



# Cluster for Logistics & LCL Conference Digitalising logistics & supply chains to reinforce resilience



C4L Spring Conference June 2022 Director Malik Zeniti Cluster for Logistics Luxembourg

ADDING VALUE IS THE KEY.



# **Digitalising Conference** Agenda and Speakers

Part I: 14:00 – 14:10

Welcome and announcement of Five-year Anniversary of the LCL by Prof. Benny Mantin, Director of the Luxembourg Centre for Logistics and Supply Chain Management (LCL) (including short Anniversary video)

14:10 – 14:20"Leveraging topographical data to reduce carbon emissions and fuel<br/>consumption in transport"<br/>by Mr Poulad Moradi Shahmansouri, PhD Candidate at the Luxembourg<br/>Centre for Logistics and Supply Chain Management

14:20 – 14:40"Leveraging the CAVE Lab for data-driven decision making in logistics and<br/>supply chain management"<br/>by Professor Pascal Wolff, Professor at the MIT Global SCALE Network's<br/>Ningbo China Institute for Supply Chain Innovation (NISCI) (online)







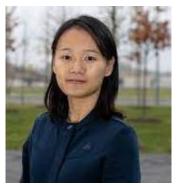




14:35 – 14:45 "Procurement in uncertain times: challenges, and is going digital an opportunity, or threat?" by Mr Marcel Dinu, Vice President, Vendor Management, Procurement and Supply Chain, SES Satellites, on their DP challenges

14:45 – 15:15"On platforms and digitalization of transportation procurement"<br/>by Mr Christian Wilhelm, CEO, and dialogue with LCL PhD<br/>candidate Ms. You Wu, on a project in collaboration with Shipsta







15:15 – 15:30Keynote speech on "the Ups and Downs of Digital<br/>Transformation of Supply Chains"<br/>by Ms. Maria Jesus Saenz, PhD, Executive Director, MIT SCM<br/>Masters Programs Director, MIT Digital Supply Chain Transformation<br/>(online)





5:30 – 16:00 Coffee break cluster for logistics



# **Digitalising Conference**

# Agenda and Speakers

Part II:

16:00 – 16:10Introduction and Presentation of the Survey Digital Transformation in<br/>Transport and Logistics<br/>by Mr Malik Zeniti and Mr Philippe Scholten

16:10 – 16:30The untapped value of innovation in Supply Chain 4.0<br/>by Mr Arnaud Lambert, Director at Luxembourg Digital Innovation Hub

16:30 – 17:00Practical Case: How digitalization can generate revenue using mobility<br/>devices: The LuxairCARGO case<br/>by Mr Francois Dolisy, Managing Director at 4i



Practical Case: New trends in InfoSec, Cybersecurity, and Supply Chain Attacks by Dr Carlo Harpes, Managing Director at itrust











- 17:00 17:25 Panel Discussion: The Ups and Downs of Digital Transformation of Supply Chains revisited moderated by Prof. Benny Mantin, Director of the LCL
- Panellists:Mr Arnaud Lambert, Director at Luxembourg Digital Innovation Hub<br/>Mr Francois Dolisy, Managing Director at 4i<br/>Mr Christian Wilhelm, CEO at Shipsta<br/>Dr Carlo Harpes, Managing Director at itrust











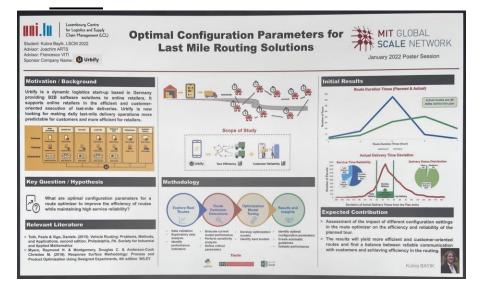
- 17:25 17:30 Closing Remarks by Prof. Benny Mantin, Director of the LCL
- 17:30 19:00 Networking Drink

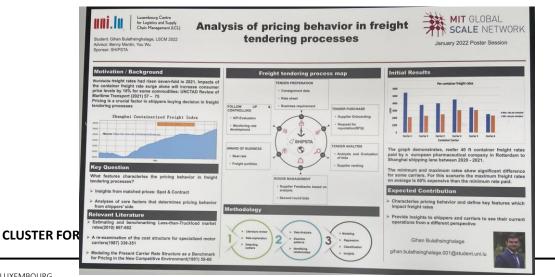




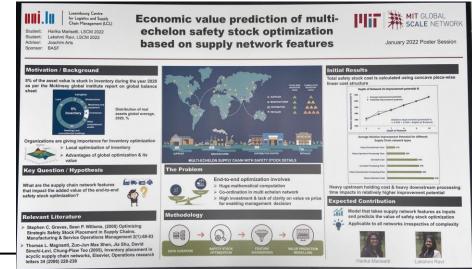
# **Digitalising Conference**

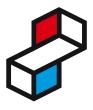
LCL Students Posters (selection)





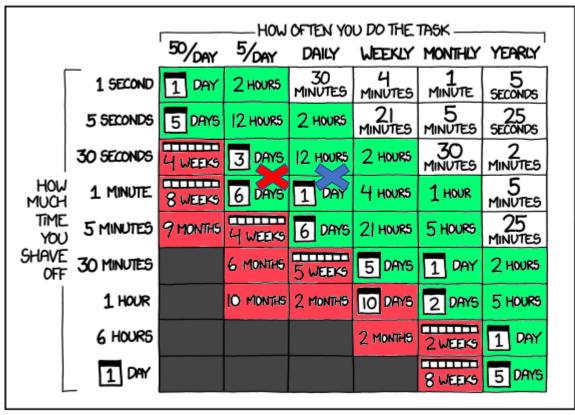






# Introduction: Why is digital transformation necessary to be more resilient?

HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE? (ACROSS FIVE YEARS)



### Automation (Time saving?)

How much time can you invest On improving a regular task to make it more efficient?

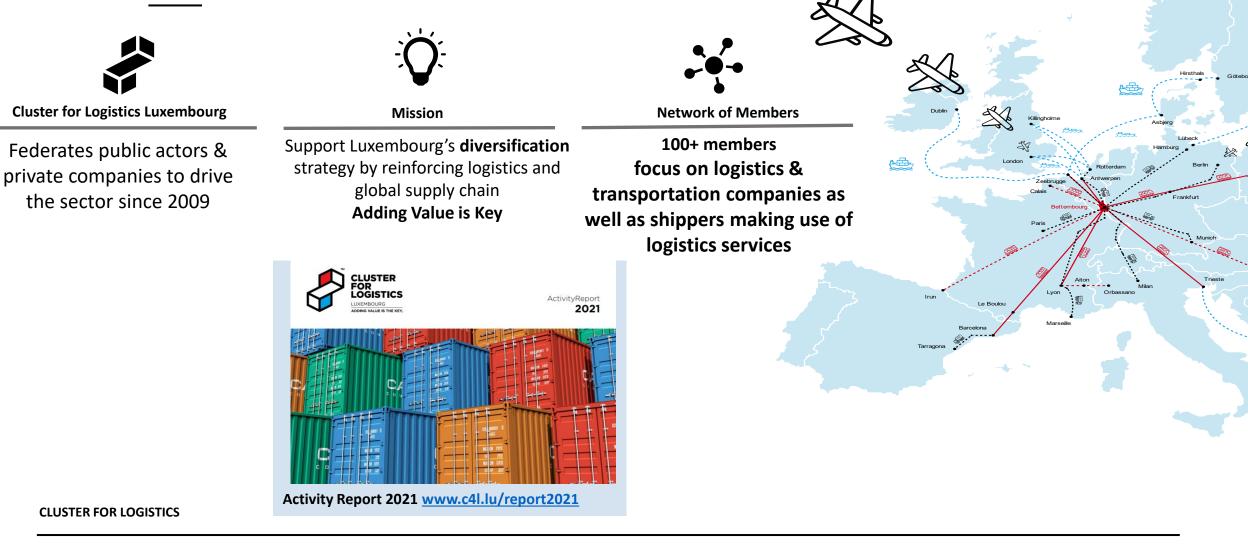
Example: If you perform a task daily and want to save one minute off, you can spend up to one day making improvements and in five years you'll break even.

If you perform this task five times a day, it's worth spending up to six days to improve it by 1 minute.



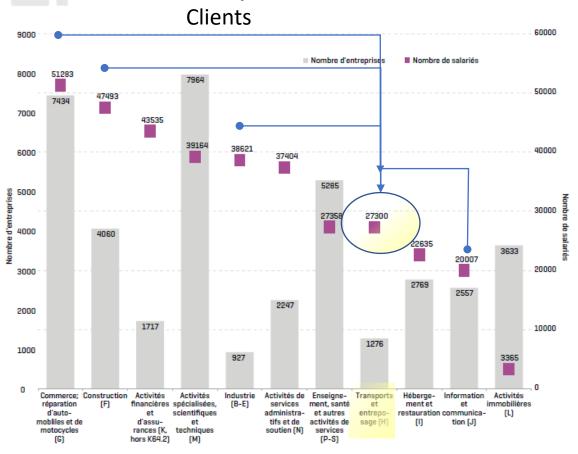


Luxembourg's logistics cluster since 2009



# Logistics in Luxembourg Facts & Figures on Workforce 2020

Quelles sont les branches de l'économie luxembourgeoise et combien de salariés occupent-elles ?

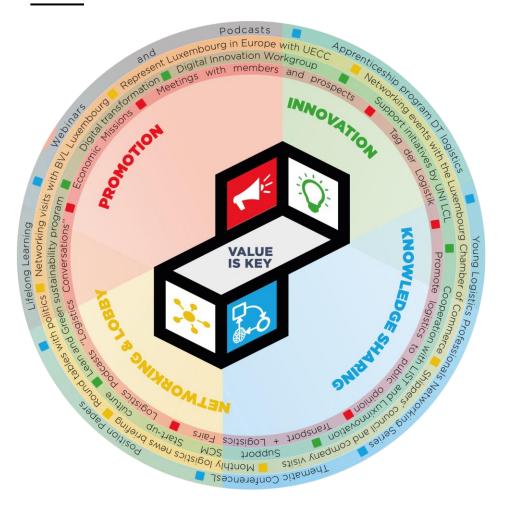


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Source : STATEC, Démographie des entreprises, 2018.



Key-Missions of the Cluster for Logistics Luxembourg



### 4 core pillars of the Cluster for Logistics Luxembourg:

### Innovation

- Startup Matchmaking Events
- Sustainable Logistics: Lean & Green Initiative
- Digitalising logistics & supply chains

### Knowledge Sharing

- Young Logistics Professionals Networking
- Annual Logistics Conferences
- DT Logistics

### Networking & Lobbying

- UECC Tasks and position papers
- Shippers Council
- Information of public opinion Position Papers

### Promotion

- Logistics News Briefing & Logistics Podcast
- Trade Fairs and Economic Missions
- Annual Supply Chain Day

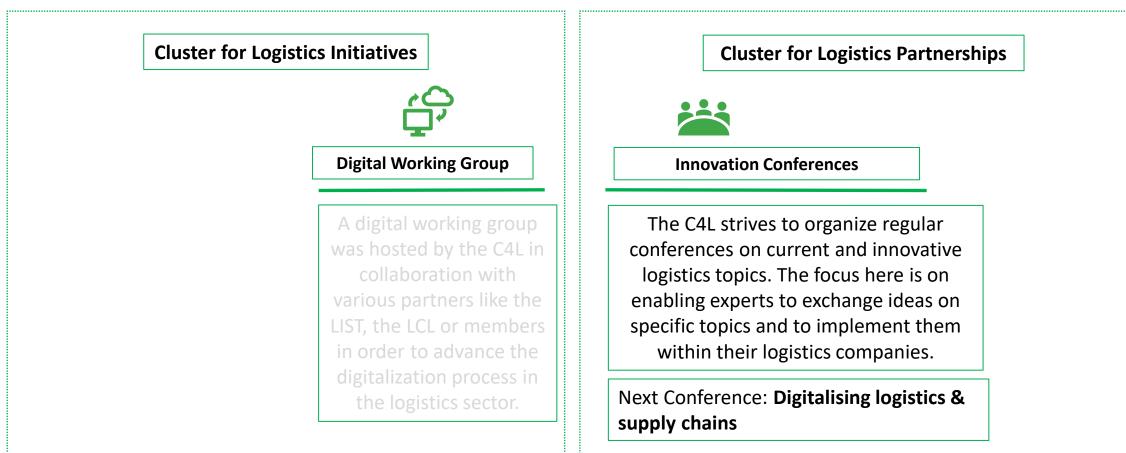


Mission: Innovation



#### INNOVATION

Digitalisation and ICT Link to House of Start-ups and LCI Link to LIST and University LCL Sustainable Logistics (Lean + Green) Collaborative Projects



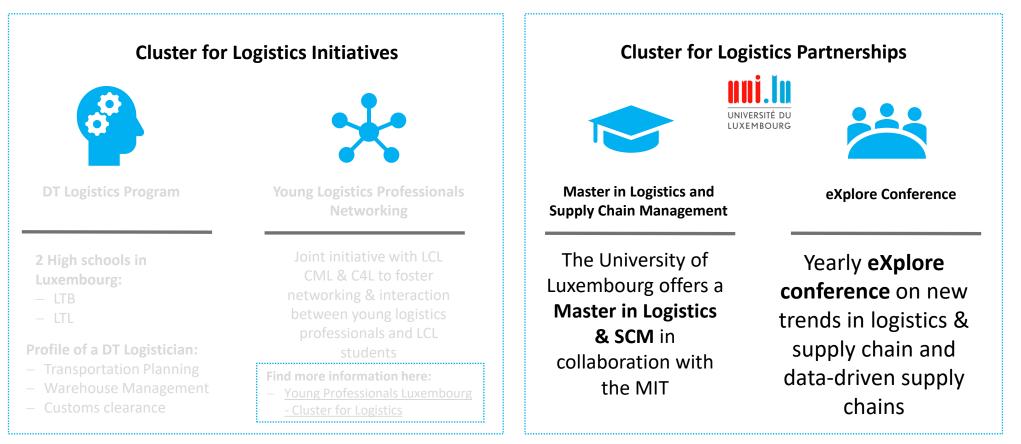


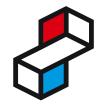
Mission: Knowledge Sharing

KNOWLEDGE SHARING

Training with House of Training Conferences with Themes Support Trade Facilitation - SWL Education and Training Logistics in Education





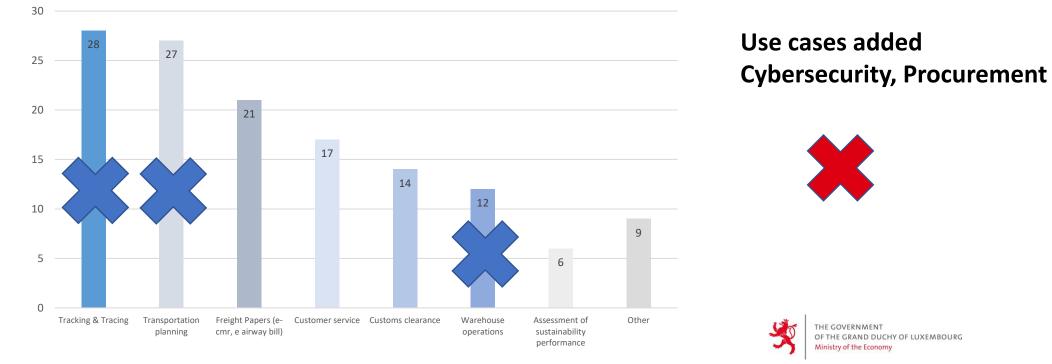


# Which subjects to address in our conference?

Survey performed in collaboration with Ministry of Economy: Details later

Which of the following do you consider as the <u>main use case(s) for the</u> <u>digital transformation</u> of your transport and logistics processes?

Learning from study

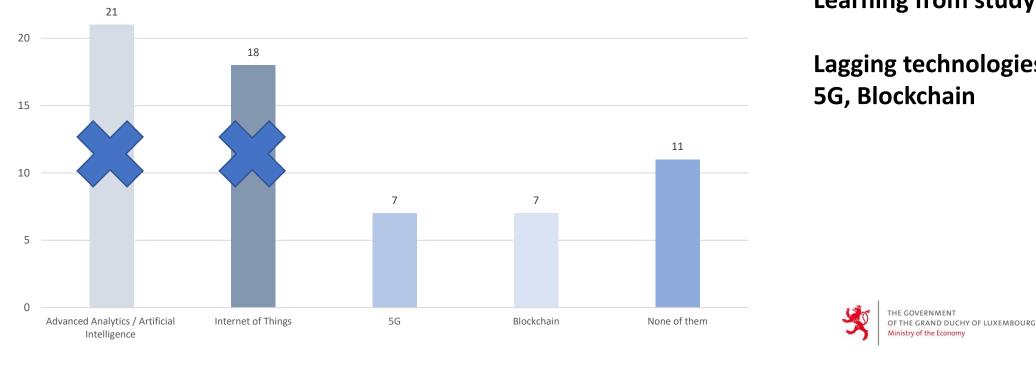




# Which technologies to address?

Survey performed in collaboration with Ministry of Economy: Details later

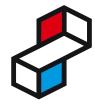
Have you investigated one of the following technologies in the context of the digital 25 transformation of your transport and logistics processes?



Learning from study:

Lagging technologies? 5G, Blockchain

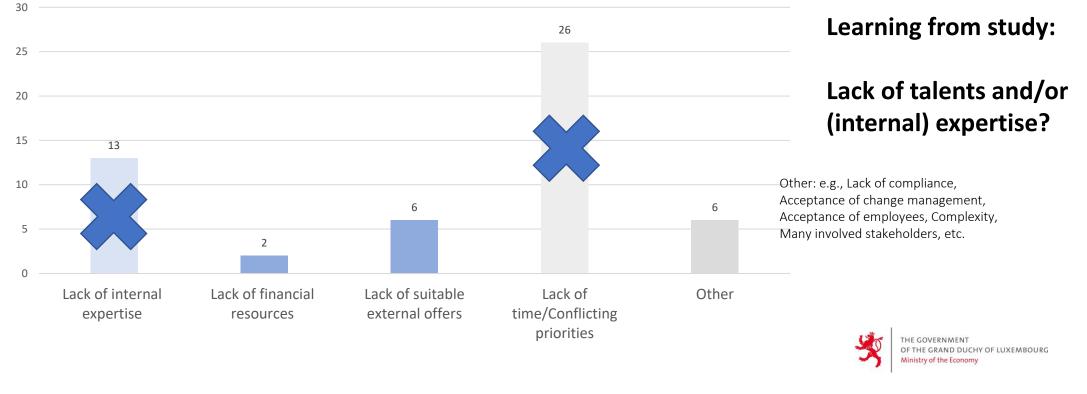
n = 39 **CLUSTER FOR LOGISTICS** Multiple answers were possible



# Barriers to digital transformation to address?

Survey performed in collaboration with Ministry of Economy: Details later

What is the main barrier for driving digital transformation processes in your company?







# **Status Logistics Hubs in Luxembourg**

Eurohub Centre Logistics Parc



Video Link

www.c4l.lu/eurohub

# **Status Logistics Hubs in Luxembourg**

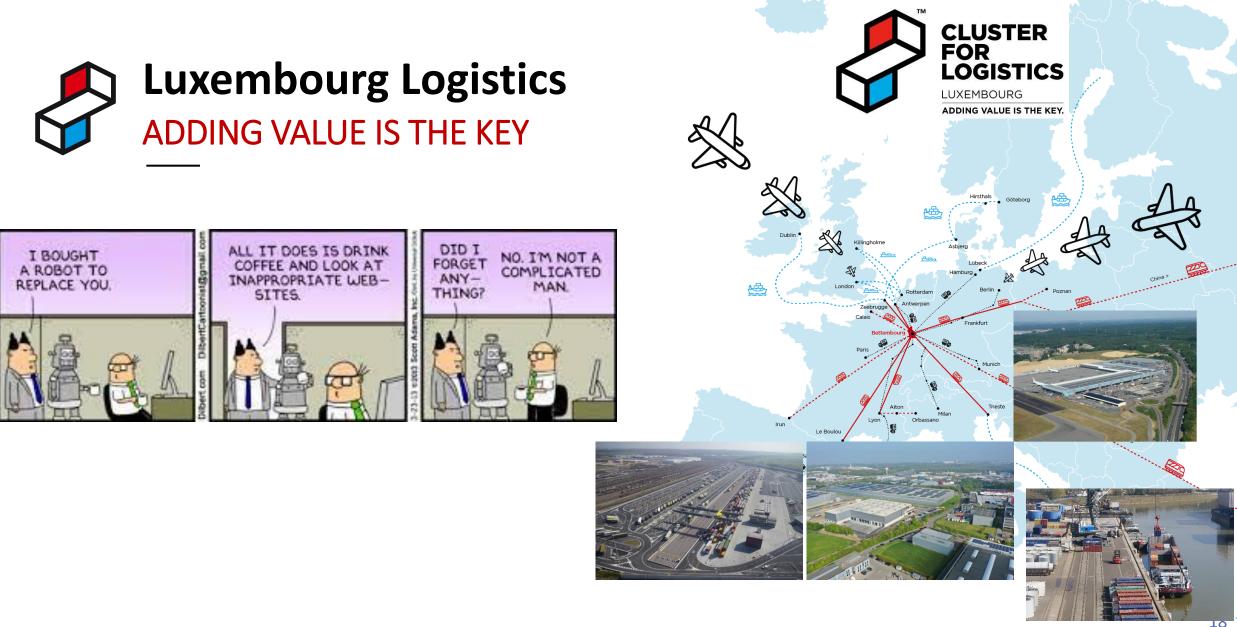
Eurohub Sud Bettembourg Dudelange Update June 2022



Video Link

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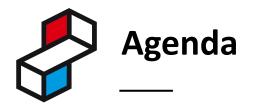
THE GOVERNMENT OF THE GRAND DUCHY OF LUXEMBOURG Ministry of the Economy

# C4L Member Survey on Digital Transformation in Transport and Logistics

C4L Spring Conference June 2022 Cluster for Logistics Luxembourg



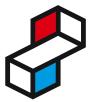
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# 1. Key data of the survey

Survey period | Company size | Company activities

### 🔗 🛛 Key data survey

Survey period: 01/02/2022 to 04/03/2022 Pool of participants: Members of the C4L (n=92) Participants: 39 Companies (n=39)

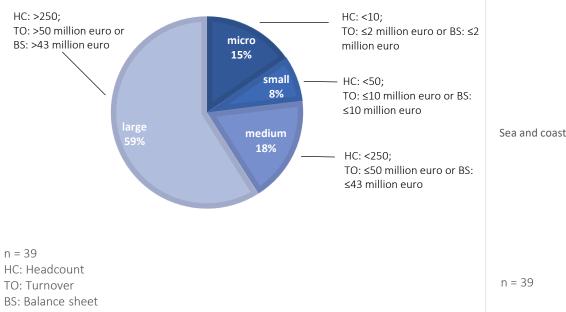
### Key survey topics

 Internal implementation of digitalization processes
 Handling and processing of data

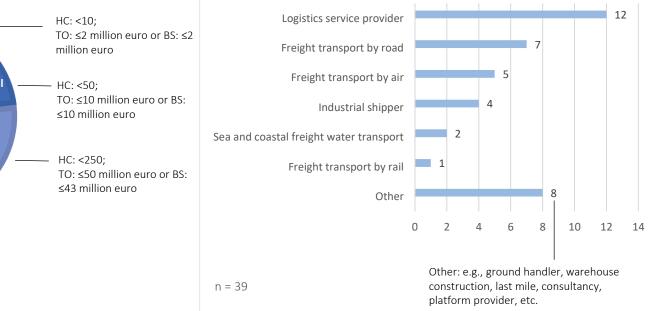
3. Excursus: Electronic delivery notes

#### Company size

Headcount and turnover or balance sheet



# Company activities NACE CODE







Which of the following do you consider as the main use case(s) for the digital transformation of your transport and logistics processes?

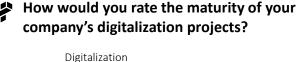


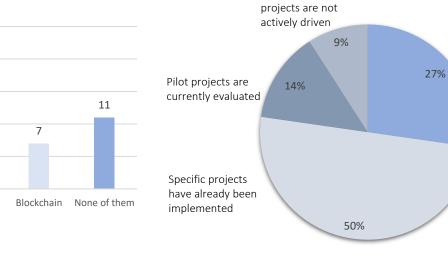
25 21 20 18 15 11 10 7 7 5 0 Advanced Internet of 5G Blockchain None of them Analytics / Things

Have you investigated one of the following technologies

in the context of the digital transformation of your

transport and logistics processes?





n = 39 Multiple answers were possible

Multiple answers were possible

Artificial

Intelligence

n = 39

n = 39 Only a single answer was possible



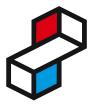
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Implementation of

projects is already

in planning



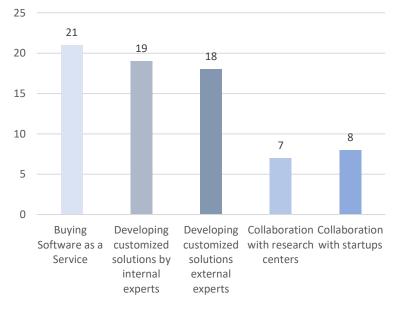
# 2. Internal implementation of digitalization processes

Development of Projects | Barriers to Innovation | Skill & Talent Challenges

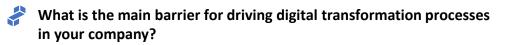
n = 39

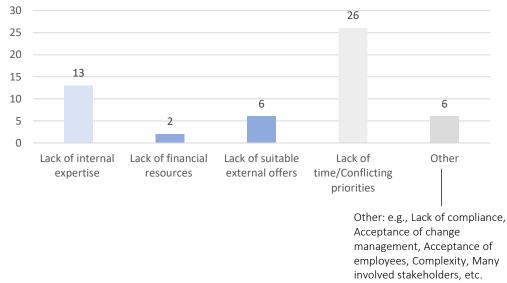
Multiple answers were possible

How does your company proceed to put digitalization projects into practice?



n = 39 Multiple answers were possible





What are in your view the main challenges with respect to skills/talents regarding the digital transformation of your company?

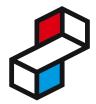


n = 39 Multiple answers were possible



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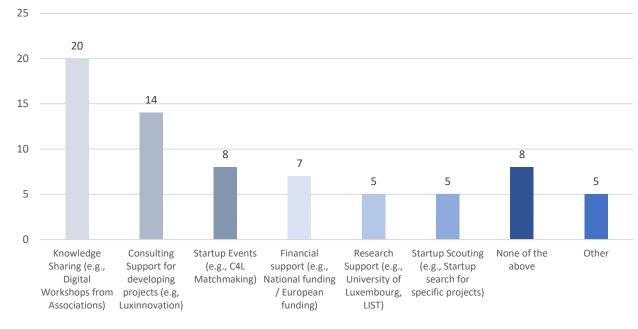
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# 2. Internal implementation of digitalization processes

Support Initiatives | Percentage of Participation | Percentage of Participation

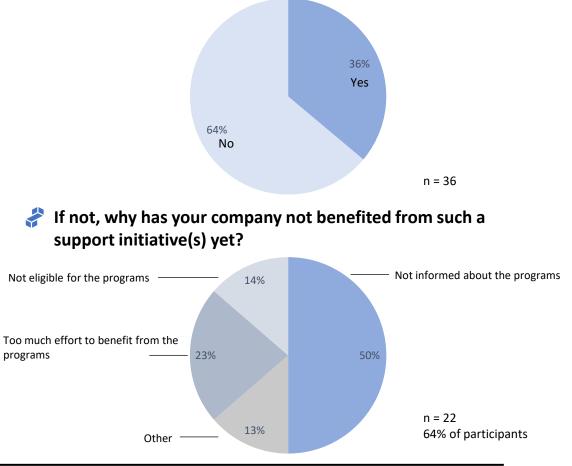
What kind of support would you need for moving forward in your digitalization efforts?



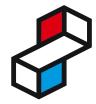
n = 39 Multiple answers were possible

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Has your company already benefited from support initiatives offered in Luxembourg?



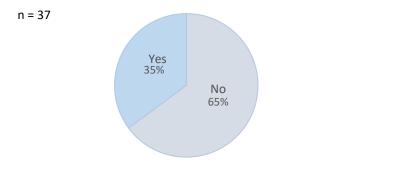




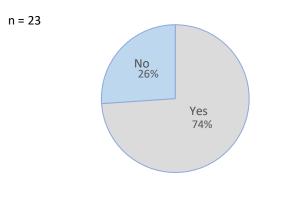
# 3. Handling and processing of data

Data Strategy | Sharing Data Key | Challenges of Data Collection

Does your company systematically collect and process data in order to evaluate and predict certain operational processes?



If so, has your company a defined data strategy to ensure the collection, use and governance of data?

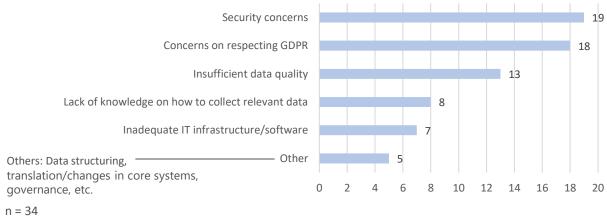


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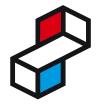
12 Q 9 10 5 Sharing data when Sharing data only Generally not Sharing data if it is Sharing data in Other there is added with key willing to share anonymized exchange for value for the stakeholders in my financial incentives data company company's value chain

### How do you rate your company's willingness to share data?

#### What do you see as the key challenges around data collection and processing?



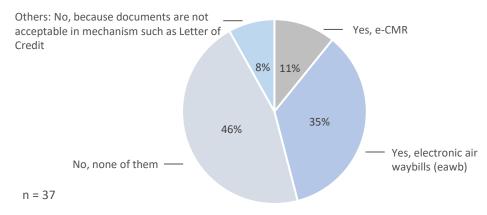
Multiple Answers were possible



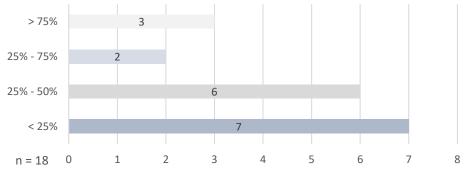
### 4. Excursus: Electronic delivery notes

Usage of Electronic delivery notes

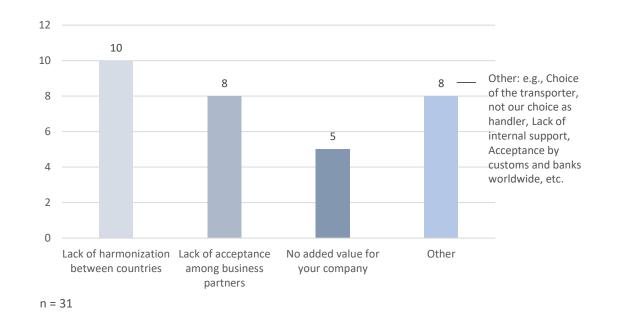
# Does your company already work regularly with electronic delivery notes?



If so, how large is the share of electronic paperless freight documents compared to conventional freight documents?

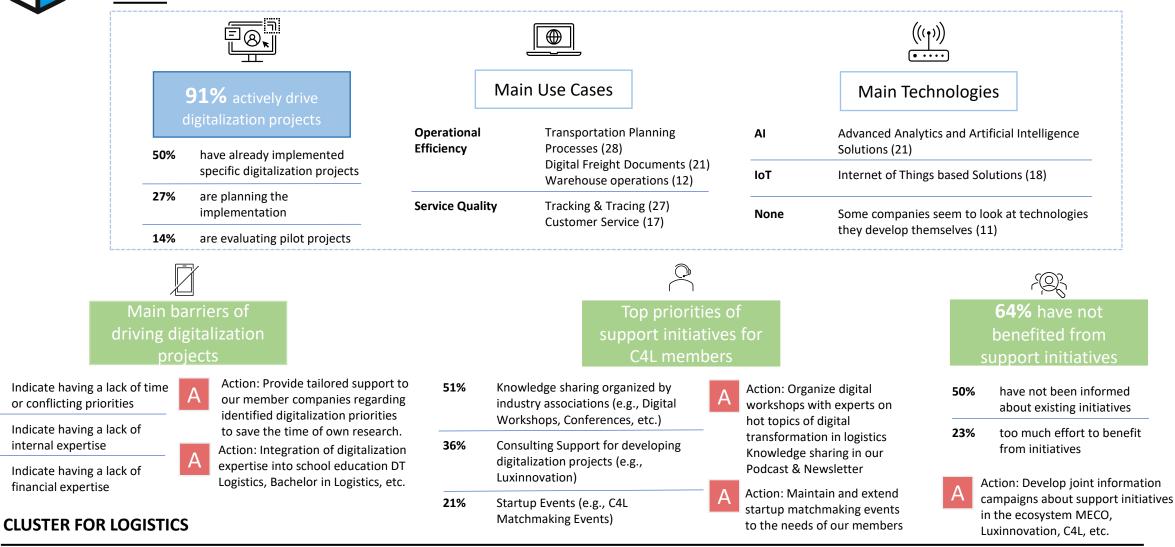


# If not, why are digital delivery notes not yet being used by your company?





### 5. Key Results & Actions from the Digital Transformation A = Action Survey



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66%

33%

1%









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