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under grant agreement No 101006902

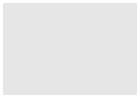


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Experts

Results

Outcomes

Implementation Cases

Logistics Clouds

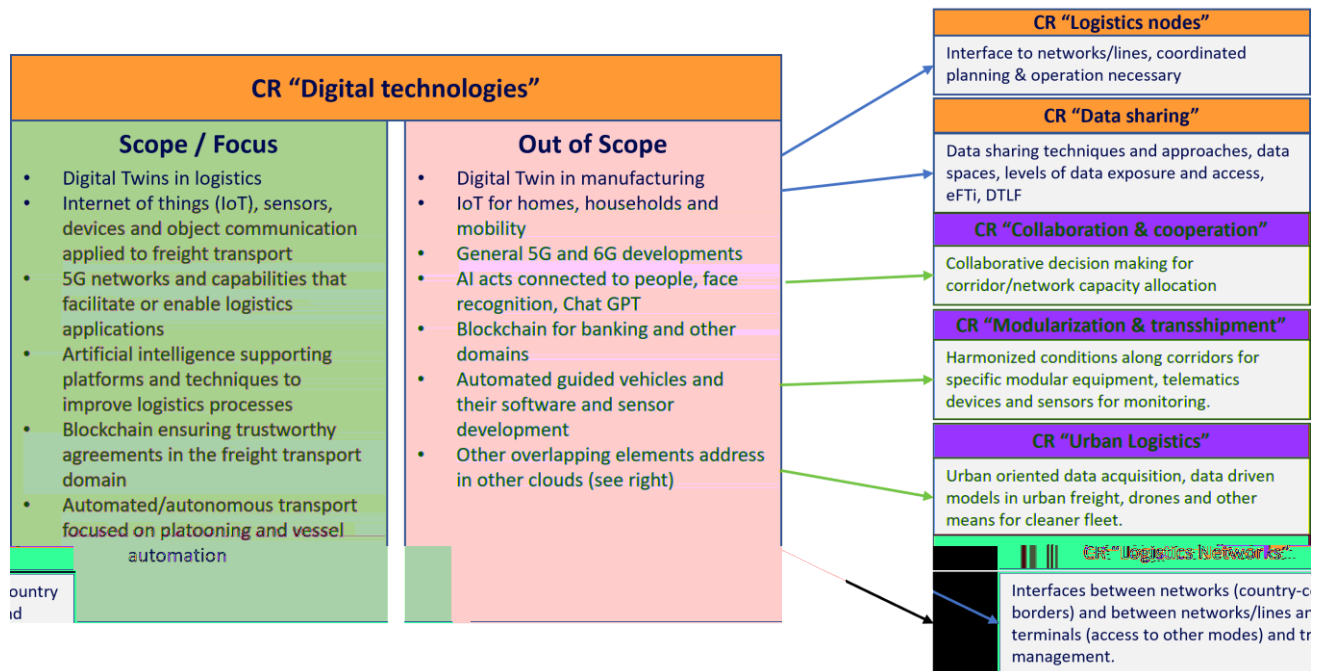


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Key enabling technologies

Sensors, devices, communication, cloud data processing

5G

Smart sensors

Big data / AI

Cloud computing

IoT Systems

Use cases

Transport & logistics

Automated operations

Shipment tracking

C-ITS

Fleet management

Smart city logistics

Conditions monitoring

Predictive Maintenance



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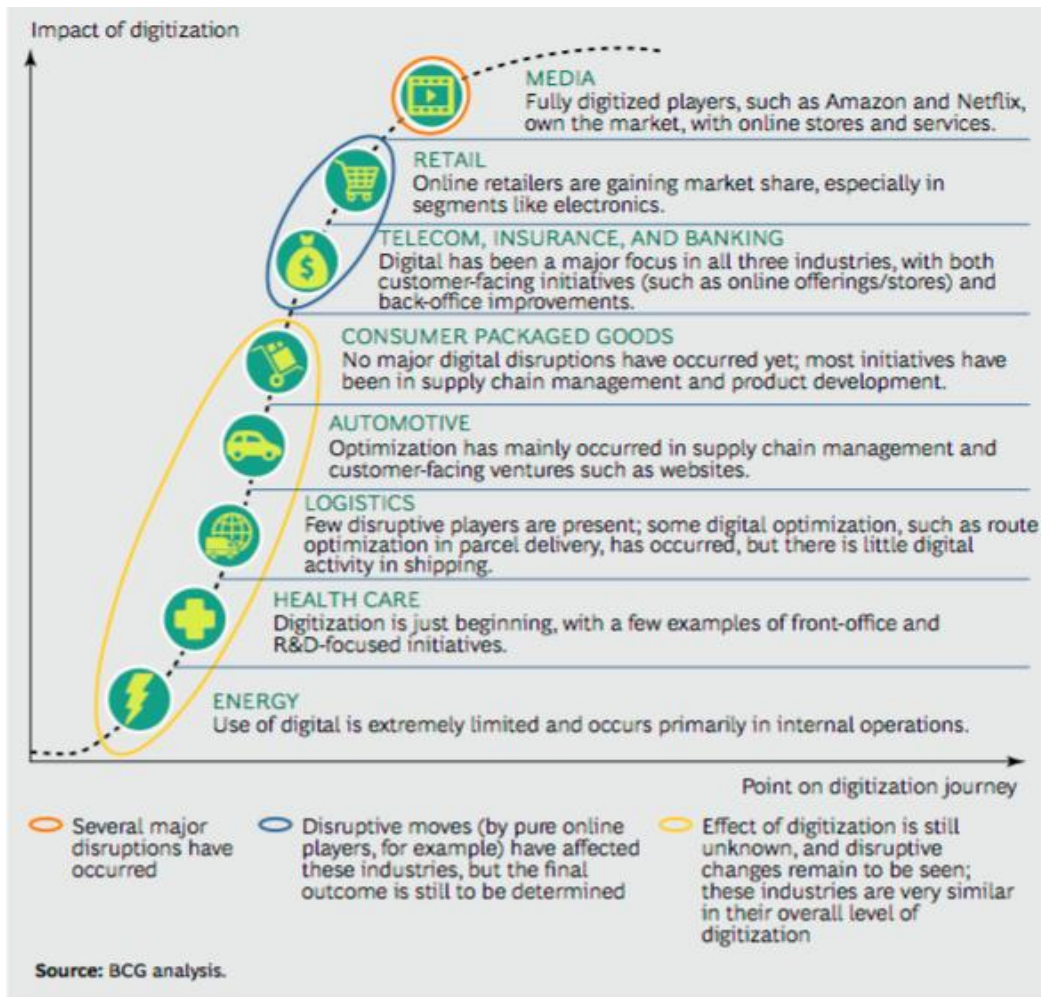


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SAE J3016™ LEVELS OF DRIVING AUTOMATION™

Learn more here: [sae.org/standards/content/j3016_202104](https://www.sae.org/standards/content/j3016_202104)

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What does the
human in the
driver's seat
have to do?

| SAE LEVEL 0™ | SAE LEVEL 1™ | SAE LEVEL 2™ | SAE LEVEL 3™ | SAE LEVEL 4™ | SAE LEVEL 5™ |
|---|-----------------|-----------------|--|---|-----------------|
| You are driving whenever these driver support features are engaged – even if your feet are off the pedals and you are not steering | | | You are not driving when these automated driving features are engaged – even if you are seated in “the driver’s seat” | | |
| You must constantly supervise these support features; you must steer, brake or accelerate as needed to maintain safety | | | When the feature requests, you must drive | These automated driving features will let you take over driving | |

Copyright © 2021 SAE International.

These are driver support features

These are automated driving features

| | | | | | |
|----------------------------|---|---|--|---|--|
| What do these features do? | These features are limited to providing momentary assistance | These features provide steering and acceleration support to the driver | These features provide steering and acceleration support to the driver | These features can drive the vehicle under limited conditions and will not operate unless all required conditions are met | This feature can drive the vehicle under limited conditions |
| What do these features do? | • same as level 4, but feature can drive everywhere in all conditions | • emergency braking • blind spot warning • lane departure warning | • adaptive cruise control | • lane centering • adaptive cruise control at the same time | • local driverless taxi • pedals/steering wheel may or may not be installed |
| Example features | | | | | |



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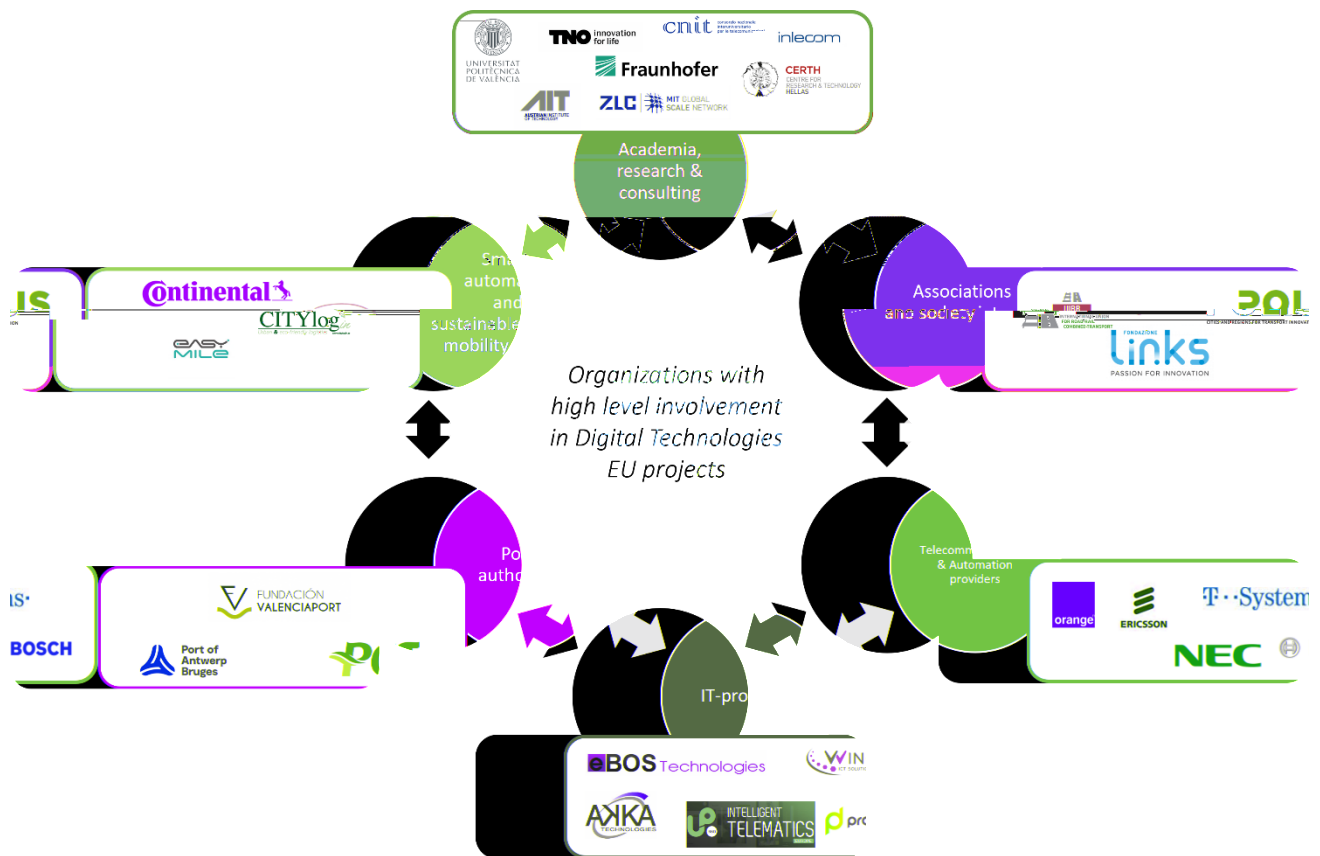


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operation of Gate Control System

proactive and reactive actions regarding the





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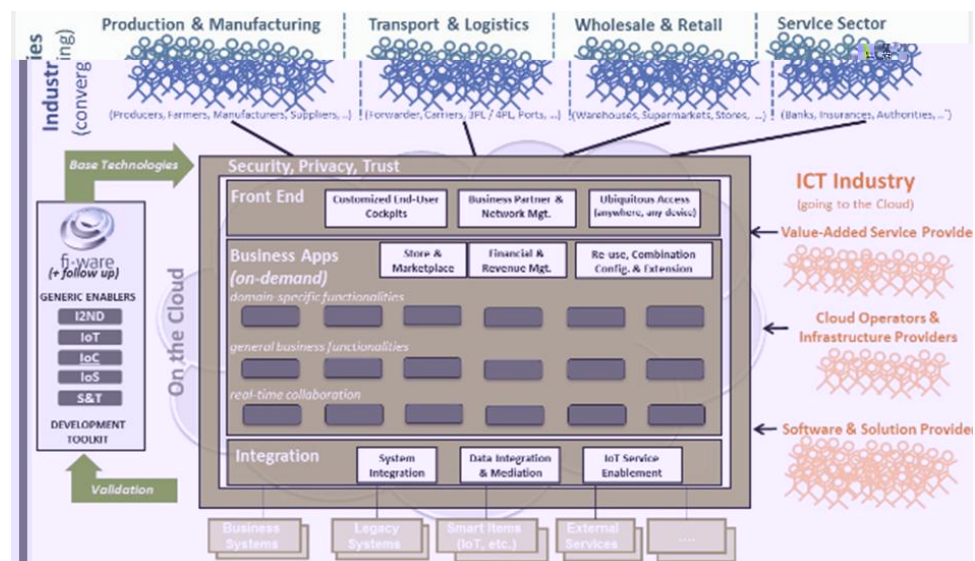


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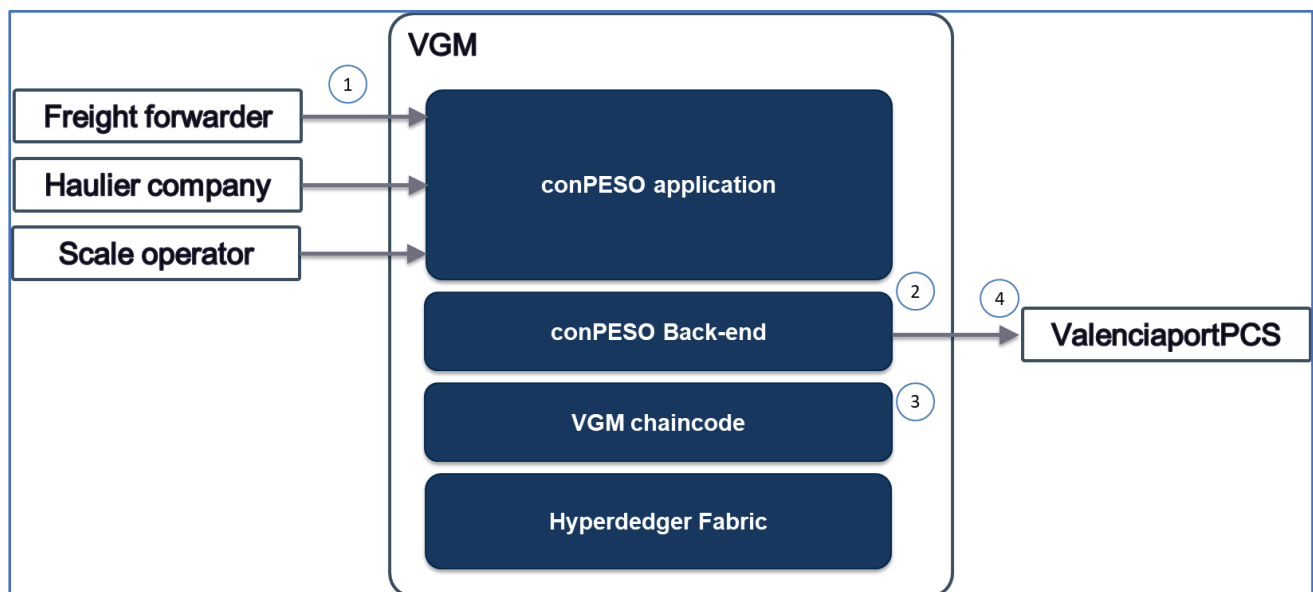


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Outcomes

Implementation Cases





Boat Planning

| Start | Type | Tonnage |
|----------------|----------|---------|
| 16/05/18 12:15 | Cereal | 6502 |
| 25/05/18 23:06 | Sol.Bulk | 15284 |
| 29/05/18 16:32 | Sol.Bulk | 751 |
| 02/06/18 05:57 | Liq.Bulk | 6548 |
| ... | ... | ... |

Supply Chain

| Dock | Sequence |
|------|-----------------------------|
| 452 | {Crane1 > Conv.Belt3 > ...} |
| 421 | {Pump4 > ...} |
| 421 | {Pump2 > ...} |
| 310 | {Hopper >> Schuller > ...} |
| ... | ... |

Machine Specification

| Energy | Cons. | Debit | Status |
|-----------|----------|--------------|------------|
| Electric | 4.5 (kW) | 52 (cont./h) | Ok |
| Fuel B405 | 15 (L) | 32 (T/h) | Ok |
| Fuel H56 | 28 (L) | 125 (m³/h) | HS [dates] |
| Electric | 31 (kW) | 32 (T/h) | Ok |
| ... | ... | ... | ... |

Energies Consumption Planning

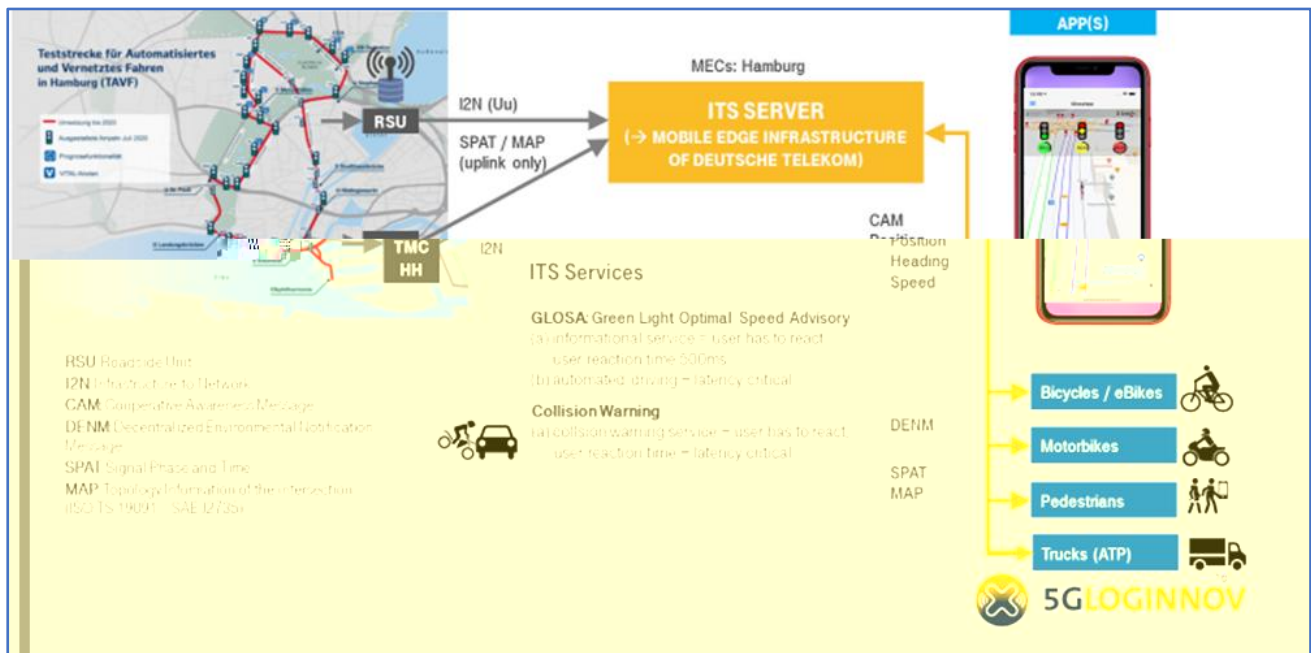


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BOOSTLOG INFORMATION SHEET

Project name: BOOSTing impact generation from research and innovation on integrated freight transport and LOGistics system (BOOSTLOG)

Starting date: 1 January 2021

Duration: 36 months

Total funding: 1 M€

Project type: Coordination and Support Action (CSA)

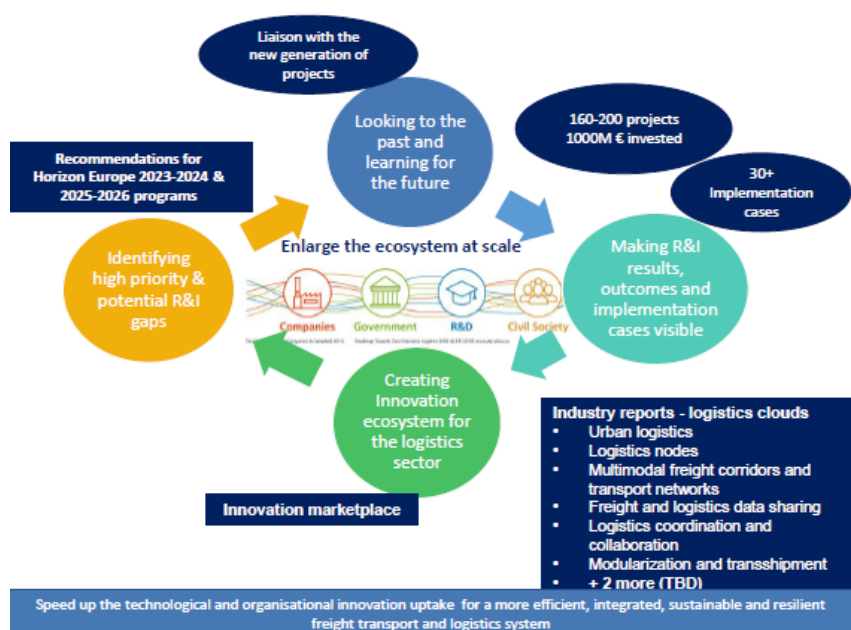
Programme: Horizon 2020

Topic: MG-2-13-2020 - Coordination and support for an integrated freight transport and logistics system

Webpage: <http://www.etp-logistics.eu/boostlog/>

Contact: info@etp-alice.eu

Transforming European freight transport and logistics R&I ecosystem to perform optimally and enhance impact generated from R&I investment for contributing to sustainability and competitiveness



Coordinator

alice

Consortium members

HACON

CLOSER

Moving Innovation

INNOVACION VALENCIAPORT

ERTICO

ZLC

ERTICO

MIT GLOBAL SCALE NETWORK

TU Delft

Smart Freight Centre

Fraunhofer IML

VIL EMPOWERING LOGISTICS

TKI DINALOG

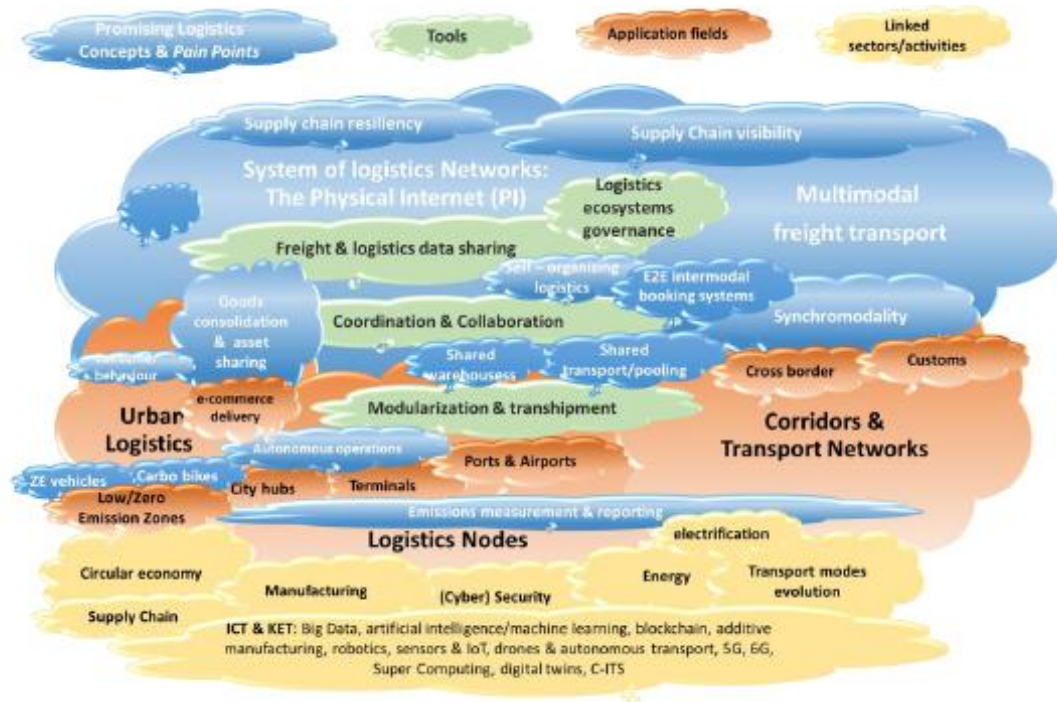
Bridge steps needed to enhance impact of R&I projects

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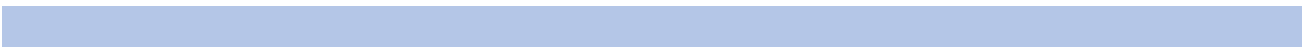


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