

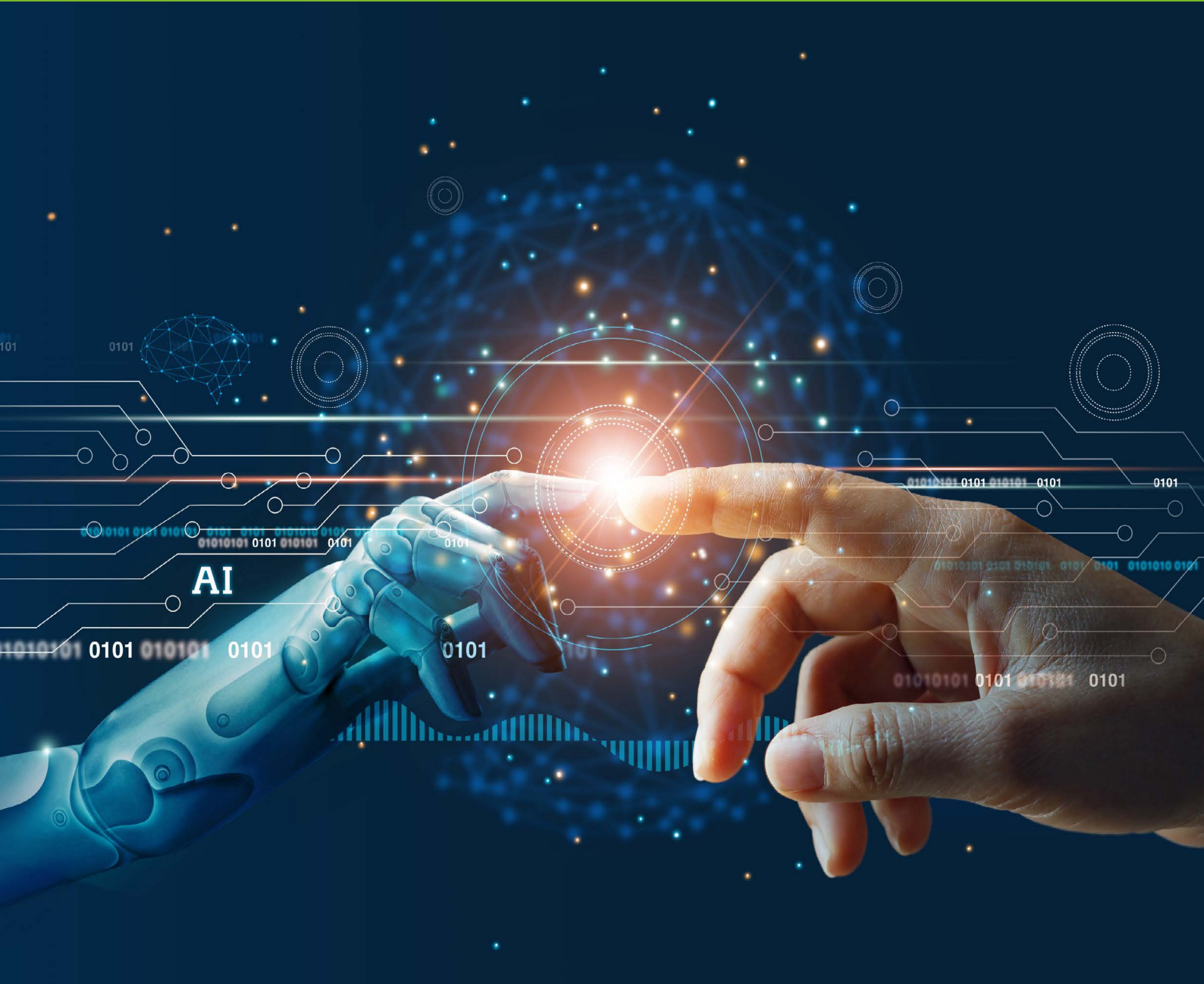
# EPFMA Bulletin



83 · June 2023

European Parliament Former Members Association

[www.formermembers.eu](http://www.formermembers.eu)



## FMA Activities

Visit under the EU  
Presidency

Page 14



## Focus

Digital Twins

Page 31

# IN THIS ISSUE

**03** Message from the President

**04** European Parliament at work

## CURRENT AFFAIRS

**06** Europe Day dedicated to Women  
(Monica Baldi)

**07** Gendering Multi-Level  
Parliamentary Democracy  
(Julie Ward)

**08** We deserve citizens of peace  
(María Izquierdo Rojo)

**09** 50th anniversary of Ireland's  
accession to the EU  
(Emer Costello)

**10** The MAGYC project Policy Dialogue  
about EU Migration  
(Brigitte Ernst & Basak Yavcan)

**11** The European Union and the war  
in Ukraine  
(Michel Pinton)

## FMA ACTIVITIES

**13** FMA Annual Events

**14** Visit under the EU Presidency

**20** Cooperation with EUI/HAEU

**21** Former Members' Network

**22** EP to Campus

**25** Book review

## LATEST NEWS

**26** Upcoming events

**26** Publications

**26** Members' news

**26** New members

**28** FMA at work

## IN MEMORIAM

**29** In Memoriam

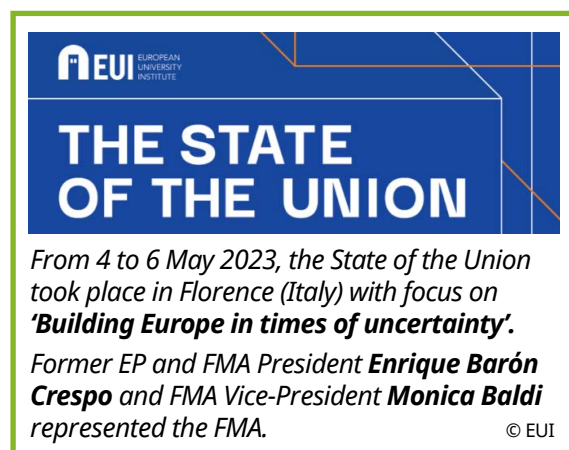
## FOCUS

**32** Digital Global Observatories  
(Manuel Heitor &  
Teresa Riera Madurell)

**34** Digital Twins  
(Prof. Ulises Cortes)

**36** Beyond the AI hype: Balancing  
Innovation with Social and  
Ethical AI  
(Prof. Dr. Virginia Dignum)

**38** The Uncanny Big Digital Twins  
(Prof. Helga Nowotny)



Cover: © Adobe Stock

## CALL FOR CONTRIBUTIONS

The Editorial Board would like to thank all those members who took the time to contribute to this issue of the FMA Bulletin. We would like to draw your attention to the fact that the decision to include an article lies with the FMA Editorial Board and, in principle, contributions from members who are not up-to-date with the payment of the membership fee will not be included. Due to the long time lag between the call for contribution and the publication, some articles may be outdated.

The FMA Bulletin is published by the European Parliament Former Members Association (FMA) with the assistance of the European Parliament. However, the views expressed in articles represent the views of contributing FMA members or guest writers and do not necessarily represent the views of either the European Parliament nor the FMA. Similarly, any advertisement does not imply an official endorsement by the FMA or Parliament.

## EDITORIAL BOARD

Monica BALDI  
Jean-Pierre AUDY  
Edward McMILLAN-SCOTT  
Teresa RIERA MADURELL  
Paul RÜBIG

## PREPARED BY

Elisabetta FONCK  
Valerie RASKIN  
Pilar RAMOS CARBONERO  
Monica IBARRA MENDOZA  
Isa-Marie MÉNART

## CONTACTS

formermembers@europarl.europa.eu  
Tel.+ 32(0)2 284 07 03  
Fax.+32(0)2 284 09 89

# DIGITAL GLOBAL OBSERVATORIES

## HOW DIGITAL TWINS CAN HELP SHAPING OUR COMMON FUTURE IN TIMES OF INCREASING UNCERTAINTY AND UNSETTLED LIVES?

How far advanced computing together with design and use of digital twins can help shape our common future in times of increasing uncertainty and unsettled lives? This question has motivated the organization of the 6th Gago Conference on European Science Policy, 23-24 October 2023, in Barcelona<sup>1</sup>, in an way to discuss challenges and opportunities for digital twins in health, urban planning and the environment to consider human agency<sup>2</sup>, be centered on people and be based on changing collective behaviors leading us to safer, cleaner and more “collectively” resilient and cooperative societies.

### *The context*

Recent unexpected threats to our common safety and public goods, including public health, such as the Covid-19 pandemic, the increasing activity of individual digital

terrorism and the Russian invasion of Ukraine, have shown that our societies are not as safe as we thought. In association with the climate disaster we all are facing, demographic forecasts and the tensions resulting from increasing water scarcity affecting the world's most vulnerable communities, we are facing unprecedented threats that should foster a clear call for action.

The analysis clearly shows that every forecast for world societies in the coming decades will be strongly affected by the emerging trends in the growing digitalization of our communities and economies. It includes the increasing world relevance of the Global South and the critically relevant role of European led cooperation.<sup>3</sup>

### *Advantages and Threats*

Although the advantages and disadvantages of digital observation and governance based

on centralized and decentralized digital networks are still subject to many uncertainties requiring comprehensive technical and policy debates, the use of advanced computing together with decentralized digital networks and blockchain control is only partially immune to biases.

Blockchain algorithms incentivize and ultimately give preference to participants that have access to more nodes, therefore, to the most active ones. Artificial Intelligence (AI) can help by modelling the information flows and learning different participants' critical use patterns. Such practices can then provide input to set the parameters that govern the behavior of blockchain algorithms.

However, the massified use of AI-enabled innovations is also not free of additional questions because the “power it has to make us act in the ways it predicts reduces our agency over the future”.<sup>4</sup>

In predicting our behavior, AI systems can end up changing it. Consequently, collective human wisdom needs to be strengthened so that emerging regulatory issues for an increasing digital age should help promote critical approaches to AI, with clear accountability and clarity about boundaries and purpose, as well as responsibility.<sup>5</sup>

<sup>1</sup> Details in: <https://www.cienciaviva.pt/gagoconf/6th-edition>.

<sup>2</sup> See details and definition at UNDP (2022), <https://hdr.undp.org/content/human-development-report-2021-22>.

<sup>3</sup> See the platform K4P Alliances: <https://k4palliances.com/>.



Logo of the Gago Conference, organised this year on 23-24 October 2023 © Ciência Viva

<sup>4</sup> Helga Nowotny (2021), “In AI we Trust: power, Illusion and Control of predictive algorithms”, Polity Books

<sup>5</sup> Thelisson, E., Morin, J.-H., Rochel, J. (2019), “AI Governance: digital responsibility as a building block”, 2 DELPHI 167



**"However, the massified use of AI-enabled innovations is also not free of additional questions because the power it has to make us act in the ways it predicts reduces our agency over the future."**

It requires rethinking of the techno-centric narrative of progress, embracing and harnessing uncertainty, as well as abandoning the fantasy of control over nature and the illusion of techno-centric dominance of AI-enabled innovations.<sup>6</sup> The issue is clear in that it creates tensions between developers/promoters and human-led policy making, which need to be informed by negotiations of trade-offs. Above all, it requires a transdisciplinary approach to collective behaviors<sup>7</sup> and consideration of "human agency" across economics, philosophy, law, science and technology studies, history and sociology to engage with all the necessary ingredients of an emerging decentralized digital age and AI-enabled innovations.

#### *The policy debate*

Following Joseph Henrich (2016)<sup>8</sup>, among others, we know that our collective brains arise from the synthesis of our cultural and social natures and that larger and more interconnect societies produce more "know-how".

6 Karamjit S. Gill (2022), Book review, "Nowotny 2021: In AI we trust", *AI& Society*, January 2021  
7 See, for example, the work of Bak-Coleman et al (2021), "Stewardship of global collective behavior", *Proceedings of the National Academy of Sciences*, June 21, 2021.

8 J. Henrich (2016), "The secret of our success: how culture is driving human evolution, domesticating our species, and making us smarter", Princeton University Press.

The rationale for this discussion also relies on the fact that the climate crisis is probably the biggest challenge humanity is facing. The Paris Agreement is perhaps the most impactful health agreement of the 21st century"<sup>9</sup>, however, there is no sustainable development without guaranteeing the rights of all people. Future actions must take into account the connection between the "ecological footprint" indicators and those associated with the "social footprint" (i.e., poverty, inequality, and violation of basic rights).

The latter means changing and developing green/blue economies and healthier societies.

**"Understanding technology change as a common public good will allow citizens to be an integral part of future developments."**

It means changing our daily routines and work habits, as well as our cities, transport, agriculture, and industry, in a way achieving a balance between the carbon emitted into the atmosphere and the carbon removed from it. This balance – or net zero – will happen when the amount of carbon we add to the atmosphere is no more than the amount removed.

By focusing digital observation and governance on our emerging collective behaviors we will guarantee the sustainability of the populations, simultaneously with their right to develop. This means "digital humanism" and the guarantee of a transdisciplinary approach to digital twins in a way to foster healthier lives and the development of sustainable and healthy territories.

9 WHO (2021).

Understanding technology change as a common public good will allow citizens to be an integral part of future developments. This will help policymakers to better understand how digital observatories can be used to develop further to make public services more effective by delivering seamless services, cutting down digital bureaucracy and giving citizens back their most precious asset, namely their time. In addition, it will drive new policy options to enhance the governance and regulation of decentralized digital networks, including those in the public sector, ensuring high standards of conduct across all areas of public sector practice, promoting public sector effectiveness and delivering better service to its users.

#### **Manuel Heitor**

*Centre for Innovation, Technology and Policy Research, IN+ @ IS Técnico, University of Lisbon; Former Minister for Science, Technology and Higher Education of Portugal, 2015-2022; Former Secretary of State for Science, Technology and Higher Education of Portugal, 2005-2011.  
mheitor@tecnico.ulisboa.pt*

#### **Teresa Riera Madurell**

*Barcelona Supercomputing Centre, BSC-CNS; Universitat de les Illes Balears, UIB; former member of the European Parliament. S&D, Spain (2004-2014)  
trierama@gmail.com*



European Parliament  
**FORMER MEMBERS  
ASSOCIATION**

## **European Parliament Former Members Association**

Tel.: + 32(0)2 284 07 03  
[formermembers@europarl.europa.eu](mailto:formermembers@europarl.europa.eu)

European Parliament - Bât. József Antall 02Q073  
Rue Wiertz, B-1047 Brussels.

**[www.formermembers.eu](http://www.formermembers.eu)**

## Follow us

 [@EuroparlFMA](https://www.facebook.com/EuroparlFMA)

 [@Europarl\\_FMA](https://twitter.com/Europarl_FMA)