IPIC 2017
Program

TU Graz

4th INTERNATIONAL
PHYSICAL INTERNET CONFERENCE

Logistik Werkstatt Graz

Dear Physical Internet community,
Dear friends of Logistikwerkstatt Graz,
Dear ladies and gentlemen,

It is an honour and privilege to welcome you all to Graz. The members of staff of the Institute of Logistics Engineering (ITL) at Graz University of Technology (TU Graz) proudly present the proceedings of the 4th International Physical Internet Conference 2017 (IPIC). Within the last years, the Physical Internet has developed more and more into a global research initiative thus completely changing the idea of logistics. But not only research is involved. More and more leading companies ranging from logistics, as well as logistic equipment producers and retailers, are focussing on this visionary approach. Dealing with actual challenges out of sustainability, efficiency, growing logistics volumes, shorter delivery times and new disruptive business models the main vision of the Physical Internet for 2050 is a truly integrated high-performative transport system. Our conference tries to power this vision.

This is where the IPIC merges with the Logistikwerkstatt Graz, where „science meets industry" is not only a mere slogan but has been living practice for four successful editions from 2012 on. Also Logistikwerkstatt Graz tries to integrate ideas and approaches from the areas of research and industry to power the technical and operational side of intralogistics out of ITL's engineering competence. Prof. Jodin established this unique type of conference here in Graz. It is our sad duty to inform you all of his passing away at the end of March 2017. To honour and remember him and his work for TU Graz and the PI in particular, we would like to dedicate this book to him posthumously.

There are many good reasons why to host IPIC 2017 in Graz, but as always it depends on the people behind the scenes to make such an event happen. Our thanks go to Prof. Montreuil and Sergio Barbarino, who developed together with us the idea of a Graz IPIC edition, prolonging a successful cooperation out of the MODULUSHCA projectlong ago. Despite all the efforts to organize such a conference, Prof. Montreuil, Fernando Liesa and Maximo Martinez Avila have always been much more than mere supporters. Remembering the fruitful discussions and valuable insight into the PI community, it was mainly the European Technology Platform ALICE with Fernando Liesa, who largely contributed to designing an interesting and diversified program. Within 19 workshops, to be opened with a special keynote, attendees have the possibility to choose from three parallel sessions. This reflects the great interest of the community to have a more extensive conference and fuller program than ever before. The plenary lectures are general PI visions and try to level all attendees on the state-of-the-art. At least nine different topics - and mainly research directions - could be generated in advance and match the contributions by our authors. Complemented by activities for start-ups, research and funding as well as showing main impacts from ongoing PI projects, the conference tries to address a great variety of topics but even more so the specific interests of its attendees. With more than 50 scientific contributions submitted, the conference proceedings spearhead PI research and application around the globe. Around 200 attendees from more than 15 nations together with 90 speakers and workshop leaders will discuss the nine different topics in great detail.

All this can only be possible because of the researchers and their ground-breaking work and last but not least because of our generous sponsors and supporters who we would like to highly acknowledge on the following pages. We are deeply grateful to all our sponsors and supporters for this great conference.

Last but not least I want to thank you all once more for coming to Graz and wish you fruitful discussions, valuable insight into topics different from your own and empowering ideas for your daily business to take home with.

Yours sincerely,

Christian Landschützer,
Assoc.Prof. DI Dr.techn. - deputy head of the ITL.

Overview Day 1 (Tuesday, July 04, 2017)

Time	Event
08:30	**Registration and welcome coffee**
	Opening ceremony
10:00	**Plenary: Logistic Challenges of CPG Companies - Point of View of the Consumer Goods Forum** **Keynote speaker: Ruediger Hagedorn** Senior Manager, End-to-End Value Chain & Standards Pillar The Consumer Goods Forum
	Plenary: Sustainability and competitiveness - is the Physical Internet an answer? **Keynote speaker: Benoit Montreuil** Coca-Cola Material Handling & Distribution Chair Professor Georgia Tech
12:15	**Lunch**

	Session 1: **Retail and E-Commerce** **Keynote speaker: Pierre G. Bélanger** Board Member Clear Destination	Session 2: **IT and Digitalization** **Keynote speaker: Andreas Pichler** Head of R&D and Innovation Gebrüder Weiss GmbH	Session 3: **Synchromodality and PI systems** **Keynote speaker: Carlo Borghini** Executive Director Shift2rail
13:15			

Time	Event
16:15	**Austrian coffee with cakes**
16:45	**Plenary: CEOs´ best of**
18:15	**Evening reception** **(presented by Logistics Research Austria - LRA)**
	Knowledge exchange & Poster presentation

Overview Day 2 (Wednesday, July 05, 2017)

Time	Event
08:30	**Morning coffee**
	Opening and greeting address
09:00	**Plenary: Role of Intralogistics in the Physical Internet** **Keynote speaker: Rod Franklin** Adjunct Professor of Logistics Academic Director of Executive Education Kühne Logistics University - KLU
	Second breakfast

	Session 4: **Intralogistics and hub design** **Keynote speaker:** **René de Koster** Professor of Logistics and Operations Management Erasmus University Rotterdam - Rotterdam School of Management - RSM	Session 5: **City logistics** **Keynote speaker:** **Ulrich Mueller-Steinfahrt** Professor for Applied Logistics University of Applied Sciences Wuerzburg-Schweinfurt - FHWS
10:15		

Time	Event
13:15	**Lunch**

	Session 4: **Intralogistics and hub design**	Session 6: **PI activities**	Session 7: **PI fundamentals**
14:30			

Time	Event
16:00	**Session 8: Start-ups & Ventures elevator pitch**
17:30	**Refreshments**
17:45	**Guided walk through Graz - UNESCO World Heritage**
19:00	**GALA event** **@ Alte Universität Graz** 1 Reception City of Graz 3 PI-Visions - Prof. Eric Ballot 2 Reception State of Styria 4 PI Awards Ceremony - powered by KNAPP AG

Overview Day 3 (Thursday, July 06, 2017)

Time	
08:30	**Morning coffee**
09:00	**Plenary: Physical Internet - Challenges and opportunities for a 3PL** **Keynote speaker: Pablo Gomez** Innovation Director and Iberia General Manager FM Logistic
09:45	**Session 9:** **Supply chain and Industry 4.0** **Keynote speaker:** **Michael Henke** Director of the section Enterprise Logistics Fraunhofer Institute for Material Flow and Logistics	**Session 10:** **Distribution networks** **Keynote speaker:** **Kurt Leidinger** CEO and Chairman of the Board Schenker Deutschland AG	**Session 11:** **Horizontal collaboration & modularization** **Keynote speaker:** **Alex Van Breedam** CEO TRI-VIZOR NV
12:45	**Lunch**
13:45	**Session 12:** **Project contribution - Cluster 2.0**	**Session 13:** **Blockchain in logistics**
15:15	**Passion 8000 - dream of a lifetime** **Keynote speaker: Gerlinde Kaltenbrunner**
16:00	**Closing ceremony**
16:30	**Refreshments**

Day 1 (Tuesday, July 04, 2017)

Time	Topic
08:30	**Registration and welcome coffee**
10:00	**Room: HS I** **Opening ceremony:** - Christian Landschuetzer, TU Graz - IPIC 2017 Organizing committee - Harald Kainz, Rector of Graz University of Technology, Austria - Joerg Leichtfried - Federal Minister for Transport, Innovation and Technology, Austria (video message) - Fernando Liesa - ALICE, General Secretary, Belgium
10:45	**Plenary keynote: Logistic Challenges of CPG Companies - Point of View of the Consumer Goods Forum** **Keynote speaker: Ruediger Hagedorn** Senior Manager, End-to-End Value Chain & Standards Pillar The Consumer Goods Forum
11:30	**Plenary keynote: Sustainability and competitiveness - is the Physical Internet an answer?** **Keynote speaker: Benoit Montreuil** Coca-Cola Material Handling & Distribution Chair Professor Georgia Tech
12:15	**Lunch**

Session 1: Retail and E-Commerce

Room: HS I

13:15

Keynote 1: Flow of goods in a future supply chain
Keynote speaker: Pierre G. Bélanger - Board Member, Clear Destination Inc, Canada

13:50

Workshop 1.1: New Opportunities for supply chains in the FMCG sector
Leader: Sergio Barbarino - Research Fellow of Procter & Gamble Research &
Development organization, Chairman of ALICE, Belgium

Contributions:
- Towards Hyperconnected Distribution: the Retail Supply Chain Reengineering;
  Walid Klibi - The Centre of Excellence in Supply Chain (CESIT),
  Kedge Business School, France
- Potentials and key drivers of a cross-company reusable modular secondary
  packaging system in E2E FMCG chains; Yanyan Yang, MINES ParisTech,
  PSL Research University, France

15:05

Workshop 1.2: Interconnected E-Commerce logistics
Leader: Jaco Voorspuij - Senior Manager Transport & Logistics, GS1 Global Office,
Belgium

Contributions:
- GLN standard as a facilitator of physical location identification within
  hyperconnected logistics; Martyna Zdziarska, Institute of Logistics and
  Warehousing (ILiM), Poland
- Smart geocoding for accurate and reliable delivery planning and execution;
  Michael Nutto - Solution Director, PTV Group, Germany
- Delivering transport flexibility in Last Mile by harmonising identification and labelling
  of parcels in Last Mile; Jaco Voorspuij - Senior Manager Transport & Logistics,
  GS1 Global office, Belgium

Session 2: IT and Digitalization

Room: Aula

13:15

Keynote 2: Collaboration in freight transportation - IT and digitalization as an enabler
Keynote speaker: Andreas Pichler - Head of R&D and Innovation,
Gebrüder Weiss GmbH, Austria

13:50

Workshop 2.1: Digital platforms enabling hyperconnected logistics
Leader: Bartosz Piekarz - Head of logistics - engineering, i-LOG Integrated Logistics
GmbH, Schachinger Logistik-Gruppe, Austria

Contributions:
- protoPI - an Austrian project to create a prototype of a regional Physical Internet
  web platform; Hans-Christian Graf - Professor, University of Applied Sciences Upper
  Austria - Logistikum, Austria / Martin Schwaiger - CEO, SATIAMO GmbH, Austria
- eTA: Digital platform for interconnected truck freight transport; Gözde Aydin -
  Project Manager, Borusan Logistics , Turkey
- SELIS digital platform for next generation logistics applications;
  Nikos Tsampieris - Project and Dissemination Manager,
  SELIS Project / Pat O'Sullivan   - Technical Coordinator, SELIS Project

15:05

Workshop 2.2: Open protocols and interconnection models enabling
hyperconnected logistics
Leader: Eric Ballot; MINES ParisTech, PSL Research University, France

Contributions:
- Applying blockchain technology for hyperconnected logistics; Wout Hofman -
  Senior Research Scientist, TNO, The Netherlands
- Towards the Physical Internet with Coloured Petri Nets; Davide Giglio, DIME,
  University of Genova, Italy
- NOLI, A Proposal for an Open Logistics Interconnection Reference Model for a
  Physical Internet; Nakechbandi Moustafa, Université du Havre, France

Session 3: Synchromodality and PI systems

Room: HS VIII

13:15

Keynote 3: Rail in the Physical Internet - perspective of the EC for synchromodality
Keynote speaker: Carlo Borghini - Executive Director, Shift2rail, Belgium

13:50

Workshop 3.1: Synchromodality
Leader: Oliver Schauer - Professor, University of Applied Sciences Upper Austria - Logistikum, Austria

Contributions:
- Optimized and flexible railway logistics; Hannes Pichler, INNOFREIGHT Speditions GmbH
- Inducing a new paradigm shift: A different take on Synchromodal transport modelling; Tomas Ambra - Research Group MOBI, Free University of Brussels, Belgium
- Business Models in Physical Internet Systems - Findings from the ATROPINE project; Patrick Brandtner, University of Applied Sciences Upper Austria, Austria

15:05

Workshop 3.2: PI systems
Leader: Oliver Schauer - Professor, University of Applied Sciences Upper Austria - Logistikum, Austria

Contributions:
- PI and its impact on the emission calculation standardization of transport chains - are we there yet?; Verena Charlotte Ehrler - DLR Institute of Transport Research, Germany
- ProKapa: Dynamic capacity management to support the development of Physical Internet's framework conditions; Georg Brunnthaller - Fraunhofer Austria Research GmbH, Austria
- Simulation-Based Optimization in the Field of Physical Internet; Christian Haider - Heuristic and Evolutionary Algorithms Laboratory, Austria

16:15
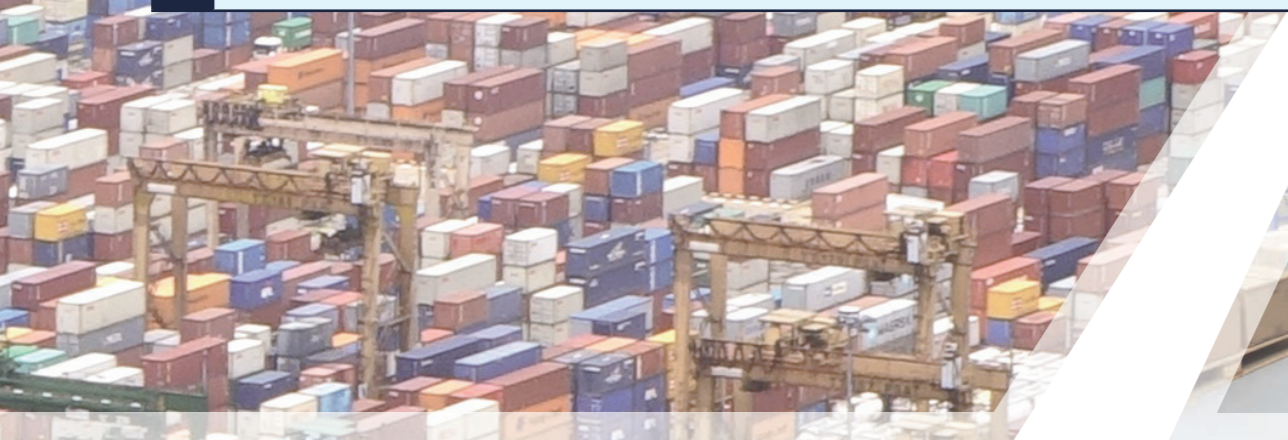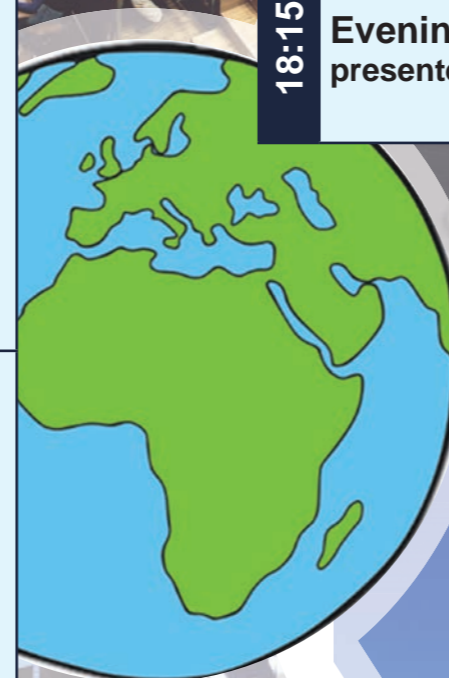
Networking break: Coffee with cakes

Room: Aula

16:45

CEOs´ best of
Moderator: Christian Landschuetzer - Institute of Logistics Engineering, Graz University of Technology, Austria
Speaker:
- Gerald Hofer, CEO - KNAPP AG, Austria
- Vincent Kwaks, CTO - VANDERLANDE INDUSTRIES B.V, The Netherlands

18:15

Evening reception and poster session
presented by: Logistics Research Austria - LRA

Day 2 (Wednesday, July 05, 2017)

	Topic

08:30 Morning coffee

Room: HS I

Opening and greeting address
- Hannes Hick, Head of the Institute of Logistics Engineering, TU Graz, Austria

09:00 Plenary keynote: Role of Intralogistics in the Physical Internet
Keynote speaker: Rod Franklin
Adjunct Professor of Logistics
Academic Director of Executive Education
Kühne Logistics University - KLU, Germany

09:45 Second breakfast

Session 4: Intralogistics and hub design

Room: HS I

10:15 Keynote 4: Warehousing 4.0 – Technologies enabling the PI
Keynote speaker: René de Koster - Professor of Logistics and Operations
Management, Erasmus University Rotterdam -
Rotterdam School of Management - RSM, The Netherlands

10:50 Workshop 4.1: Technology in Physical Internet hubs
Leader: Markus Winkler - Head of Advanced Technology Development,
TGW Logistics Group GmbH, Austria

Contributions:
- A Collective Intelligence Approach for the Composite PI-Containers Management;
Nicolas Krommenacker - Université de Lorraine, Vandoeuvre-lès-Nancy Cedex,
France
- The Cargo Carousel System (CCS); Glen Mullenhand - President,
MUNHOLLAND BUSINESS SERVICES LTD., Canada

12:05 Workshop 4.2: Modularization in warehouses
Leader: Roman Schnabl - Director Product Management, KNAPP AG, Austria

Contributions:
- Linked, self-steering logistics based on CPS; Julian Popp - Academic staff,
Institut für Fördertechnik und Logistik - IFT / Universität Stuttgart, Germany

Session 5: City logistics

Room: Aula

10:15 Keynote 5: Urban logistic - European city logistic landscape and possibilities for
common grounds for the Physical Internet
Keynote speaker: Ulrich Mueller-Steinfahrt -University of Applied Sciences
Wuerzburg-Schweinfurt - FHWS Professor for applied logistics
Department of Economics and Business Administration - Institute
for applied logistics - IAL, Germany

10:50 Workshop 5.1: Collaborative used city hubs
Leader: Paola Cossu - CEO and Shareholder, FIT Consulting srl, Italy

Contributions:
- Developing Public-Private cooperation in open Smart City Hubs in Europe;
Birgit Hendriks - CSP, Eco2city, The Netherlands
- Collaborative City Logistics in hyperconnected delivery networks;
Roland Frindik - Managing Director, MARLO Consultants GmbH, Germany
- ALICE key results in city logistics, Paola Cossu; CEO and Shareholder,
FIT Consulting srl, Itlay

12:05 Workshop 5.2: Hyperconnected last mile distribution
Leader: Dario Biggi - Chief Innovation Officer, Fondazione proPosta, Itlay

Contributions:
- Pipe§Net Technology and the Physical Internet; Horst Treiblmaier, Full Professor
and head of the Department of International Management, MODUL University, Austria
- Bukoli, a convenient user driven "delivery model"; Gözde Aydin - Project Manager,
Borusan Logistics , Turkey

13:15 Lunch

Session 4: Intralogistics and hub design

Room: HS I

14:30

Workshop 4.3: PI readiness of warehouse technology
Leader: Max Winkler - Vice President Solutions & Technology,
SSI SCHÄFER Automation GmbH, Austria

Contributions:
- Wearable solutions for efficient manual logistics processes - RFID Wristband and
  Smart-Glasses; Olaf Poenicke, Fraunhofer IFF, Germany

15:05

Workshop 4.4: PI and airport logistics
Leader: Vincent Kwaks - CTO, VANDERLANDE INDUSTRIES B.V,
The Netherlands

Contributions:
- RTI-Capabilities of Air Cargo Transport Chains by evaluating processing interfaces
  and actor's responsibilities; Andreas Romstorfer - Researcher and Consultant,
  arp-planning.consulting.research, Austria
- A Survey of Freight Transportation Service Procurement Mechanisms; Shenle
  Pan, MINES ParisTech, PSL Research University, France

Session 6: PI activities

Room: Aula

14:30

Keynote 6: The Austrian approach in supporting a sustainable transport system by
RTI funding activities
Keynote speaker: Sarah Bittner-Krautsack - Programme Officer in the Department
for Mobility and Transport Technologies, Austrian Federal
Ministry of Transport, Innovation and Technology, Austria

14:50

Workshop 6.1: Funding programs to support the Physical Internet (PI)
Leader: Fernando Liesa - Secretary General, ALICE - General Secretary, Belgium

Contributions:
- The Horizon 2020 approach on cooperative Research and Innovation -
  An outlook; Maria-Cristina Marolda - Policy Officer, European Commission (EC) -
  DG MOVE, Belgium
- Close-to-market support activities under the European Clean Transport Facility;
  Valerio Recagno, D'Appolonia Belgium NV, Belgium
- Results from the Era-net Transport call on Sustainable Logistics and Supply Chains;
  Bas van Bree - Program Manager, TKI DINALOG, The Netherlands
- Experiences from a research partner in transnational R&D cooperation within
  Era-net Transport - Manfred Gronalt - Head of Institute of Production and Logistics,
  University of Natural Resources and Life Sciences, Austria

Session 7: PI fundamentals

Room: HS VIII

14:30

Leader: Rod Franklin - Adjunct Professor of Logistics, Academic Director of Executive
Education, Kühne Logistics University – KLU, Germany

Contributions:
- Jon Sleeman - Director - UK Logistics & Industrial Research, JLL, United Kingdom
- PI and Ports (PI&P): A Conceptual Framework and Future Development Paths;
  Patrick Fahim - PhD Candidate, Section of Transport & Logistics,
  Faculty of Technology, Policy and Management, Delft University, The Netherlands
- A Multi Simulation approach to develop Physical Internet; David Ciprés - Technican,
  ITAINNOVA - Technological Institute of Aragon, Spain

Session 8: Start-ups & ventures elevator pitch

Room: Aula

16:00

Session 8: Start-ups & ventures elevator pitch
Leader: Fernando Liesa - Secretary General, ALICE - General Secretary, Belgium

Contributions:
- Clear Destination / Ship2Home; Christian Lafrance - CEO
- Convertible Trailer Concepts; Bill Pawluk - CEO
- MARLO (Mix Move Match); Nuno Bento - CTO
- RIDDLE&CODE GmbH; Tom Fuerstner - Founder & CTO
- SHIPITWISE; Ragmar Saksing - Co-Founder & CTO
- Smart Modular Lockers Services (SMLS) terminals; Clinton Liu - Founder
- STOCKBOOKING; Nikolina Apostolova-Riehl - General Manager (TBC)

17:30 **Refreshments**

17:45 **Guided walk through Graz - UNESCO World Heritage**

19:00

GALA event
@ Alte Universität Graz

- Reception City of Graz: Frau Gemeinderätin Univ.-Prof. Dr. Daisy Kopera
- Reception State of Styria: Frau LAbg. Assoz. Prof.in Priv.-Doz.in Mag.a Dr.in rer.nat Sandra Holasek
- Keynote: PI-Visions; Prof. Eric Ballot - Professor of Supply Chain and Logistics, Scientific Director of the Physical Internet Chair, Director Centre de Gestion Scientifique, Mines ParisTech - PSL, France
- PI Awards Ceremony - powered by KNAPP AG

Day 3 (Thursday, July 06, 2017)

Topic

08:30 **Morning coffee**

Room: HS I

09:00
Plenary keynote: Challenges and opportunities for a 3PL
Keynote speaker: Pablo Gomez
Innovation Director and Iberia General Manager
FM Logistics

Session 9: Supply chain and Industry 4.0

Room: VIII

09:45
Keynote 9: How to successfully manage Industry 4.0 along the supply chain and what it will mean for the industry by 2035
Keynote speaker: Prof. Michael Henke - Director of the section Enterprise Logistics, Fraunhofer Institute for Material Flow and Logistics, Germany

10:20
Workshop 9.1: Hyperconnected SC in different industries
Leader: Martin Tschandl - Professor and head of department for Industrial Management, FH Johanneum, Austria

Contributions:
- Towards Hyperconnected Resource Requirements Planning; Raphaël OGER - Ph.D. Candidate, Industrial Engineering Center, Mines Albi, Toulouse University, France
- Lean thinking to foster the transition of the traditional logistics towards the Physical Internet; Luis López- Molina - Professor; Universidad de Cádiz, Spain
- Hyper-connected Modular Renewable Energy Production; Suzanne Marcotte - Professeure, Department of Management & Technology, Université du Québec à Montréal, Canada / Changliang Liu - Founder & CEO, McGili, Canada
- Industry 4.0 and IoT: enabling technologies and approach for fast and efficient door to door supply chain; Simone Siria - Analyst and Consultant, Log@Sea – Circle srl, Italy

Session 10: Distribution networks

Room: Aula

09:45

Keynote 10: Hyperconnected distribution - Solutions towards sustainable networks
Keynote speaker: Kurt Leidinger - CEO and Chairman of the Board, Schenker Deutschland AG, Germany

10:20

Workshop 10.1: PI Hubs and networks
Leader: Chiara Lepori - R&D Coordinator, Interporto Bologna Group, Itlay

Contributions:
- Optimal ordering and transporting of inventory in small PI-networks; Gerlach Van der Heide - Postdoctoral Researcher, University of Groningen, The Netherlands
- Simulation-based Assessment of Hyperconnected Distribution Center Capacity Requirements and Service Capabilities; Nayeon Kim - Phd student, Georgia University of Technology, USA
- A Simulation Based Study of the Effect of Competition on the Operations of Hyperconnected Crossdocking Hubs; Shannon Buckley - Graduate Student Researcher, Georgia University of Technology, USA
- Towards hyperconnected PI-Hubs – linking supply chain operations; Tomasz Dowgielewicz - Managing Director, Marlo Poland, Poland

11:35

Workshop 10.2: Project contribution: CORE - Data sharing for seamless trade flows
Leader: Nik Delmeire - Secr. General, European Shippers' Council -ESC, Belgium

Contributions:
- Introduction to CORE and CORE video; Nik Delmeire - Secr. General, European Shippers' Council -ESC, Belgium
- Data sharing concepts for supply chain visibility; Wout Hofman - Senior Research Scientist, TNO, The Netherlands
- Data sharing with community nodes; Antonis Mygiakis - Technical Manager, CLMS (UK) Limited, Greece
- Secure and resilient supply chains based on visibility; Sergio Barbarino - Research Fellow of Procter & Gamble Research & Development organization, Belgium

Session 11: Horizontal collaboration and modularization

Room: HS I

09:45

Keynote 11: Horizontal collaboration - possibilities and roadblocks
Keynote speaker: Bart Vannieuwenhuyse - Partner, TRI-VIZOR NV, Belgium

10:20

Workshop 11.1: Horizontal collaboration
Leader: Dirk`t Hooft - Senior Advisor Logistics Collaboration, Argusi, The Netherlands

Contributions:
- Synchronization of intermodal freight shipments in the sharing economy; Joren Gijsbrechts - KU Leuven, Belgium
- Facilitating Horizontal Collaboration in Transportation; Maria Jesus Saenz - Director, Zaragoza Logistics Center, Spain
- Microzoning: A grid based approach to facilitate Last-Mile delivery; Boukje Schellens - Analyst, Argusi, The Netherlands

Workshop 11.2: Modularization for the PI
Leader: Maximo Martinez Avila - Global Transportation BPX Platform Manager, Procter & Gamble, Belgium

11:35

Contributions:
- Physical Internet Handling Containers as Pickup & Delivery Lockers; Louis Faugere - Doctoral Researcher, Georgia University of Technology, USA
- Transport and packaging optimization using a three-tier modular encapsulation; Sihem Ben Jouida - Post doc, The Centre of Excellence in Supply Chain (CESIT), Kedge Business School, France
- Modular Solutions for Mobile Hospitals; Grainne Lynch - Vice President (elect), Chartered Institute of Logistics and Transport and Lynchpin Innovation, Ireland

12:45

Lunch

Session 12: Project contribution - Cluster 2.0

Room: Aula

13:45

Leader: Marcel Huschebeck - Manager Logistics Research, PTV Group, Germany

Contributions:
- Introduction of Clusters 2.0; Dirk`t Hooft - Senior Advisor Logistics Collaboration, Argusi, The Netherlands
- CargoStream; Marc Verelst - Commercial Engineer, Procter & Gamble, Belgium
- Connecting flows between European Clusters; Frans Cruijssen - Partner, Argusi, The Netherlands
- Rail massification: challenges and opportunities for Physical Internet; Elvina Nowak - Chargée de mission partenariats et projets européens, Euralogistic, France

Session 13: Blockchain in logistics

Room: HS I

13:45

Workshop 13.1: Beyond the hype: what blockchain really brings to transport & logistics
Leader: Ignacio López del Moral - Digital Regulation Tech Responsible, EVERIS and Roberto Fernández Hergueta - Head of Emerging Digital Business, EVERIS

Contributions:
- Blockchain Regulation: Is Europe Getting It Right?
- Our experience: Tokio Marine & Nichido Fire Insurance.
- Lyra Network: Spain's first multisectoral consortium.

15:15

Passion 8000 - dream of a lifetime
Keynote speaker: Gerlinde Kaltenbrunner

Room: Aula

16:00

Closing ceremony

16:30

Refreshments

NOTES: