

BEYOND4.0
SCIENTIFIC CONFERENCE:
INCLUSIVE FUTURES FOR EUROPE
BEYOND INDUSTRIE4.0
AND DIGITAL DISRUPTION

SEPTEMBER 30 – OCTOBER 1, 2021
SOFIA, BULGARIA

PROGRAMME

● **BEYOND 40**



EUWIN



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SEPTEMBER 30 – OCTOBER 1, 2021
SOFIA, BULGARIA

SCIENTIFIC COMMITTEE

Prof. Chris Warhurst, University of Warwick

Dr. Egoitz Pomares, University of the Basque Country

Prof. Frank Pot, Radboud University

Prof. Jürgen Howaldt, TU Dortmund

Prof. Monique Ramioul, HIVA- KU Leuven

Prof. Nathalie Greenan, CEET-LeCnam,

Prof. Pepka Boyadjieva, Institute of Philosophy and Sociology, Bulgarian Academy of Sciences

Dr. Peter Oeij, TNO

Prof. Steven Dhondt, TNO


Prof. Vassil Kirov, Institute of Philosophy and Sociology, Bulgarian Academy of Sciences

ORGANISATIONAL COMMITTEE


IPS-BAS:

Vassil Kirov, Bagryan Malamin, Ekaterina Markova, Gabriela Yordanova, Diana Nenkova

September 30

Local Time (EET)	Main Hall	Secondary Hall
9:00 - 9:30	Registration	 <p>East European Time (EET)</p>
9:30 - 10:00	Opening / Welcome speech	
	Academician Julian Revalski, Chairman of BAS	
	Prof. D.Sc. Vesselin Petrov, Director of IPS - BAS	
	Prof. Steven Dhondt, BEYOND4.0 Project coordinator	
	Bulgarian Deputy Minister of Education and Science, TBC	
10:00 - 11:30	Plenary Session I, Moderator: Steven Dhondt	
	Prof. Marianna Mazzucato	
	Prof. Chris Warhurst	
	Discussion	
11:30 - 11:45	Coffee break	
11:45 - 13:15	Parallel session A1	Parallel session B
	Digital transformation and societal disruption after the Covid-19 crisis - Quo Vadis - facts and figures.	The next technological wave? The technology waves reassessed from a historical perspective - today's lessons from the past.
13:15 - 14:15	Lunch break	
14:15 - 16:15	Parallel session C1	Parallel session D1
	Work, organisation and management: workplace innovation to support digital transformation.	Change of technology and the need for on-going change for the demand of skills.
16:15- 16:30	Coffee break	
16:30 - 18:00	Parallel session C2	Parallel session D2
	Work, organisation and management: workplace innovation to support digital transformation.	Change of technology and the need for on-going change for the demand of skills.
18:00 - 19:30	Plenary Session II, Moderator: Peter Oeij	
	Prof. Paul Osterman	
	Prof. Olli Kangas	
	Discussion	

October 1

Local Time (EET)	Main Hall	Secondary Hall
8:30 - 10:30	Plenary Session III, Moderator: Nathalie Greenan	 <p>East European Time (EET)</p>
	Prof. Steven Dhondt	
	Prof. Jurgen Howaldt	
	Dr. Glenda Quintini	
	Discussion	
10:30 - 10:45	Coffee break	
10:45 - 12:45	Parallel session A2	Parallel session G
	Digital transformation and societal disruption after the Covid-19 crisis - Quo Vadis - facts and figures.	Ecosystems and Industrie 4.0
12:45 - 13:45	Lunch break	
13:45 - 15:45	Parallel session C3	Parallel session E
	Work, organisation and management: workplace innovation to support digital transformation.	Platform Economy
15:45 - 16:00	Coffee break	
16:00 - 18:00	Parallel session F	Stakeholders round table
	Working conditions in the context of digital transformation.	Industry 5.0 the view of policy makers and social partners.
18:00 - 18:30	Concluding remarks	
	Prof. Steven Dhondt, TNO & Dr. Vassil Kirov, IPS-BAS	

Keynote Speakers

Prof. Chris Warhurst , University of Warwick	For better or worse? The impact of digitalisation on future social relations at work.
Dr. Glenda Quintini , OECD	Getting skills right: changing skill needs for the recovery and beyond.
Prof. Jürgen Howaldt , TU Dortmund	Why digital transformation needs social innovation: a new twin strategy for sustainable development and inclusive futures.
Prof. Mariana Mazzucato , UCL	The Direction of Innovation: A Mission-Oriented Approach
Prof. Olli Kangas , University of Turku	How (and why) to plan a large-scale randomised field experiment?
Prof. Paul Osterman , MIT, TBC	The Changing Contours of Work: Implications for Employees and for Public Policy
Prof. Steven Dhondt , TNO and KU Leuven	Why Industrie 4.0 technology requires so much talent. Drilling deep into the entrepreneurial ecosystem results of Beyond4.0.

Parallel sessions

SESSION A.

Digital transformation and societal disruption after the Covid-19 crisis – Quo Vadis – facts and figures.

Session A1		Moderator: Dr. Ekaterina Markova
Andrei Popov , Vologda Research Centre of the Russian Academy of Sciences	The Present and the Future of the Employment Paradigm in the Face of Global Changes	
Atanas Hristov , DG ECFIN Bjoern Doehring , DG ECFIN Werner Roeger , DG ECFIN Anna Thum-Thysen , DG ECFIN	COVID-19 acceleration in digitalization, aggregate productivity growth and the functional income distribution	
Branka Andjelkovic , Public Policy Research Centre Tanja Jakobi , Public Policy Research Centre	Naked At Home	
Patrick Thill , Luxembourg Institute of Socio-Economic Research (LISER) Dr. Vassil Kirov , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences Andreas Kornelakis , King's College London	The Digitalisation of Service Work: A Comparative Study of Restructuring of the Banking Sector in the United Kingdom and Luxembourg	
Silvia Napolitano , CNAM CEET Nathalie Greenan , CNAM CEET Imad El-Hamna , CNAM CEET	Using a linked dataset at the EU wide level to describe technological and organisational changes and their relationship with innovation	
Session A2		Moderator: Prof. Mark Levels
Dr. Egle Butkeviciene , Kaunas University of Technology Dr. Audrone Nakrosiene , ISM University of Management and Economics	Workplace innovation fostered by the Covid-19 crisis: the benefits and challenges of telework	
Ester Ulloa Unanue , University of Cadiz Marcela Iglesias Onofrio , University of Cadiz Sofía Pérez de Guzmán Padrón , University of Cadiz Lucía del Moral Espín , University of Cadiz	Raising Awareness for Riders' Rights	
Dr. Ludivine Martin , Luxembourg Institute of Socio-Economic Research (LISER) Laetitia Hauret , Luxembourg Institute of Socio-Economic Research (LISER) Nicolas Poussing , Luxembourg Institute of Socio-Economic Research (LISER)	How do digital tools use profiles of teleworkers influence their digital up-skilling during the spring 2020 lockdown?	
Dr. Petya Klimentova , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	Digital transformation and new forms of civic activity in the field of labour (the example of online labour consultations)	
Yennef Vereycken , KU Leuven Dries Van Herreweghe , KU Leuven	Social dialogue on technological innovation in Flanders: Results of a Delphi-study	

SESSION B.

The next technological wave?

The technology waves reassessed from a historical perspective – today's lessons from the past

Chiara Natalie Focacci Dr. Vassil Kirov , Institute of Philosophy and Sociology Bulgarian Academy of Sciences	Regional Entrepreneurial Ecosystems: Technological Transformation, Digitalisation and the Longer Term. The Automotive and ICT Sectors in the UK and Bulgaria.
Dr. Joanna Morawska-Jancelewicz , Adam Mickiewicz University, Poznań Prof. Elias G. Carayannis , George Washington University School of Business	Society 5.0 and Industry 5.0 as driving forces of future universities
Marta Candeias , Universidade Nova de Lisboa António Brandão Moniz , Universidade Nova de Lisboa Nuno Boavida , Universidade Nova de Lisboa	Digital transformation in the automotive sector in Portugal: data analysis on industrial R&D projects
Dr. Rumiana Jeleva , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	IT sustainability reporting, company performance and their value relevance

SESSION C. Work, organisation and management: workplace innovation to support digital transformation

Session C1		Moderators: Dr. Peter Oeij, Prof. Frank Pot
Prof. Frank Pot , Radboud University Dr. Peter Oeij , TNO	Introduction to the workshop	
Prof. Ferry Koster , Erasmus University	Organizations in the knowledge economy. An investigation of knowledge-intensive work practices across 28 European countries	
Dr. Ali Iftikhar Choudhary , COMSATS University Islamabad, Lahore Campus Prof. Adela McMurray , Flinders University, Australia	The Relationship between Digital Transformation and Workplace Innovation in a Developing Country	
Aline Lohse , TU Chemnitz Dr. Ing. André Dettmann , TU Chemnitz Prof. Dr. A. C. Bullinger , TU Chemnitz	Workplace Innovation in times of digitalization and pandemic	
Dr. Giverny De Boeck , Curtin University Prof. Sharon Parker , Curtin University	When beliefs about technology clash: The role of institutional logics in workers' experience of automation and work redesign	
Session C2		Moderators: Dr. Peter Oeij, Prof. Frank Pot
Ine Smits , HIVA - KU Leuven Prof. Ezra Dessers , HIVA - KU Leuven	Sustainable employment in the age of digitalisation: unpacking the organisational level	
Dr. Magdalena Parcheva , Technical University of Varna, Research Institute	Innovative potential of digital technologies and systems with artificial intelligence for transformation of work processes in specialised translation agencies	
Prof. Paul Osterman , MIT Sloan	Sharing his ideas about the "High Road" perspective in the light of workplace innovation	
Session C3		Moderators: Dr. Peter Oeij, Prof. Frank Pot
Dr. Paul Preenen , TNO Ziagul Hosseini MSc , Human Performance Management Group, Department of Industrial Engineering & Innovation Sciences, Eindhoven University of Technology	An ethical framework for evaluating experimental technologies in logistics workplace settings	
Dr. Se Ri No , Korea Labor Institute Dr. Kyoung Won Park , Hanyang University Prof. Young Jin Nho , Seoul National University of Science and Technology	Smart Technology and Workplace Innovation: Focused on Smart Factory in Korean Manufacturing firms	
Prof. Tuomo Alasoini , Finnish Institute of Occupational Health Arja Ala-Laurinaho , Finnish Institute of Occupational Health Marja Känsälä , Finnish Institute of Occupational Health	Driving high and low: Finnish logistics workers in digital transformation	
Michiel Bal , CeSO, KU Leuven	Explaining the use of a digital technology in context.	
Zsófia Riczu , University of Miskolc, Agricultural and Labour Law Department	Workplace innovation with digital technical support	

SESSION D. Change of technology and the need for on-going change for the demand of skills.

Session D1		Moderator: Dr. Egoitz Pomares
Dr. Christina Ambareva , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	Which competencies are important to teach in the light of the digital transformation of knowledge?	
Elżbieta Prucnal-Tumasz , University of Wrocław	What professional competences do employers expect from an 'ideal' candidate for the position of SAP consultant? The case of the professional job market in Poland	
Prof. Ezra Dessers , HIVA - KU Leuven Lise Meylemans , HIVA - KU Leuven Lise Szekér , HIVA - KU Leuven	Empowering workers with the skills they need for tomorrow: Evaluation of the FutureFit training program in Belgium	
Fanni Tamasi , University of Stirling	Technology adoption and skills development in Scottish manufacturing SMEs	
Frederic Naedenoen , University of Liège Marine Franssen , Lentic - HEC ULiège - Université de Liège	When digital transformations causes restructuring: the role of a qualitative social dialogue	
Dr. Mariana Todorova , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	The Digitalization of Education, the Role of Digital Technologies and Artificial Intelligence in Building of New Soft and Hard Skills	
Session D2		Moderator: Dr. Gábor Mélypataki
Prof. Mark Levels , Maastricht University Per Bles , Maastricht University Giampiero Passaretta , European University Institute Reinhard Pollock , Bamberg Nora Muller , GESIS Leibniz Institute for Social Sciences	Schools, Educations Systems and the Acquisition of Skills Relevant to the Future of Work.	
Dr. Nevena Ivanova , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	Cognition and Education After Automatization	
Prof. Valentina Milenkova , South-West University "Neofit Rilski"	Challenges to Digital Education in Contemporary Society	
Dr. Michael Kohlgrüber , TU Dortmund University, Social Research Centre Clara Behrend , TU Dortmund University, Social Research Centre	Understanding Future Skills for the Digital Transformation	
Svetlomir Zdravkov , Institute of Philosophy and Sociology, Bulgarian Academy of Sciences	Online education and digital inclusion. How different EU countries and their citizens are adapting to the technological change in education?	

SESSION E. Platform economy

Moderator: Dr. Magdalena Parcheva

Prof. Andrey Shevchuk , National Research University - Higher School of Economics (HSE University)	Digital platforms and the changing freelance workforce in Russia: A ten-year perspective
Prof. Cecilia Manzo , Università Cattolica del Sacro Cuore Prof. Ivana Pais , Università Cattolica del Sacro Cuore	Digital platforms in welfare systems: towards a typology
Denis Strebkov , National Research University - Higher School of Economics (HSE University)	The Geography of the Digital Freelance Economy in Russia and Beyond
Mathilde Abel , Sorbonne Nouvelle University Prof. Patrick Dieuaide , Sorbonne Nouvelle University	Workplace, socio-spatial effects and algorithmic management. A perspective from the mobility service platforms
Tina Krell , Alexander von Humboldt Institute for Internet and Society Dr. Nicolas Friederici , Alexander von Humboldt Institute for Internet and Society	"One strategy does not fit all" - The role of foundational positioning in platform competition

SESSION F. Working conditions in the context of digital transformation

Moderator: **Clara Behrend**

Dr. Gábor Mélypataki , University of Miskolc	How can the human and the collaborative robots work together? – Legal and theoretical aspects
Dr. Laetitia Hauret , Luxembourg Institute of Socio-Economic Research (LISER) Chantal Cucchi Fuhrer , Université de la Réunion Ludivine Martin , Center for Research in Economics and Management (CREM, UMR CNRS 6211)	Digitally Transformed Work from Home Impacts on Job Satisfaction, Job Stress and Job Productivity. COVID-19 Findings
Dr. Luuk Collou , Saxion university of applied sciences Mr Milan Wolffgramm , Saxion University of Applied Sciences Koen Nijland , junior researcher, Saxion University of Applied Sciences	The Challenge of Joint Optimization human centered technology implementation in SMEs
Dr. Olga Chesalina , Max Planck Institute for Social Law and Social Policy	From the right to disconnect to mental health and wellbeing at work in the digital age
Patrick Thill , Luxembourg Institute of Socio-Economic Research (LISER) Dr. Gabriele Wolff , University of Applied Sciences Koblenz	Assessing the psychological and social impact by applying human-centered approaches to implementing digital technologies in companies: a comparative study of the industry sector Germany and Luxembourg

SESSION G. Ecosystems and digital transformation

Moderator: **Prof. Ezra Dessers**

Entrepreneurial ecosystems: metrics, configurations and outcomes	Sectoral Skills Alliances and Strategies: Industry 4.0 needs Work 4.0
Dr. Paul Preenen , TNO Dr. Kars Mennens , Maastricht University	A Conceptualization of Public-Private Learning Communities for technological transformations and beyond
Bieke Struyf , Antwerp Management School Gabriel Möwis , Frankfurt University of Applied Sciences Dirk Stegelmeyer , Frankfurt University of Applied Sciences	Leveraging ecosystem partnerships for Industry 4.0-enabled value creation: A Delphi-study
Mirella Schrijvers , University of Utrecht	Entrepreneurial ecosystems: metrics, configurations and outcomes
Prof. Hans Christian Garmann Johnsen , University of Agder Clare Hildebrand , University of Agder	Beyond the Human-Machine Dichotomy: Dialogical development in the age of digital transformation.

STAKEHOLDERS ROUNDTABLE

Moderator: **Vassil Kirov**

Arch. Lubomir Stanislavov, CEO & Board member, Bulgarian Employers Association Innovative Technologies (BRAIT)
Dr. Bartek Bednarowicz, Labour Mobility Officer, Coordinator for Labour Mobility Analyses & Risk Assessment, Enforcement & Analysis Unit, European Labour Authority (ELA)
Prof. Silvia Ilieva, Director of GATE Institute, Sofia University “Sv. Kliment Ohridski”
Veselin Mitov, International SecretaryConfederation of Labour PODKREPA

The duration of each presentation is expected to be 15 minutes.

Keynote speaker presentations are expected to be 30 minutes

The conference will be held in a hybrid format – online and physical attendance in Sofia.

It will be held in two halls and streamed via Zoom.

Participation link will be sent to all attendees in September.

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