





SSoLDAC - 2nd Summer School on Linked Data in Architecture and Construction

María Poveda-Villalón, Pieter Pauwels, Raúl García-Castro, Dimitrios Rovas, James O'Donnell

Opening session















LDAC Track

- LDAC2012, Ghent
- ► LDAC2014, Helsinki
- ► LDAC2015, Eindhoven
- ► LDAC2016, Madrid
- ► LDAC2017, Dijon
- ► LDAC2018, London
- ► LDAC2019, Lisbon
- ► LDAC2020, Dublin
- LDAC2021, Luxembourg
- ► LDAC2022, Greece
- ► LDAC2023, Italy







LDAC 2015, Eindhoven



LDAC 2014, Helsinki



LDAC 2012, Ghent

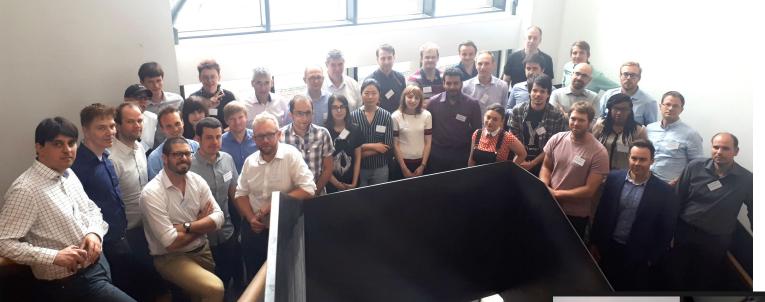


LDAC 2017, Dijon

LDAC 2016, Madrid

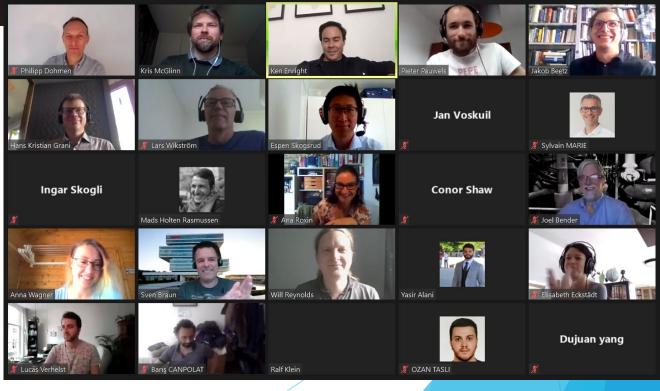






LDAC 2019, Lisbon





LDAC Summer School

1st edition at Lisbon 2019

	Monday, 17 June	Tuesday, 18 June		
09:00	Opening	Administration and Recap of Day 1		
10:00	Linked Data and the Semantic Web: Basics	Triple Stores: Introduction		
		Coffee & Discussions		
11:00	Coffee & <u>Discussions</u>	Geometry	Coding with Linked Data:	
		*	Jena	
12:00	Ontology Development	Coding with Linked Data: NodeRED	Coding with Linked Data: RDFlib	
13:00	Lunch	Lunch		
14:00	Introduction to Querying Linked Data	Geospatial	Linked Building Product Data	
15:00	Coffee & <u>Discussions</u>	Hackathon		
16:00	Linked Building Data: Examples & Tools			
17:00	Kickoff Coding Challenge			
18:00	Hackathon on Coding Challenge			
19:00				

LECTURERS



Jakob Beetz (RWTH Aachen)



Georg Ferdinand Schneider
(Fraunhofer IBP)



Anna Wagner
(Technische Universität Darmstadt)



Pieter Pauwels
(Ghent University)



Mads Rasmussen (NIRAS)



Kris McGlinn
(Trinity College Dublin)



María Poveda(Universidad Politécnica de Madrid)



Walter Terkaj (CNR-STIIMA)



Mathias Bonduel (KU Leuven)



SSoLDAC22

SALÓN DE ACTOS

	Monday 6 june	Tuesday 7	Wednesday 8	Thursday 9		
9:00 - 9:30		Introduction				Hack
9:30 - 10:30		Hackathon presentation and team formation	Keynote: Mads Holten Rasmussen	Keynote: Dimitrios Ro	vas	Паск
10:30 - 11:00		Coffee	Coffee	Coffee		
11:00 - 13:00		Lesson: Linked Data foundations, RDF and SPARQL	Lesson: Ontologies	Lesson: Generation a linking	nd	Hack
		Pieter Pauwels	María Poveda Villalón	Andrea Cimmino		
13:00 - 14:30		Lunch	Lunch	Lunch		
14:30 - 16:30		Lesson: Publication and use Jakob Beetz	Hackathon: development	Hackathon: developm	ent	
16:30 - 17:00		Coffee	Coffee	Coffee		
17:00 - 19:00	Registration	Hackathon: development	Hackathon: development	Social activity:		IAC CLAS
19:00 - 20:00	(17:00 - 20:30)	Social activity: hike	Social activity	Trip to Segovia		NIC
20:00 - 20:30						NC
20:30			Dinner			

Friday 10

Hackathon: development

Coffee

Hackathon: presentations

Lunch

Closing

HACKATHON DEVELOPMENT:

CLASSROOM 1, CLASROOM 2, PORCH, DINING ROOM

NOT IN THE LIVING ROOM!

SSoLDAC22 - Statements

- Emphasis on intensive student-student and studentgroup interaction
 - ► Hence limited number of places (30 students)
 - Focus on specific topics
 - Characteristics of chosen location also facilitates intensive interaction
- Intensive academic sessions followed by intensive social programme
- Community building also an explicit goal



SSoLDAC22 - Keynotes



Mads Holten Rasmussen (NIRAS)





Dimitrios Rovas (University College London)

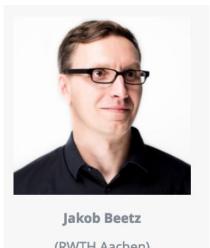




SSoLDAC22 - Lecturers



Pieter Pauwels (Eindhoven University of Technology)



(RWTH Aachen)

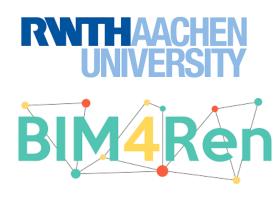


María Poveda (Universidad Politécnica de Madrid)



Andrea Cimmino (Universidad Politécnica de Madrid)















SSoLDAC22 - Hackathon supporter



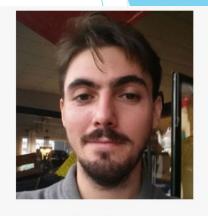
Cathal Hoare(University College Dublin)



Jeroen Werbrouck
(Ghent University)



Pieter Pauwels
(Eindhoven University of Technology)



Andrea Cimmino(Universidad Politécnica de Madrid)











SSoLDAC22 - Organizers









María Poveda Villalón
(Director)
Universidad Politécnica de Madrid



Pieter Pauwels
(Co-Director)
Eindhoven University of Technology



Raúl García-Castro
(Local Organizer)
Universidad Politécnica de Madrid







Dimitrios Rovas
(Hackaton Organizer)
University College London



James O'Donnell
(Hackaton Organizer)
University College Dublin (UCD)





SSoLDAC22 - Local Organizers

Laura Camacho













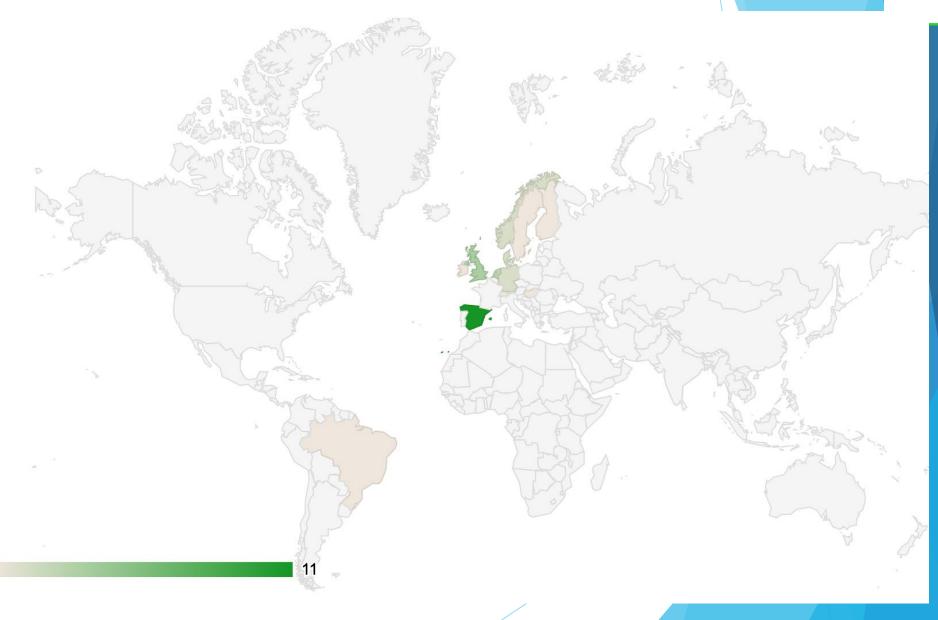
SSoLDAC22 – The key component



Participants

Brazil Denmark Finland Germany Hungary Ireland Luxembourg Netherlands Norway Spain Sweden Switzerland **United Kingdom**

BIMERR



Participants

consultants digitalization

business development

digital consultants

research scientists

project manager

department of project-

building information phd students

doctoral researchers

innovation manager

students researchers software engine

bim researchers

ucd

university of science

trimble solutions ov digital twin association

loughborough university

university college dublin

budapest university

technische universität berlin

project management

university of stuttgart

brick+data ltd.

ontological engineering group

aec3 uk limited

fraunhofer institute

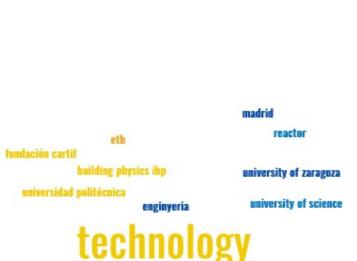
building digital twin

norwegian university

university of luxembourg

university of technology





SSoLDAC22 - Sponsors











SSoLDAC22 – Diamond Sponsors



AEC3 is an international consulting company in the field of process optimisation in the building industry. For more than ten years we have been specialized in the support of planning and construction processes by integrated, model based IT solutions - today known as Building Information Modeling (BIM).

One of the independent companies operate under the roof of Ltd. is **AEC3 UK** managed by Nicholas Nisbet



SSoLDAC22 – Diamond Sponsors



BDTA is a non-profit association with the mission of Developing an Open & Trustworthy Techno-economic Ecosystem to advance towards full implementation of Building Digital Twin Environments across all the stakeholders and lifecycles of AECOO (Architecture, Engineering, Construction, Owner & Operator) Smart and Connected Real State and Infrastructure Assets, including occupants, through professional development and community.

Located in Antwerp (Belgium), the BDTA was founded under the umbrella of the Horizon 2020 project SPHERE, funded by the European Union's H2020 programme under Grant Agreement No. 820805). The BDTA envisions the coordination of a multicriteria efficient decision-taking across all AECOO stakeholders by digitally duplicating building stock to support the Green Deal Transition in EU and the rest of the world.



SSoLDAC22 - Gold Sponsors



Centros de Referência em Tecnologias Inovadoras

CERTI is a technologically-based institution that since 1984 whose purpose is to "contribute in an important manner to the competitiveness of companies and the sustainable development of Brazil, by helping to develop a consistent and dynamic ecosystem of innovation, technology, and entrepreneurship."

CERTI, having accumulated years of experience in entrepreneurship, design, and manufacturing of hardware and software has been guided by the concepts of quality, agility, innovation, responsibility and providing value to constantly dedicate itself to innovation and R&D.



SSoLDAC22 - Silver Sponsors



Specialists for digitizing information for the built environment. Whether you are working with BIM, Linked Data, an organization-specific Object Type Library (OTL), checking large data sets, unlocking real-time management information or linking systems, we are happy to help you. With knowledge of information technology and experience with large, extensive projects and organizations in the construction, infrastructure and energy industries, we are skilled in guiding the organizational challenge and exploiting the potential value of good data management. What do you want to achieve with your data? Be inspired to get more out of your applications and data. From data to wisdom, making data valuable!



SSoLDAC22 - Silver Sponsors

= neanex

Neanex is a tech company specialized in information technology for the urban environment. We developed a powerful web-application the Neanex Portal, as a Digital Twin Register to enable data driven asset insights for all stakeholders in the built environment. Neanex believes data driven asset insights today, enables our sustainable built environment of tomorrow.

As the built industry is responsible for more than 40% of Co2 Emission, digitalisation will be the enabler to move the industry to be more social, ecological and economical, resilient and reliable. Neanex solution creates the bridge between engineering, design, construction and operations. As we combine data from different sources throughout the complete asset lifecycle. The tooling is based upon standardisation (Linked Data, W3C, ...) to avoid vendor lock-in and guarantee future proof data management for our users and no dependency from software vendors, partners, and formats our processes.

Neanex was recognized in May 2022 as Key Innovator by the European Commission for its contribution to our latest Europe subsidy project on BIM enabled Digital Twins as enabler for the lowering of Co2 Emission. Neanex is founding partner of the Building Digital Twin Association.

SSoLDAC22 – Student Award Sponsor

Started in 2000 as R&D lab within Sirma Group, a top 3 Bulgarian software company, Ontotext's technology and solutions are spread wide across the value chain of the most knowledge intensive enterprises in Financial Services, Publishing, Healthcare, Pharma, Manufacturing and Public sectors.



GraphDB™

Get the Best RDF Database for Knowledge Graphs

GraphDB allows you to link diverse data, index it for semantic search and enrich it via text analysis to build big knowledge graphs.



Let the SSoLDAC22 begin!

