

# Advanced Logistics



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# We are facing a tsunami: ecological, digital and societal





# Companies face the challenge of sustainable performance

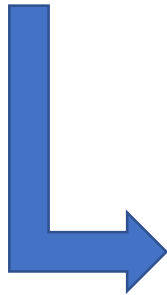


- new consumption patterns
- Lack of growth drivers
- New competitors from the digital world
- New distribution methods that change the value chain
- The challenge of the younger generations as customers and employees
- The challenge of the impact on the planet with emissions, energy, recycling etc...



# Supply Chain, Logistics ?

Getting the **right goods or services** to the **right place**,  
at the **right time**, and in the **desired condition** at the  
**lowest cost and highest return on investment** [Ballou]



# Post Covid-19 : Logistics/Supply Chain is at the heart of companies' concerns

- Products in shortage for several weeks
- Critical products in shortage (drugs, medical equipment, disinfectants, food, electronics ...)
- Critical components in shortage without proper sourcing policy
- Models based solely on the past, taking little account of exogenous or unstructured data
- Acceleration of digital journeys not integrated by companies to face a greater digital demand
- Unexpected and unanticipated operational flexibility in terms of both peaks and service requirements



# Company concerns are increasing



## Six strategies for supply chain resilience



gartner.com/SmarterWithGartner

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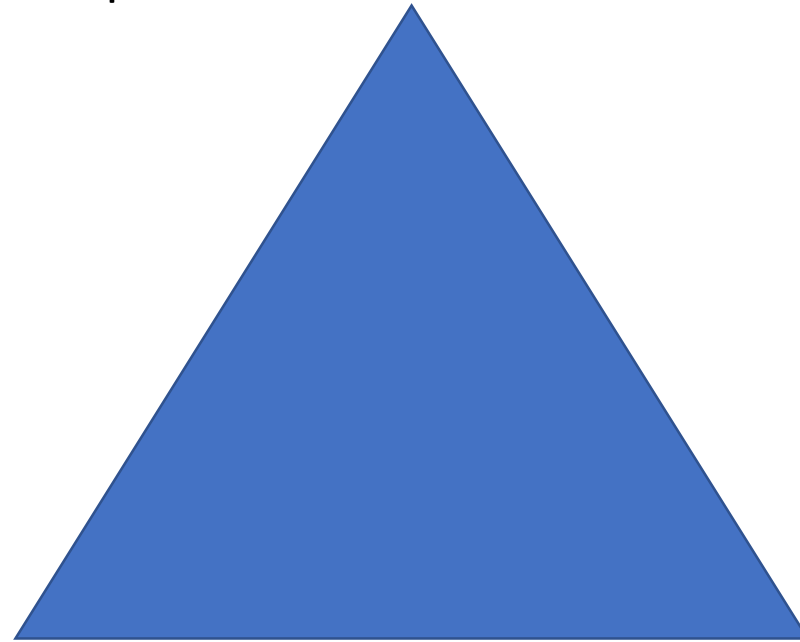
Gartner.





# 3 key challenges to achieve Sustainable Supply Chain performance

Optimized logistics plans that are integrated into the urbanization policies of cities and territories and meet eco-social requirements



Vehicles and buildings that consume less and emit less pollution (emissions, noise, etc...)

- A better pooling of logistic means to avoid empty/underfilled transports, under-used buildings, unnecessary emergencies
- A better distribution of the value allowing each actor of the chain to extract the value at the height of its contributions and innovations
- While improving the performance and resilience of Supply Chain and Logistics

# Towards Extended, Data/event driven, Autonomous and Connected supply chains...

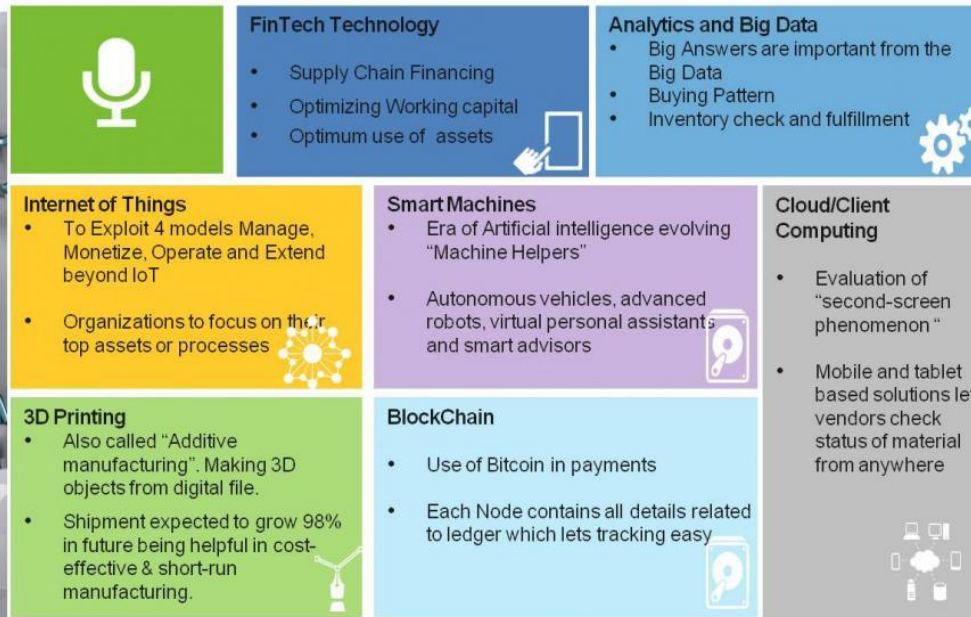
- **Extended:** an end-to-end supply chain integrating all supply chain actors
- **Data/event driven:** Reactualize frequently planning based on data insights or events
- **Autonomous:** Automate all operational planning and execution processes
- **Connected:** Automatically communicates across the entire chain (B2B, B2C, B2B2C, B2B2B) and across all channels: social networks, connected objects, alerts, partners, ....



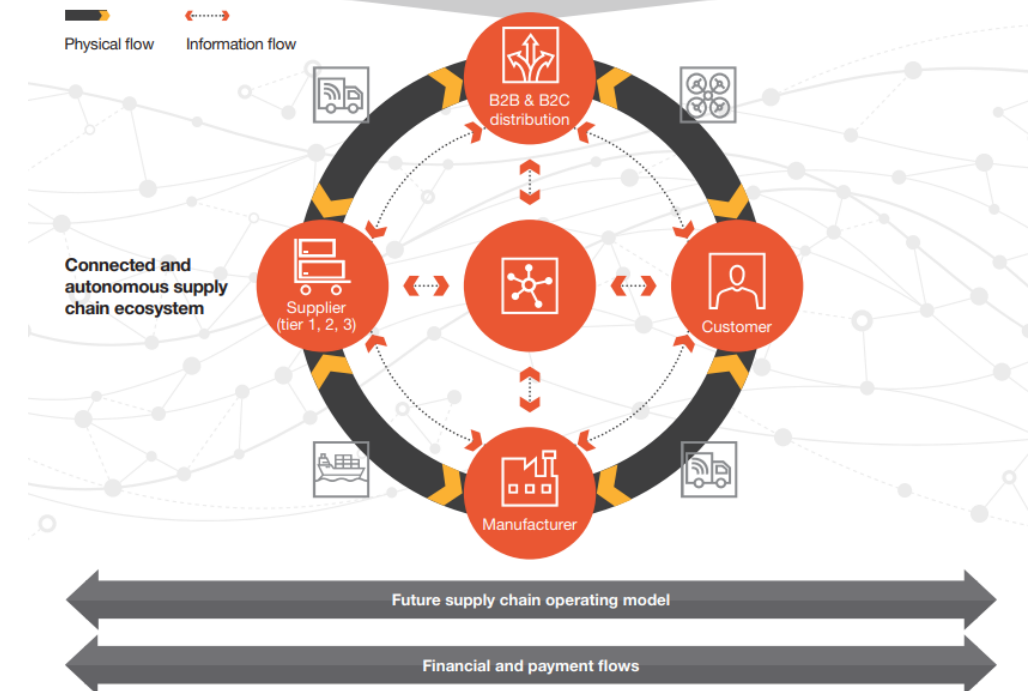
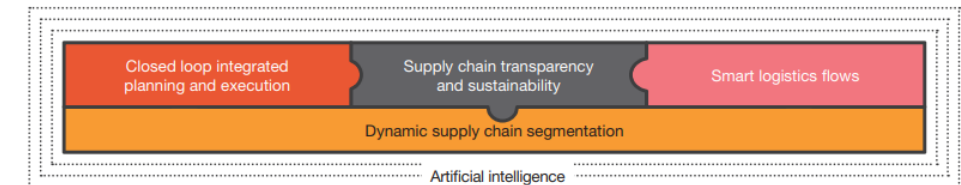
# ... achievable by developing the use of two main pillars

## Digital Technologies

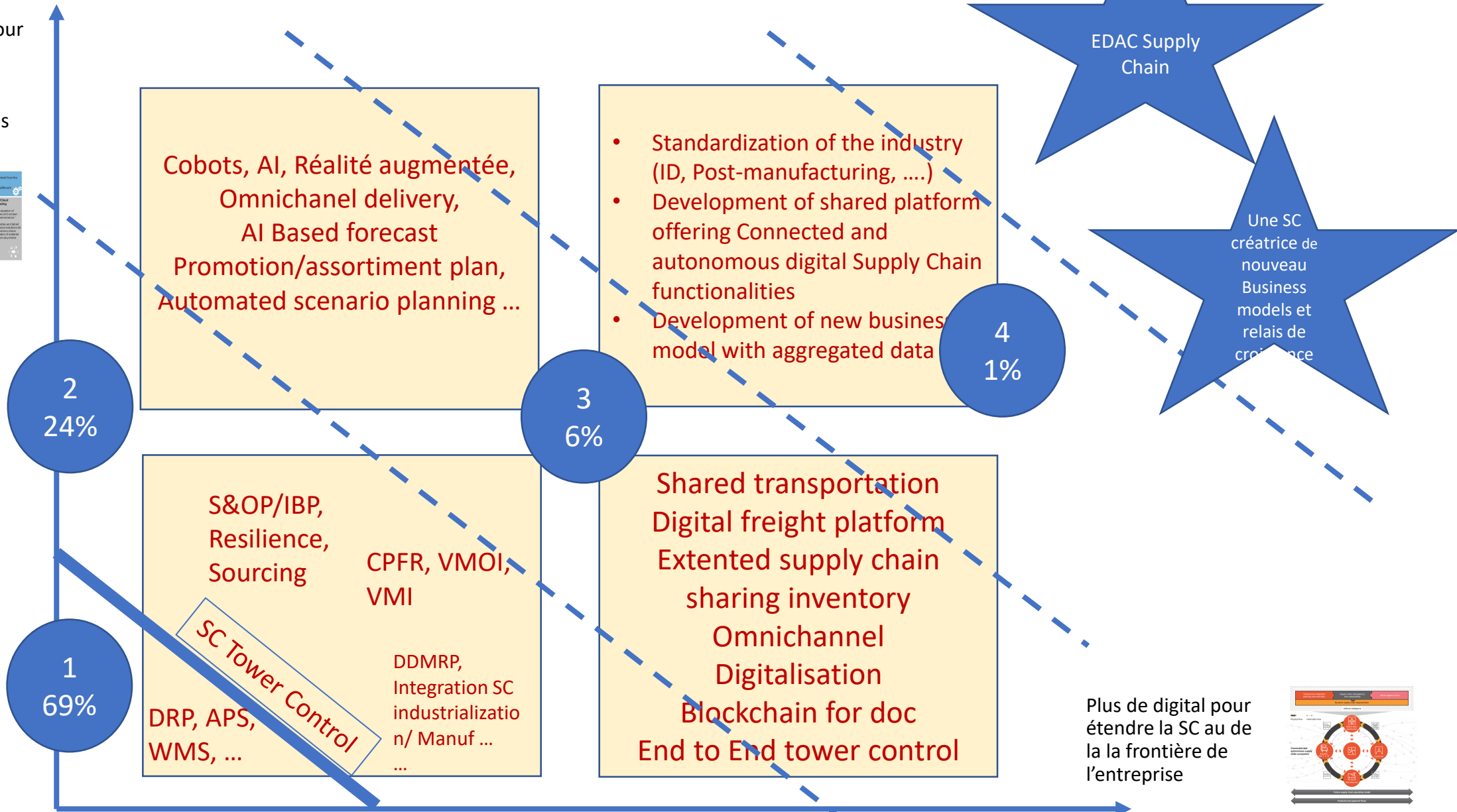
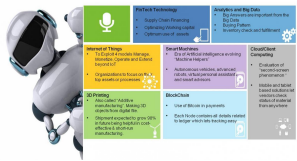
## Connecting Ecosystems



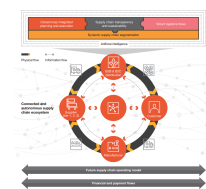
Source Cap Gemini



Plus de digital pour efficacité (plus rapide, agile et efficace, simplicité) dans l'entreprise

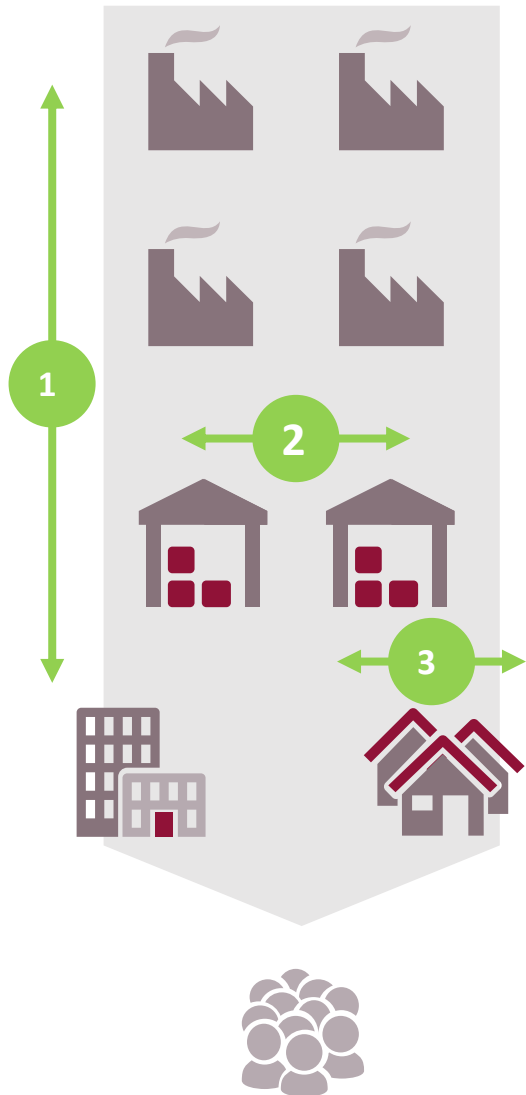


Plus de digital pour étendre la SC au de la la frontière de l'entreprise



Source Coheziv

More than 30 uses cases have been identified par some experts including, industrials, retailers, 3PL and consulting firms



There are 3 families of collaboration that would create breakthroughs in sustainable performance area:

- **Vertical collaboration:** between different actors of a value chain, rather to better synchronize
- **Horizontal collaboration:** between different competitors
- **Territorial collaboration:** between different actors in the same territory (mainly logistics)

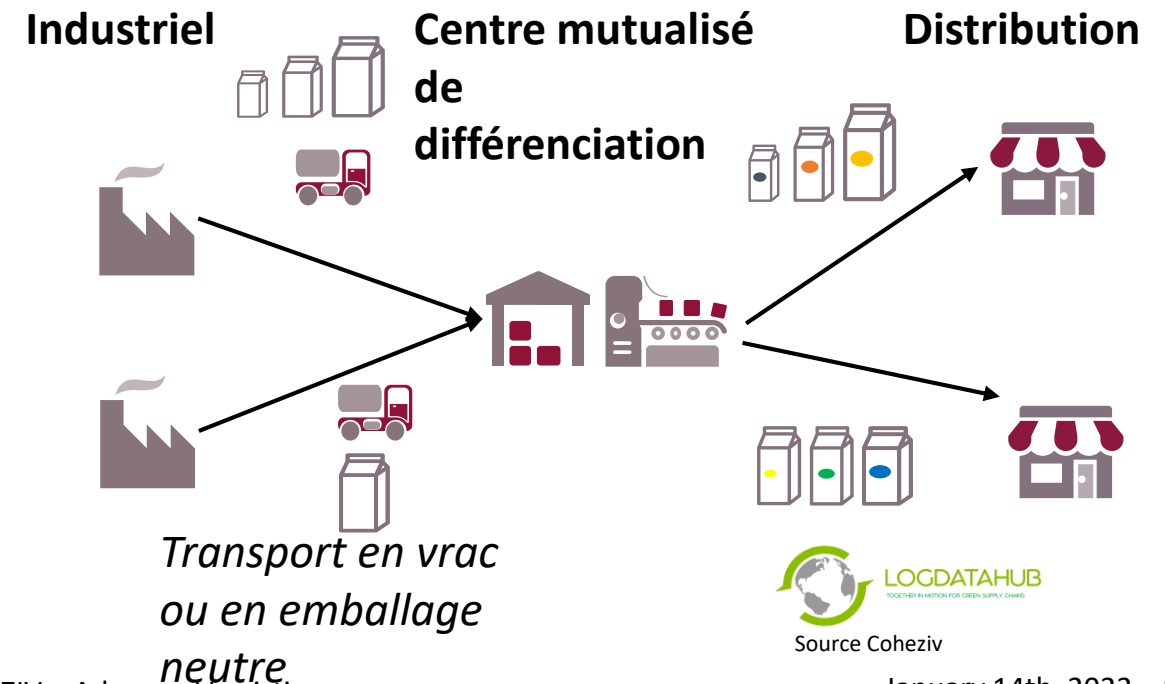
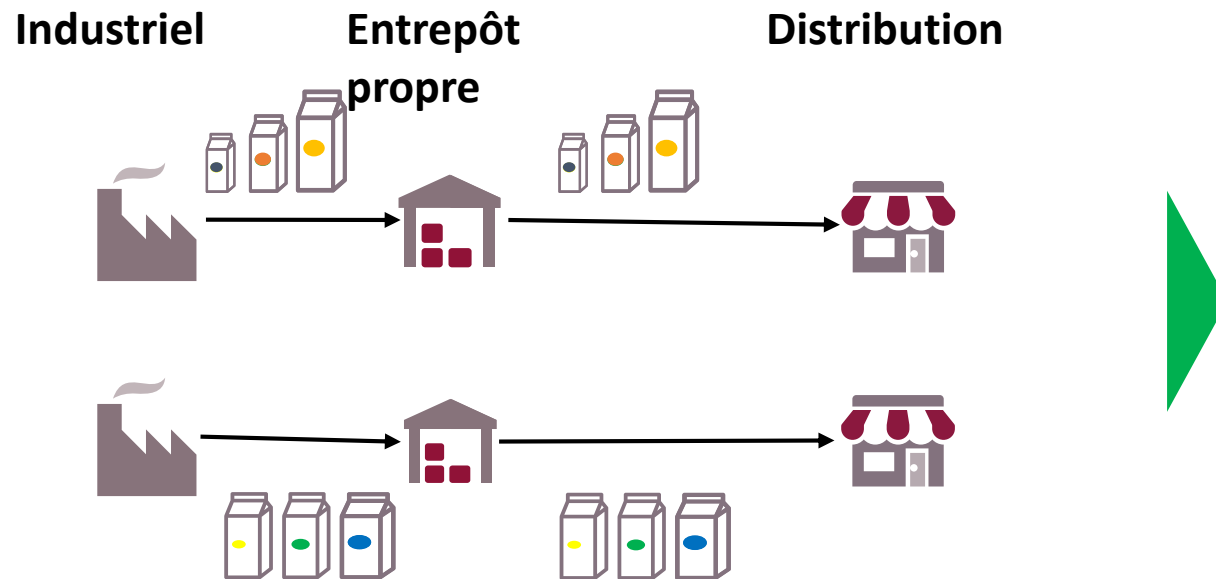
# H1 - Implementation of a multi-actor late differentiation center close to customers

## • Observation:

- Product differentiation is a major lever for optimizing the value chain in terms of inventory and transportation. However, the logistics chain that enables it is costly for a task that is not very complex

## • Stakes:

- Mutualization of differentiation costs
- Reduction of inventory and clearances
- Improved inventory availability
- Reduction of emissions and inbound transportation costs (fill rate)





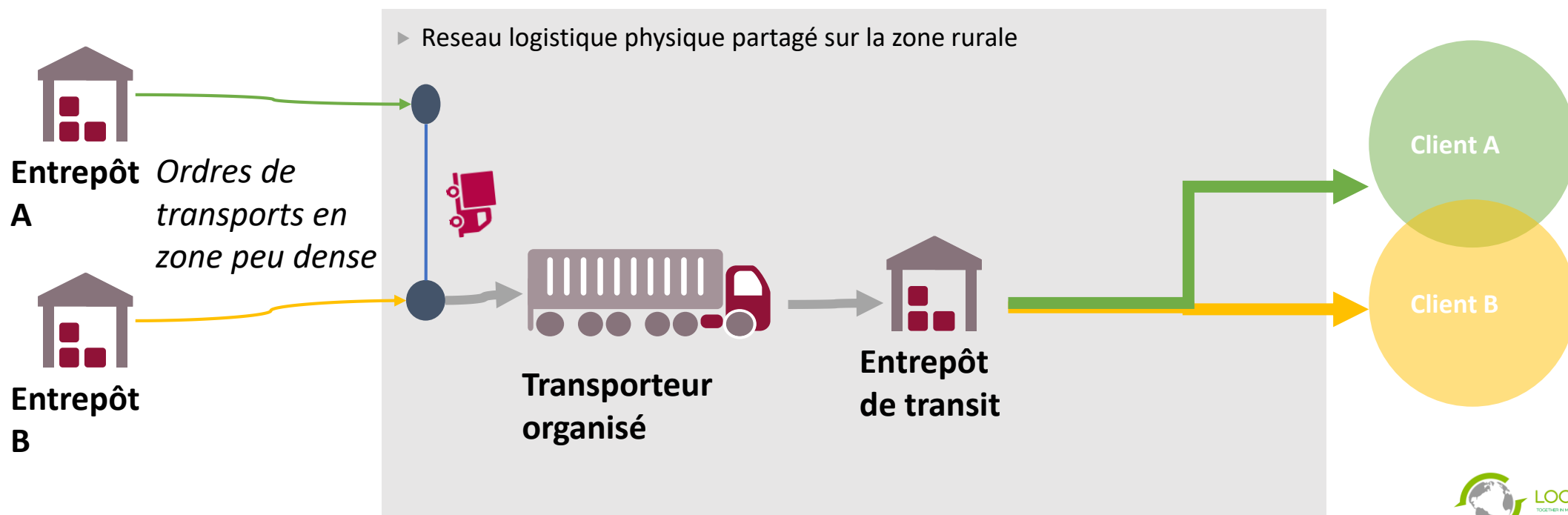
# T1 - Shared management of delivery flows in a shared physical network

## • Observation:

- Delivery to rural areas is complex because of the remoteness and isolation of certain territories, particularly mountainous, or far from major roads, leading to a de-optimization of the downstream distribution circuit

## • Stakes

- Simplification of the logistics network
- Reduction of delivery costs
- Gain new markets and development new services (local market, repair loop, return of product)





# Key take aways

- Supply Chain/Logistics function is a key function to achieve a enterprise sustainable performance
- Supply Chain/Logistics will succeed through :
  - The intensive usage of low carbon transpoations means
  - The deployment of EDAC supply Chain concepts requiring digital innovation and the extended supply chain.
- This will required big changes :
  - strong cooperation/coopetition between enterprises
  - Involvement of local territories (cities, ...) in order to define the frame of logistics operations
  - New organisational models to manage supply chain sharing more and more assets, ie « how to control and steer my supply chain without the control on the means ».
  - New leaders able to lead this transformation



Le courage, c'est d'agir et de se donner aux grandes causes sans savoir quelle récompense réserve à notre effort l'univers profond, ni s'il lui réserve une récompense.



Jean Jaurès

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спасибо 谢谢  
GRACIAS 谢谢

THANK YOU

ありがとうございました MERCI

DANKE धन्यवाद

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