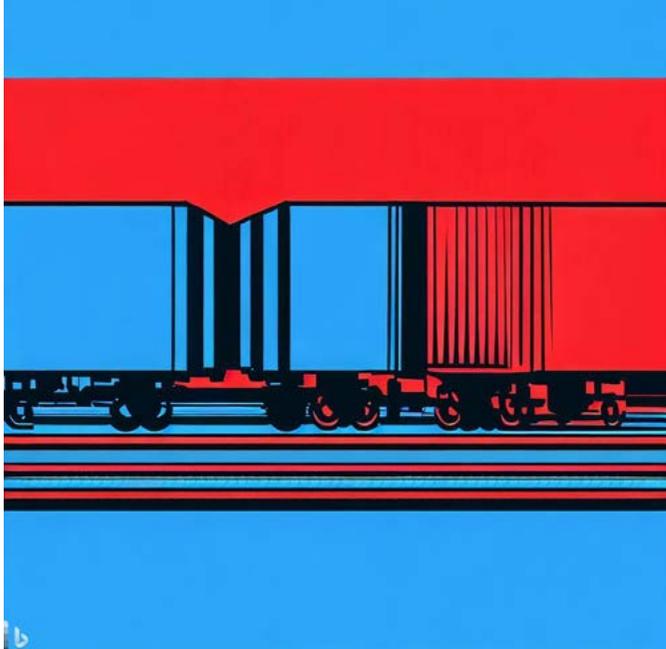


# CLUSTER FOR LOGISTICS

LUXEMBOURG

ADDING VALUE IS THE KEY.

ActivityReport  
**2022**





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# EXECUTIVE SUMMARY

A turbulent year lies behind us, as 2022 had its number of new challenges and opportunities. Russia's war of aggression on Ukraine, high uncertainties about China's political course, like the No-Covid policy impacting growth figures and the large impact of the energy crisis generating inflation, had a strong impact on competitiveness and creation of value in the sector. We are cautiously optimistic but see weaker developments ahead impacted by global developments.

disruptions in supply chains, highlighting the importance of resilience in supply chains.

Our customers and stakeholders, the industry and commerce, continued throughout the year, to face remarkable risks of disruptions. Those were impacted by strong imbalances in global supply chains and continuous pressure, at one time over 11% of global shipments were delayed in ports around the world.

We are confident as about 100 members continuously support

the sector are very welcome. The Cluster for Logistics Luxembourg (C4L) promoted a positive image of logistics and supply chain throughout the year. Working with the Union of European Chambers of Commerce and Industry for Transport (UECC), we prepare for the environmental and energy challenges ahead by following the European transport policies in Brussels for our sector.

The Cluster for Logistics will further address key innovation and digital transformation needs - based upon a 2022 survey performed with the Ministry of the Economy.

On the frontline, transport and courier companies continuously strive to meet warehouse and last mile requests driven by e-commerce and Luxembourg's dynamic and resilient economy. The free space in the dedicated national logistics hubs come to an end, highlighting the massive growth in the last decade.



The Logistics on Tour Bus took more than 30 high school students in February 2023 to visit companies at the Eurohub Sud, Eurohub Centre and the Port de Mertert.

Since the start of the recent polycrisis, only strong professional competences can limit

our association since its creation and new prospects joined in 2022. Their contributions to



A UECC visit took place in Innsbruck on 12<sup>th</sup> and 13<sup>th</sup> May 2022 visiting the Brenner tunnel project on the Scan-Med TEN-T corridor

## Outlook and roadmap:

The Lean & Green program and green logistics targets will be reviewed and all activities managed by our new program manager, to help you find ways to achieve better energy efficiencies and lower climate impact. Key events planned for 2023 include:

- ▶ Exclusive activities for our Premium and board members
- ▶ Promoting apprenticeship and the sector through a "Logistics on Tour" event early March, to increase visibility of the sector;
- ▶ A supply chain conference with the university LCL titled "Supply Chain Finance" in April

▶ An international UECC event in Luxembourg "Investments in sustainable transport infrastructure" taking place in Dudelange around the Eurohub South

▶ A participation at the largest three-annual "transport and logistics" fair appreciation in Munich from 9-12 of May with a Luxembourg Logistics Night and Apprenticeship Day

Many other activities like economic missions abroad and dedicated events with members, will allow to network and as such cluster a roadmap and milestones for the sector. Stay up to date with our activities and projects, by visiting the

Franz Fayot, Minister of the Economy, and Daniel Liebermann, Director Supply Chain 4.0, met with Carlo Thelen and Malik Zeniti on 23<sup>th</sup> September 2022 to exchange Exchange strategic views

Save the Dates page for 2023 ([www.clusterforlogistics.lu/events](http://www.clusterforlogistics.lu/events)), subscribe and read the monthly news briefing (page 29), and listen to our monthly podcast series ([www.clusterforlogistics.lu/podcast](http://www.clusterforlogistics.lu/podcast))

The Cluster for Logistics Luxembourg appreciates your support to the association's highlights in 2022 in this report.

We would like to offer our sincere thanks for your membership, contributions and successes.

We wish you a good reading of this report and success for the challenges ahead.

*Carlo THELEN,  
President of the Board  
Malik ZENITI, Director and  
Secretary of the Board*



# SUPPLY CHAIN AND LOGISTICS ARE WELCOME IN LUXEMBOURG

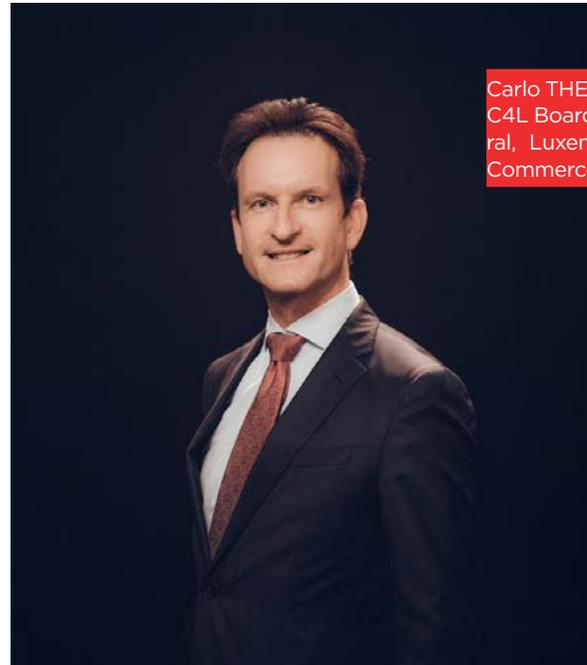
Private and public investments into logistics infrastructure added more than 250'000 sqm of warehouses since 2010. Ideally located in the heart of Europe less than 300 kilometres away from the world-leading maritime ports of Antwerp and Rotterdam. Its infrastructure and agile service providers offer access to service a market of 450 million consumers in less than 9 hours. It's an attractive spot for international value adding logistics activities for industry, retail and the growing European e-commerce sector.

Luxembourg is a top 10 international logistics location in Europe, strengthening the diversification of the economy with top freight villages and a focus on data-driven global supply chains.

## RESILIENCE AND FLEXIBILITY ESSENTIAL FOR LOGISTICS SECTOR

Its stable political and economic business climate supports Luxembourg as a recognized location for resilient supply chain activities. The end of the COVID-19 pandemic created high economic volatility and supply chain disruptions explained by low capacity and bottlenecks across all transport modes. Astonishing resilience, e-commerce and stock growths and restricted airfreight capacity pushed transport and logistics figures higher throughout 2022. Luxembourg ranked as the world's seventh most-connected country, in the Global Connectedness Index 2020 (GCI) by DHL. High requirements for flexibility to extreme demand for airfreight, road transportation and

rail freight was supported by industrial production across the globe. Continued investments in infrastructure documented the confidence of the economy, as customers realized ever more, how essential a reactive supply chain activity is.



Carlo THELEN, President of the C4L Board and Director General, Luxembourg Chamber of Commerce

## DRIVEN BY EU GREEN DEAL AND FIT-FOR-55

The multimodal transport continued its expansion by increasing destinations on the North range and East of Europe. The Fit-for-55 program announced in 2021 by the European Commission was reinforced by the energy crunch after the Ukraine invasion by Russia. Increased energy prices and lack of drivers provide good long-term attractiveness of

Luxembourg if the countries across Europe invest enough to reinforce the capacities of the major traffic corridors. The Dudelange freight village is now regularly connected to Belgium, China, France, Germany, Italy, Poland, Spain, Scandinavia and Turkey.

The logistics zone Eurohub Center in Contern also expanded the number of players offering airfreight handling and contract logistics for healthcare, robots, retail, e-commerce and secured high value airfreight close to the airport. The high maritime container rates maintained a continued interest for companies serving Europe.

The C4L is a network of logistics companies and professionals with over 100 companies. The University of Luxembourg offers an academic Master in Logistics and Supply Chain Management to serve the talent needs for companies like Amazon, Ferrero or Vodafone.



**A Logistics Briefing and the monthly “Logistics conversations” series podcast should explain and promote the professional image and create visibility.**

**DATA DRIVEN INNOVATION FOR SUPPLY CHAIN MANAGEMENT**

Luxinnovation, the innovation agency, offered specific Fit 4 Resilience, Fit 4 Digital, Fit 4 Sustainability support programs to help companies make the switch. In particular, the programs help the needs

of small and medium-sized enterprises (SMEs).

The strategy published in 2019 by the Ministry of the Economy is committed to data innovation and sustainable logistics. Attracting international conferences like the May 2022 European Freight Leaders

adapt their supply chain strategies.

A further reduction of CO<sub>2</sub> emissions to ambitiously fight climate change are addressed by the Lean and Green program in its 9<sup>th</sup> year. Clean fuels for heavy-duty transportation are increasingly expected for the sector to decarbonize, if coordinated incentives across Europe support the energy transition. Addressing shippers needs and the economic reality is key.

Cargolux comes out of this polycrisis reinforced allowing the airport to confirm its 5th position in Europe with over 1 million tons of airfreight. The Port of Mertert continued its traditional and trimodal freight offer reinforced by closer collaboration.

Luxembourg continues to focus on value adding activities, to serve a broad range of companies established in Luxembourg with competent talents, coming from different countries and cultures. The apprenticeship offers for logistics technicians (DT) and

warehousing (DAP) should encourage companies to train new talents and to build a multi-lingual workforce to serve a pan-European market.

**NETWORKING AND INNOVATION OPPORTUNITIES OFFERED TO SUPPLY CHAIN MANAGEMENT**

The Cluster federates institutional and private actors around different competences.

Bringing together representatives from industry, logistics companies, shippers, research, academia strengthens the international European logistics and e-commerce hub. European transport policy insights are provided through the UECC and Luxembourg BVL Chapter.

**Digitization and environmental transitions are in the roadmap for 2030.**

# MISSION & SURVEY

The Cluster for Logistics Luxembourg (C4L) was founded in 2009 with the aim of diversifying Luxembourg's finance-heavy economy and developing the central and business-friendly location of Luxembourg as a logistics hub in the heart of Europe. After more than 10 years of existence, the thematic fields and core focuses of the Cluster for Logistics have been continuously adapted to the needs of the sector and today the 4 central pillars of action of the C4L can be divided into innovation, promotion, networking and knowledge sharing:

## INNOVATION:

The C4L supports its members through offers in the field of digitalization and sustainability in order to drive them to innovate and to develop competitive and unique logistics capabilities.

## PROMOTION:

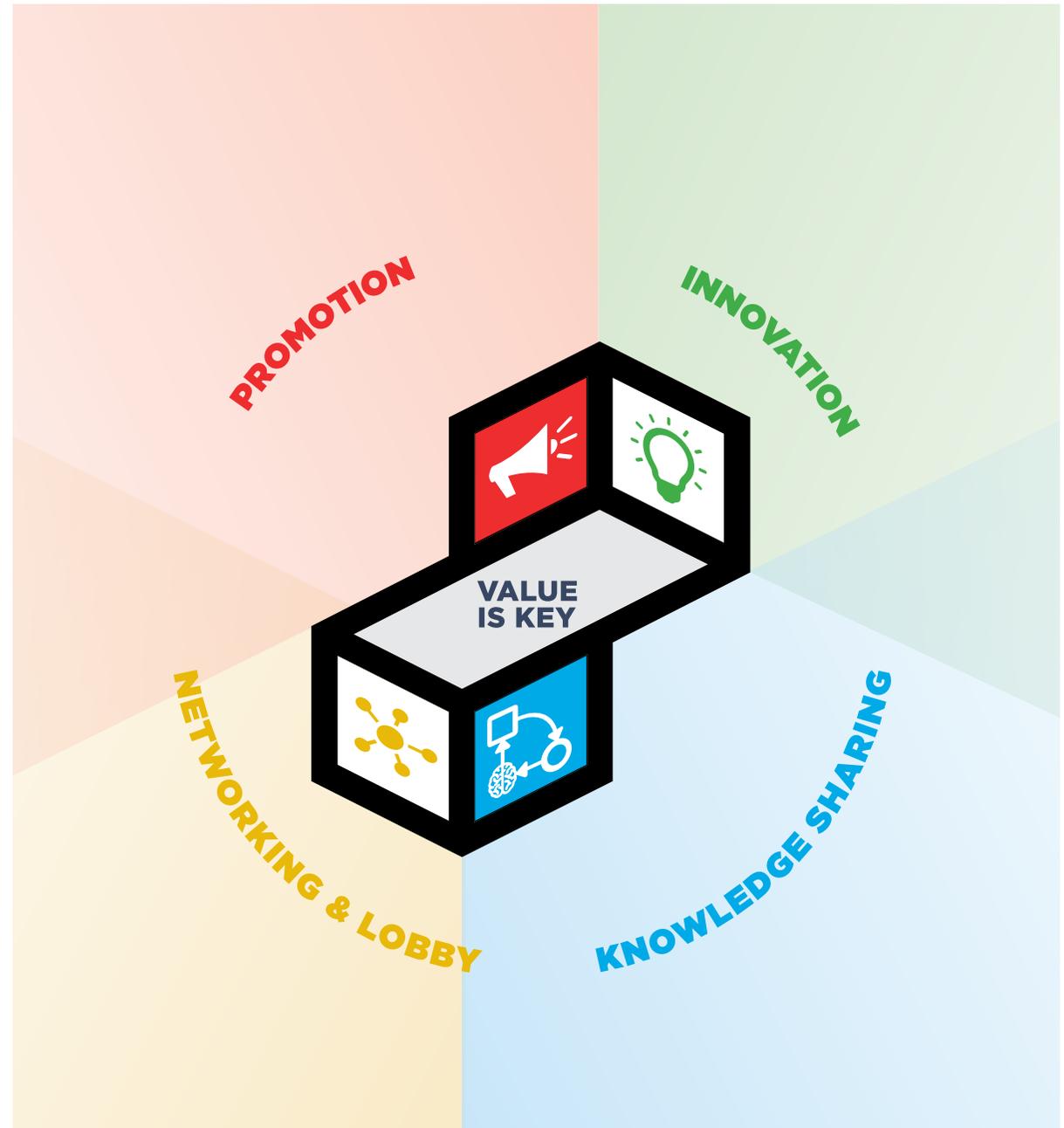
The C4L represents the transport and logistics sector as well as its members on a national and international level, and thus strengthens Luxembourg's position as a competitive logistics hub in Europe.

## NETWORKING:

The C4L promotes exchange among the various stakeholders from the logistics sector of the Greater Region across the boundaries of individual transport modes.

## KNOWLEDGE SHARING:

The C4L serves its members as a neutral coordination, information and communication platform. Further, the C4L ensures the apprenticeship of young logistics students in the framework of the DT logistics program.



# MISSION & BUSINESSPLAN

The Cluster for Logistics Luxembourg (C4L) as a logistics network is involved with administrations, logistics operators and shippers to drive forward priorities that are necessary for the development of Luxembourg as a competitive logistics hub in Europe. For this purpose, the C4L has identified the 4 central thematic areas of innovation, promotion, knowledge sharing and networking as the main priorities for driving future activities.

After preceding years were marked by the COVID-19 pandemic, 2022 added yet another crisis, since Russia invaded Ukraine in February 2022.

The invasion concluded in huge repercussions on global logistics, such as: food supply shortage and rising food prices, a rise in oil and gas prices, congested ports, container shortage, and surcharges.

Looking ahead, the current challenges of the logistics industry such as increased energy costs, high inflation, labour shortages and changing sustainability regulations will centrally influence the activities of C4L in the short and medium term. In this context, the Cluster for Logistics seeks to find fast solutions that can relieve the burden on its members. In the longer term, the Cluster will focus on the topics of sustainability and digitalization in logistics. In the field of sustainable logistics, we are aware of the importance of the Lean & Green program to help transport and logistics companies prepare for the sectoral climate targets and to quantify and, ideally, reduce their emissions in advance. In addition, our members will face enormous challenges in terms of digitization in order to optimize processes and maintain their competitiveness.

Therefore, in the future we will deal with digitalization models along the 4 transport modes we represent, to advise our members in the digital transition in the best possible way. Finally, while many industries, including logistics, are still suffering from labour shortages, the C4L plans to launch a new educational program in 2023 with the House of Training.

## Cluster for Logistics Luxembourg 2023 Teaser

Besides yearly events, such as conferences, awards and other events hosted by the C4L, certain special intentions are worthwhile mentioning:

### > PROMOTION: C4L hosts the UECC conference in spring 2023

The C4L has the pleasure to welcome the UECC members in Luxembourg in spring 2023 with the theme investments in sustainable transport infrastructures.

### > KNOWLEDGE SHARING: New educational program in autumn 2023

The logistics industry is marked

by labour shortages and is facing adaptability challenges of a digital and energy transition in the coming years. To meet the demand for new skills and increased knowledge in the sector it is crucial to invest in educating talents with an adequate toolkit. Against this background, the C4L launches a new program called “**Responsible en Logistique**” together with the **House of Training** and the “Institut Supérieur du Transport Et de la Logistique Internationale” (**ISTELI**)



### > INNOVATION: Continuation of digitalization and sustainability focus

#### ▶ Digitalization for process optimization & competitiveness

The C4L continues putting a focus on digitalization in 2023. The starting point for the digitalization activities in 2023 are the results of the digitalization survey “**C4L Member Survey on Digital Transformation in**

**Transport and Logistics**” which was organized in collaboration with the Ministry of the Economy. A summary and the most important conclusions of the survey can be found on page 10.



#### ▶ Digitalization & Sustainability

The **EU Green Deal** with its new directives, the **EU-Taxonomy** and the **Corporate Sustainability Reporting Directive (CSRD)** leads to a change in managing and reporting on sustainability. Against this background, a Lean & Green event focused on **digitalization** as reporting support will be organized.

#### ▶ Support green solutions for transport and logistics while remaining technologically open

A selection of solutions currently supported by the Cluster are Ecoliners, hydrogen and electrification. Pilot projects and financial support play important roles to enable a transition and to gain experience with new technologies.

# DIGITAL TRANSFORMATION IN TRANSPORT & LOGISTICS SURVEY

In 2022, the Cluster for Logistics Luxembourg (C4L), in cooperation with the Ministry of the Economy, conducted an anonymous survey to understand the needs of transport and logistics companies in their digital transformation processes. The aim of the survey was to gain insights about the challenges and requirements of the companies to provide them with appropriate support programs in their digital transformation process.

The Cluster for Logistics currently counts more than 100 members, and from these 39 companies participated. The survey was conducted over a period of 5 weeks, starting on February 1, 2022 and ending on March 4, 2022.

## THE SURVEY WAS STRUCTURED INTO THREE PARTS:

- > **PART 1:** Internal implementation of digitalization processes
- > **PART 2:** Handling and processing of data
- > **PART 3:** Excursus: Electronic delivery notes

## RESULTS AND CONCLUSIONS FROM THE SURVEY

Results show that the main use case(s) for the digital transformation of transport and logistics processes are Tracking & Tracing and Transport Planning, followed by Digital Freight Documents.

**In terms of main technologies,** 21 companies have investigated the use of Advanced Analytics and Artificial Intelligence Solutions, and 18 companies have investigated Internet of Things based



### MAIN TECHNOLOGIES

- AI** Advanced Analytics and Artificial Intelligence Solutions (21)
- IoT** Internet of Things based Solutions (18)
- None** Some companies seem to look at technologies they develop themselves (11)



### MAIN USE CASES

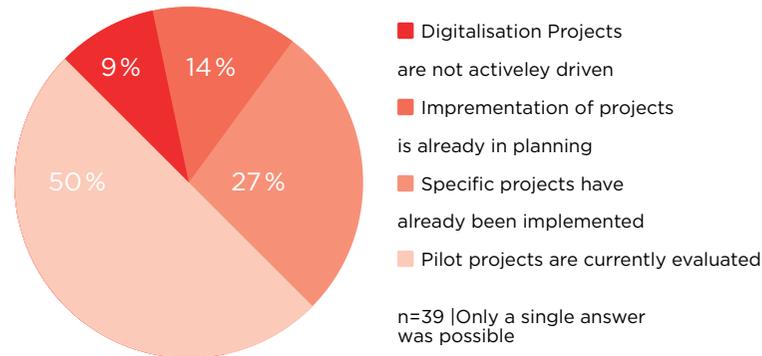
- Operational Efficiency:**
  - Transportation Planning Processes (28)
  - Digital Freight Documents (21)
  - Warehouse operations (12)
- Service Quality:**
  - Tracking & Tracing (27)
  - Customer Service (17)

While 91% of companies indeed actively drive digital transformation, the survey also inquired the **main barriers** for driving such processes. The survey results show that most companies (26) indicate that a lack of time/conflicting priorities are the main barrier, followed by a lack of internal expertise indicated by 13 companies.

Actions by the C4L: Against this background, the C4L will focus on providing tailored support to our members regarding identified digitalization priorities to save the time of doing their own research. Moreover, the C4L focuses on integrating digitalization expertise into school education: DT Logistique, Formation Responsable en Logistique etc.



## HOW WOULD YOU RATE THE MATURITY OF YOUR COMPANY'S DIGITALIZATION PROJECTS?



Solutions. Besides these other companies seem to look at technologies which they develop themselves.

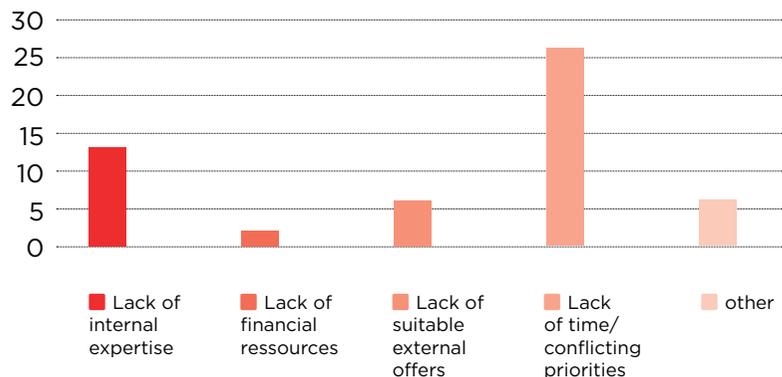
Overall, the results of the survey show that **91% of participating companies actively drive digitalization projects.**



THE GOVERNEMENT OF THE GRAND DUCHY OF LUXEMBOURG  
Ministry of the Economy and Foreign Trade

## WHAT'S THE MAIN BARRIER FOR DRIVING DIGITAL TRANSFORMATION PROCESSES IN YOUR COMPANY ?

n=39 | Multiple answers were possible



## TOP PRIORITIES OF SUPPORT INITIATIVES FOR C4L MEMBERS:

Moreover, the survey investigated what kind of support the companies would need to move forward in their digitalization efforts. The statistics show that knowledge sharing organized by industry associations (e.g., Digital Workshops, Conferences, etc.) and consulting support for developing digitalization projects (e.g., Luxinnovation) are the most prominent answers among participants, followed by start-up events (e.g., C4L Matchmaking Events).

Actions by the C4L: The C4L will organize digital workshops with experts on hot topics of digital transformation in logistics to react to the requests of the study participants. Furthermore, the Logistics Conversations podcast and newsletter will increasingly tackle topics around digital transformation. Besides this the C4L makes sure to maintain and expand Start-up Matchmaking events to the needs of our members.

64% have not benefited from support initiatives according to the survey results. Zooming in on the reason why companies

have not benefited from support initiatives, 50% of companies say they have not been informed about existing initiatives. Followed by 23% of companies indicating that it is too much effort to benefit from the programs.

Actions by the C4L: To counteract a lack of information, the C4L plans to develop joint information campaigns about support initiatives in the ecosystem by promoting initiatives by the Ministry of the Economy, Luxinnovation etc.

Besides insights on the implementation and use of digi-

talization processes, the survey inquired the handling and processing of data and electronic delivery notes. In terms of handling and processing of data, the survey results show that security and GDPR concerns are the key challenges that participating companies see in the collection and processing of data. Furthermore, the excursus on electronic delivery notes finds that 46% of responding companies work with some sort of electronic delivery note. However, companies stated a lack of harmonization between countries

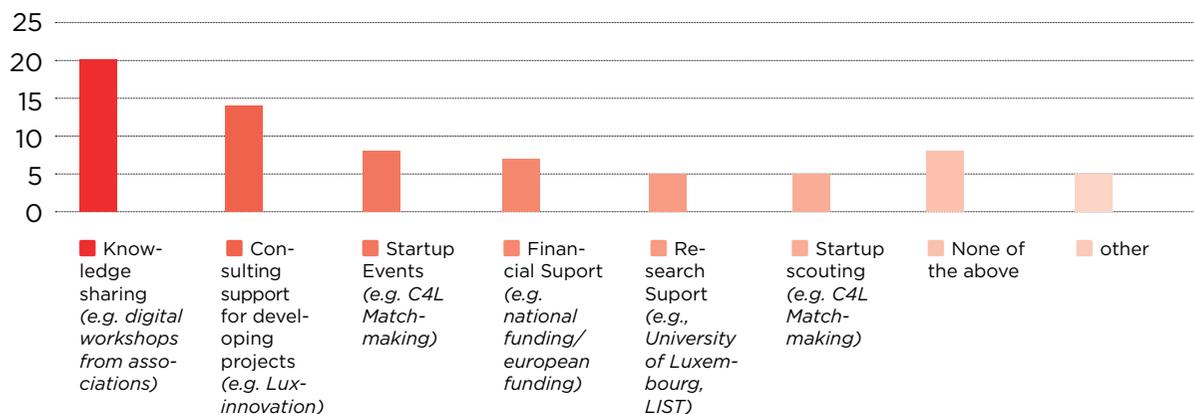
and a lack of acceptance among business partners as the main reasons for not using electronic delivery notes yet.

The C4L will continue to support the implementation of electronic delivery notes in the future.

For a more detailed overview of the statistics, download the survey results on :



## WHAT KIND OF SUPPORT WOULD YOU NEED FOR MOVING FORWARD IN YOUR DIGITALISATION EFFORTS?



n=39 | Multiple answers were possible

# THE EUROPEAN TRANSPORT POLICY AND UECC ACTIVITIES 2022

The European policy on transport is influenced by the European commissions Green Deal launched by Ursula von der Leyen in 2019. Climate change and environmental degradation are an existential threat to Europe and the world. To overcome these challenges, the European Green Deal should transform the EU into a modern, resource-efficient and competitive economy, ensuring:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- no person and no place left behind

One third of the €1.8 trillion investments from the Next-Generation EU Recovery Plan, and the EU's seven-year budget will finance the European Green Deal.

The European Commission has adopted a set of proposals to make the EU's climate, energy, transport and taxation policies fit for reducing net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels.

The C4L has executed a mandate from the Union of Chambers of Commerce (UECC) to lead the working group and establish public relations in Brussels from Luxembourg since 2021.

In 2022, the C4L director Malik Zeniti organized monthly calls of a working group to exchange news and answer in common to "have your say" proposals of the EU. A working group (WG) was created to address the last mile subject of "City or urban logistics" led by Mrs Andrea Faast from Vienna.

The first annual get together took place in Innsbruck on 12<sup>th</sup> and 13<sup>th</sup> May 2022 visiting the Brenner tunnel project on the Scan-Med TEN-T corridor to address the complicated situation of the traffic between the South of Germany, Tyrol in Austria and Italy with a specific resolution.

The second annual meeting of the UECC took place in Stuttgart in September to support the necessary expansion in length of locks on the river Neckar to transport goods in a most sustainable way by river navigation to the Rhine, as the investments were under threat. Numerous European requests for feed-back for new legal initiatives and directives of the European Commission and Parliament were addressed.

As outlook for 2023, the first meeting of the UECC in



The annual meeting in Innsbruck on 12<sup>th</sup> and 13<sup>th</sup> May 2022 addressed the complicated situation of the traffic between the South of Germany, Tyrol in Austria and Italy with a specific resolution



April 2023 in Luxembourg-Dudelange will address the importance of investments by all member states into sustainable transport infrastructure and the WG Citylogistics will organise a few webinars and a conference on City Logistics in September 2023 in Vienna.

All recent resolution and a bi-monthly UECC news briefing is available for subscription on the Webpage [www.uecc.org](http://www.uecc.org)

#### WHAT IS THE UECC

#### ASSOCIATION?

▶ In 1949, around 50 chambers of industry and commerce (IHKs) from 5 countries from the catchment area of the Rhine, Rhone, Danube and the Alps came together under the umbrella of the UECC.

▶ The UECC is committed to a transport policy adapted to the needs of the economy. The common goal in Europe: A liberal market organization in transport, economically oriented cross-border expansion of the transport infrastructure with free access to all modes of transport for efficient and successful business.

▶ Another objective is an equal treatment of modes of transport in legal and fiscal terms.

▶ With several hundred thousand companies from trade, industry and services, the UECC is a platform to inspire dialogue between its members for an exchange and open opinion-forming process for transport-related issues of companies.



The UECC delegation visited the 55-kilometre-long Brenner tunnel project

# DT LOGISTIQUE



Claude Meisch, Minister of Education, Children and Youth

4<sup>th</sup> October 2022

## DT LOGISTICS BEST STUDENTS AWARDS

As a sign of appreciation and to boost the image of logistics in the public, the Cluster for Logistics (C4L) supports the best students of the “Dipôme de Technicien (DT) en Logistique” every year. On October 4<sup>th</sup> 2022, **Claude Meisch, Minister of Education, Children and Youth** and **Carlo Thelen, Director General of the Chamber of Commerce and president of the C4L,**

honored two students for their outstanding achievements in their education.

In the school year 2021/2022, **Chiara Dewans**, a student at the Lycée Technique de Bonnevoie and employed by Arthur Welter Transports, and **Marvin Charpentier**, a student at the Lycée Technique de Lallange and employed by Sales-Lentz, made a name for themselves with outstanding achievements. The Cluster for Logistics Luxembourg honored the special talent

and commitment of these two students by presenting the **DT Logistics Awards 2022.**

## COOPERATION LEADS TO A SUCCESS STORY

Sixty graduates now have a “DT en Logistique”. **“This training course is a success story,”** says Minister Meisch at the best students awards. *“The training benefits from the commitment of motivated teachers and experts and the cooperation between the schools and the private sector guarantees that the training meets the expectations of the companies”,* according to



Chiara Dewans and Marvin Charpentier received the Best Student award



Benny Martin from the LCL

Minister Meisch. This approach enables positive results, as around 90 percent of those

who complete the training programme find a job straight away.

The **shortage of skilled workers** is also impacting transport and logistics companies, and the need for qualified employees will continue to increase in the coming years as baby boomers retire, according to Malik Zeniti, director of the C4L. The technician diploma can help companies find and retain these employees in the country. Not only truck drivers, but also dispatchers and warehouse managers are



the logistics training and generally hire motivated trainees straight away.

The graduate training for technicians in logistics was introduced in 2015 with the help of the Cluster for Logistics Luxembourg and prepares young students for jobs such as the transport planification.

The “DT en Logistique” is offered by two schools at the moment: Lycée Technique de Bonnevoie, Lycée Technique de Lallange. Currently, it takes four school years to finish with a degree “DT en Logistique”. The first year is purely at school and students are sup-

posed to find a company for the next three years. The last three years contain 3 days at the company and 2 days at school per week.

Logistics and industrial companies need qualified and motivated young employees in order to fulfill the diverse tasks.

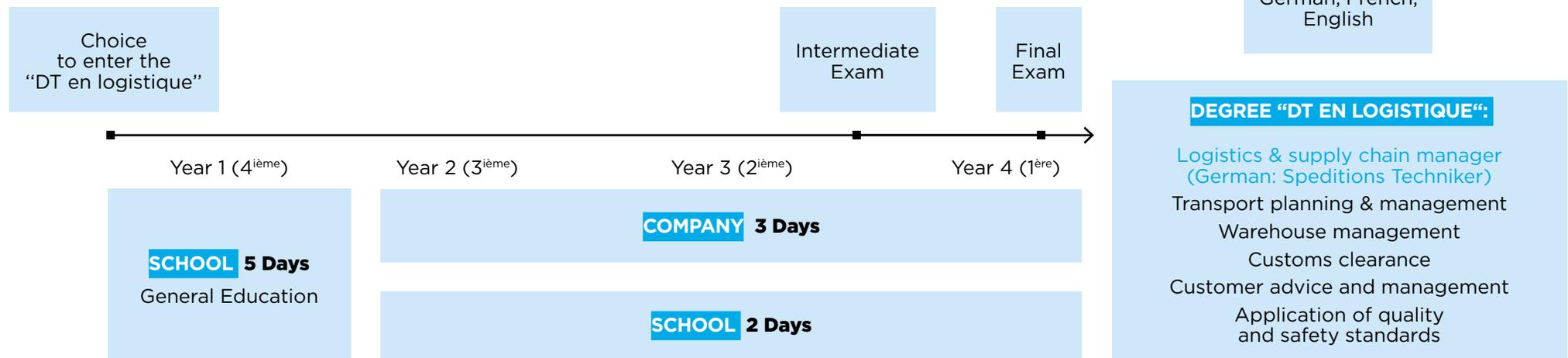
*“The successful training of new talents in the field of logistics over the last few years sets the course for a positive development of the logistics industry in Luxembourg”* welcomes Philippe Scholten, responsible for the “DT en Logistique” programme at the

Cluster for Logistics Luxembourg in 2022. The area of responsibility of the trained qualified technicians includes, among other things, the planning and organization of transport, the manage-

ment of warehouses and the implementation of customs clearance. Our logistics talents find jobs at over 700 companies such as freight forwarders, logistics companies, but also in industry or trade.

in short supply throughout Europe. Luxembourg’s companies therefore appreciate

### OVERVIEW OF THE “DT EN LOGISTIQUE” STRUCTURE



**SCHOOLS**

**Lycée Technique de Bonnevoie**

**Lycée Technique de Lallange**

**STUDY PROGRAMME**

**Duration: 4 Years**

**Apprenticeship duration: 3 Years**

**STUDENT PROFILE**

**Age: 15-17 years**

**Multilingual:**  
German, French, English

**DEGREE “DT EN LOGISTIQUE”:**

**Logistics & supply chain manager (German: Speditions Techniker)**

- Transport planning & management
- Warehouse management
- Customs clearance
- Customer advice and management
- Application of quality and safety standards

# LEAN & GREEN

9<sup>th</sup> November 2022

## 6<sup>TH</sup> L&G AWARDS 2022

The Cluster for Logistics Luxembourg hosted the 6<sup>th</sup> edition of the Lean & Green Awards at the Luxembourg Chamber of Commerce. The Lean & Green Awards 2022 were awarded in presence of Mr Claude Turmes, Minister of Energy and Spatial Planning. At the Lean & Green Awards 2022, three additional companies were awarded for their efforts and achievements regarding the reduction of CO<sub>2</sub> emissions generated from transport and logistics activities.



Lean & Green Awards recipients

Claude Turmes, Minister of Energy and Spatial planning



## TWO NEW CANDIDATES AND A 2 STAR WINNER

The Lean & Green programme welcomes a new 2 Star winner. **LuxairCARGO** managed to reduce its CO<sub>2</sub> consumption by more than 30 % compared to 2012. The company was a forerunner in the programme and received the label in 2015 and the first star award in 2018. Among

other measures, the company replaced their freezer units with more efficient models and installed modern lighting in the Cargo center.

Furthermore, two companies have decided to join the Lean & Green initiative in Luxembourg in 2022. **Karp-Kneip** and **Eurogaume** have set up audited and eligible action plans that provide both

companies the framework to reduce their CO<sub>2</sub> emissions from transport and logistics activities by at least 20% within the coming 5 years.

For the commitment of joining the programme and developing individual action plans to allow reducing greenhouse gas emissions, both companies were awarded the Lean & Green Label.



The president of the Cluster for Logistics, Carlo Thelen, says: *“Especially, the energy-intensive transport and logistics sector, where fuel prices have doubled and can account for more than 50 % of the operating costs, has been hit hard by geopolitical developments in eastern Europe. Thus, these developments have shown how important it is for companies to understand their carbon footprint and drive sustainable transformation to reduce dependence on fossil fuels.”*

With rising energy prices and increasing sustainability requirements, companies are bound to reduce their CO<sub>2</sub> output. Minister Claude Turmes was glad to meet Lean & Green participants since such projects enhance energy efficiency. Interministerial groups for logistics in cooperation with Luxinnovation and the House of Startups are currently working on studies and projects for a better energy grid and charging infrastructure. A recent investment call



of 5 million euros allowed for 700 additional charging stations and a new call will be launched in January 2023. The ministry is working on a CO<sub>2</sub> tax exemption regime on HVO (Hydrotreated Vegetable Oil) for 2023. Plans also include a support regime for zero carbon trucks. A first hydrogen fuel station is being built in Luxembourg but the infrastructure in the Greater Region must also be strengthened.

The Lean & Green programme is a sustainable logistics initiative which is offered by the Cluster for Logistics Luxembourg, in collaboration with the Ministry of Mobility and Public Works, since 2014 in Luxembourg. Over the past 8 years, the Cluster for Logistics Luxembourg has already supported 16 companies in their sustainability efforts. The Lean & Green initiative envisions to induce companies to implement a set of self-defined

optimization measures in order to reduce their CO<sub>2</sub> emissions linked to transportation and logistics activities by at least 20%. By taking a closer look at their logistics activities and rethinking their current business processes, the companies participating in the programme are able to identify potential for savings and optimization and, thus, to make the best use of their resources by saving costs (Lean) and reducing CO<sub>2</sub> emissions (Green).

# NETWORKING & LOBBY

12<sup>th</sup> -13<sup>th</sup> May 2022

## European Freightleaders conference

F&L's European Freight Leaders network of senior business leaders met in Luxembourg - intercontinental logistics hub in the heart of the blue banana, and one of the world's largest steel producers. Participants were based across the European continent, in often global roles with global companies.

This meeting supported by the C4L and CFL mm enabled an exchange of ideas and possible solutions to today's challenges in an open and confidential environment with a wide community of logistics & supply chain leaders, experts, practitioners, thought-leaders and innovators.



## YLMP Events

The young logistics professionals series is a networking initiative of the Cluster for Logistics Luxembourg in collaboration with the Luxembourg Maritime Cluster and the Luxembourg Center for Logistics and Supply Chain Management. It organizes events at regular intervals where young logistics and maritime professionals can exchange ideas with experts from the industry on various topics. The aim of the initiative is to bring together young logistics and maritime professionals from both private companies and academic world to facilitate their networking



## The events in 2022:

**03.02.2022** - Webinar with DHL Luxembourg

**19.04.2022** - YLMP Conference with CleanOcean

**19.07.2022** - YLMP Summer Drink

**13.12.2022** - YLMP Christmas Drink

13<sup>th</sup> June 2022

**“Digitalising logistics and supply chains to reinforce resilience” conference**

The annual Spring conference “Digitalising logistics and supply chains to reinforce resilience” of the Cluster for Logistics in cooperation with the LCL took a good look at innovation and what to take into consideration when planning new projects. Experts, practitioners, thought-leaders and innovators exchanged their views and a roundtable provided valuable insights.

More pictures and presentations:

[www.c4l.lu/digital2022](http://www.c4l.lu/digital2022)



# NETWORKING & LOBBY

16<sup>th</sup> November 2022

## “Digital Freight Papers and Transformation of Supply Chains: Quo vadis?”

The Cluster for Logistics Luxembourg (C4L) in cooperation with Deloitte Luxembourg organized its Autumn conference dedicated to digitalization of the processes and digitization of documents in logistics. In order to enhance the efficiency and resilience of the sector, a digital transformation is necessary more than ever and supported by different members and expert consultants. More pictures and presentations [www.c4l.lu/quovadis2022](http://www.c4l.lu/quovadis2022)



# INNOVATION

1<sup>st</sup> April 2022

## Start-ups Matchmaking Spring Conference 2022

For the seventh time, the Cluster for Logistics and CorpPearls presented Start-ups to potential partners or investors. Five Start-ups received the opportunity to pitch their innovative services to 30 guests on Friday 1<sup>st</sup> April 2022 at the Luxembourg School of Business. The event was organized in partnership with the Ministry of Mobility and Public Works at the Luxembourg School of Business (LSB).

Startup presentations

[www.c4l.lu/startups0422](http://www.c4l.lu/startups0422)



26<sup>th</sup> October 2022

## New member Gulliver during Vodafone's Arch Summit at LuxExpo



# INNOVATION

21<sup>st</sup> September 2022

## Autumn Start-up Conference 2022

For the eighth time, the Cluster for Logistics and CorpPearls gave the opportunity to international Start-ups to meet potential partners, investors or prospects. Five Start-ups pitched their innovative services to over 30 guests on Wednesday 21<sup>st</sup> September at the House of Startups. The event was organized in partnership with the Ministry of Mobility and Public Works and Startups.lu

Startup presentations

[www.c4l.lu/startups0922](http://www.c4l.lu/startups0922)

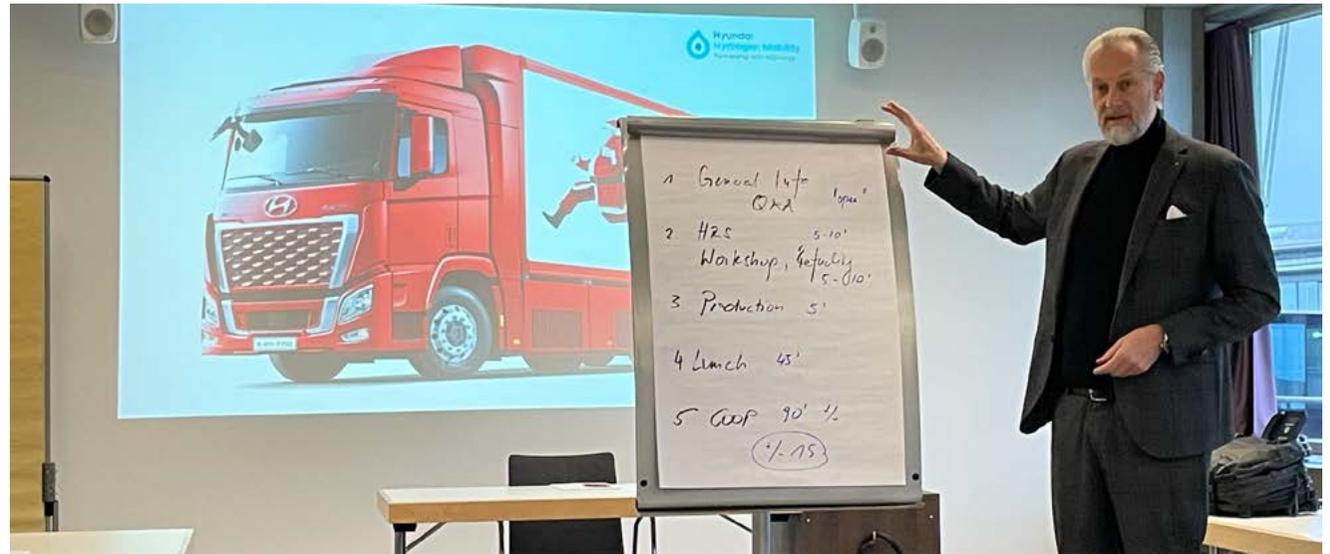


7<sup>th</sup> and 8<sup>th</sup> December 2022 in Rothenburg (CH)

### Visit of a Hyundai Hydrogen Mobility Project Refueling Station and Hydrogen Trucks in Switzerland

The Cluster invited its members to take a look at a 1<sup>st</sup> successful Hydrogen project in Europe, in cooperation with Hyundai Hydrogen Mobility. The event included a visit of the COOP organization to obtain information on how the Hydrogen project in Switzerland.

A fleet of 47 trucks Switzerland has accumulated more than 5 million km in two years. Starting in 2020, the project imported the XCIENT Fuel Cell heavy-duty trucks for 23 Swiss companies, which are using them for logistics, distribution and supermarket fulfillment for distribution giants COOP and Migros.



# PROMOTION

April 5<sup>th</sup> to 7<sup>th</sup> 2022

## Fruit Logistica Trade Fair

The Cluster for Logistics members Grosbusch, Cargolux, CFL multimodal and Quatrei represented Luxembourg's know-how and products at the specialized Trade Fair FRUIT LOGISTICA 2022 in Berlin from April 5<sup>th</sup> to 7<sup>th</sup>.

The Cluster supports the Luxembourg "Fresh Hub" collective stand that was first introduced in 2018



14<sup>th</sup> May 2022

## Journée de l'Ingénieur SaarLorLux 2022

Engineering and Logistics go hand in hand and the Cluster for Logistics was pleased to participate to the conference of the "Association des Ingénieurs et Scientifiques du Luxembourg". The event took part in Oetrange and was followed by visits of the CFL multimodal Hub in Bettembourg/Dudelange and the Eurohob Centre in Contern, with a tour of the warehouses of Fanuc and DB Schenker.

26<sup>th</sup> November to 1<sup>st</sup> December 2022

**Official Trade Mission to South Korea**

The Cluster for Logistics participated to the official trade mission to South Korea in November 2022 by the Luxembourg Chamber of Commerce led by HRH the Crown Prince of Luxembourg and by Mr Franz Fayot, Minister of the Economy.

The mission involved different forums, visits, and events in Seoul, Sejong, and Busan with active interactions with Korean business communities. Luxembourg industrial player Rotarex inaugurated its factory in Asan, South Korea. It's the first investment in the country by a 100% Luxembourg-owned company. Mr Fayot announced the opening of an embassy in Seoul.



# KNOWLEDGE SHARING

28<sup>th</sup> April 2022

**Tag der Logistik 2022**

The Cluster for Logistics visited the SHIPSTA offices and Luxport Group at the Port de Mertert on 27<sup>th</sup> April 2022 in the framework of the “Supply chain day 2022”.

This year the C4L wanted to create a discussion about the strategy of Luxembourg and its supply chain in a Hotspot of Logistics for over 50 years in Mertert. Therefore, the Cluster welcomed HE Mrs. Florence Ensch, ambassador to Ireland and Mrs. Pascale Junker, director of Luxembourg Stratégie Directorate at Ministère de l'Économie and her team.





13<sup>th</sup> September 2023

## Workshop: Demystifying Artificial Intelligence (A.I.) in Business for the Transport & Logistics Sector

The C4L member Reveals offered a free workshop to C4L members to raise awareness of Machine Learning/AI projects. The workshop was divided into two parts: the presentation of a real AI project implementation as well as participative working groups where attendees would be invited to transpose the previous approach to their own business areas.

The workshop was led by David Recchia, Founder and CEO of REVEALS, an Advisory company dedicated to Data.



# PODCASTS 2022

Stories and topics about supply chain and logistics managers in a bi-weekly podcast of the Cluster for Logistics Luxembourg, the voice of supply chain and logistics.

The “Logistics Conversations” podcast is intended for a local and international audience that wants to learn more about “the people behind the scenes”. Discover inspiring decision makers and take a look at their projects and passions. We will showcase eminent C-level influencers as well as less known project leaders or operators that “make it happen”.



<https://www.clusterforlogistics.lu/podcast>

C4L and LuxUnplugged cooperated on a Podcast project to highlight Supply Chain Leaders that make it happen.



<https://www.clusterforlogistics.lu/luxunplugged>

**PODCAST #14**

**ABMESSUNGEN UND GEWICHTE SICHERHEIT IM LASTVERKEHR**

Siegfried **SERRAHN**  
Geschäftsführer | Serrahn Spedition+ Logistik

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**PODCAST #15**

**AKTUELLES AUS DER VERKEHRSPOLITIK DER INDUSTRIE- UND HANDELSKAMMERN**

Dr. Christian **MOSER**  
Vorsitzender der UECC

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**PODCAST #16**

**FRAEN AM TRANSPORT AN VERKEIERS-POLITIK**

Viviane and Marianne **WELTER**  
CEOs | Arthur Welter Transports

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**PODCAST #17**

**BOOSTING ENTREPRENEURSHIP**

Stéphanie **DAMGÉ**  
Director | Junk Entrepreneuren Luxembourg

**CLUSTER FOR LOGISTICS**  
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**PODCAST #18**

**DIGITIZING AIR CARGO TO TRANSFORM GLOBAL TRADE**

Chris **MCDERMOTT**  
CEO | CHAMP Cargosystems

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**PODCAST #19**

**SUPPLY CHAIN MANAGEMENT CAREERS AND THEIR TYPICAL PROJECTS**

Florian **GROVA**  
Senior Manager | Hamlet Consulting

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**LUX UNPLUGGED**

**Georges Krombach**  
Head of Sales & Marketing at Landewyck

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**BUSINESS PODCAST**

**LUX UNPLUGGED**

**Philippe Hemard**  
Supply Chain Expert  
Former Vice President Amazon Logistics Europe

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**BUSINESS PODCAST**

**LUX UNPLUGGED**

**Stavros Evangelakakis**  
Chairman of the Cool Chain Association

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**BUSINESS PODCAST**

# CONNECT WITH US

## LOGISTICS NEWS BRIEFING

The Cluster for Logistics publishes a monthly news briefing which summarizes the most important national and international news and articles on the topic of logistics and supply chain.

If you want to stay informed about our news and events, register via [www.c4l.lu/briefing](http://www.c4l.lu/briefing)



## SOCIAL MEDIA LINKEDIN AND TWITTER

The C4L also provides social media communication with its Twitter feed **@c4l\_lux** allowing to spread news from relevant sources instantly, including interesting video material. The LinkedIn C4L page



<https://www.linkedin.com/company/>

cluster-for-logistics-luxembourg is an additional channel to keep in touch with members, friends of logistics and supply chain professionals.

## + LEAN & GREEN LUXEMBOURG LINKEDIN



<https://lu.linkedin.com/showcase/lean-and-green-luxembourg>

## WEBSITE WWW.C4L.LU

The C4L Website serves the community for information about the cluster's activities and to register for events. It is reinforced by social media for last-minute information on conferences and events.

➤ **NEWS UPDATE:** The News Blog and Twitter feed allows to spread relevant news and C4L activities.

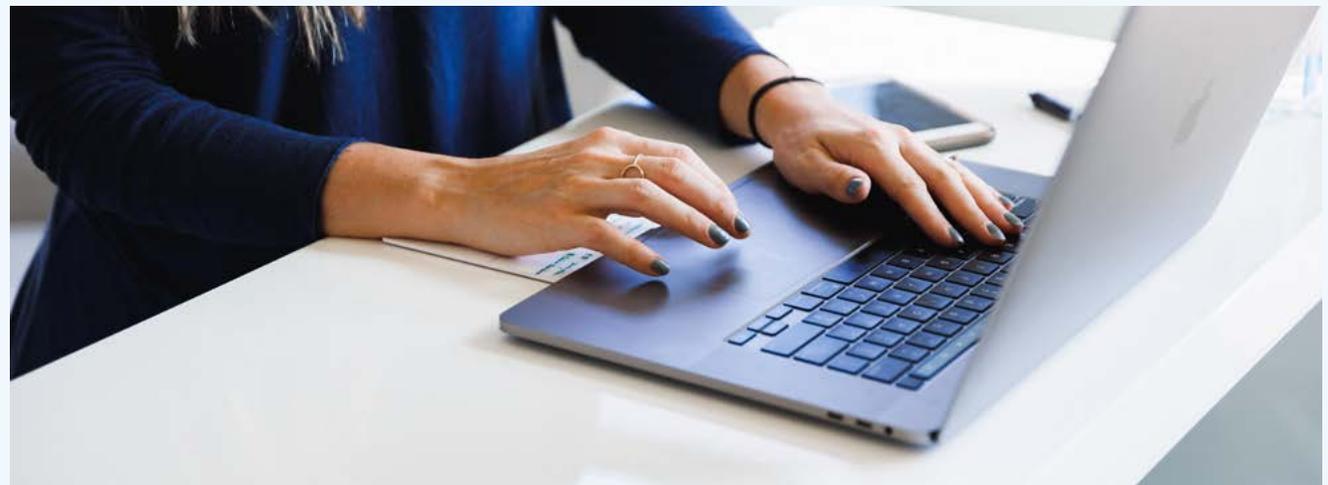
➤ **MORE EVENTS:** Events relevant to the community including links to register.

➤ **MORE VISIBILITY** for our supporting members (or membres effectifs). as they are highlighted and their contacts are provided.

## WEBSITE UECC:



[www.uecc-chambers.eu/en](http://www.uecc-chambers.eu/en)



# COMPANY AND STARTUP MEMBERS

2.0 e-Fulfillment and Cross-Dock Services S.A.

4i - Quatrei

51 Biz Luxembourg S. à r. l./PPMB

Abacus Consulting & Solutions S.A.

AllPack Services S.A.

ArcelorMittal - Long Products Luxembourg

Arthur Welter Transports

Astron Buildings S.A.

B Medical Systems S. à r. l.

Banque Internationale à Luxembourg

Biogros S. à r. l.

Cargolux Airlines International S.A.

CartaSense

CFL multimodal

Chamber of Commerce Luxembourg

CHAMP Cargosystems S.A.

CLdN RoRo S.A.

Cluster Maritime luxembourgeois

Comber Logistics

Confédération luxembourgeoise du commerce

DB Schenker Luxemburg

DC Postal Service S.A.

DEKRA Automotive S. à r. l.

Deloitte Tax & Consulting S. à r. l.

DHL Express

DHL Global Forwarding Luxembourg S.A.

DI Egidio

DuPont de Nemours Luxembourg S. à r. l.

elp

Eurogaume Lux S.A.

EY Luxembourg

Fedex Express Luxembourg S. à r. l.

FEDIL Business Federation Luxembourg

Geis Cargo International Luxembourg GmbH

Global Airlift Solutions

GMR Safety Inc.

GN Logistics Luxembourg S. à r. l.

Goodyear Dunlop Tires Operations S.A.

Grosbusch

Guardian Europe S. à r. l.

Gulliver Luxembourg

Haesaerts Luxembourg

HAMLET CONSULTING LUXEMBOURG

Husky Injection Molding Systems S.A.

IEE S.A.

INCO Logistics S. à r. l.

ING Luxembourg S.A.

Inland Navigation Luxembourg

Jost S.A.

Kouros S.A.

Kronospan Luxembourg S.A.

Kuehne + Nagel S. à r. l.

Landewyck Group

LCA Luxembourg

LIST

Lorry-Rail S.A.

Luxair S.A.

LuxairCARGO

LUXEMBOURG HIGH SECURITY HUB

Luxinnovation GIE

LUXPORT Group

Marsh NV/S.A. (Luxembourg Branch)

Mateco

Molitor Avocats

Motrac NV/S.A.

MSC Mediterranean Shipping Company

NewCo Log Sàrl

Offergeld II - GmbH & Co KG

Paul Wuerth

Pinsent Masons Luxembourg

POST Luxembourg

RAK Porcelain Europe S.A.

Resultance S.A.

Reveals S.A.

SAIPEM Maritime Management

SGI Ingénierie S.A. Luxembourg

Shipsta

Société de l'Aéroport de Luxembourg S.A.

lux-airport

Société du Port de Mertert

Sourcify S.A.

Streff Data Protection Services S. à r. l.

Supplier Sentinel S. à r. l.

TotalEnergies Marketing Luxembourg

Transalliance Europe S.A.

Université de Luxembourg LCL

Voyages Emile Weber S. à r. l.

VTG Finance S.A.

WDP Luxembourg S.A.

# PREMIUM AND FOUNDING MEMBERS



# BECOME A MEMBER

## THE CLUSTER FOR LOGISTICS OFFERS DIFFERENT TYPES OF MEMBERSHIPS

Premium, Company, Start-Ups and Personal/Retired/Young Professionals Luxembourg

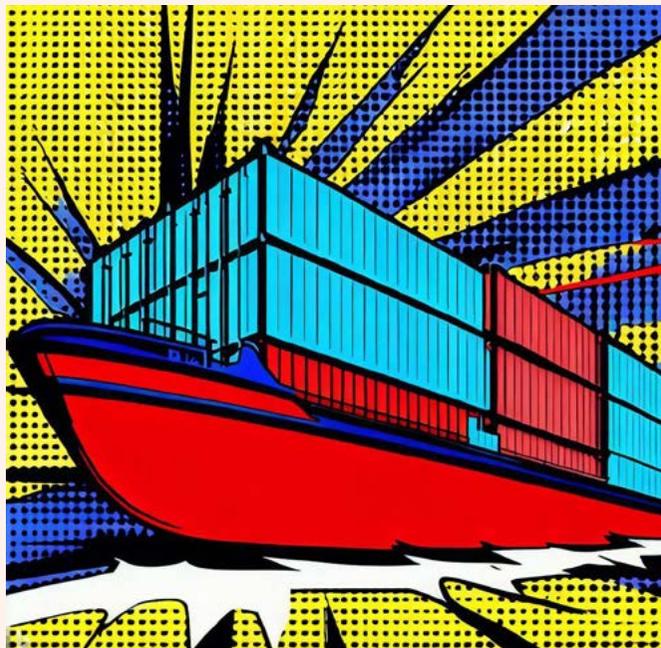
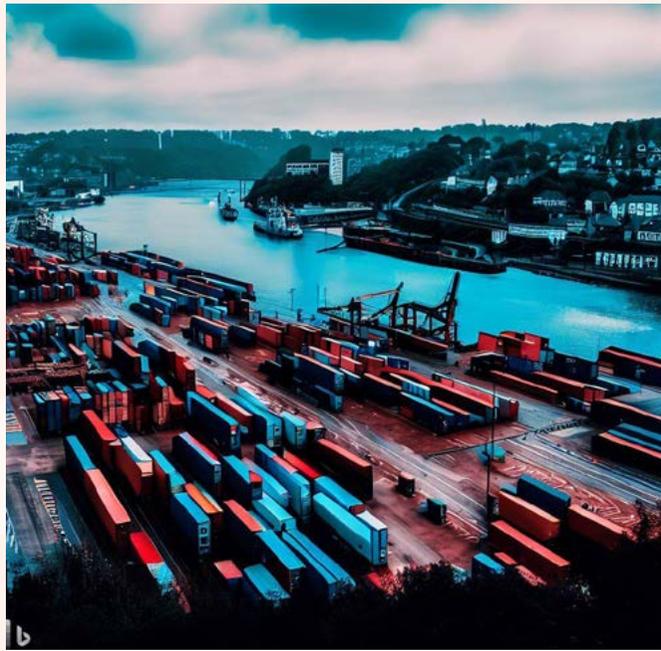
### MEMBERSHIP OF THE CLUSTER:

- > provides input to identify the needs of the Luxembourg logistics sector.
- > gives insights in the Luxembourg logistics sector and supports you to get more competitive.
- > provides information on factors that drive the logistics sector in Luxembourg.

To apply for membership of the Cluster for Logistics, you can fill out the form available on [www.c4l.lu/join-us](http://www.c4l.lu/join-us) or simply use the following QR code:



ADVANTAGES	PREMIUM 3.600€	CORPORATE 1.200€	START-UP 380€	PERSONAL 240€€€ <small>(RETIRED &amp; YOUNG PROFESSIONALS 75€)</small>
Invitation to all events of the cluster	✓	✓	✓	✓
Participation free of charge to events of the C4L (unless stated that events include a contribution)	✓	✓	✓	✓
Reception of news briefing	✓	✓	✓	✓
Contribution to news briefing	✓	✓	✓	✗
Logo on the Web	Highlighted as Premium	✓	✓	✗
Post News on the Web	✓	✓	✓	✗
Employment offers on the Web	✓	✓	✓	✗
Sponsoring in the news briefings and events	✓	✓	✗	✗
Eligible as member of workgroups	✓	✓	On invitation only	On invitation only
Eligible as Board Member	✓	✗	✗	✗



We wanted to demonstrate here, that the future will not only see more pictures created by artificial intelligence like in this document, but also document preparation is likely to see more use of programs like ChatGPT.

# BOARD MEMBERS



**THELEN Carlo,**  
C4L President, *Chamber Of Commerce*



**WELTER Viviane**  
Vice-President  
*Arthur Welter*



**TREINEN Mario**  
Vice-President  
*POST Luxembourg*



**BREBELS Johnny**  
Member  
*Luxinnovation*



**CECI Domenico**  
Member  
*Cargolux*



**RIES Antoine**  
Treasurer  
*CLC*



**FERRERO Francesco**  
Member  
*LIST*



**WINKIN René**  
Member  
*FEDIL*



**MAIRE Fabrice**  
Member  
*Cluster Maritime*



**CHEVALIER Barbara**  
Member  
*CFL multimodal*



**RAU Michael**  
Member  
*Luxport Group*



**SCAMMACCA Andrea**  
Member  
*B Medical Systems*



**ROSEN-VACHER Carla**  
Member  
*Uni.lu*



**McDERMOTT Chris**  
Member  
*CHAMP Cargosystems*



**MACLEANEN Wim**  
Member  
*INL*

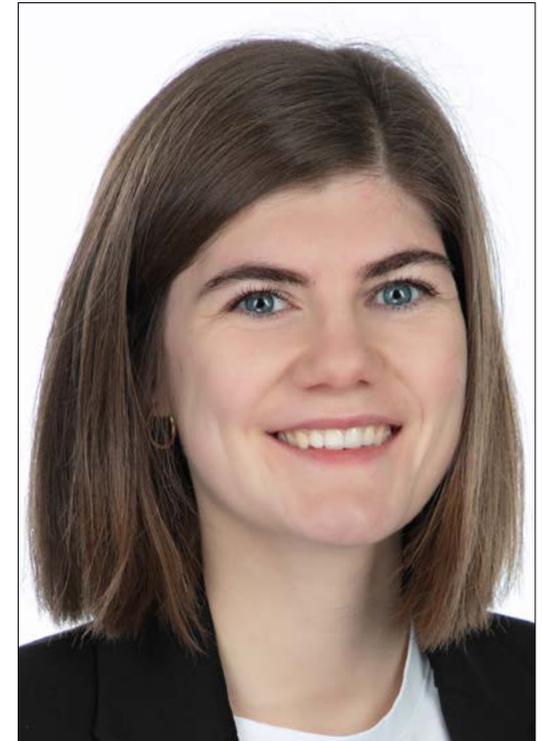
# C4L TEAM



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🐦 @c4l\_lux

Design & Layout by Zoë Mondloch

Available for download on Web [www.c4l.lu/report2022](http://www.c4l.lu/report2022)

Cluster for Logistics Activity Report 2022