



IPIC2023 AGENDA

IPIC2023: 9th International Physical Internet Conference

EXPANDING THE LOGISTICS SCOPE

13- 15 JUNE 2023
ATHENS, GREECE

MONDAY 12th JUNE

PHD Colloquium: (<https://www.pi.events/doctoral-colloquium>) 12.30 – 19.30, Wyndham Grand Athens, HERA room (Download agenda (/sites/default/files/PhD%20Colloquium-%20Agenda_Final.pdf))

Technical Visit (<https://www.pi.events/content/technical-visits>) to P&G Distribution Center in Athens: Monday, 12th June, 17.30 - 18.30

TUESDAY 13th JUNE | WEDNESDAY 14th JUNE | THURSDAY 15th JUNE

Local Athens Time

Tuesday, 13th JUNE

08.30 - 9.30

Registration

IPIC2023 Opening Ceremony

ROOM: ZEUS1

- 9.30 - 11.00
- Angelos Amditis, IPIC2023 Conference Chair | Research & Development Director, Institute of Communication and Computer Systems (ICCS), National Technical University of Athens | ERTICO Chairman
 - François-Régis Le Tourneau, ALICE Chair| Vice President Corporate Responsibility - L'Oréal For the Future
 - Szymon Oscislowski, Deputy Head of Unit. Maritime Transport & Logistics, DG MOVE, European Commission,
 - Ioannis Xifaras, Secretary General of Transport, Greek Ministry of Infrastructure and Transport
 - Professor Athanasios Kyriazis, Secretary General for Research and Innovation

11.00 - 11.30

Coffee Break and Opening of the Exhibition

Plenary 1: Industry approach to standards, interoperability and open connectivity: Evidence and future developments
(<https://www.pi.events/content/p1-industry-approach-standards-interoperability-and-open-connectivity-evidence-and-future>)

ROOM: ZEUS1

- 11.30 - 12.30
- Moderator: Tomas Ambra, Program Manager & Technical Lead, ALICE
- Javier Gallardo, Chairman, IPCSA
 - Jose Maldonado, Secretary General, Terminal Industry Committee (TIC 4.0)
 - Andreas Nettsrater, CEO, Open Logistics Foundation (OLF)
 - Benoit Tiers, EVP, Chief Digital & Technology Officer · GEODIS
 - Nik Delmeire, Coordinator of EU-IWT-Platform / Vice Chair ALICE TP / Boardmember WATERBORNE TP, EU Inland Waterway Transport Platform

12.30 – 13.30

Buffet Lunch

SESSION 1

13.30 – 15.00

ZEUS 1

STREAM B: Logistics hubs, corridors and networks

**DISpATch****ZEUS 2**

STREAM C: Digitalization, automation and data sharing

1.B Synchronodal Transport Planning with Demand Uncertainties (DISPATCH project)

(<https://www.pi.events/content/12-synchronodal-transport-planning-demand-uncertainties-dispatch-project>)

Moderator: Kris Neyens, Manager Internationalisation at VIL Flanders Innovation Cluster for Logistics & Hyperloop Theme Manager

- Introduction of the Dispatch project. *Javier Durán-Micco. Postdoc researcher. Vrije Universiteit Brussels*
- Long-term capacity planning in rail-road networks under demand uncertainty. *Thibault Delbart. PhD Student. Hasselt University, Logistics Research Group*
- Synchronodal inventory replenishment under non-stationary demand with a partially observable demand process. *Hannah Yee. PhD student. KU Leuven*
- Synchronodal transport re-planning using Agent-Based Modelling. *Shafagh Alaei. PhD student. Vrije Universiteit Brussel*

1.C Data Sharing and the Route to Physical Internet

Moderator: Jon Kuiper, Senior Policy Advisor, Ministry of Infrastructure and watermanagement. NL

- Data sharing in Europe, general overview and initiatives of Dutch government. *Jon Kuiper. Senior Policy Advisor, Ministry of Infrastructure and watermanagement. NL*
- FEDERATED, an initiative of DTLF. *Wout Hofman, Senior Research Scientist, TNO, Netherlands.*
- Data sharing, a perspective from the business. *Michael Moffett, CEO CO3.*
- Accelerating the eCMR adoption in shipper & retailers operations, learnings from Colruyt and P&G in a multi-retailer/multi-shipper/multi-e-cmr provider pilot. *Dirk Leemans. Head Center of Excellence Supply Chain. Colruyt Group & Sergio Barbarino. Senior Director and R&D Research Fellow. Procter & Gamble Brussels Innovation Center.*

1.D Innovative Transportation Packaging and Load Units Pools Supporting Efficiency and Sustainability

Moderator: Matthias Prandstetter, Thematic Coordinator. AIT Austrian Institute of Technology

- Physical Internet Based Hyperconnected Logistics Enabling Heavy-Duty Machinery Sharing in the Composting Industry: A Simulation-Based Scenario Investigation. *Max Cichocki. University Assistant. Graz University of Technology*
- Enhancing Circular Logistics of Unit Loads by Leveraging Physical Internet Modularization and Consolidation Principles. *Jorge Garcia Zamalloa. PhD. Student – Graduate Research Assistant. Georgia Institute of Technology*
- Consumers' perspective on automatized circular packaging for e-grocery deliveries. *Sarah Pfoser. Senior Researcher. University of Applied Sciences Upper Austria*
- En route towards a Net Zero Carbon emission & Fully Connected Global Freight Transport. *Sotirios Ptochos. Co-founder, Senior Executive. PEOPLE*

ZEUS 3

STREAM D:
Modularization,
material handling &
transport innovation

ZEUS 4

STREAM E: Urban
logistics & city
distribution networks

1.E Urban hubs and freight networks

Moderator: Raffaele Vergnani, Policy analyst & Project manager, POLIS Network

- Digital Twinning platforms as an enabler for the ex-ante evaluation of PI-inspired interventions to last-mile logistics networks. *Dimitris Rizopoulos. Project Manager/Research engineer. Inlecom*
- New business models for last mile delivery in city centres. *Xavier Brusset, Miguel Suarez, SKEMA Business School*
- Assessing the Performance of Urban Freight Networks. *Russell G. Thompson. Professor in Transport Engineering. The University of Melbourne*

15.00 – 15.30

Coffee break and Exhibition

SESSION 2
15.30 - 17.00

ZEUS 2

STREAM A: Shippers, retail, logistics distribution networks and warehousing

ZEUS 1

STREAM B

Logistics hubs, corridors and networks



(<https://www.imec-int.com/en/pill>)

ZEUS 3

STREAM C:
Digitalization, automation and data sharing

2.A Hyperconnected Logistics Networks Serving Circularity and Omnichannel Retail

Moderator: Russell G. Thompson. Professor in Transport Engineering. The University of Melbourne

- Modeling and optimization of the omnichannel retailing problem. *Joyce Zhang. Post-doctoral fellow. The University of Melbourne*
- Physical Internet Enabled Hyperconnected Circular Supply Chains. *Ziqing Wu. PhD Student. IMT Mines Albi*
- Surfing the Physical Internet with Hyperconnected Logistics Networks. *Nidhima Grover. PhD student. Georgia Institute of Technology*
- Leveraging Customer Conversion Behavior in Hyperconnected Networks. *Jisoo Park. PhD Candidate. Georgia Institute of Technology*

2.B The Physical Internet Living Lab: Establishing the first blueprint for a PI-network

Moderator: Joris Finck - imec; Philippe Michiels - imec

- PILL: the road towards a Physical Internet framework, *Joris Finck - imec; Philippe Michiels - imec*
- The PI-client: a blueprint for Physical Internet, *Philippe Michiels - imec*
- Simulation of a decentralised network, *Shiqi Sun - VUB Mobilise; Vitor Lemos - imec*
- Validation of the PI-client and first PI-application, *Dries Van Bever - imec*

2.C Digital Twin Applications in PI Networks and Hubs

Moderator: Wout Hofman. Senior scientist. TNO, Dutch National Institute for Applied Science

- A Proposal and Evaluation of a Digital Twin Framework for PI-Hubs using Re-enforcement Learning based Multi-Agent Systems Model. *Anshul Vijay. PhD Candidate. The University of Melbourne*
- Environmental impact assessment of intercontinental transport network with digital twin under PI framework. *David Cipres. Responsible for the Digital Transformation research line. Instituto Tecnológico de Aragón (ITAINNOVA)*
- Hyperconnected and Autonomous Distribution System for Societally Critical Products. *Sahrish Jaleel Shaikh. Graduate Research Assistant. Georgia Institute of Technology*
- Digital Twin for reducing emissions: the Port of Barcelona pilot. *Chiara Saragani. PhD Candidate in Digitalization. CENIT (CIMNE), Port of Barcelona*

2.E Smart Cities and Digital Twins

Moderator: Magnus Blinge, Scania, Vice Chair of ALICE Urban Logistics Group

ZEUS 4

STREAM E: Urban logistics & city distribution networks

- The Urban Cloud: Linking city services, cloud computing, and the Physical Internet to achieve smart city objectives. *J. Rod Franklin. Professor of Logistics Practice. Kuehne Logistics University gGmbH*
- Dynamic resource deployment in hyperconnected parcel logistic hub networks. *Yujia Xu. PH.D. student, Graduate research assistant. Georgia Tech H. Milton Stewart School of ISyE*
- An Artificial Intelligence-based software module for the optimization of collaborative delivery in last-mile logistics. *Jenny Fajardo Calderín. Assistant Professor. University of Deusto*

Exhibition

Start Ups pitches - Physical Internet 2023 awards

ROOM: ZEUS1

Moderated by **Thorsted Hülssman**. CEO Digital Hub Management GmbH | CFO International Data Spaces Association | CFO Open Logistics Foundation | Co-Lead Catena-X

17.30 – 18.30

- Stefano Negrini, ReLog3p
- Britta Balden, SmartLoC
- André Käber, myleo dsc
- Sten Wandel, Omniloop
- Ksenia Duarte, EX9

Technical Visit to the Port of Piraeus, PCT (<https://www.pi.events/content/technical-visits>)

18.30 - 19.30

Bus Service will depart at 17.30 from the IPIC2023 Venue (Wyndham Grand Athens) to the Piraeus Port and will return to the venue at 20.30.

GALA DINNER

20.30 - 23.00

IPIC Gala Dinner will take place at the ABOVE rooftop of the Wyndham Grand Athens (<https://www.wyndhamgrandathens.com/wyndham-above-roof-top-pool-bar-restaurant/>) (IPIC venue). Those who wish to participate and have not registered online can always express their interest for participation here (ipic@iccs.gr (<mailto:ipic@iccs.gr>)) and settle payment on site. With unobstructed views of the city, on the 9th floor of the hotel, ABOVE is one of the best roof top restaurants in Athens offering amazing panoramic city view, from the Acropolis to Lycabettus hill and all the way down to the Saronic Gulf!

IPIC 2023 AWARDS (<https://www.pi.events/content/hall-fame>)

Local Athens Time

Wednesday, 14th JUNE

SESSION 3

09.00 – 10.00

ZEUS 4

STREAM A: Shippers, retail, logistics distribution networks and warehousing

ZEUS 2

STREAM B: Logistics hubs, corridors and networks

ZEUS 3

STREAM C: Digitalization, automation and data sharing

POSTER SESSION**(Foyer Area)**

STREAM D : Modularization, material handling & transport innovation

3.A Physical Internet Adoption

Moderator: Maria Matusiewicz, PhD Department of Transport Policy and Economic Integration University of Gdańsk

- Behavioral and theoretical considerations of physical internet adoption. *Russell G. Thompson. Professor in Transport Engineering. The University of Melbourne*
- Why Fair Benefit Sharing is Crucial for a Successful Implementation of Cooperation and how it could work. *Matthias Prandtstetter. Thematic Coordinator. AIT Austrian Institute of Technology*
- Can the Physical Internet pave the way to a Mobility of Entities? *Matthias Prandtstetter. Thematic Coordinator. AIT Austrian Institute of Technology*

3.B Logistics Network Design and Cost Sharing

Moderator: Lóri Tavasszy. Professor, Freight & Logistics Systems. Delft University of Technology. The Netherlands-EUROPE.

- Stochastic Service Network Design with Different Relay Patterns for Hyperconnected Relay Transportation. *Jingze Li. Doctoral Research Assistant. Physical Internet Centre, Georgia Institute of Technology*
- Routing and network-slicing-based protocols for the Physical Internet network. *Fatima Ezzahra Achamrah. Postdoctoral researcher. Mines Paris, PSL*

3.C Federated Networks and Data Sharing Governance

Moderator: Guido Piccoli CEO of ALOT S.r.l - Innovation and EU advisor at Codognotto Italy

- PI Data Sharing Infrastructure. *Wout Hofman. Senior scientist. TNO, Dutch National Institute for Applied Science*
- A data governance framework for a federated logistics data space. *Ashish Vadhe. Researcher Operations and Supply Chain Management. Vlerick Business School, Belgium*
- Data Sharing in the Physical Internet: A Capability-Based Approach for Trustless Logistic Networks. *Cathérine Cassan. PhD Researcher. Mobilise, VUB*

3.D (Poster Session) Physical Internet Boxes for Last mile Delivery

- Evaluation of PI boxes for last mile delivery. *Martin Reinthaler. Research Engineer. AIT Austrian Institute of Technology GmbH*
- Is Digital Twin a Better Solution to Improve ESG Evaluation for Vaccine Logistics Supply Chain: A game theoretic analysis. *Mengdi Zhang. Post-doctoral fellow. The Hong Kong Polytechnic University*

3.E Optimising Urban Mobility & Logistics Networks

Moderator: Dr. J. Rod Franklin, Kühne Logistics University, What can Physical Internet help in decarbonizing City Logistics

ZEUS 1

STREAM E : Urban logistics & city distribution networks

- Urban Sychromodality: Synergies between Freight and People Mobility. *Olivier Labarthe. Associate Professor. Kedge Business School*
- Modular Containerization of Parcel Logistics Networks: Simulation-Based Impact Assessment. *Sahrish Jaleel Shaikh. Graduate Research Assistant. Georgia Institute of Technology*

10.00 – 10.30 *EXHIBITION*

Plenary 2: Physical Internet initiatives worldwide
(<https://www.pi.events/content/plenary-2-physical-internet-initiatives-worldwide%2%A0>)

ROOM: ZEUS1

Moderator: Shenle Pan, Associate Professor. Mines Paris-PSL University

10.30 – 12.00

- Benoit Montreuil. Coca-Cola Chair in Material Handling and Distribution. Director, Physical Internet (PI) Center and PI Lab. Georgia Tech. USA
- Eric Ballot. Professor. MINES Pari – PSL. FRANCE-EUROPE
- Lóri Tavasszy. Professor, Freight & Logistics Systems. Delft University of Technology. The Netherlands-EUROPE.
- Russell G. Thompson. Professor in Transport Engineering. The University of Melbourne. AUSTRALIA
- Tadashi Mizutani. Expert Consultant Nomura Research Institute. JAPAN

12.00 – 12.30 *Coffee break*

Plenary 3: Physical Internet Pioneering Companies
(<https://www.pi.events/content/p3-physical-internet-pioneering-companies%2%A0>)

ROOM: ZEUS1

12.30 -13.30

Moderator: Paola Cossu, CEO. FIT Consulting

- Sergio Barbarino. Senior Director and R&D Research Fellow. Procter & Gamble Brussels Innovation Center.
- Per Olof Arnäs, PhD. Director Logistics Strategy EINRIDE
- Kevin Liu. Secretary General. Alliance of Hongqiao Physical Internet of China
- Johan Leveque. Head R&D La Poste

13.30 – 14.30 *Lunch break*

SESSION 4 POSTER

14.30 - 16.00

(Foyer Area)

STREAM A: Shippers, retail, logistics distribution networks and warehousing

ZEUS 3

STREAM B : Logistics hubs, corridors and networks

ZEUS 2

STREAM C: Digitalization, automation and data sharing

4.A (Poster Session) Interconnected Warehousing

- Automating Capacity Pre-Booking at Physical Internet Warehouse Nodes. *Kostas Zavitsas. Head of Analytics. VLTN*
- A digital twin for PI-Store automated warehouses. *Massimo Rebuglio. PhD candidate. Politecnico di Torino*

4.B Rail and hyperloop developments in the PI

Moderator: Kris Neyens, Manager Internationalisation at VIL Flanders Innovation Cluster for Logistics & Hyperloop Theme Manager

- Automated high-speed Hyperloop cargo transportation for a sustainable logistics network. *Walter Neu. Prof. Dr., Board of Directors - Institute of Hyperloop Technology (IHT)*
- Can adding the 5th Transport Mode - Capsule Pipelines enable Physical Internet, 15-minute City, Circular Economy, Automatic Retailing, and reduce Climate Impact? *Sten Wandel. Professor Emeritus in Engineering Logistics. Lund University Sweden*
- Spillover applications to accelerate the valorization of Hyperloop. *Kris Neyens. Manager Internationalisation at VIL Flanders Innovation Cluster for Logistics & Hyperloop Theme Manager*

4.C(a) PI capabilities, Services and information Sharing

Moderator: Andreas Nettsträter, CEO Open Logistics Foundation

- Asset capability, transparency, and governance - fundamental to PI Proliferation. *Geoffrey Featherstone. Student. University of Melbourne*
- Performance of Self Organizing Logistics: a Practical Comparison between Centralized and Decentralized Logistics. *Lola Sprenger. Data scientist Sustainable Transport and Logistics. TNO*
- Faith, Hope and Data sharing! - Deep concerns due to quality and the consequences from that. *Trafikverket. Per Eriksson. Transport economics and logistics. Transport Administration, Sweden*

4.C(b) 5G: Revolutionizing the Logistics Sector in Europe 5G LOGINNOV (<https://www.pi.events/content/5g-revolutionizing-logistics-sector-europe>)

Moderator: Konstantinos Katsaros, Head of Intelligent Networks & Services at I-SENSE / ICCS NTUA

ZEUS 1

STREAM C: Digitalization, automation and data sharing



(<https://5g-loginnov.eu/>)

- 5G&AI-enabled services in Port operations tailored to logistics and safety applications. *Pavlos Basaras, Project Manager, Institute of Communication and Computer Systems (ICCS)*
- AI-assisted 5G systems supporting rail services. *Anna Tzanakaki, Associate Professor, National and Kapodistrian University of Athens*
- Autonomous Advanced Air Mobility operations enabled by computer vision methods and 5G connectivity. *Christos Skliros, Technical Director - Hellenic Drones S.A.*
- 5G&AI enabled real time drowsiness detection, alerting and report. *Yannis Kopsinis, Co-Founder and CEO at LIBRA AI Technologies*

4.E Last mile Delivery

Moderator: Ioanna Fergadiotou, INLECOM, Physical Internet in URBANE's Living Labs

ZEUS 4

STREAM E : Urban logistics & city distribution networks

- An exploration of the potential benefits of Transportation and Logistics innovations in Last-Mile Urban Deliveries: A case study approach. *Kostas Zavitsas. Head of Analytics. VLTN*
- PI readiness of city logistics ecosystems & impact driven PI nodes & corridors of the TEN-T, Dr Georgia Ayfantopoulou, Research Director – Deputy Director HIT/CERTH
- Hyperconnected Logistic Service Networks: Bidding-Based Design Framework. *Simon Soonhong Kwon. Graduate Research Assistant. Physical Internet Lab, Georgia Institute of Technology*
- Physical Internet-driven last mile delivery: Performance requirements across people, process and technology. *Kostas Zavitsas. Head of Analytics. VLTN*

16.00 – 16.30 *Coffee Break & Exhibition*

SESSION 5

16.30 - 18.00

ZEUS 3

STREAM A : Shippers, retail, logistics distribution networks and warehousing

ZEUS 4

STREAM B: Logistics hubs, corridors and networks

POSTER**(Foyer Area)**

STREAM C: Digitalization, automation and data sharing

5.A e-Commerce & Supply Chain

Moderator: Walid Klibi, Professor of Supply Chain Management, Kedge Business School

- Framework for Leveraging Physical Internet Principles for Long Tail Products in E-Commerce. *Katja Meuche. Industrial Engineering Ph.D. Student. Physical Internet Center, H. Milton Steward School of Industrial & Systems Engineering Georgia Institute of Technology*
- Demand-supply alignment in supply chain networks with access to hyperconnected production options. *Ashwin S. Pothan. PhD student. Georgia Institute of Technology*

5.B Optimization of PI networks, Nodes and Sychromodal Services

Moderator: Elvina Nowak, Project Manager at ETP ALICE

- Dynamic and stochastic optimization for sychromodal transport service planning and pricing. *Sekar Sakti. PhD student. The University of Melbourne*
- Enhancing Energy Efficiency and Dynamic Carbon Footprint Calculation at Container Terminals. *Ignacio Benítez. R&D Engineer. Fundación Valenciaport*
- Robust logistics service network design for perishable products with uncertainty on transportation time. *Shenle Pan. Associate Professor. Mines Paris-PSL University*

5.C (Poster Session) Blockchain, Traceability and Smart Contracts

- The Concept of Dynamic Smart Contracts to Enable Automated Payments in the PI. *Malte Spanuth. PhD Student. Kühne Logistics University*
- Cyber-Physical-Internet-Driven Logistics Infrastructure Integration in the Greater Bay Area. *Hang Wu. Ph.D. Candidate. The Hong Kong Polytechnic University*
- Blockchain-based electronic exchange of freight transport information (eFTI). *Evangelia Kopanaki. Associate Professor. University of Piraeus*
- Application of Web3 and Blockchain Technology in Physical Internet-Based Sychromodal Freight Transportation Framework. *Siyavash Filom. Ph.D. Candidate. McMaster University – McMaster Institute of Transportation and Logistics (MITL)*
- eNegotiation for Logistics Resource Reservation. *Shinji Nakadai. Researcher. NEC Corporation*
- Spatial-temporal Traceability for Cyber-Physical Industry 4.0 Systems. *Dr. Zhiheng Zhao. Research Assistant Professor. Department of Industrial & Systems Engineering, The Hong Kong Polytechnic University*

5.D Automated logistics networks and operations enabled by automated vehicles

Moderator: Rodrigue Al Fahel, Project Manager at Lindholmen Science Park

ZEUS 1

STREAM

D: Modularization, material handling & transport innovation

- AWARD: All Weather Autonomous Real logistics operations and demonstrations. *Ted Zotos. Research & Innovation Manager. International Road Transport Union (IRU)*
- Autonomous vehicles in all weather conditions: steering towards a harmonized legislative framework enabling real-life deployment. *Ted Zotos. Research & Innovation Manager. International Road Transport Union (IRU)*
- MODI: Accelerating the introduction of highly automated solutions to improve European logistic chains. *Per Olof Arnäs, PhD. Director Logistics Strategy EINRIDE*
- SMART Interoperable Logistics Solutions across Supply Chain Segments Transport Modes. *Joris Claeys, Founder & Lead Partnerships & Business Development, CLEANconnect & CC-Mobility*

5.E Physical Internet urban space and freight transport optimization

Moderator: Paola Cossu, FIT Consulting, Bringing Physical Internet to policy making: Physical Internet in Sustainable Urban Logistics Plan

ZEUS 2

STREAM E : Urban

logistics & city distribution networks

- Prerequisites for Data Sharing and Realizing Off-peak Deliveries. *Annette Hultåker. Technical Manager, Ph.D. Scania*
- Resilience Assessment of Hyperconnected Parcel Logistic Networks Under Worst-Case Disruptions. *Onkar Kulkarni. Ph.D. Student. Georgia Institute of Technology*
- Policy Approaches for Placing Parcel Lockers in Public Space. *Paul Buijs. Assistant Professor. University of Groningen*
- Public transport-based crowd-shipping with backup transfers. *Barış Yıldız. Assist. Prof. Koc University*

Local Athens Time

Thursday, 15th JUNE

SESSION 6

09.00 – 10.30

ZEUS 3

STREAM A : Shippers, retail, logistics distribution networks and warehousing

POSTER**(Foyer Area)**

STREAM B : Logistics hubs, corridors and networks

ZEUS 2

STREAM C: Digitalization, automation and data sharing

6.A Technology and Smart Decisions Shaping Warehouses and Fulfillment Centers

Moderator: Anike Murrenhoff, Intralogistics and Artificial Intelligence at Fraunhofer IML

- Kit Fulfillment Centers Serving Distributed Small-Series Assembly Centers in Hyperconnected Supply Chain Networks. *Mingze Li. Graduate Research Assistant. Georgia Institute of Technology*
- Modeling and Simulation of an Agile Assembly Center in a Physical Internet inspired Manufacturing System. *Miguel Campos. Graduate Research Assistant. Physical Internet Center, Georgia Institute of Technology*

6.B (Poster Session) Synchromodal Routing and IoT

- The impact of IoT implementation on shipments from Asia to Europe along the New Silk Road on the development of the Physical Internet in the receiving country. *Witold Statkiewicz. Senior Specialist - Business Process Analyst. Łukasiewicz Research Network - Poznań Institute of Technology*
- Lead-time-based Routing of Freight in PI Networks. *Alireza Shahedi. Ph.D. Student in Transport and Logistics. University of Genoa*
- Innovative Approach to Minimise Container Port Footprint. *Dimitris Tsolakis. Export Agent, CF Technologies Pty Ltd*
- Synchromodal transport: How are the benefits of collaboration distributed? *Javier Durán-Micco. Postdoc researcher. Vrije Universiteit Brussels*
- Synchromodal transport re-planning using Agent-Based Modelling. *Shafagh Alaei. PhD student. Vrije Universiteit Brussel*

6.C 5G in Ports and Vessel Automation

Moderator: Giannis Kanellopoulos, Logistics & Maritime Unit Leader at ISense Group (ICCS), ALICE vice-chair, 5G logistics applications

- Automating vessels berthing, docking and stevedorage operations: The MOSES project. *Margarita Kostovasili. Scientific Project Manager. ICCS/NTUA*
- 5G-enabled innovation in ports' logistics: expectations from the 5G-LOGINNOV Project and relevance for the Physical Internet. *Piergiuseppe Di Gregorio. Young Researcher & Project Manager. University of Modena and Reggio Emilia*
- Small and medium automated ports - the future of intermodal logistics, AEGIS. *Harilaos N. Psarftis. Professor. Technical University of Denmark*

6.D Smart Transport Units for Connected Supply Chains

Moderator: Jaco Voorspuij. Chief Consulting. FixLog – Fixing (your) logistics

ZEUS 4

STREAM D :
Modularization,
material handling &
transport innovation

- Scan4Transport: Connecting the transport unit to its digital twin. Jaco Voorspuij. Chief Consulting. FixLog – Fixing (your) logistics
- PI Containers: Assessment of Functions and Development from an Engineering Design Related Perspective. *Gerald Mahringer. University Assistant. Graz University of Technology, Institute of Logistics Engineering, Austria*
- PONERA use cases presentations. *Matthew Reali.*

6.E Innovation Urban Delivery Vehicles and Solutions

Moderator: Hans, Schurmans, Proximus, Our experiences with Consolidated Urban Logistics Transport

ZEUS 1

STREAM E: Urban
logistics & city
distribution networks

- Identification of cargo bikes and drones related challenges, potential strengths and benefits to achieve sustainable futures. *Ioannis Chatziioannou. Post-doctoral Researcher. National Technical University of Athens, Department of Geography and Regional Planning, School of Rural and Surveying Engineering*
- GREEN-LOG Cooperative and Interconnected Green delivery solutions towards an era of optimized zero emission last mile Logistics. *Amalia Ntemou. Project Manager. Netcompany-Intrasoft S.A*
- Hyperconnected Urban Parcel Delivery Network Design with Tight Delivery Service Requirements. *Johan Leveque. Head of R&D. La Poste Group*
- Enabling the PI to solve multi-layered problems of the Last Mile Logistics. *Katharina Beck. Research Assistant. Hamburg University of Technology (TUHH). Javi Esquillor. Flows & scales. Capillar IT*

10.30 – 11.00

Coffee break and Exhibition

Plenary 4: Physical Internet applications in Urban Logistics
(<https://www.pi.events/content/p4-applications-physical-internet-urban-logistics%C2%A0>)

ROOM: ZEUS1

Chair: Magnus Blinge, Scania, Vice Chair of ALICE Urban Logistics Group

11.00 – 12.30

- Paola Cossu, FIT Consulting, Bringing Physical Internet to policy making: Physical Internet in Sustainable Urban Logistics Plan
- Ioanna Fergadiotou, INLECOM, Physical Internet in URBANE's Living Labs
- Prof. Dr. J. Rod Franklin, Kühne Logistics University, What can Physical Internet help in decarbonizing City Logistics
- Hans, Schurmans, Proximus, Our experiences with Consolidated Urban Logistics Transport
- Ignacio Magallón, URBANIZED Project, Modular and Flexible Solutions for Urban-Sized Zero-Emissions Last-Mile Delivery and Services Vehicles

12.30 – 13.30 *Lunch break*

SESSION 7

13.30 - 15.00

ZEUS 2

STREAM A: Shippers, retail, logistics distribution networks and warehousing

ZEUS 4

STREAM B: Logistics hubs, corridors and networks

ZEUS 3

STREAM C: Digitalization, automation and data sharing

ZEUS 1

STREAM

D: Modularization, material handling & transport innovation



HELLENIC INSTITUTE FOR LOGISTICS MANAGEMENT

(<https://5g-loginnov.eu/>)

7.A Data sharing for Sustainability and Solidarity

Moderator: Alain Baeyens, ELUPEG Chairman and CEO of 30° North

- Transparency in times of war: The EU Ukraine Solidarity Lanes Visibility Map. *Serge Schamschula. Transporeon*
- The end of guesstimation Carbon accounting by primary data sharing. *Serge Schamschula. Transporeon*
- Thrive with standard moving towards the Physical Internet. *Jaco Voorspuij. Chief FixLog – Fixing (your) logistics*

7.B Freight Transport Reviews and Regional Frameworks

Moderator: Guido Piccoli CEO of ALOT S.r.l - Innovation and EU advisor at Codognotto Italy

- A Framework for Developing a Regional Freight Transport Observatory. *Aris Matopoulos. Professor of Supply Chain Design. Centre for Logistics, Procurement and Supply Chain Management, Cranfield University*
- Strategic planning in multimodal transportation. A systematic literature review. *Wenhua Qu. Postdoc researcher. Delft University of Technology*

7.C Supply Chain Disruptions, Road Automation and Information Gaps

Moderator: Evangelia Portouli, Senior Researcher, Institute of Communication and Computer Systems (ICCS)

- Measuring Efficiency of Automated Road Freight Transport: The AWARD Approach. *Manuel Walch. Research Associate. University of Applied Sciences Upper Austria*
- Closing the information gap of multimodal transports. *Jürgen Zajicek. Research engineer. AIT Austrian Institute of Technology GmbH*
- Online Detection of Supply Chain Network Disruptions Using Sequential Change-Point Detection for Hawkes Processes. *Yao Xie. Professor. Georgia Institute of Technology*

7.D Logistics and Supply networks and intelligence last mile - city logistics (ILME SESSION) (<https://www.pi.events/content/ilme-session-logistics-and-supply-networks-and-intelligence-last-mile-city-logistics>)

- Last mile & city logistics, Digitization in the Greek Logistics Konstantinos Haniotis – President Telenavis - ILME
- 3PL perspective: adapting to E-commerce requirements, Lykourgos Manoliadis Deputy General Manager, Diakinisis SA
- Getting Digital Transformation Right by Always Having the Customer at the Core, Stathis Makantasis Logistics Director, DELTA Foods S.A. - ILME
- Transitioning to Physical Internet Enabled City Logistics, Dr. Georgia Ayfantopoulou, Research Director HIT/CERTH

POSTER

STREAM E: Urban
logistics & city
distribution networks

7.E (Poster Session) Urban Logistics & City Distribution

- Behavioral Modelling of Public Transportation Passengers Participating in Last-Mile Freight Delivery. *Neema Nassir. Senior Lecturer. University of Melbourne*

TECHNICAL VISIT: IKEA GREECE automated Distribution Center, operated by Trade Logistics SA (<https://www.pi.events/content/technical-visits>)

16.30- 18.30

Bus Service will depart at 15.30 from the IPIC2023 Venue (Wydham Grand Athens) to the IKEA DC and will return to the venue at 19.30.

Closing Ceremony

ROOM: ZEUS1

15.30 -16.30

- Angelos Amditis, IPIC2023 Conference Chair | Research & Development Director, Institute of Communication and Computer Systems (ICCS), National Technical University of Athens | ERTICO Chairman
- *Sergio Barbarino*. Research Fellow & Chair of European Logistic Innovation Technology Platform Proctor & Gamble
- Benoit Montreuil. Coca-Cola Chair in Material Handling and Distribution. Director, Physical Internet (PI) Center and PI Lab. Georgia Tech. USA

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