



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

BOOSTLOG PROJECT

DELIVERABLE REPORT

BOOSTLOG – D

M 9 – 30 September 2021

8 December 2021

Cloud report (i)

WP2

ZLC

ALICE, FIT, DINALOG

Final

Disclaimer

[illegible]

Document History:

[illegible]



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

EXECUTIVE SUMMARY

4



logistics coordination and collaboration that refers respectively to
vertical and horizontal synergies along
maximising assets and resources utilization
and across different supply chains

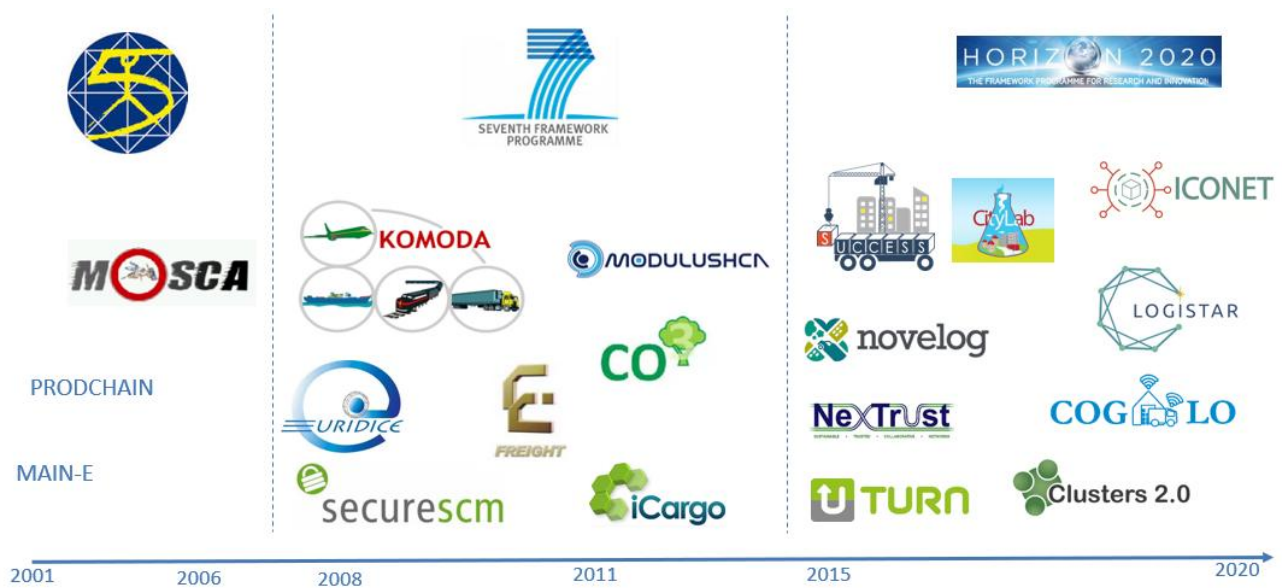


Figure 1.



main barriers hindering cooperation and collaboration scalability of governance, business and operational models, complexity of transition management, legal issues and soft/behavioural aspects.

BARRIERS	SOLUTIONS
Scalability of governance, business and operational models	<ul style="list-style-type: none"> • • • • •
Complexity of the transition management: Transactional, set-up and operational costs hinder benefits from efficiency gains	<ul style="list-style-type: none"> • • • •
Legal issues: Competition rules compliance	<ul style="list-style-type: none"> • • •
The collaboration framework requires soft/behavioural aspects to be addressed <ul style="list-style-type: none"> • Not finding good partners • Collaboration culture • Unbalanced flows in terms of time and volumes • Losing SC control (including losing purchasing power) • Work with competitors 	<ul style="list-style-type: none"> • • • • • •



MIXMOVE

TRI-VIZOR

SMARTBOX

CRC Services

Table 1.

[illegible]



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

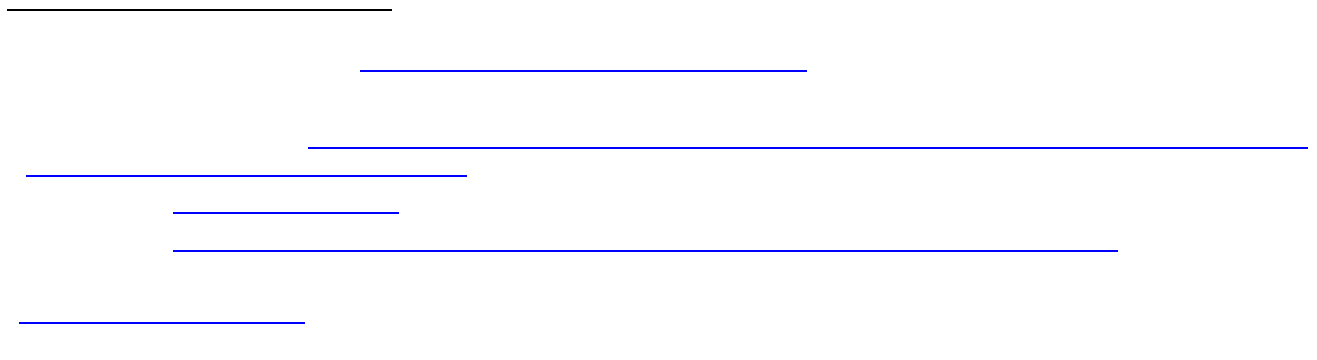
1 Introduction and methodology

1.1 BOOSTLOG project

1.2 Scope of this deliverable



1.3 Introduction





1.4 Why improving coordination and collaborate? Expected positive impacts

-
-
-
-
-

Table 2.

Expected Impact	KPIs	Projects
Decrease of environmental impact		
Increase transport and logistics efficiency	both	NEXTRUST
		ICONET
Reduction of congestion		
Achieving and increase in modal shift to rail freight/waterways transport		
Decrease of overall transportation and logistics cost		
Increased reliability of the Supply Chain		
Decreased Lead Times		



1.5 Defining the scope and the potential strategies

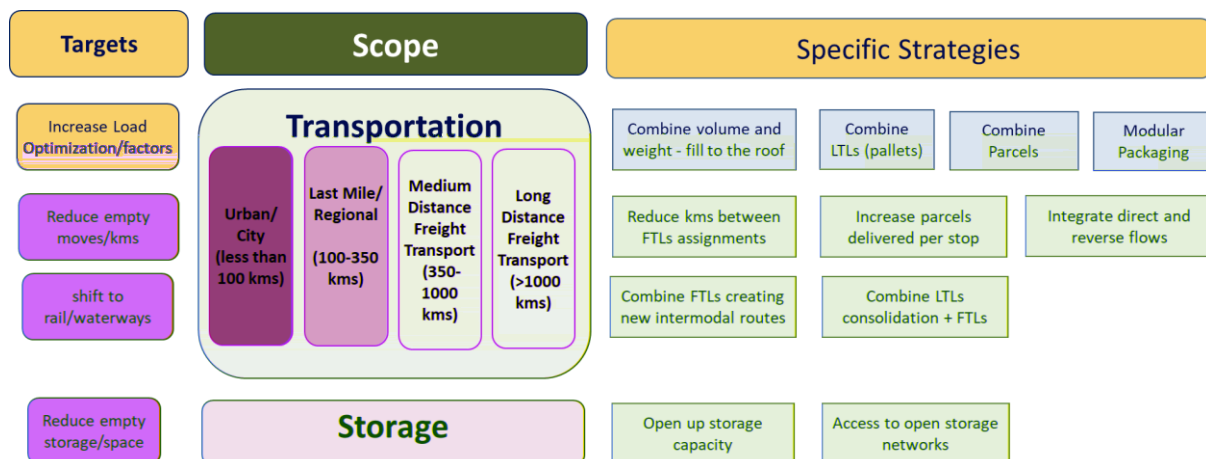


Figure 2.

1.6 Barriers and guidelines to achieve the benefits of logistics coordination and collaboration



Table 3.

BARRIERS	GUIDELINE
Scalability of governance, business and operational models	<ul style="list-style-type: none">•••••
Complexity of the transition management: Transactional, set-up and operational costs hinder benefits from efficiency gains	<ul style="list-style-type: none">••••
Legal issues: Competition rules compliance	<ul style="list-style-type: none">•••
<p>The collaboration framework requires soft/behavioural aspects to be addressed</p> <ul style="list-style-type: none">• Not finding good partners• Collaboration culture• Unbalanced flows in terms of time and volumes• Losing SC control (including losing purchasing power)• Work with competitors	<ul style="list-style-type: none">••••••



1.7 Methodology



Figure 3.



2 Market current practice analysis

Collaboration Model	Number of Stakeholders	Activity Types	Risk Taking Initiator	Gain Sharing Model	Data Sharing Model	Flexibility
Subletting Warehouse Space	At least two shippers, LSP and Trustee are optional.	Storage Handling	No specific risk Use of existing assets	Contractual Negotiation or Gain Sharing (Shapley)	Data shared between shippers	Specific Business Case Small Member Base Low flexibility Low Scalability
Collaborative Roundtrips	At least two shippers and one LSP. Trustee is optional	Transportation	No specific risk Use of existing assets	Contractual Negotiation or Gain Sharing (Shapley)	Data shared between with trustee for overall analysis. Data shared with LSP for specific lane.	Specific Business Case Small Member Base Low flexibility Low Scalability
Collaborative Vehicle Fill	At least two shippers and one LSP. Trustee is optional	Handling Transportation	No specific risk Use of existing assets	Contractual Negotiation or Gain Sharing (Shapley)	Data shared between with trustee for overall analysis. Data shared with LSP for specific lane.	Specific Business Case Small Member Base Low flexibility Low Scalability
Collaborative Logistics Platforms	At least two shippers and one LSP. LSP takes the role of trustee.	Storage Handling Transportation Order Management	Risk for LSP for platform implementation	Contractual Negotiation	Data shared with LSP	Specific Business Case Medium Member Base Medium flexibility Medium Scalability
Parcel Delivery Networks	At least two shippers and one LSP. LSP takes the role of trustee.	Handling Transportation Routing	Risk for LSP for hub and spoke implementation	Fixed price grid with option to negotiate for B2B	Data shared with LSP	Collaboration Network Large Member Base High flexibility Large Scalability
Collaborative Corridor Management	At least two shippers and one rail / barge operators. LSP takes the role of trustee.	Transportation Routing Scheduling	Risk for LSP (subcontracting) and rail/barge operator (implementing service).	Contractual Negotiation	Data shared with LSP	Specific Business Case Medium Member Base Medium flexibility Medium Scalability
Logistics Clusters	At least two shippers. Public Body takes the role of trustee.	Community Building Data Sharing	Risk for public body for data platform and community building.	Fixed pricing structure for data platform	Data shared with public body for data sharing.	Specific Business Case Medium Member Base High flexibility Large Scalability

Figure 4.

•

•

•



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

-
-
-

[CHEP](#)

[ES3](#)

[Flexe](#)

[Freightera](#)

[Mutual Logistics](#)



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

[OGOship](#)

[Stockbooking](#)

[Stockpots](#)

[TRANSPOREON](#)

further initiatives stemming from EU funded Research & Innovation projects outcomes and implementation cases.

[CRC Services](#)

[MIXMOVE](#)

[SMARTBOX](#)

[TRI-VIZOR](#)



3 Project Results and Outcomes



Figure 5.

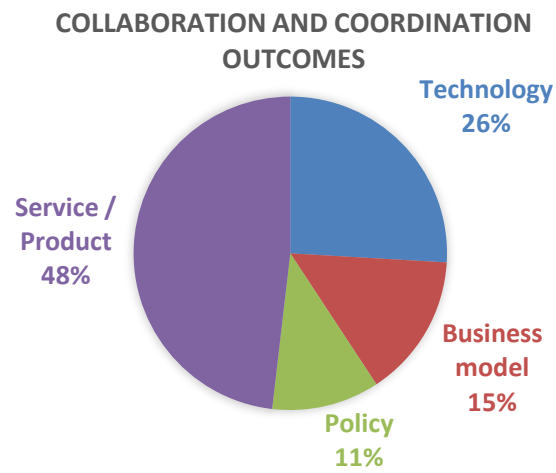


Figure 6.

3.1 Governance, Business and operational models



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902



Table 1.

[illegible]



<hr/>	
<hr/>	<hr/> <hr/>
	<hr/>
	<hr/> <hr/>
	<hr/> <hr/>



3.2 Managing the transition: Addressing set up and transactional cost

Projects Results	Outcomes
<hr/>	



3.3 Legal aspects and compliance with antitrust/competition law

Table 2.

Projects Results	Outcomes
<ul style="list-style-type: none">_____•••	
<ul style="list-style-type: none">• __________• _____	<ul style="list-style-type: none">•



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

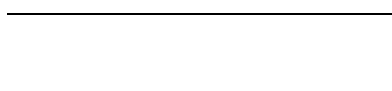
<ul style="list-style-type: none">• _____ _____• _____ _____ _____• _____ _____	<ul style="list-style-type: none">•••
---------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

4 Implementation cases

4.1 MIXMOVE



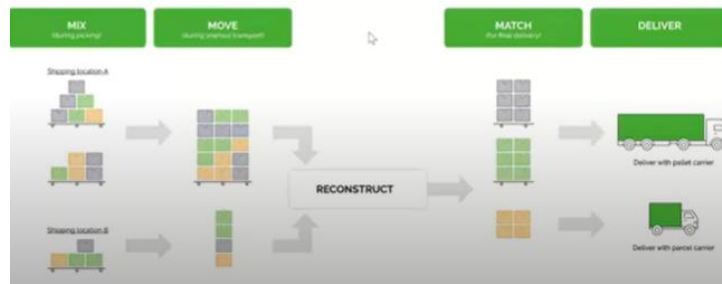


Figure 7.

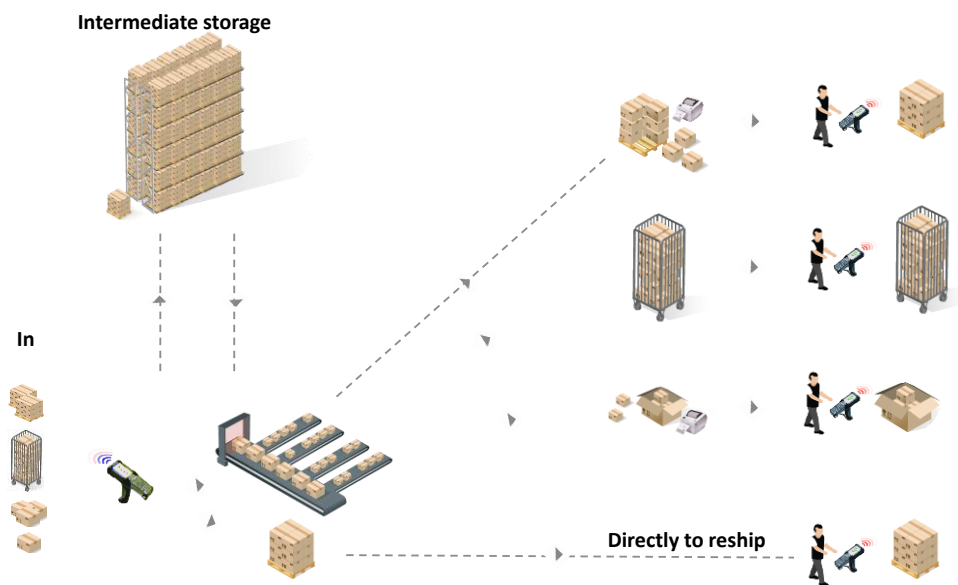


Figure 8.



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

4.2 TRI-VIZOR

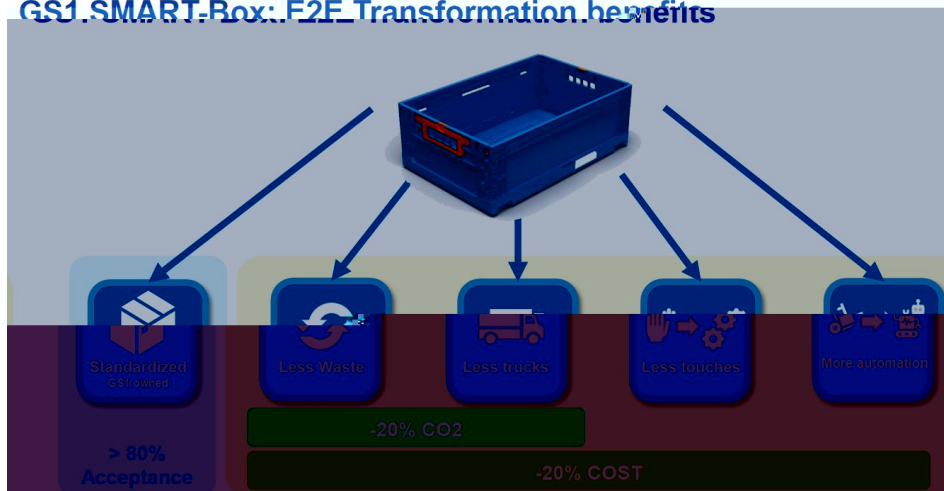
-



4.3 SMARTBOX



GS1 SMART-Box: F2F Transformation benefits





Document elaborated with the support of the BOOSTLOG project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006902

4.4 CRC SERVICES





Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902

Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902



Document elaborated with the support of the BOOSTLOG project has received funding from *the European Union's Horizon 2020 research and innovation programme* under grant agreement No 101006902



Annex II – Semi-structured interview guide

1. Project introduction



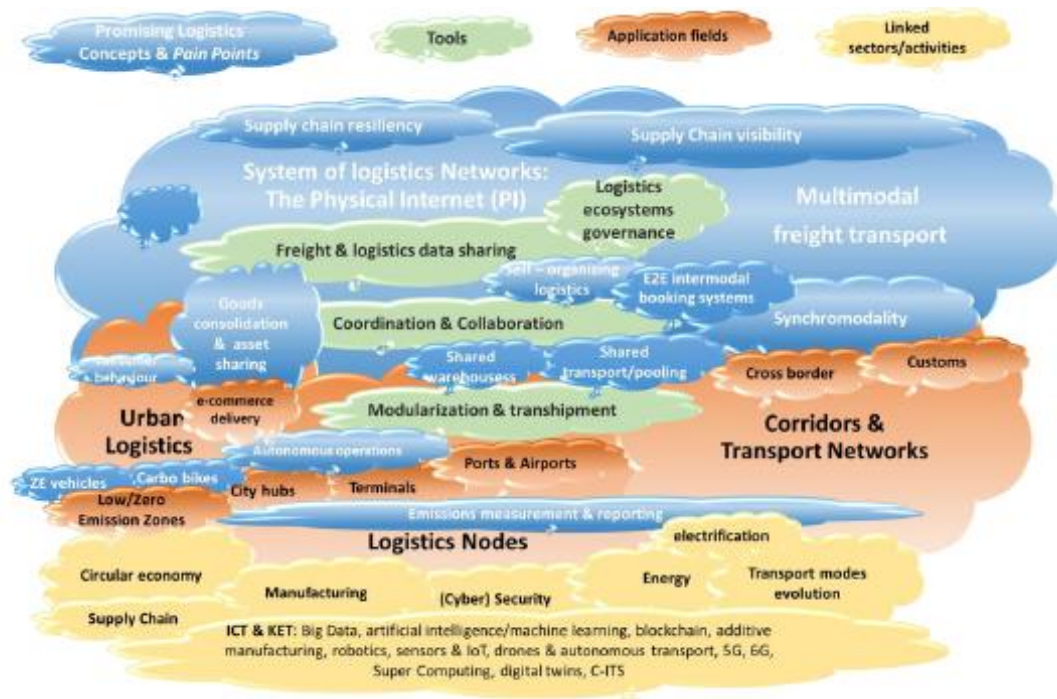


/

Coordination and collaboration*

F F

2. Cloud and subclouds diagram



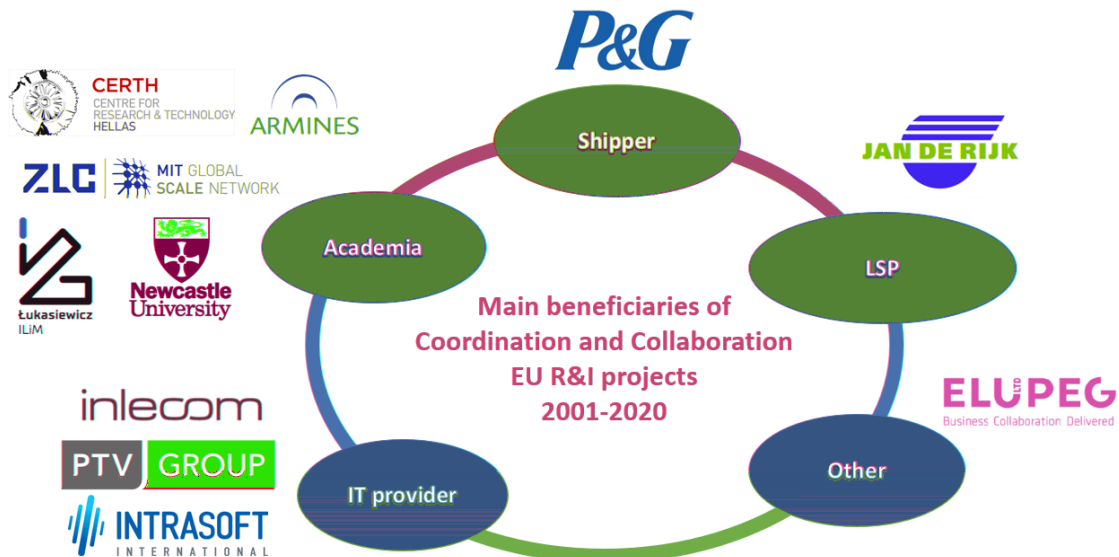


Document elaborated with the support of the BOOSTLOG project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101006902

3. Most relevant projects in the cloud



4. Organizations with highest participation in relevant projects in the cloud



5. Trends and societal drivers relevant/addressed for the Cloud

LIST of trends and societal drivers:

Climate change, urbanization, individualization, digitalization, demographic change, resource scarcity, circular economy, driver shortage, online shopping, COVID-19



6. Relevant EU policies addressed

LIST of policies addressed by the cloud:

- The European Green Deal
- Economy that Works for People
- Promoting our European way of life
- A Europe fit for the digital age

-
-

7. Project participation of your organization per Cloud

-

-

-

-

-
-
-
-

8. Project Outcomes

-
-

-

-
-
-

-

-
-
-
-
-

-



9. Implementation Cases

-
-
-

10. Final comments

-
-
-