

Smart Track 4 Waterway

*Smart Tracking Data Network
for Shipment by Inland **Waterway***

*Modal shift to waterway fostered
by hierarchical tracking*

Partners

Other participants



Palletized freight is generally carried by road:

- ⇒ In small volumes
- ⇒ Directly from point A to point B

Main impediments to modal shift from road to waterway:

- ⇒ **IWT** needs:
 - additional transshipment operations
 - adapted vehicles and infrastructures for pallet handling
 - bundling of several small volumes
 - more complex logistics engineering
 - more administrative burden



Hierarchical tracking data exchange platform:

⇒ linking tracking data from fragmented sources:

- vessels & trucks geo-localization
- last known location of logistics units (pallets ...)
- successive cargo tracking in multimodal environment:
 - what pallet in what vessel, in what truck?

⇒ sharing standardized & secure information:

- where everyone is master of his own data
- and shares it only with chosen partners

⇒ proposing real time follow-up of shipment:

- end to end seamless visibility
- synchronization between logistics & IWT actors

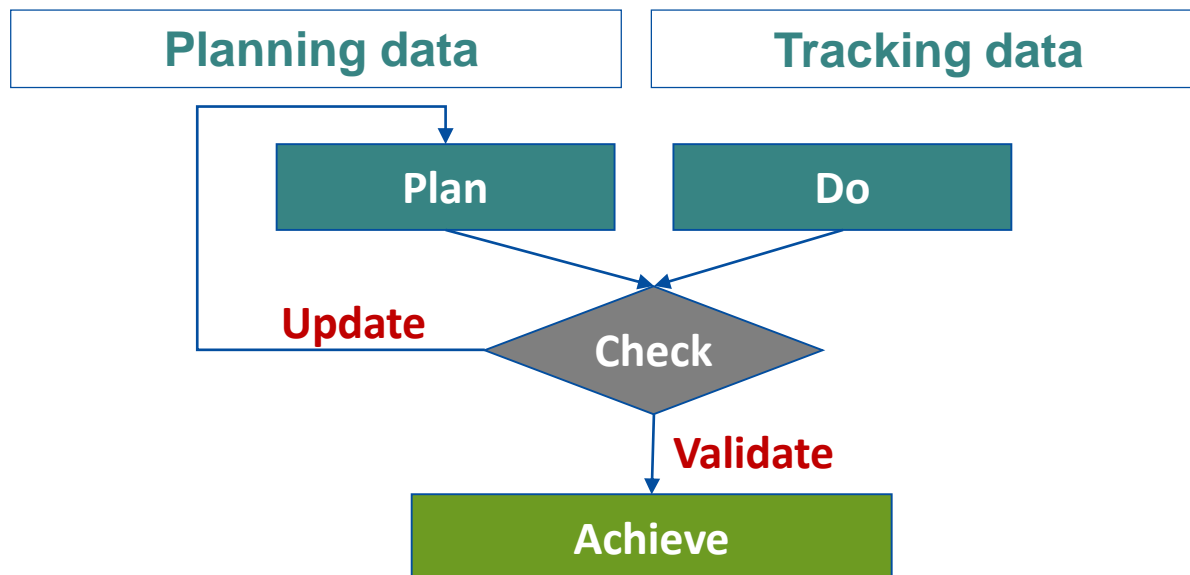
⇒ tackling modal shift impediments:

- multi-stop & multi-client vessels



Proposing real-time follow-up of shipment

- ⇒ Automatic update of logistics unit status (pallet, container ...)
- ⇒ Automatic alert in the case of delay or loading the wrong logistics unit
- ⇒ Real-time update of ETA (Estimated Time of Arrival) of each logistics unit, throughout the multimodal supply chain
- ⇒ Electronic proof of delivery at each step



Hierarchical tracking with on board smart-phone

2019-09-26

Roosens Beton		DELIVRÉ
Roosens Bétons - Qual	2019-09-24	
7181 Senefte	23:59	
Gobert Matériaux - Anderlecht	2019-10-25	
1070 Anderlecht	23:59	

Roosens Beton		DELIVRÉ
Roosens Bétons - Qual	2019-09-24	
7181 Senefte	23:59	
Gobert Matériaux - Anderlecht	2019-09-26	
1070 Anderlecht	23:59	

Roosens Beton		ENCODÉ
Roosens Bétons - Qual	2019-09-26	
7181 Senefte	23:59	
Gobert Matériaux - Anderlecht	2019-09-27	
1070 Anderlecht	23:59	

SSCC
um:epc:id:sscc:302702018.00000001



Nouvelle action

Nouveau status **PICKUP**

GS1 IDs

*um:epc:id:sscc:302702018.00000001

INSERT MODE

Multimodal shipment status

Planing & Progress		
<div>Ship From</div> <div>Grand-Couronne</div> <div>FR</div> <div>Normande de Manutention Bolloré</div> <div>76530</div> <div>Rue Henri de Rochebouet</div>	<div>Waypoint 1</div> <div>Gennevilliers</div> <div>FR</div> <div>Paris Terminal</div> <div>92230</div> <div>6 Route du Bassin Numéro 1</div>	<div>Ship To</div> <div>Bonneuil sur Marne</div> <div>FR</div> <div>5 Route de Stains Bonneuil sur Marne</div> <div>94380</div> <div>5 Route de Stains</div>
Planned Time	Arrival	Arrival
Departure	Mar 1, 2022	Mar 1, 2022
Estimated Time	Arrival	Arrival
Departure	Departure	
Actual Time	Arrival	Arrival
Departure	Departure	
PICK-UP Normande de Manutention Bolloré		

Planing & Progress			
	Ship From Grand-Couronne FR Normande de Manutention Bolloré 76530 Rue Henri de Rochebouet	Waypoint 1 Gennevilliers FR Paris Terminal 92230 6 Route du Bassin Numéro 1	Ship To Bonneuil sur Marne FR 5 Route de Stains Bonneuil sur Marne 94380 5 Route de Stains
Planed Time	Departure Mar 1, 2022	Arrival Mar 1, 2022 Departure Mar 1, 2022	Arrival Mar 1, 2022
Estimated Time	Departure	Arrival Departure	Arrival Mar 2, 2022
Actual Time	Departure Mar 1, 2022	Arrival Mar 1, 2022 Departure	Arrival
<div> <div>PICK-UP Normande de Manutention Bolloré</div> <div>ARRIVED AT PF Paris Terminal</div> </div>			

Planing & Progress

Ship From

Grand-Couronne

FR

Normande de Manutention Bolloré

76530

Rue Henri de Rochebouet

Waypoint 1

Gennevilliers

FR

Paris Terminal

92230

6 Route du Bassin Numéro 1

Ship To

Bonneuil sur Marne

FR

5 Route de Stains Bonneuil sur Marne

94380

5 Route de Stains

Planed Time

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Estimated Time

Departure

Arrival

Departure

Arrival

Mar 2, 2022

Actual Time

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Departure

Mar 1, 2022

Arrival

PICK-UP Normande de Manutention Bolloré

ARRIVED AT PF Paris Terminal

TRANSSHIPMENT Paris Terminal

Multimodal shipment status

Planing & Progress

Ship From

Grand-Couronne

FR

Normande de Manutention Bolloré

76530

Rue Henri de Rochebouet

Waypoint 1

Gennevilliers

FR

Paris Terminal

92230

6 Route du Bassin Numéro 1

Ship To

Bonneuil sur Marne

FR

5 Route de Stains Bonneuil sur Marne

94380

5 Route de Stains

Planed Time

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Estimated Time

Departure

Arrival

Departure

Arrival

Mar 2, 2022

Actual Time

Departure

Mar 1, 2022

Arrival

Mar 1, 2022

Departure

Mar 1, 2022

Arrival

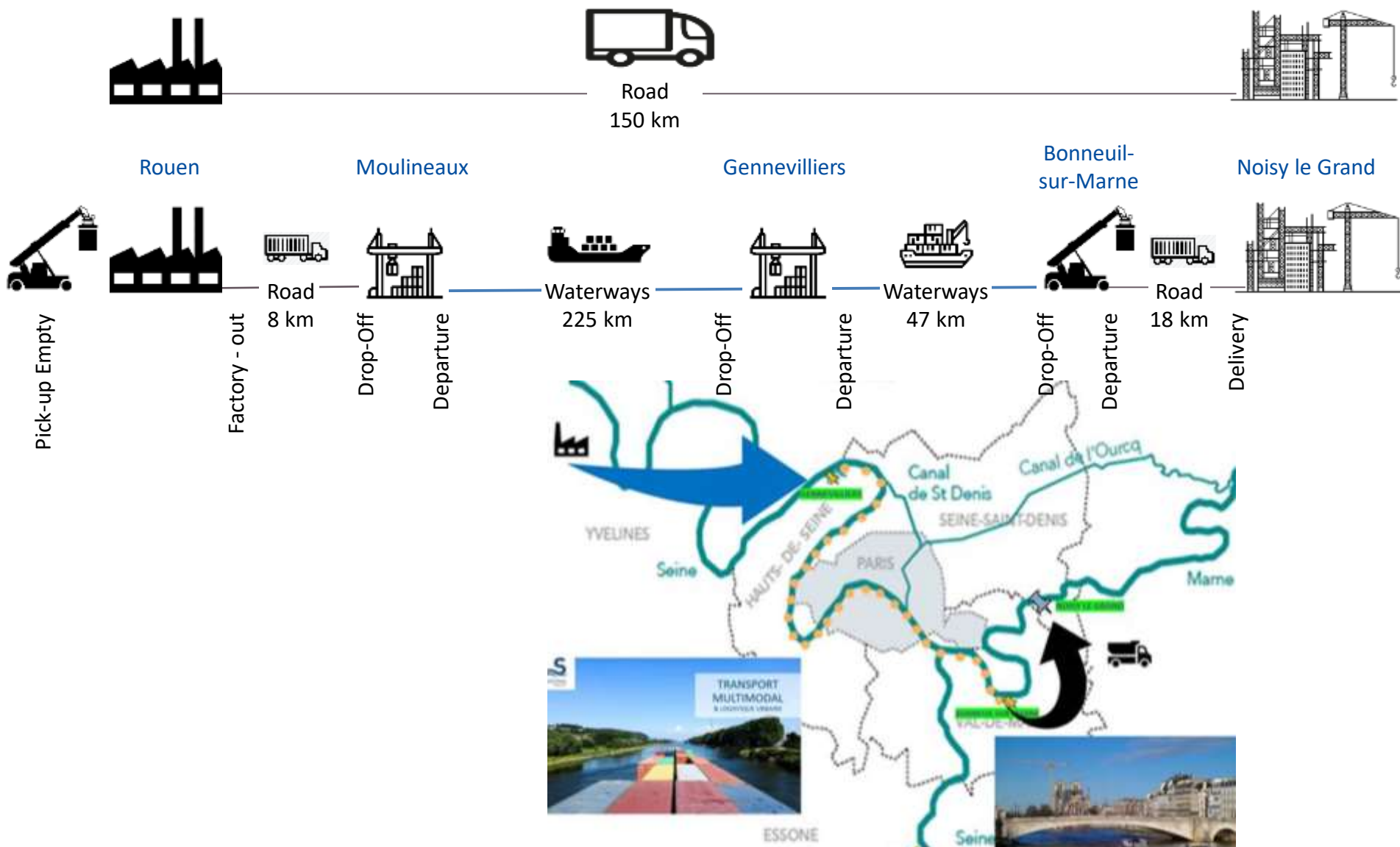
Mar 1, 2022

PICK-UP Normande de Manutention Bolloré

ARRIVED AT PF Paris Terminal

TRANSHIPMENT Paris Terminal

DROP-OFF 5 Route de Stains Bonneuil sur Marne



Moulineux



Gennevilliers



Bonneuil



Noisy le Grand



Capitalisation: better connect IWT with multimodal last-mile logistics

Digital interconnection between IWT and urban logistics

Physical interconnection: Innovative vehicles & transshipment

- Various vessel sizes
 - Maasdam (1 250 T)
 - Zulu (330 T)
 - GreenWave (20 T)
- Standardized & modular containers
 - FlexiMalle
 - Urban containers
- Urban waterfront hubs
 - BCCC - Brussels
 - CMDU - Lille
- Last-mile thanks to eco-friendly vehicles
- Circular IWT logistics
- 5 Testbeds
 - FR : Paris, Lille
 - BE : Gent, BXL, Wallonia

