



# Knowledge and Technology Transfer to Ukraine

UA-CZ Science Meetup  
15 November 2022

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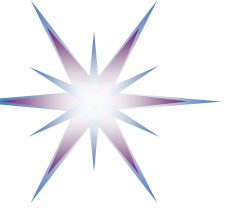


- Graduated and PhD from National Technical University of Ukraine “Kiev Polytechnic Institute”
- TERENA (Trans European Research and Education Networking Association, now GEANT) – 1998 – 2002
- University of Amsterdam – since 2003
- University of Liverpool Online – 2003 – 2020 (part time instructor of online studies)
- National Technical University of Ukraine “Igor Sikorski Kyiv Polytechnic Institute” – since 2018
  - Master course Big Data Infrastructure and Technologies (remotely + 2 weeks on site lectures and practice)
- Vodafon Ukraine Data Science Academy – since 2019
  - Course Big Data Infrastructure and Technologies (remotely)
- Workshops, Training and tutorials variety of topics and places



# Teaching and Academic activity - Worldwide

- Teaching courses (on campus and online)
  - Big Data Infrastructure and Technologies for Data Analytics (BDIT4DA)
  - Cloud Computing Engineering (CCENG), Web Services and Cloud Computing
  - Web technologies and Databases (WebDB)
  - DevOps and Cloud based Software Development (DevOps)
  - Security Engineering (SN)
  - Data Science and Analytics Foundations (DSAF)
  - Research Data Management for Open Science (Data Stewardship & FAIR data principles)
  - Professional Issues in Data Science
- In development
  - Data Security by Design and DevSecOps
  - Research Methods and Project Management
  - 21st Century Skills and Design Thinking



# Russia's War against Ukraine – Full assault began 24 Feb 2022

- 2 March 2022 - First address to my master students in DevOps and Cloud based Software Engineering course
- 10 March 2022 - Address to the Faculty of Science, Students, Researchers and Academicians
- Support actions in Amsterdam and NL
- Continue teaching at KPI - Credit to Ukrainian students (all except 1 passed)
- September – October 2022 - PROJECT proposal to create a bottom up network of Ukrainian and European Scientists and Academicians to help Recovery/Rebuilding Ukrainian Education and Science – Review decision May 2023



# PROJECT to support Ukrainian Education and Science - Objectives

- **Create a bottom-up network** that would support practicing researchers and educators in Ukraine and partner countries and also volunteers worldwide, which will aim to develop a realistic roadmap for helping and assisting the Ukrainian research and education community in the recovery, transformation and advancement of Ukrainian science and education: help preserve the existing scientific human capital and ECI (Early Career Investigators) to develop their career in the best way
- **Cooperate with local organisations and communities to create a platform and a directory** of active scientists and ECI to assist them in obtaining financial grants, research grants, and training
- **Adopt effective instructional methodologies and assist in curricula development and training** for Ukrainian specialists and engineers
- **Assist in introducing into university curricula a complex of skills critically required for modern specialists** such as often referred to as the 21st Century skills
- **Develop and test the instructional methodologies and model curriculum for fast knowledge acquisition and training**
- **Assist in the implementation of the Open Science and FAIR data principles** in Ukrainian education and science



# Useful resources for Researchers and Students

- Homepage - <http://www.uazone.org/demch/index.html>
  - ESL4RUS: Main difficulties in English as Foreign Language For Russian/Ukrainian speaking people - <http://www.uazone.org/friends/esl4rus/>
- EDISON Data Science Framework (EDSF) - <https://edisoncommunity.github.io/EDSF/>
- Education and Training materials
- Contact: [y.demchenko@uva.nl](mailto:y.demchenko@uva.nl)