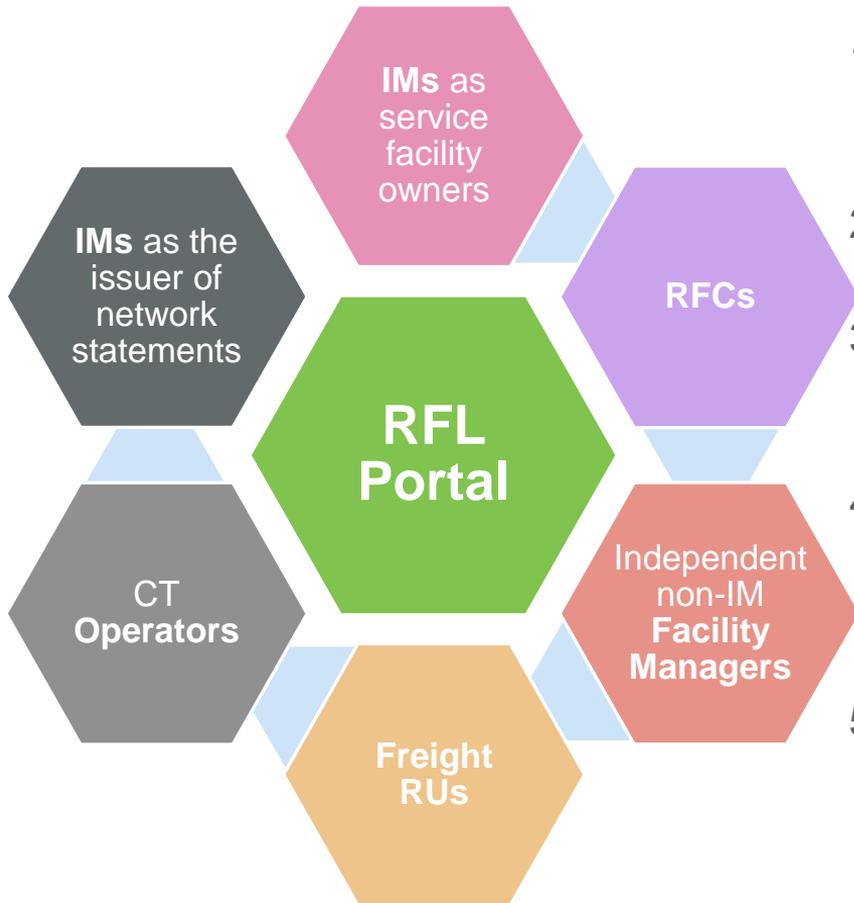
**+ Implementing Regulation**  
on access to service facilities and  
use of rail-related services

**Regulation 913/2010:** obliges (Rail Freight) Corridor Management Entities to

- compile and make available information – including available capacities – on freight terminals and junctions through the Corridor Information Document
- In addition the information is published in the Customer Information Platform (CIP) for 6 RFCs (In more RFC is doing the rollout in 2018)

Source: UIRR

# Stakeholders of a common information portal



1. Creates a **market-friendly/user-friendly single source of information** concerning information on Service Facilities essential to operating rail freight
2. The **RFCs** are potential stakeholders for the RFL by publishing (link) to the RFL portal;
3. Assumption of the Network Statement obligations of **IMs** and efficient publication of information concerning their service facilities;
4. Realistic solution to notifying the 'viable alternative' and to satisfy other information provision obligations of **SERVICE FACILITY MANAGERS**;
5. Market-friendly/user-friendly interface-connection solution to **ADVANCED DATA USERS**

Source: UIRR



# Pilot Portal

# Motivation and goals of EU study

**Insufficient information on European rail freight transshipment facilities / last-mile infrastructure!!!**

**EU Study MOVE/B2/827-2013**  
01/2015-03/2016

Resolving difficulties to access information on last mile infrastructure for rail freight

Development and programming of a EU-wide web-based information portal with GIS functionalities  
**(Demonstrator)**

Recommendations to manage the portal on permanent basis

# User needs - information requirements

## Information items (“Long list”: 125 single items belonging to 13 clusters)

- Location (12 items)
- Types of facility (11 items)
- Size of facility (3 items)
- Rail infrastructure (14 items)
- Rail infrastructure equipment (9 items)
- Transshipment equipment (5 items)
- Type of LU / cargo transshipment (19 items)
- Type of loading unit/cargo storage (12 items)
- General conditions for rail operation (9 items)
- Rail operation/ service - last mile (10 items)
- Rail operation/ service - long haul (8 items)
- Additional services (10 items)
- Connection to road (3 items)

Relevance assessment	Importance/Ranking of information content	Potential information content per infrastructure
	1 important	not relevant/applicable
	2 nice to have	
	3 less important	
<b>Location</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Region 3	
	Postal code 1	
	City 1	
	Wgs coordinates 1	
	NUTS 3	
	Name of facility 1	
	Address of facility 1	
	Infra operator name 1	
	Infra operator contact data 1	
	UIC station code 1	
	National station code 1	
<b>Type of facility</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Rail-Road terminal (intermodal) 1	
	Rail-Road-Road terminal 1	
	Rail-Road terminal (Rolling Road) 1	Should be a service
	Railport / Rail Logistics Centre / Rail-Road terminal (conventional) 1	
	Station with public loading track 1	
	Private siding track in industrial site 1	
	Freight village 1	need to define this - master location - must have children
	Seaport 1	need to define this - master location - must have children
	Inland port, Rail-Road-RV terminal (conventional) 1	need to define this - master location - must have children
	<b>Information content (data)</b>	<b>Remarks</b>
	Public station for wagon transfer 1	
	Private station for wagon transfer 1	
<b>Size of facility</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Size of loading area (conventional transshipment) 3	Name modified ("conventional transshipment" added)
	Size of storage area (conventional transshipment) 3	Name modified ("conventional transshipment" added)
	Width of loading lane (for conventional transshipment) 3	Name modified ("conventional transshipment" added)
<b>Rail</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Number of tracks (for loading) 1	in combination with track function
	Sigle/double track (only for the 3) 1	
	Track function (e.g. Inbound) 1	need to create attributes tied to track function
	Usable track length 1	
	Length of line 3	
	Rail connection of tracks (one-two-) 3	
	Electrified depot 1	
	Loading gauge 1	
	Axle load 1	
<b>This is new</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Min. radius 1	This is new from Budapest
	Max. inclination 1	
	Permitted rail speed 3	
	RD Allowed infrastructure 1	
<b>Rail</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Fuel station 2	
	Sanding station 2	
	Water supply 2	
	Electricity supply 2	
	Track scale 1	
	Cable shunting installation 2	
	Brake test facility 1	
	Blare 1	
	Track area lighting 2	
<b>Transshipment</b>	<b>Information content (data)</b>	<b>Remarks</b>
	Loading lane (for conventional) 1	

# User needs – stakeholder statements

“The initiative encourages rail development. Freight forwarders are very interested in SWL”

“As railway operator organising transport, the need for information about services is real: what kind, by whom, which time windows”

“Our customers need terminal information, on what services are available, on technical parameters of the various sites”

“We serve many private sidings, through SWL. Some technical information should not be neglected: e.g. axle load, length of tracks etc. Access conditions are also important from the corridor perspective.”

“The information is important for concrete business purposes and also for lobbying. It answers customers’ needs.”

# Railfreightlocations.eu (Screenshots)

The screenshot displays the RailfreightLocations.eu website interface. On the left, there is a search and filter sidebar with a search bar and several filter categories: FACILITY TYPE, AREA TYPE, MODE, RAIL FREIGHT CORRIDOR, LOADING UNIT, CARGO TYPE, and SERVICE. The main area is a map of Europe with numerous facility locations marked by colored circles and symbols. A legend on the right side of the map explains the symbols: blue circles for Intermodal terminal, green circles for Railport / Rail logistics centre, yellow circles for Station with public siding, red circles for Private siding, and grey circles for Other. Symbols for Sea port, Inland port, and Freight village are also shown. The right panel shows a 'FACILITY PREVIEW' for 'ATZ' with a list of facilities and their details.

**4 Facility Types:**

- Intermodal Terminal
- Railports / Rail logistics centre
- Stations with public sidings
- Private siding

# Railfreightlocations.eu (Screenshots)

The screenshot displays the Railfreightlocations.eu website interface. The main map shows Europe with various rail freight facilities marked by colored icons. The left sidebar contains several filter panels:

- Search facilities:** A search input field.
- FACILITY TYPE:** Includes checkboxes for Intermodal terminal (checked), Railport / Rail logistics centre, Station with public siding, Private siding, and Other.
- AREA TYPE:** Includes checkboxes for Sea port, Inland port, Freight village, and Other.
- MODE:** Includes checkboxes for Rail, Road, Sea freight, Inland waterways, and Other.
- RAIL FREIGHT CORRIDOR:** Includes checkboxes for RFC1 through RFC9.
- LOADING UNIT:** A checkbox.
- CARGO TYPE:** A checkbox.
- SERVICE:** A checkbox.

The right sidebar features a **FACILITY PREVIEW** section with a 'Hover above a facility for details.' instruction. Below this is a list of facilities with columns for Name and Operator. The list includes:

- Antwerp Combinant [Combinant NV]
- Anwerp Cirkeldijk [IFB]
- Anwerp Zomerweg [IFB]
- APM Terminal Zeebrugge [APM Terminals Zeebrugge N.V.]
- APM Terminals Rotterdam [APM Terminals Rotterdam]
- ATO (Associated Terminal Operators) [ATO Antwerp]
- Container Handling Zeebrugge (CHZ) [PSA Zeebrugge]
- Contargo Karlsruhe Rheinhafen [Contargo Wörth-Karlsruhe GmbH]
- Contargo Ludwigshafen Rhein-Neckar [Contargo Rhein-Neckar GmbH]
- Contargo Neuss T1 [Contargo Neuss GmbH]

At the bottom of the facility list, it shows 'Showing 1 to 10 of 29 entries' and navigation buttons for 'PREVIOUS' and 'NEXT'. Below the facility list is a **LEGEND** section with 'FACILITY TYPE COLOURS' and 'AREA TYPE SYMBOLS'.

# Railfreightlocations.eu (Screenshots)

DUSS-Terminal München-Riem [🔗](#)

BASIC DATA

INFRASTRUCTURE/EQUIPMENT

LOADING UNITS/CARGO TYPES

SERVICES

LINKS

## Facility type

Intermodal terminal

## Facility address

Hofbräuallee 11  
81829 München  
Germany

## Facility contact data

DUSS mbH  
Hans Prey  
T +49 89 97887 100  
F +49 89 97887 105  
duss-muenchen-terminalleitung@deutschebahn.com  
Website [🔗](#)

## Opening times

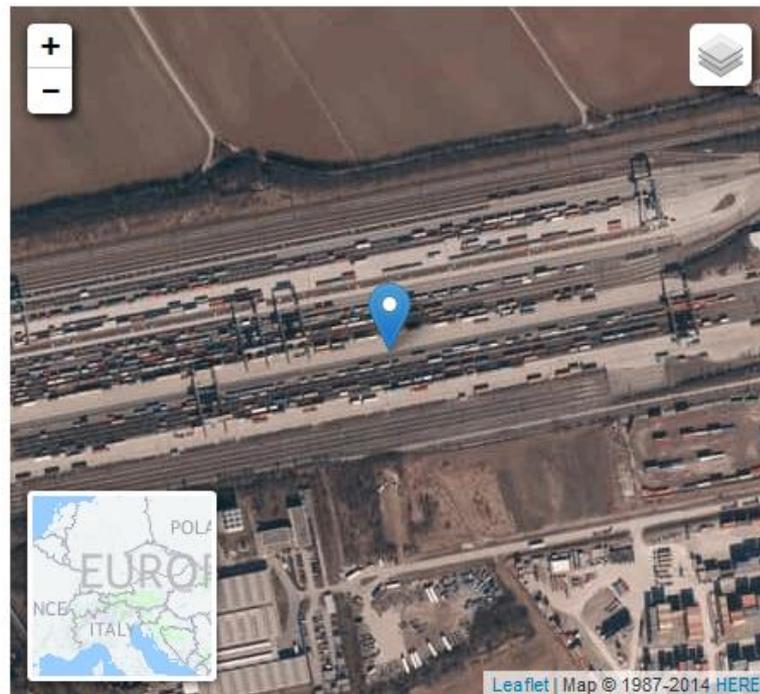
24h operation

## Modes

Rail, Road

## Operation status

Unknown



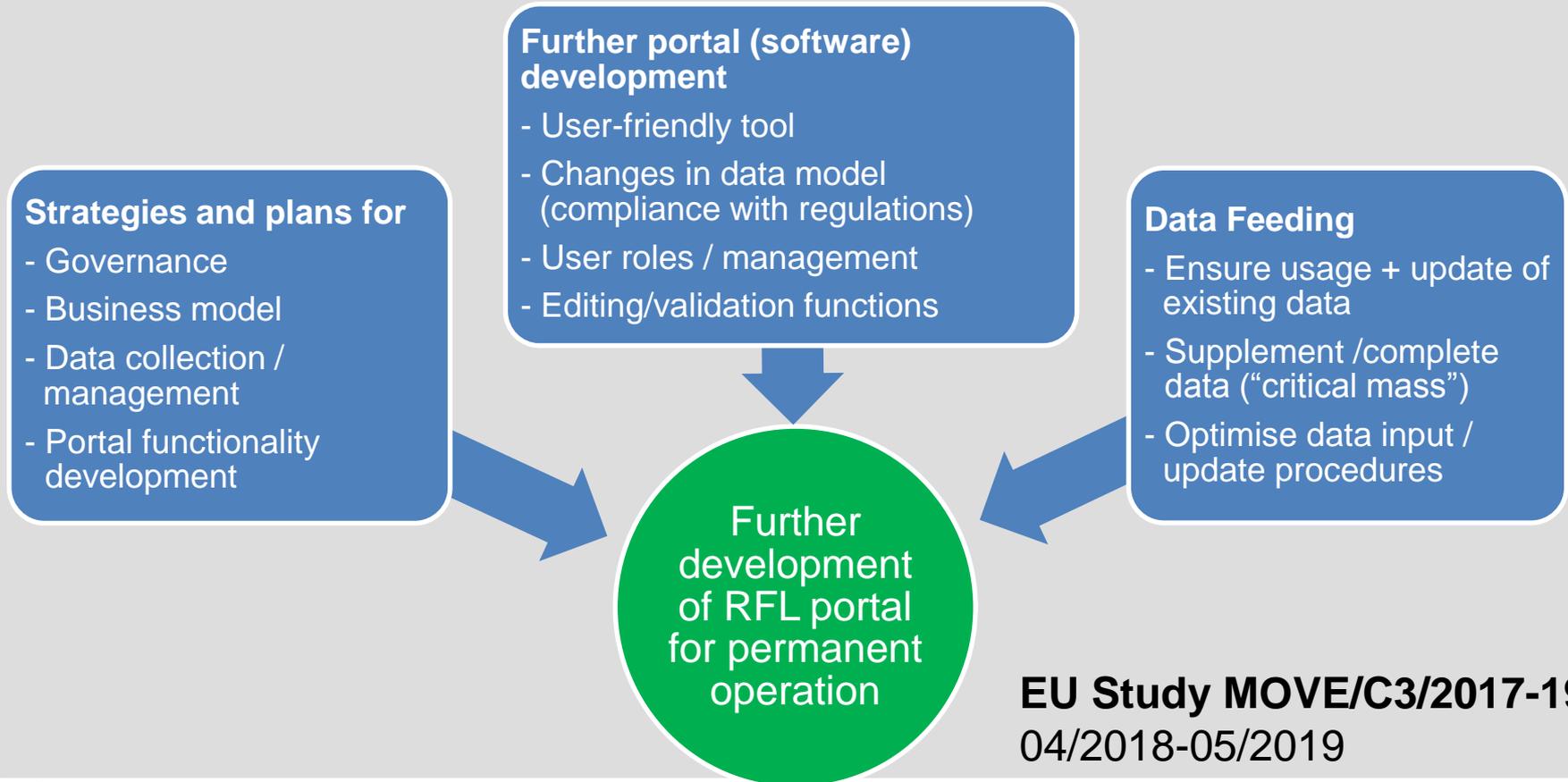
Main data source: [SGKV/UIRR](#)

[Send Feedback](#)



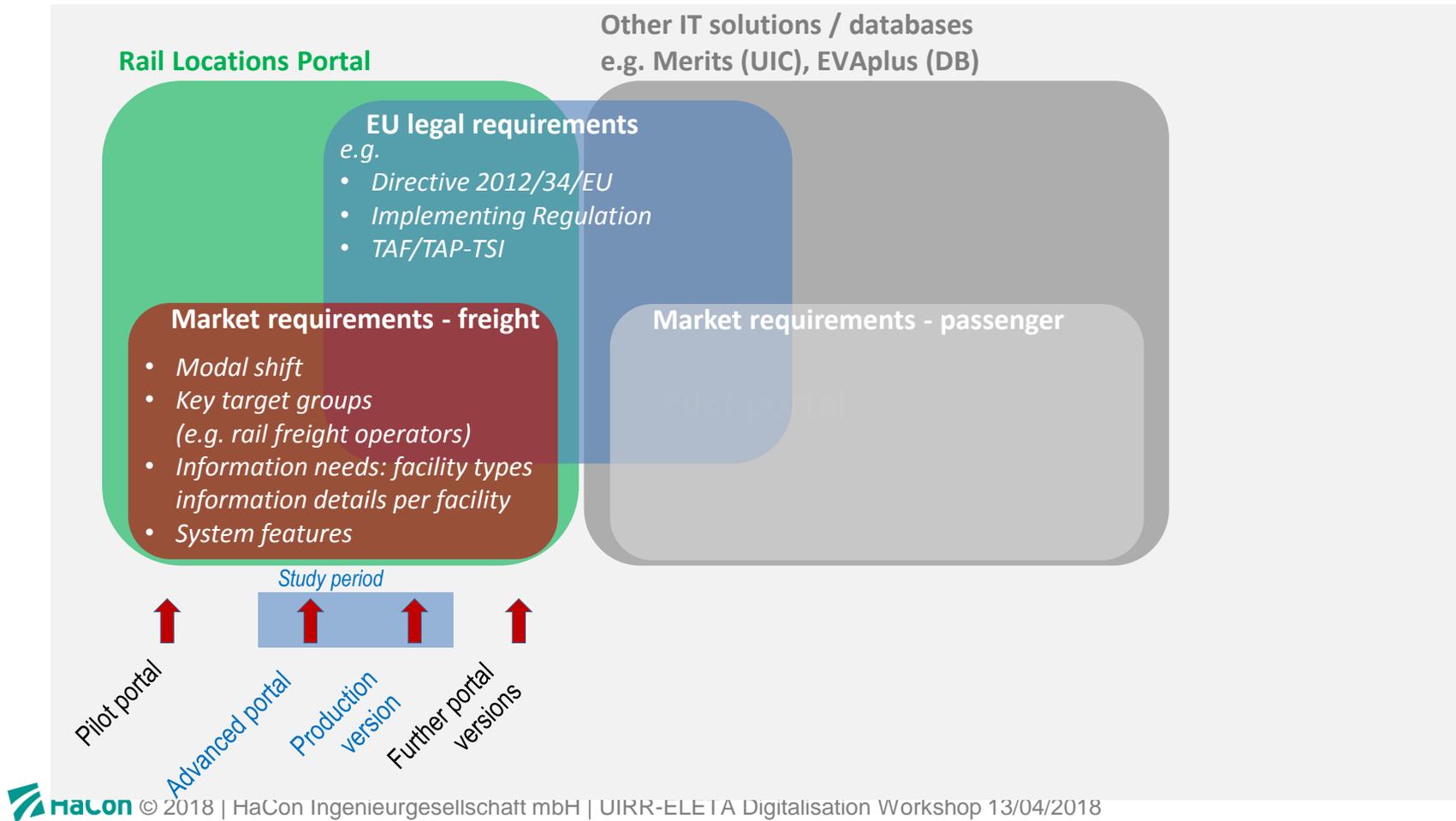
# EU study to further develop the RFL Pilot Portal

# Project objectives



**EU Study MOVE/C3/2017-198**  
04/2018-05/2019

# Project approach – Concept for portal design



# Consideration of facility types according Directive 2012/34/EU

- Passenger stations
- Freight terminals (+ potential subtypes)
- Marshalling yards / Train formation facilities, including shunting facilities
- Storage sidings
- Maintenance facilities
- Other technical facilities, incl. cleaning and washing
- Maritime and inland port facilities linked to rail activities
- Relief facilities
- Fuelling facilities

# Consideration of Implementation Regulation, Article 4/2 (1)

Required information (Implementing Regulation)	Included in the Pilot Portal data model	Proposal for updated data model	Proposal for link to Operator Website or for attached file (by operator)
(1) Facilities according Directive 2012/34/EU, Annex II/2	See extra chart		
(1) Additional services according Directive 2012/34/EU, Annex II/3		(Pre-heating of passenger trains)	<ul style="list-style-type: none"> <li>- Traction current (charges)</li> <li>- Tailor-made contracts</li> </ul>
(1) Ancillary services according Directive 2012/34/EU, Annex II/4	<ul style="list-style-type: none"> <li>- Supplementary information</li> <li>- Technical inspection of rolling stock (maintenance/repair)</li> </ul>	<ul style="list-style-type: none"> <li>- (Maintenance services for high-speed trains)</li> <li>- (Ticketing services in passenger stations)</li> </ul>	<ul style="list-style-type: none"> <li>- Access to telecommunication networks</li> </ul>
(1) Location	✓		
(1) Opening hours	✓		
(2) Key contact details	✓		
(3) Technical characteristics	<ul style="list-style-type: none"> <li>- Sidings</li> <li>- Equipment for (un)loading</li> <li>- Available storage capacity</li> </ul>	Shunting/marshalling tracks	<ul style="list-style-type: none"> <li>- Equipment for washing</li> <li>- Equipment for maintenance</li> </ul>
(4) Description of services listed in Directive 2012/34/EU, Annex II/2, 3, 4			✓

# Consideration of Implementation Regulation, Article 4/2 (2)

Required information (Implementing Regulation)	Included in the Pilot Portal data model	Proposal for updated data model	Proposal for link to Operator Website or for attached file (by operator)
(5) Possibility and conditions of self-supply			✓
(6,7,8,9,10,11,13,14,15,16,17,18) Procedures for requesting access, terms and conditions, charges			✓
(12) Information on changes in technical characteristics and temp. capacity restrictions		✓	
(19) Information on private branch lines/sidings (only relevant if needed to access other service facilities)	✓ Contact: Private siding operator	✓ Technical characteristics of private branch lines	

# Consideration of Implementation Regulation (3)

Required information (Implementing Regulation)	Included in the Pilot Portal data model	Proposal for updated data model	Proposal for link to Operator Website or for attached file (by operator)
Article 6 (1) Information on allocation of costs for charges' calculation			✓
(12), Article 6 (3,4) (Real-time) Information on facility capacity		✓ Provided by facility operator	
Article 7-15, 17			✓
Article 16: Unused facilities	✓ Operation status		
Other information items, mentioned neither in Directive 2012/34/EU nor in Implementing Regulation	Facility types, area types, RFC assignment		
	Loading unit types, cargo types		
	Dangerous goods handling, reefers, stuffing/stripping, trucking, other services		
	Loading tracks, Head/side ramp, loading lane, other equipment		

# Project approach – Concept for portal data

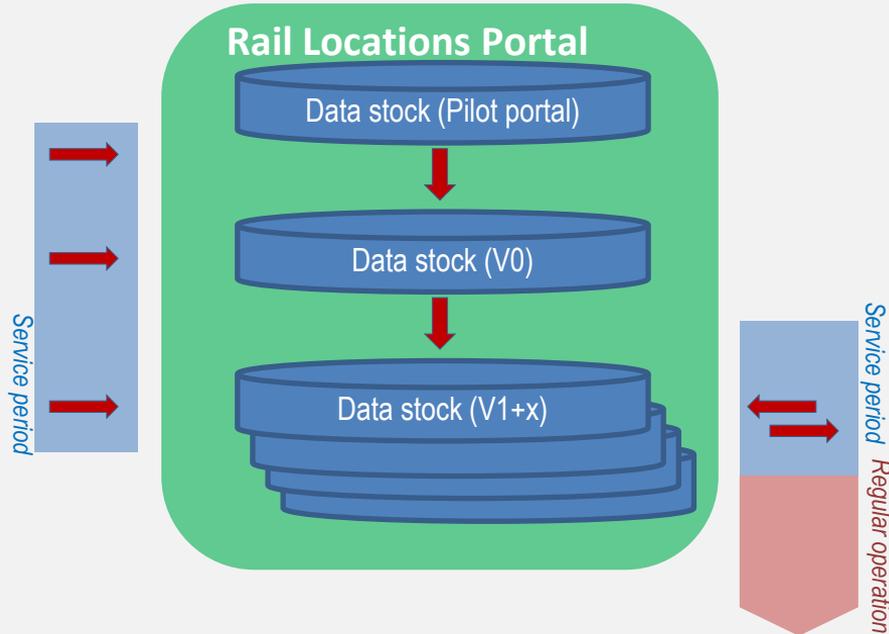
## Data collection exercise (by project team)

Negotiate with data providers  
use of data for permanent portal

Data collection/verification:  
Check/correct data transferred  
from pilot portal

Data supplement/completion

- Agreed facility types and information parameters (exploit portal functionalities for editing or data transmission)
- Focus on geographical areas
- Achieve “critical mass”



## Data editing involving facility operators → Permanent data update

(Feedback to portal contents via  
existing feedback module)

Registered users (data providers):  
Data editing or transfer via  
“Extended user model”  
with upgraded editing masks, interfaces  
Portal data manager(s)  
Support for data editing/transfer  
Feedback in case of inconsistencies

- **European registers on railway infrastructure**  
e.g.  
RINF (Register of Infrastructure);  
CRD database (Central Repository Domain).
- **Network statements**  
of the national and regional rail infrastructure managers or primary information sources from other infrastructure operators (terminals, railports,...)
- **Rail Freight Corridors**
- **Terminal operators**
- **Other existing information portals**



# Discussion

Thank you for  
your attention!



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