Interoperability Academy

Winter School
11–13 December 2019
Leuven, Belgium

The future of Digital Transformation
Envisioning Digital Europe 2030+
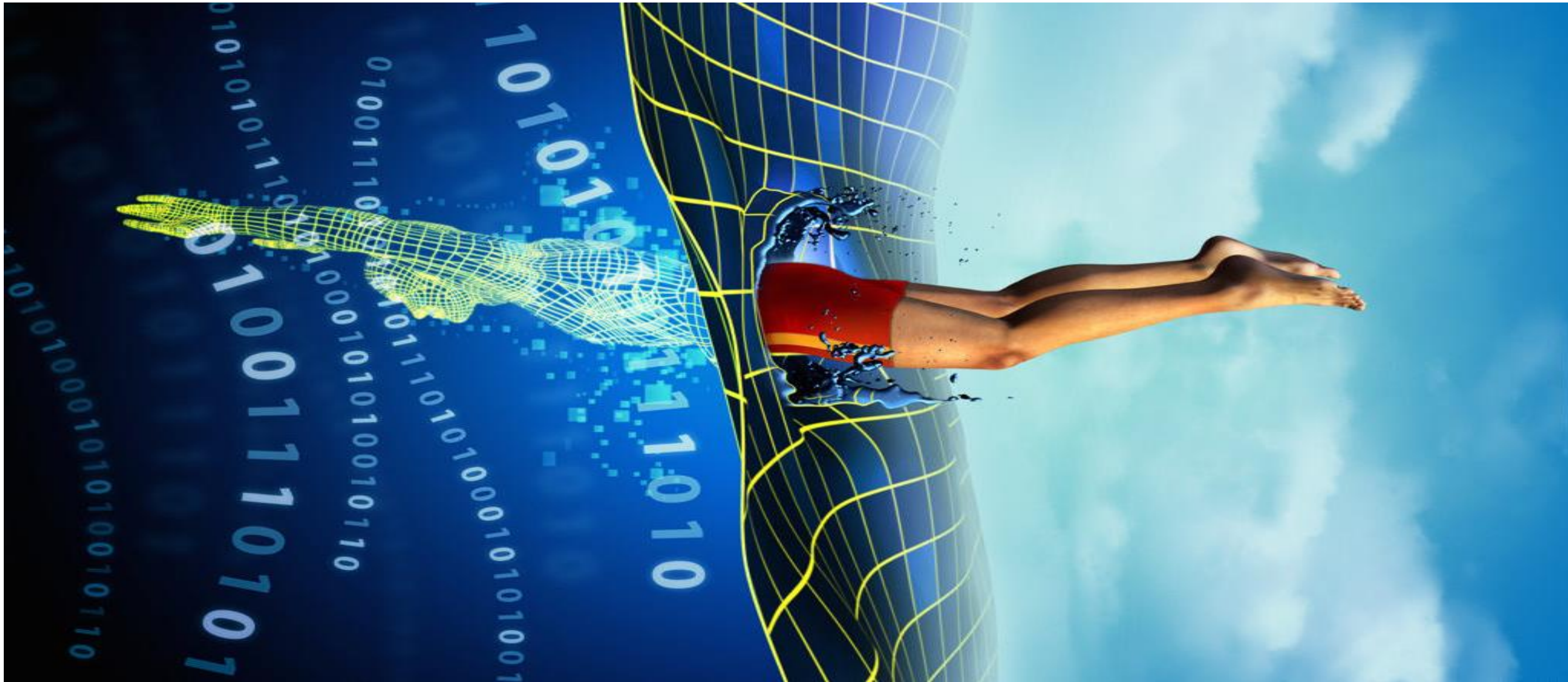
Gianluca Misuraca, JRC/B6
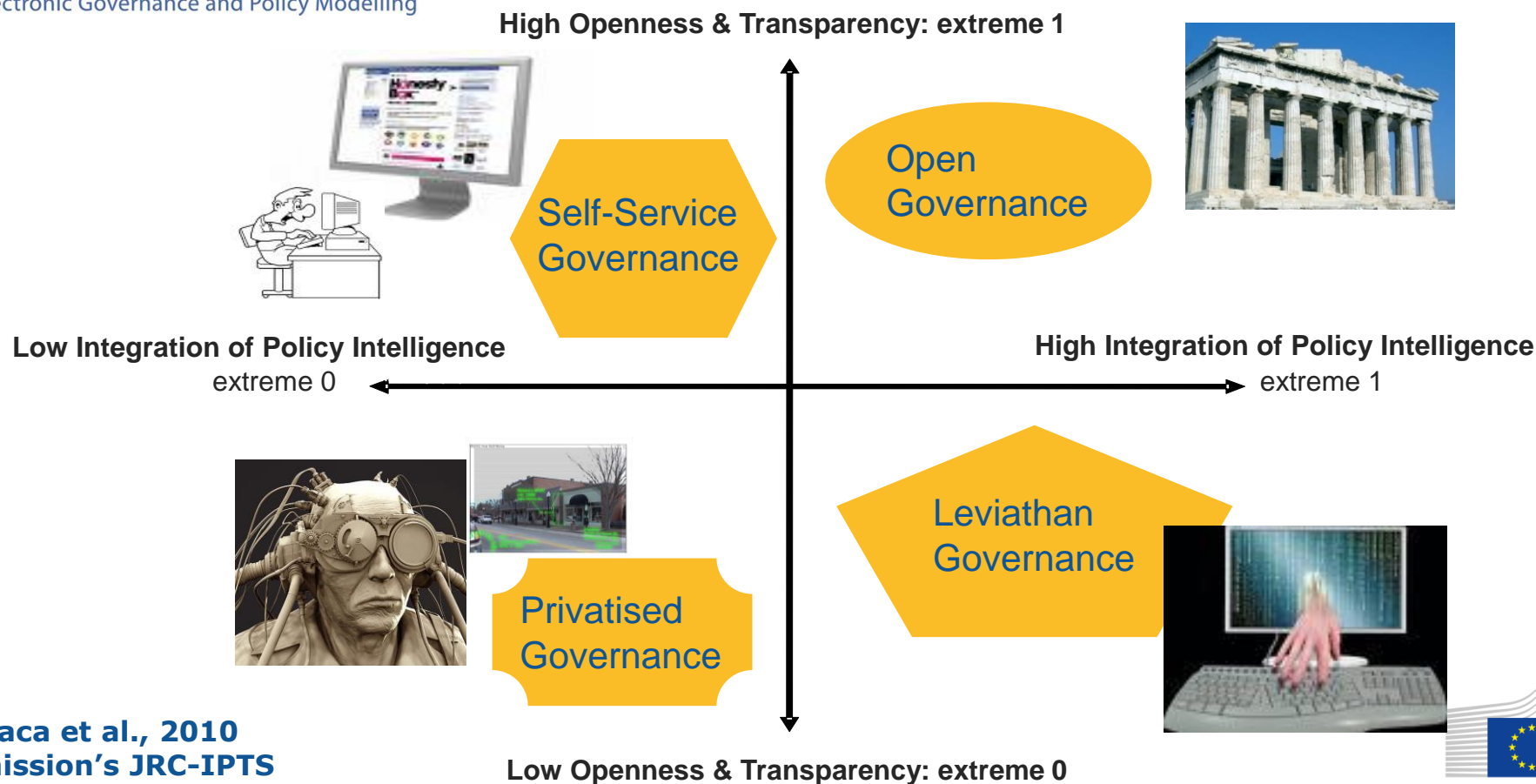Digital Economy Unit

Joint Research Centre
The European Commission's science and knowledge service

European Commission

"Prediction is very difficult, especially if it is about the future" (Niels Bohr, 1885-1962)

Envisioning Digital Europe 2030 *(10 years ago)*

CROSSROAD
A Participative Roadmap for ICT Research
in Electronic Governance and Policy Modelling

High Openness & Transparency: extreme 1

Self-Service Governance

Open Governance

Low Integration of Policy Intelligence
extreme 0

High Integration of Policy Intelligence
extreme 1

Privatised Governance

Leviathan Governance

Low Openness & Transparency: extreme 0

European Commission
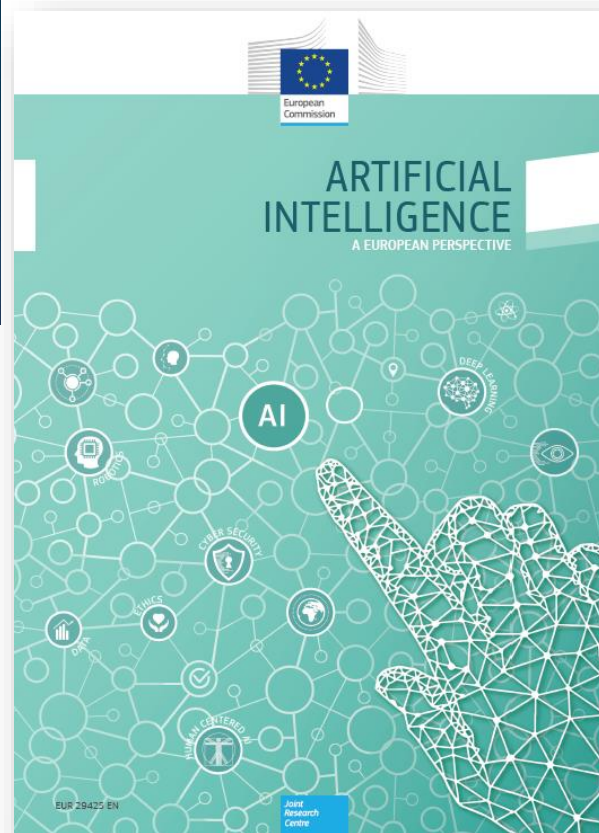
Future of Government 2030+
A Citizen Centric Perspective on New Government Models

DYI Democracy

Private Algocracy

Super Collaborative Government

Over-regulatocracy

Latest JRC publications (December 2019)

JRC SCIENCE FOR POLICY REPORT

Exploring Digital Government transformation in the EU

Analysis of the state of the art and review of literature

Authors: Egidijus Barcevičius, Guoda Cibaitė, Cristiano Codagnone, Vaida Gineikytė, Luka Klimavičiūtė, Giovanni Liva, Loreta Matulevič, Gianluca Misuraca, Irene Vanini

Editor: Gianluca Misuraca

2019

EUR 29987 EN

JRC TECHNICAL REPORT

Web Application Programming Interfaces (APIs): general-purpose standards, terms and European Commission initiatives

APIs4DGov study — digital government APIs: the road to value-added open API-driven services

Santoro, M., Vaccari, L., Mavridis, D., Smith, R. S., Posada, M., Gattwinkel, D.

2019

EUR 29870 EN

JRC SCIENCE FOR POLICY REPORT

Digital Transformation
In Transport, Construction, Energy, Government and Public Administration

2019

EUR 29782 EN

Navigating through Innovation & Foresight

Defining the path and framework conditions...

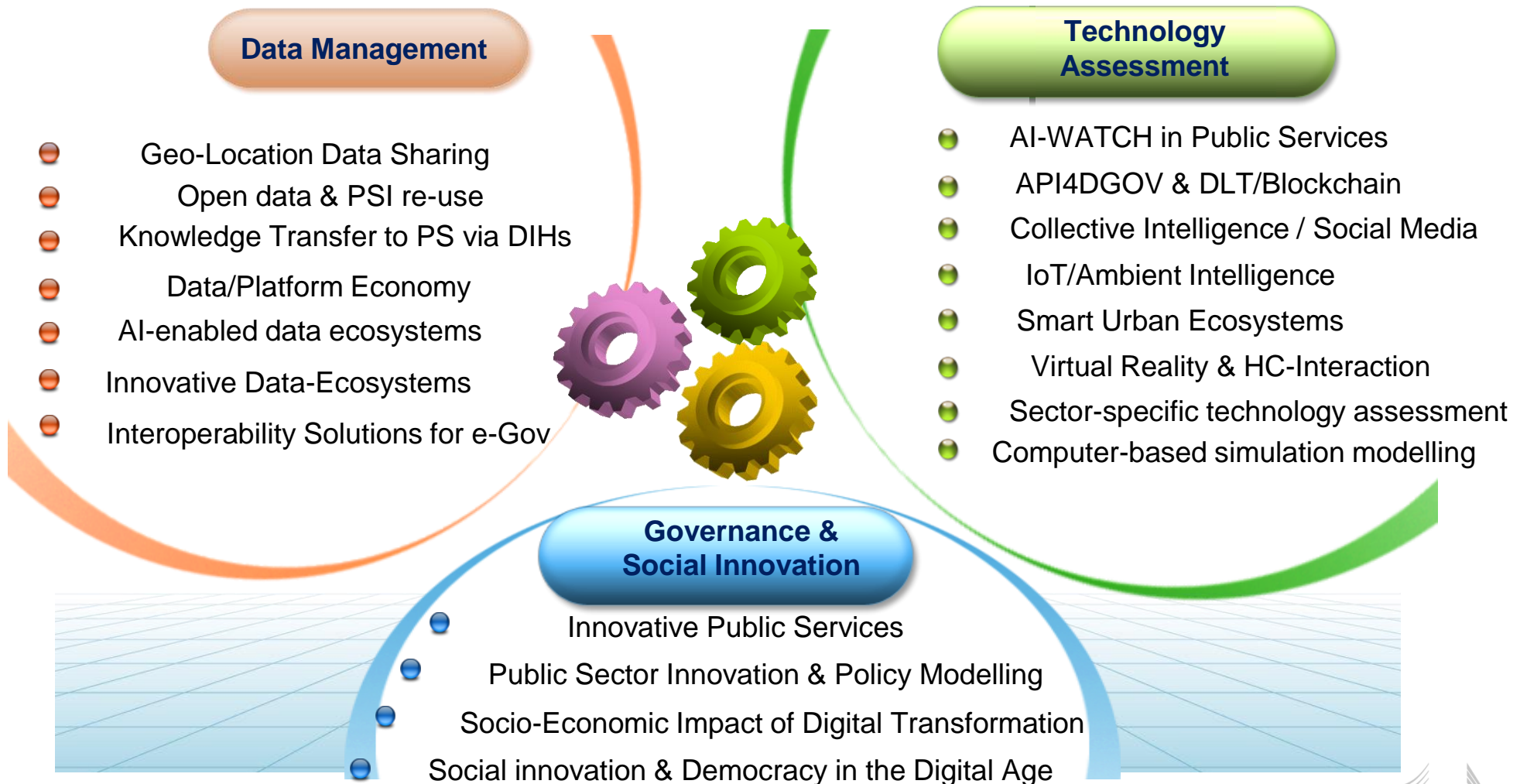## *...for radically innovating governance models*

- **Enable the technological conditions** & anticipate the possible risks and negative consequences of the digital transformation, data openness & online mass-collaboration...

- **Governance 'with & of' ICTs:** embrace 'change' to unleash institutional re-design through social innovation & citizens engagement

- **Harnessing data-powered intelligence** for evidence-based policy-making and better understanding the impact of ICTs on today's & tomorrow's society...

European Commission

Towards Digital Governance…

Data Management

- Geo-Location Data Sharing
- Open data & PSI re-use
- Knowledge Transfer to PS via DIHs
- Data/Platform Economy
- AI-enabled data ecosystems
- Innovative Data-Ecosystems
- Interoperability Solutions for e-Gov

Technology Assessment

- AI-WATCH in Public Services
- API4DGOV & DLT/Blockchain
- Collective Intelligence / Social Media
- IoT/Ambient Intelligence
- Smart Urban Ecosystems
- Virtual Reality & HC-Interaction
- Sector-specific technology assessment
- Computer-based simulation modelling

Governance & Social Innovation

- Innovative Public Services
- Public Sector Innovation & Policy Modelling
- Socio-Economic Impact of Digital Transformation
- Social innovation & Democracy in the Digital Age

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Time traveling into the long-term future...

Thanks

🌐 **EU Science Hub:** *ec.europa.eu/jrc*

🐦 **Twitter:** *@EU_ScienceHub / @gianlucamisu*

f **Facebook:** *EU Science Hub - Joint Research Centre*

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▶️ **YouTube:** *EU Science Hub*

✉️ *gianluca.misuraca@ec.europa.eu*

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