

Agenda

Enlargement and Integration Workshop

"Digital Transformation, Data and AI in the Western Balkans"

Hotel DoubleTree by Hilton Skopje



The European Commission's science and knowledge service

9-11 December 2021

Joint Research Centre



Enlargement and Integration Workshop

"Digital Transformation, Data and AI in the Western Balkans"

https://ec.europa.eu/jrc/en/event/workshop/workshop-digital-transformation-data-and-ai-western-balkans

Hotel DoubleTree by Hilton Skopje. Skopje. North Macedonia. 09-11 December 2021

Registration link:

https://us02web.zoom.us/meeting/register/tZEtfugpz0vHtCd72H2GnjzxtniCFmgFh-q



Thursday, 9 December 2021

10:00-11:00 Arrival at the venue - Hotel DoubleTree by Hilton Skopje

Registration - Platinum conference room

11:00-12:00 High-level opening session

PhD. **Carlos TORRECILLA SALINAS**, Head of Unit at the European Commission Joint Research Centre

H.E. Julian VASSALLO, Deputy Head of EU Delegation to North Macedonia

PhD. **Jeton SHAQIRI**, Minister of Information society and administration, North Macedonia Government

Prof. Dr. Nikola JANKULOVSKI, Rector of University Ss Cyril and Methodius in Skopje

Mr. Trajan ANGELOSKI, President of Macedonian Chambers of Commerce

12:00-14:00 Welcome lunch

14:00-15:30 Session 1 (10' for each presentation and 5' for questions)

Title: Data and Artificial intelligence as drivers of digital transformation with examples from European Commission, FAO, World Bank. UN GGIM and University Ss Cyril and Methodius in Skopje.

Chair: Bekim FETAI

Alex KOTSEV - An EU approach to data sharing

Rumyana TONCHOVSKA – Geospatial Information and the role of Cadastre agencies in responding to the government policy drivers. FAO and World Bank support.

Blagoj DELIPETREV - Data-centric artificial intelligence

Tomaz PETEK – Digital transformation and Artificial Intelligence from regional and national perspective (UN GGIM Europe and Slovenia)

Vlado CETL, Danko MARKOVINOVIĆ – AI landscape in Croatia

15:30-16:00 Coffee break

16:00-17:30 Session 2 (10' for each presentation and 5' for questions)

Title: Data and Artificial Intelligence

Chair: Vlado CETL

Ivan CHORBEV, Vlatko NIKOLOVSKI, Dimitar TRAJANOV, Petre LAMESKI - Student Academic Performance Prediction-Regularly and During a Pandemic

Aleksandar JEVREMOVIC - Using A.I. to protect vulnerable Internet users at Human-Computer Interaction level

Andrej CEGLAR, Andrea TORETI - Climate risk assessments using large climate datasets: Al perspective

Petre LAMESKI, Eftim ZDRAVEVSKI, Andrea KULAKOV, Ivan CHORBEV, Vladimir TRAJKOVIK - Applications of Deep Learning Based Semantic Segmentation of Images

Bekim FETAJI, Majlinda FETAJI, Mirlinda EBIBI - Digital Transformation of Administration, Assessing their Digital Skills and Devising a Model for Improving the Proficiency

Ema VASILESKA, Ordan CHUKALIEV, Valentina GECEVSKA – Crop yield forecasting by machine learning in North Macedonia

Friday, 10 December 2021

09:00-10:30 Session 3 (10' for each presentation and 5' for questions)

Title: Data and geospatial intelligence

Chair: Ordan CHUKALIEV

Ivica MILEVSKI - Digital landslide susceptibility map of North Macedonia

Gordana KAPLAN - Rapid urbanization effect on Land Surface Temperature using Remote Sensing Technologies in Goggle Earth Engine

Slavoljub DRAGICEVIC, Ivan NOVKOVIC, Ivica MILEVSKI, Dejan FILIPOVIC, Milan RADOVIC, Aleksandar GLISIC - Toward the creation of the national cadastre of degraded areas in Serbia and North Macedonia

Aleksandar VALJAREVIC, Cristina POPOVICI - Transformation of traditional agriculture on digital in the Republic of Moldova using advanced techniques

Onur KAPLAN, Gordana KAPLAN - Digital transformation of post-earthquake damage assessment combining response spectrum concept and remote sensing data

Maria OWDII, **Sanja ZEKUSIC** - Development of NSDI in Republic of Moldova through EU Twinning Project and other Donors support

10:30-11:00 Coffee break

11:00-12:30 Session 4 (15' for each presentation and 5' for questions)

Title: Digital transformation of land administration institutions and NSDI

Chair: Rumyana TONCHOVSKA

Yosyp DOROSH, Shamil IBATULLIN, Andriy TARNOPOLSKYY, Andriy DOROSH, Avramchuk BOHDAN - Application of digital transformations of data and processes for modelling the structure of land use in the conditions of open land market in Ukraine

Borko DRASHKOVIC, Rumyana TONCHOVSKA, **Darko VUCETIC** - Digital transformation in Serbia – Geospatial data as a core instrument to transform a country

Tomislav CICELI - NSDI development in Croatia from interoperability perspective

Denis TABUCIC - Data integration & interoperability of public land administration services in Federation of Bosnia and Herzegovina

12:30-14:00 Lunch break

14:00-15:30 Session 5 (10' for each presentation and 5' for questions)

Title: Start-ups & companies in Artificial Intelligence and geospatial software

Chair: Igor NEDELKOVSKI

Svetlana KORDUMOVA – Pixyle.ai Visual AI for Fashion Retail

Dragan DIVJAK, Vlado CETL, Nikola VUČIĆ, Darko ŠIŠKO - Monitoring policy effectiveness with agent-based model approach

Gjorgji MADJAROV, Kristijan KOLEV, Aleksandar TRAJKOVSKI - Horizontally scalable lambda architecture for processing and analysing multivariate time-series data

Luka JOVICIC - Collaboration platform as a driver of the digital transformation

Hristijan GJORESKI, Simon STANKOSKI, Ivana KIPRIJANOVSKA, Martin GJORESKI - Emotional Artificial Intelligence using Face mounted Mask

Viktor MISOVSKI - 4 INFO

15:30-16:00 Coffee break

16:00-17:30 Session 6 (10' for each presentation and 5' for questions)

Title: Blockchain, Economy and Society

Chair: Dejan FILIPOVIC

Roberto REALE, Giovanni Paolo SELLITTO - Towards a technical architecture for societal Trust: developing the main building blocks

Atanasovski ATANASKO, Todor TOCEV - Most exciting disruptive technologies for accounting researchers and professionals

Art ALISHANI - Reviewing and Refining the Notion of the Real-Time Economy: Theoretical and Empirical Insights

Borce TRENOVSKI, **Ana TOMIKJ**, Gunter MERDZAN - What drives the digital transformation in the western Balkan banking sector? - The case of North Macedonia

Igor NEDELKOVSKI - Digital transformation for participatory urban planning

19:30 Social dinner - Hotel DoubleTree by Hilton Skopje

Saturday, 11 December 2021

09:00-10:30 Session 7 (10' for each presentation and 5' for questions)

Title: Digital transformation and Artificial intelligence in Education

Chair: Danko MARKOVINOVIĆ

Mishko DJIDROV, Blazo BOEV, Zoran ZDRAVEV - Goce Delcev University-Stip drives seamless transition to remote learning during pandemic

Tijana ILIĆ, Anja POLAJNAR, Mitja JERMOL, Tanja URBANČIČ - Fostering digital transformation by building capacities for open education

Bashkim IDRIZI – Implementing the geospatial technology for studying the natural and social subjects in primary schools in North Macedonia.

Festim HALILI - Programming Logic in Artificial Intelligence: a metamorphosis of M-mode to I-mode

Berat UJKANI, Betim DRENICA, Rinor KURTESHI, Muzafer SHALA - Development and implementation of speech-to-text technology using AI in Albanian language

10:30-11:00 Coffee break

11:00-12:30 Session 8 (10' for each presentation and 5' for questions)

Title: Data, digital transformation, and AI in public institutions

Chair: Bashkim IDRIZI

Stefan DEDOVIC - Challenges of Digital Government Transformation in Serbia

Etem GUNER - Digital transformation of Turkish public sector; Ontek information system

Igorche KARAFILOVSKI - Digitalization of Crisis Management System

Nikola NIKOLOV - National Population Register and Digital Identity

Vera SHIKO - The role of Artificial Intelligence to improve the urban living

12:30-14:00 Lunch break

14:00-15:00 Wrap-up session / Conclusions / End of the workshop

Chairs: Blagoj DELIPETREV, Ordan CHUKALIEV, Bashkim IDRIZI, Rumyana TONCHOVSKA, Vlado CETL

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