OpenRiskNet, an open e-infrastructure to support data sharing, knowledge integration and *in silico* analysis and modelling in predictive toxicology and risk assessment



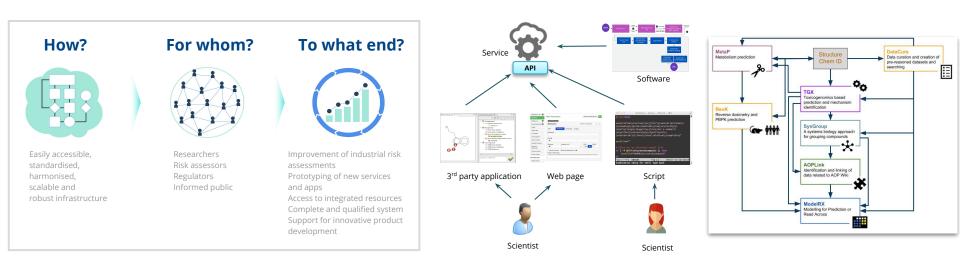
Workshop

 Creating powerful workflows combining data and software services demonstrated on risk assessment case studies

OpenRiskNet

RISK ASSESSMENT E-INFRASTRUCTURE

23 - 24 October 2019, Amsterdam, Netherlands | https://openrisknet.org/



E-infrastructure providing resources and services to a variety of communities requiring risk assessment, including **chemicals, cosmetic ingredients, therapeutic agents and nanomaterials**:

- · Harmonising access to data and facilitating interoperability of software,
- · Easily deployable to single computers, public and in-house cloud solutions,
- Addressing the needs of industry and academic researchers, risk assessors and regulators.



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8:30-9:00	Registration					
9:00-9:10	Welcome and introduction to the workshop	Thomas Exner (Edelweiss Connect, GmbH, Switzerland)				
9:10-9:30	OpenRiskNet Case studies introduction and concept	Paul Jennings (Vrije Universiteit Amsterdam, The Netherlands)				
	OpenRiskNet Case studies (flash presentations):					
9:30-10:30	 DataCure - Thomas Exner (EwC) ModelRX - Philip Doganis (NTUA) 					
8 min /	 TGX - Danyel Jennen (UM) SysGroup - Danyel Jennen (UM) 					
case study	 MetaP - Daan Geerke (VU) AOPLink - Marvin Martens (UM) 					
	• RevK - Philip Doganis (NTUA)					
10:30-11:00	Coffee break (incl. posters viewing)					
	OpenRiskNet demo & training see	ssions				
11:00-12:30	 Workflows: practical example of Jupyter notebooks use. Data curation example. 	Marvin Martens (UM) and Thomas				
11.00 12.00	workflow across multiple case studies	Exner (EwC)				
		Exner (EwC)				
	workflow across multiple case studies	Exner (EwC)				
12:30-13:30	workflow across multiple case studies Lunch break Parallel sessions: Group 1: Deploying Applications (addressed to developers, services providers and	Exner (EwC) Tim Dudgeon (IM)				
	workflow across multiple case studies Lunch break Parallel sessions: Group 1: Deploying Applications (addressed to developers, services providers and infrastructure admins) (Room: 12W24)	Tim Dudgeon (IM) Philip Doganis and Pantelis Karatzas				
12:30-13:30	workflow across multiple case studies Lunch break Parallel sessions: Group 1: Deploying Applications (addressed to developers, services providers and	Tim Dudgeon (IM)				
12:30-13:30 13:30-15:00	workflow across multiple case studies Lunch break Parallel sessions: Group 1: Deploying Applications (addressed to developers, services providers and infrastructure admins) (Room: 12W24) Group 2: Modelling exercise (built around the ModelRX case study, support of the DataCure)	Tim Dudgeon (IM) Philip Doganis and Pantelis Karatzas (NTUA), Denis Gebele (JGU), Tomaž Mohorič (EwC), and Jonathan				
12:30-13:30 13:30-15:00	workflow across multiple case studies Lunch break Parallel sessions: Group 1: Deploying Applications (addressed to developers, services providers and infrastructure admins) (Room: 12W24) Group 2: Modelling exercise (built around the ModelRX case study, support of the DataCure) (addressed to end-users) (Room: 01W08)	Tim Dudgeon (IM) Philip Doganis and Pantelis Karatzas (NTUA), Denis Gebele (JGU), Tomaž Mohorič (EwC), and Jonathan				
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Workshop feedback



https://forms.gle/5rRuxh14CxLVoFUm9

Reference Environment





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ay 2 - 24 Octob	Associated partners sessio	n	EU infrastructures & sustainability session Chair: Stefan Kramer (Johannes Gutenberg University Mainz, Germany)		
Chair: Rex F	FitzGerald (Swiss Centre for Applied Human Toxicol	ogy, University of Basel, Switzerland)			
	Strategy used to build confidence in PROSILICO 's n silico methods for prediction of human clinical Urban Fagerholm (Prosilico, Swede ADME/PK		13:30-14:00	Adoption of OpenRisknet solutions by NanoSafety community and NanoCommons infrastructure 1. Introduction to the European Open Science	Iseult Lynch (University of Birmingham, UK)
9:00-10:45	FAME 3: Predicting the Sites of Metabolism in Small Molecules for Phase 1 and Phase 2 Metabolic Enzymes	Johannes Kirchmair (University of Hamburg, Germany) Lydie Lane (CALIPHO group, SIB Swiss		Cloud (EOSC) (10 min) 2. OpenAIRE: an EOSC implementation project (10 min)	Alessia Bardi (Institute of Science an Technology of Information, CNR, Italy
20 min / presentation	Using SPARQL to explore human protein data in neXtProt and beyond	Institute of Bioinformatics, Switzerland)	14:00-15:00	 einfraCentral: an EOSC implementation project (10 min) 	Bjorn Backeberg (EGI Foundation, The Netherlands) on behalf of Jelena
	ToxicoGx : An R platform for integrated toxicogenomics data analysis	Sisira Kadambat Nair (Princess Margaret Cancer Centre, University Health Network, Toronto, Canada)		 EOSC-hub: an EOSC implementation project (10 min) 	Angelis (EFIS Centre, Belgium)) Bjorn Backeberg (EGI Foundation, The Netherlands)
	US EPA AOP-DB : A database resource for the exploration of Adverse Outcome Pathways	Holly M. Mortensen (US Environmental Protection Agency, Office of Research and Development, USA)		5. Technical demo of cloud and storage services in EOSC (20 min)	n Yin Chen (EGI Foundation, The Netherlands)
10:45-11:15	Coffee break (incl. posters viewing)		15:00-15:30	Coffee break	
11:15-12:00	ToxPlanet : demo, information on API, discussion on use case scenarios	Matt Timberlake (ToxPlanet, USA)	15:30-16:00	Panel discussion: lesson learned and looking ahead to the next steps	
:00-12:15 12:00-12:30	Diamond Light Source: OpenRiskNet's first external Virtual Environment Lessons learned from the associated partner programme	Tim Dudgeon (Informatics Matters Ltd, UK) Thomas Exner (Edelweiss Connect, GmbH, Switzerland)	16:00-16:15	Closing session	
12:30-13:30	Lunch break				

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