Ontology Commons addressing challenges of the Industry 5.0 transition

Standardised data documentation and data sharing valorisation to foster data-driven innovation

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Agenda

2 November 2021

	Time	Sessions			
Plenary	10:00 - 10:15	Welcome	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	10:15 - 10:50	International initiatives on Applied Ontologies			
Plenary	10:50 - 11:25		Laure Vieu (President of the IAOA, Toulouse, France)		
Plenary	11:25 - 11:30				
	11:30 - 11:45	Break 1			
		Room 1		**Room 2**	
1st break out		**Industry common translator**	Chair: Gerhard Goldbeck (GCL) Rapporteur: Alex Simperler (GCL)	**Ontology Interoperability**	Chair: Nicola Guarino (CNR)
1st break out	11:45 - 11:55	Translation in Materials Modelling: role and impact		Semantic Interoperability	Till Mossakowski
1st break out	11:55 - 12:00	Q&A		Q&A	
1st break out	12:00 - 12:10	Analytics Translation	Katya Vladislaveva (DataStories)	Syntactic Interoperability	Jerome Euzenat
1st break out	12:10 - 12:15	Q&A		Q&A	
1st break out	12:15 - 12:25	Knowledge engineering translation experiences	Nicolas Matentzoglu (Independent Contractor)	Conceptual Interoperability	Claudio Masolo
1st break out	12:25 - 12:30	Q&A		Q&A	
1st break out	12:30 - 13:15	Discussions	Chair: Gerhard Goldbeck (GCL)	Discussions	Chair: Nicola Guarino (CNR)
	13:15 - 14:15	Lunch Break			
2nd break out		**Enabling intra-ontology interoperability through shared terminology**	Chair: Silvana Muscella (Trust-IT Services) Rapporteur: Dimitris Kiritsis (University of Oslo)	**Ontology Interoperability**	Chair: Hedi Karray (ENIT)
2nd break out	14:15 - 14:25	Ontology Standards in ISO	Barry Smith (Director, National Center for Ontological Research)	Experience of ontology stratification strategy and Issues with TLO alignment in IOF	Will Sobel (MTConnect)
2nd break out	14:25 - 14:30	Q&A		Q&A	
2nd break out	14:30 - 14:40	Improving the efficiency and effectiveness of systems integration and interoperability	Bonnserm Kulvatunyou (National Institute of Standards and Technology)	The EMMO Structure and Perspectives	Emanuele Ghedini (EMMO)
2nd break out	14:40 - 14:45	Q&A		Q&A	
2nd break out	14:45 - 14:55	Standardisation in the IoT domain	Ulrike Parson (Parson Europe - iiRDS)		
2nd break out	14:55 - 15:00	Q&A		Q&A	
2nd break out	15:00 - 15:10	Ontology Standards in Industry 5.0	Steffen Lamparter (Siemens)	Discussions	Chair: Hedi Karray (ENIT)
2nd break out	15:10 - 15:15	Q&A			
2nd break out	15:15 - 15:45	Discussions	Chair: Silvana Muscella (Trust-IT Services)		
	15:45 - 16:00	Break 2			
Plenary	16:00 - 16:25	International initiatives on Applied Ontologies	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	16:25 - 16:30				

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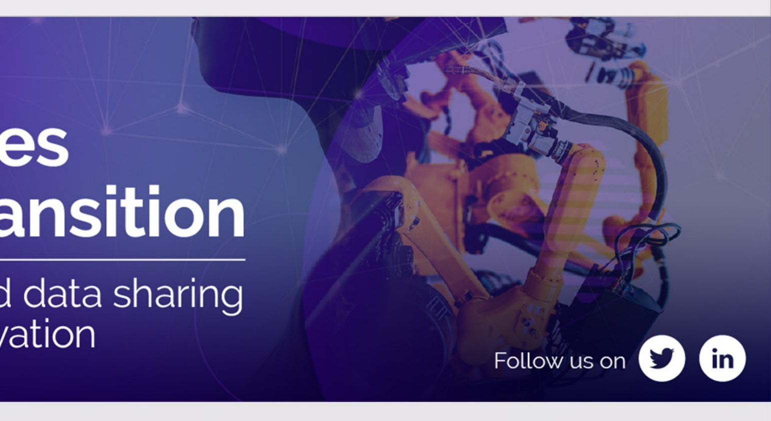

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3 November 2021

	Time	Sessions			
Plenary	10:00 - 10:05	Welcome	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	10:05 - 10:50		Javier Sanfelix, EC		
Plenary	10:50 - 11:25	Ontology Ecosystem Toolkit	Valentina Presutti (University of Bologna, Italy)		
Plenary	11:25 - 11:30				
	11:30 - 11:45	Break 1			
		Room 1		**Room 2**	
1st break out		**Establishing a Knowledge Exchange Space**	Chair: Yann Le Franc Rapporteur:	**User Experience on Ontology Engineering Tools**	Chair: Maria Poveda (UPM) Rapporteur:
1st break out	11:45 - 11:55	Presentation of KeXs	Yann Le Franc	HCI for ontologies	Enrico Motta
1st break out	11:55 - 12:00	Q&A		Q&A	
1st break out	12:00 - 12:10	FAIR Principles: An Introduction	Barend Mons (GOFair)		Soren Auer
1st break out	12:10 - 12:15	Q&A		Q&A	
1st break out	12:15 - 12:25	Overview of EOSC	Karel Luyben (EOSC Association)	UX aspects of Protégé	Matthiew Horridge
1st break out	12:25 - 12:30	Q&A		Q&A	
1st break out	12:30 - 12:40	Overview of RDA	Hilary Hanahoe (RDA)	Information Modelling Framework	Arild Waaler
1st break out	12:40 - 12:45	Q&A			
1st break out	12:45 - 13:15	Discussions	Chair: Gerhard Goldbeck (GCL)	Discussions	Chair: Maria Poveda (UPM)
	13:15 - 14:15	Lunch break			
2nd break out		**Ontology-based digital marketplaces for Industry Commons**	Chair: Ebrahim Norouzi (Fraunhofer) Rapporteur: Ebrahim Norouzi (Fraunhofer)	**Ontology adoption**	Chair: John Breslin (NUI Galway) Rapporteur:
2nd break out	14:15 - 14:25	EC vision and recommendations	Laszlo Hetey (HaDEA)	Ontology adoption in the aircraft industry	Gianmaria Bullegas (Perpetual labs)
2nd break out	14:25 - 14:30	Q&A		Q&A	
2nd break out	14:30 - 14:50	Experiences of marketplace projects	Marketplace, VIMMP, Market 4.0, Weldgalaxy speakers (5 minutes each)	Adoption of GoodRelations	Martin Hepp (Universität der Bundeswehr Munich)
2nd break out	14:50 - 14:55	Q&A		Q&A	
2nd break out	14:55 - 15:05	DOME 4.0 requirements	Amit Bhave (CMCL, UK)	OntoPortal for adoption	Clement Jonquet (LIRMM)
2nd break out	15:05 - 15:10	Q&A		Q&A	
2nd break out	15:10 - 15:20	Marketplaces interoperability demonstrator	Silvia Chiacchiera (UKRI)	Discussions	Chair: John Breslin (NUI Galway)
2nd break out	15:20 - 15:25	Q&A			
2nd break out	15:25 - 15:45	Discussions	Chair: Ebrahim Norouzi (Fraunhofer)		
	15:45 - 16:00	Break 2			
Plenary	16:00 - 16:25	Session Summary	Hedi Karray, ENIT		
Plenary	16:25 - 16:30				

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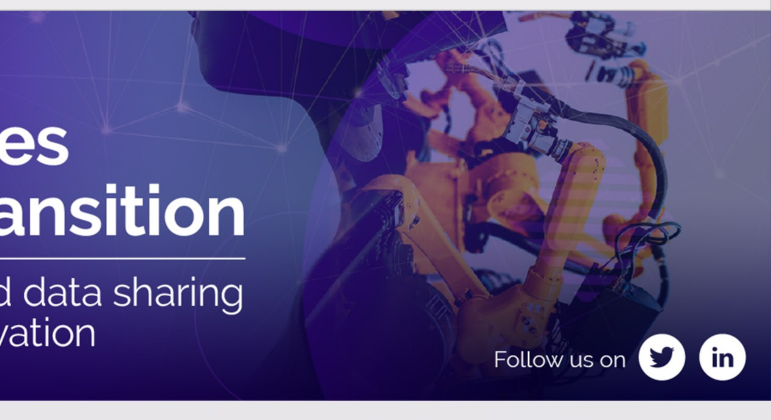

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4 November 2021

	Time	Sessions			
Plenary	10:00 - 10:05	Welcome	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	10:05 - 10:40	Thematic Partner	Elisa F. Kendall (Thematic Partner, LLC)		
Plenary	10:40 - 11:15	Setting Expectations and Measuring Impact			
Plenary	11:15 - 11:20				
Plenary	11:20 - 11:25				
	11:25 - 11:45	Break 1			
		Room 1		**Room 2**	
1st break out		**Session on FAIR Technology Adotion in Demonstrators**	Chair: Umutcan Simsek (University of Innsbruck)	**Ontology Engineering in Material Science**	Chair: Martin Horsch Rapporteur: Gerhard Goldbeck (GCL)
1st break out	11:45 - 11:55	Q&A	Eric Schultes (GOFAIR Foundation)	FAIRness in Material Ontology	Alexandru Todor (Fraunhofer)
1st break out	11:55 - 12:00			Q&A	Soren Auer
1st break out	12:00 - 12:10	Showcasing good FAIR adoption in a demonstrator		Requirements and development of an interoperable (domain) ontologies: example of batteries	Simon Clark (SINTEF)
1st break out	12:10 - 12:15	Q&A		Q&A	
1st break out	12:15 - 12:25	Showcasing best practices from other projects			Norbert Kockmann (TU Dortmund)
1st break out	12:25 - 12:30	Q&A		Q&A	
1st break out	12:30 - 13:15	Discussions	Chair: Umutcan Simsek (University of Innsbruck)	Discussions	Chair: Martin Horsch
	13:15 - 14:15	Lunch break			
2nd break out		**OntoCommons Demonstrators**	Chair: Rapporteur:	**Industrial Engineering**	Chair: Stefano Borgo (STC-CNR Laboratory for Applied Ontology,) Rapporteur: Emilio M. Sanfilippo and Arkopaul Sarkar
2nd break out	14:15 - 14:25	Measuring the impact of industrial ontology application	Evgeny Kharlamov (BOSCH)	How to use competency questions in ontology requirement analysis?	Michael Grüninger (University of Toronto)
2nd break out	14:25 - 14:30	Q&A		Q&A	
2nd break out	14:30 - 14:40	How do we benefit from OntoCommons?	Sebastian Scholze (ATB)	Ontologies for manufacturing	Walter Terkaj (STIIMA-CNR)
2nd break out	14:40 - 14:45	Q&A		Q&A	
2nd break out	14:45 - 14:55	Joining the OntoConmmons Project - setting expectations	Amit Bhave (CMCL, UK)	Experience with SAREF for Industry	Mauro Dragoni (FBK)
2nd break out	14:55 - 15:00	Q&A		Q&A	
2nd break out	15:00 - 15:45	Discussions		Discussions	Chair: Stefano Borgo (STC-CNR Laboratory for Applied Ontology,)
	15:45 - 16:00	Break 2			
Plenary	16:00 - 16:25	Session Summary	Hedi Karray, ENIT		
Plenary	16:25 - 16:30				

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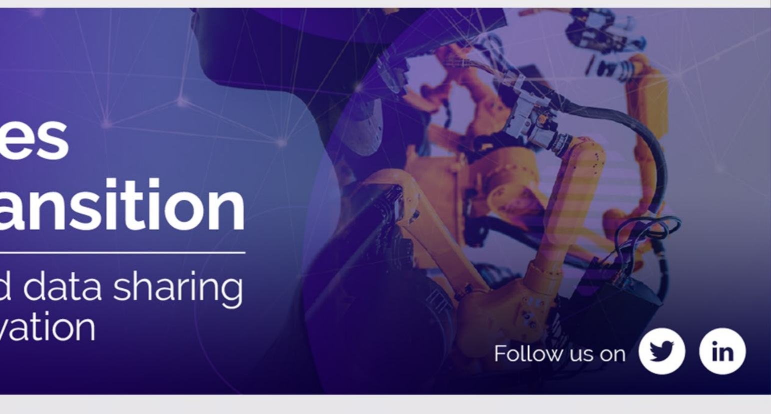

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5 November 2021

	Time	Sessions			
Plenary	10:00 - 10:05	Welcome	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	10:05 - 10:50	Innovation and Sustainability	Katariina Nyberg Kari		
	10:50 - 11:05	Break 1			
		Room 1		**Room 2**	
1st break out		**Innovative Use Cases for Innovative Ontology Applications**	Chair: Michela Magas (ICF, OntoCommons) Rapporteur: Silvana Muscella (Trust-IT Services)	**Domain Ontology for manufacturing and supply chain**	Chair: Dimitris Kiritsis (EPFL) Rapporteur: Arkopaul Sarkar and Emilio M. Sanfilippo
1st break out	11:05 - 11:15	Moderated discussion	Michela Magas (ICF, OntoCommons)	Ontology engineering for Industrial Maintenance	Melinda Hodkiewicz (University of Western Australia)
1st break out	11:15 - 11:20	Volvo electric cars	Fredrik Folkestad (Folkestad Sino-Skandinavien)	Q&A	
1st break out	11:20 - 11:30	Closed loop retail management	Celine Xu (Data Science Competence Lead at H&M)	Systems Engineering as the foundation for industrial domain ontologies	Jinzhi Lu (EPFL)
1st break out	11:30 - 11:35	Accessibility	Tim Yates (Research & Development Programme Leader)	Q&A	
1st break out	11:35 - 11:45	Lead Ontologist Inter-IKEA Systems (IKEA Global)	Katariina Nyberg Kari	Ontology engineering for supply chain, procurement, and logistics	Farhad Ameri (Texas State University)
1st break out	11:45 - 11:50			Q&A	
1st break out	11:50 - 12:35			Discussions	Chair: Dimitris Kiritsis (EPFL)
Plenary	12:35 - 12:50	Session Summary	Nadja Adamovic, TU-WIEN, Project Coordinator		
Plenary	12:50 - 12:55				
Plenary	12:55 - 13:30	Discussions			