Berlin Water Hackathon 2021

// Creating sustainable water systems with open data

Online School & Hackathon

PROGRAMME & CHALLENGE CATALOG

While Berlin might not make international headlines as 'a city on the verge of a water crisis', the German capital – just like many others worldwide – is also predicted to face more and more water related challenges in the near future. Recent years' extreme weather events have already shown us what's at stake. 2017, for instance, recorded the heaviest rainfall event of the last 110 years, with about a quarter of the normal annual rainfall volume falling in only 18 hours. Increasingly frequent extreme rainfall events, summer droughts, and increased heat stress urge us to rethink the relationship between the city of Berlin and its urban water system. Understanding the complex interconnections between water networks and other critical infrastructures is key in this mission. With a diverse range of smart initiatives showing the way to future proofing Berlin's water infrastructure, there is still plenty of space for future development and a number of challenges awaiting to be resolved.

The 'Berlin Water Hackathon 2021' invites students and professionals from various disciplines to join forces and tackle some of these wicked water problems in a creative and collaborative manner. The online event will kick off with 3 days of lectures and workshops (20-22 January) introducing the state of the art and hands-on case studies from Berlin and beyond. The second part of the event will comprise a 2-day hackathon (25-26 January) supported by the Berlin Senate Department for Economics, Energy and Public Enterprises. The best team project will be awarded by a prestigious jury of experts!

PROGRAMME*

		Wednesday 20.01.2021	Thursday 21.01.2021	Friday 22.01.2021		Monday 25.01.2021	Tuesday 26.01.2021
09.30 - 09.45	**Lectures & Workshops**	*Warm-up Quiz*	*Warm-up Quiz*	*Warm-up Quiz*	**Hackathon**	**Thomas Krause** (SenWiEnBe) *Welcome speech*	**Hackathon**
09.45 - 10.45		**Andrea Cominola** (TUB) *Introduction* *Student presentations from previous schools*	**Franz Tscheikner-Gratl** (NTNU) *Integrated approach for multi-utility rehabilitation planning of urban water infrastructure*	***9.45 - 10.30*** **Julia Zimmermann** (Technologiestiftung Berlin) *Thirsty City Trees – Open Source, Data and Community can fix it* **10.45 – 11.15** **Matthias Schroeder** (SenUVK) *Wasserportal, Data and Water Management*		**Hackathon**	
11.15 - 12.30		**Felix Lorenz** (TUB) *WaterGridSense 4.0 - Towards Scalable and Dependable Water Infrastructure Monitoring*	**Elżbieta Jarosińska** (CUT) *The Urban Green - solutions to increase bioretention and reduce runoff in the cities*	***Katharina Goergens*** (SenWiEnBe) *EnergieAtlas – An outlook on energy*			
12.30 - 14.00		*Lunch Break*	*Lunch Break*	*Lunch Break*			
14.00 - 17.00		**Robert Szczepanek, Marek Bodziony, Beata Baziak** (CUT) **WORKSHOP** *Urban Hydrology Modelling in Practice*	**Jochen Rabe** (TUB) *Introduction to the concept of green-blue infrastructures* **Justin Abbott** (Arup) *Green-blue infrastructures in practice*	**WORKSHOP** *Hackathon brainstorming session*			**14.30-17.30** **Jury introduction** **HACKATHON PRESENTATIONS** **Evaluation & Announcement of winners**

*Please note that the programme schedule might be subject to change.