



**DIGITAL  
FOR  
PLANET**

# **DIGITAL INNOVATION FOR SUSTAINABLE DEVELOPMENT**

Dr Monique Calisti

President Digital for Planet – D4P

CEO Martel Innovate

*[monique.calisti@digital4planet.org](mailto:monique.calisti@digital4planet.org)*



[digital4planet.org](https://digital4planet.org)



# AT WORK TO MAKE IT HAPPEN!

## DIGITAL FOR PLANET –D4P

D4P is a non-profit association based in Switzerland that aims to support **the design, development and deployment of sustainable digital technologies, systems and solutions empowering people, communities and both public and private organisations** to address the major social, economic and environmental challenges humanity must face

#togetherisbetter #aloneisimpossible



## ICT FOR SUSTAINABLE DEVELOPMENT

Across several sectors - *smart energy/ grids, connected mobility, smart factories, smart buildings, smart farming, smart water*, digital technologies and solutions allow for:

- › More efficient use of resources
- › Optimisation of processes
- › Environmental impact monitoring
- › Access to essential (and not only) services, e.g., education, health care...



***“ICT has the potential to maintain global CO<sub>2</sub> emissions at 2015 levels, decoupling the past pattern where each 1% of growth in GDP equated to an 0.5% increase in CO<sub>2</sub> emissions, and promote sustainable growth through 2030”.***

SMARTer 2030, GESI

# > BUT AS WE KNOW



**DIGITAL TECHNOLOGIES AND  
THEIR OVERCONSUMPTION  
ARE ALSO A BIG PART OF  
THE PROBLEM**

## **Technology drives electricity demands**

- › Estimates show that **ICT could consume 20% of global electricity by 2025, generating 5.5% of CO<sub>2</sub> emissions - with 25 billion “connected things” by 2021 (!)**

## **Technology is damaging the environment**

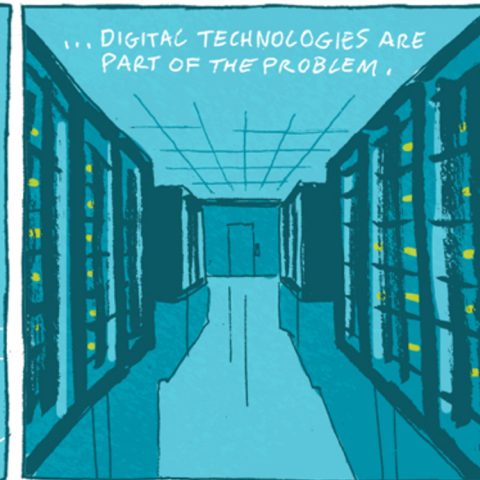
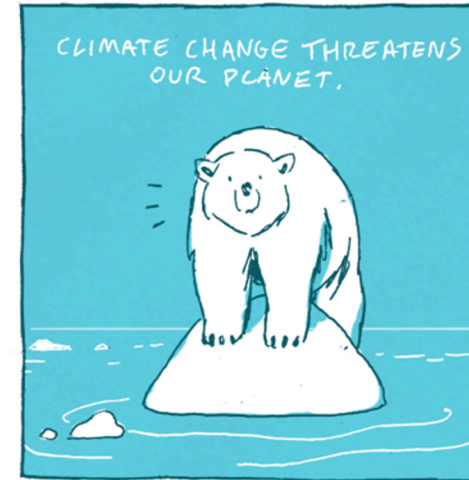
- › Production, use and disposal have direct effects
- › Mining rare minerals destroys natural ecosystems
- › **eWASTE - 53.6 million tonnes only in 2019 (!)**

## **Technology is inducing overconsumption**

- › Enforcing culture of disposability
- › Replacement rather than repair approach
- › Software development vs. hardware upgrades

# > OUR PLANET CALLS!

THE BALANCE OF POSITIVE VS NEGATIVE  
OUTCOMES OF ICT DEPENDS ON  
INCENTIVES AND POLICIES



WE NEED GREENING DIGITAL  
TECHNOLOGIES FOR THE SUSTAINABLE  
DEVELOPMENT OF OUR SOCIETY



**D4P IN ACTION**

## YOUR HUB TO GREEN DIGITAL INNOVATION

- > **Provide support to researchers and innovators** to make their green digital research and innovation happen – EU Green Deal, etc.
- > **Foster strategic road mapping, knowledge sharing and collaboration** among private and public organisations and individuals.
- > **Increase and facilitate access to a variety of resources** – open source green technologies, funding, events, publications, tools.
- > **Mentor and advise businesses and public institutions** on innovation road mapping and technology transfer towards sustainable ICT.
- > **Raise awareness about environmentally-friendly** digital behaviours and technologies via events, information, advert campaigns, ...
- > **Boost and support the creation of a global body** gathering innovators, researchers, policy makers, and civil society players.



**JOIN US!**

# > D4P WORKING GROUPS

- Green Cloud-Edge-IoT Computing Working Group
  - **March 11, 14-16h CET**
- **Climate-Neutral and Sustainable Smart Cities Working Group**
  - **TODAY!**
- Sustainable Next Generation Internet WG
  - **April 14, 14-16h CET**
- Sustainable Next Generation Smart Networks and Services WG
  - **June 3, 14-16h CET**



!!! AND DIGITAL FOR PLANET  
IS HERE TO HELP!



# **GREEN OPPORTUNITIES IN HORIZON EUROPE**

# > THE EUROPEAN GREEN DEAL

The European Green Deal is a top EC priority. It is the plan to make the EU economy sustainable by ensuring:

- > There are no net emissions of greenhouse gases by 2050
- > Economic growth is decoupled from resource use
- > No person and no place is left behind

**THE EUROPEAN GREEN DEAL INVESTMENT PLAN**

The European Green Deal Investment Plan is based on 3 dimensions:

- FINANCING**  
Mobilising at least €1 trillion of sustainable investments by 2030.
- ENABLING**  
Providing incentives to unlock and redirect public and private investment.
- PRACTICAL SUPPORT**  
The Commission will provide support to public authorities and project promoters in planning, designing and executing sustainable projects

#EUGreenDeal

European Commission



# THE EUROPEAN GREEN DEAL

It is an essential part of **HORIZON EUROPE** and it proposes an [ACTION PLAN](#) to:

- › Boost the efficient use of resources by moving to a clean, circular economy
  - In March 2020, the EC adopted the [New Circular Economy Action Plan](#)
- › Restore biodiversity and cut pollution

The EC launched a **EUR 1 billion Call** for research and innovation projects that respond to the climate crisis and help protect Europe's unique ecosystems and biodiversity (closed in January) – as part of H2020. Projects are expected to start Q3 2021



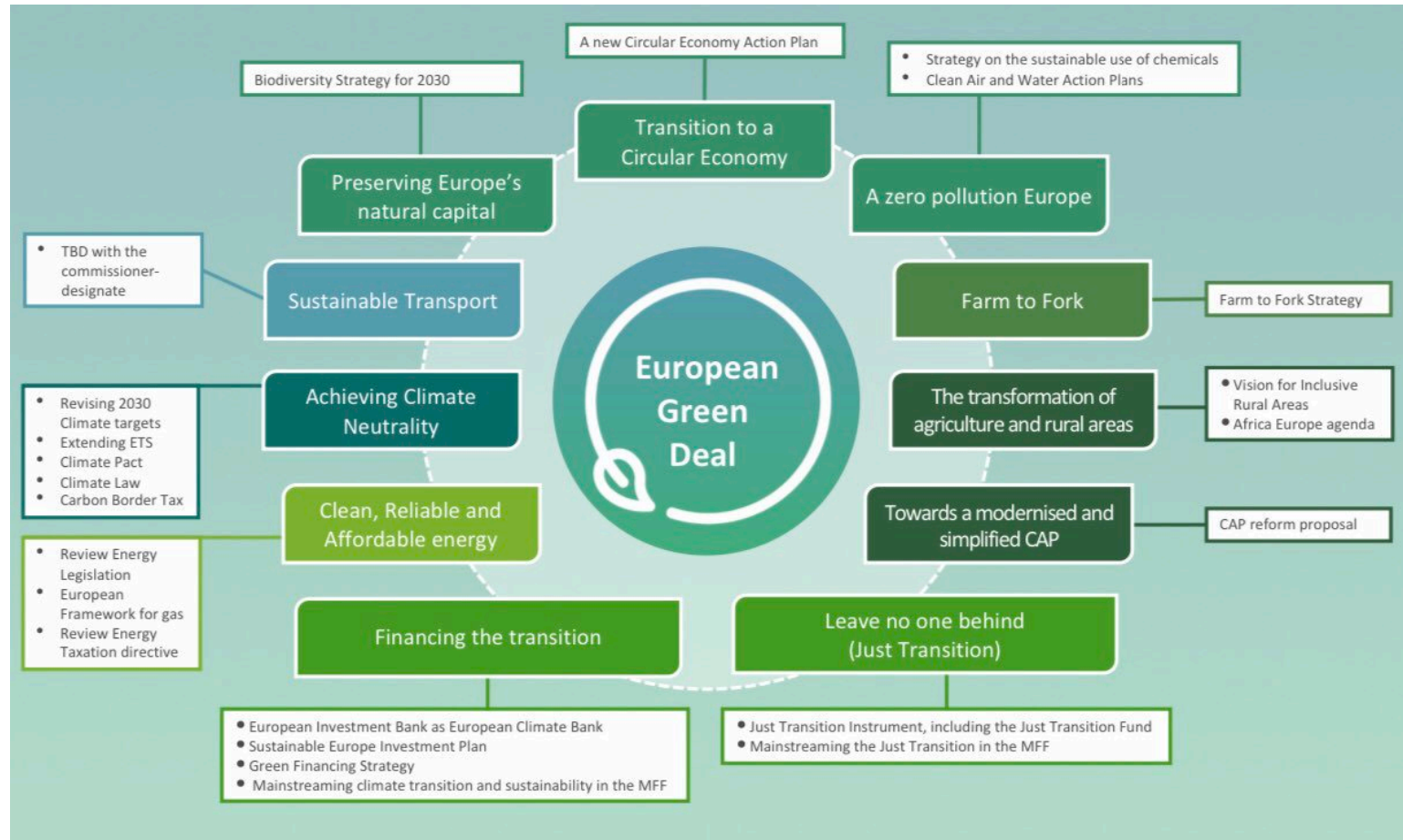


# THE EUROPEAN GREEN DEAL

## HOW TO GET THERE?

- › Investing in environmentally-friendly technologies
- › Supporting industry to innovate
- › Rolling out cleaner, cheaper and healthier forms of private and public transport
- › Decarbonising the energy sector
- › Ensuring buildings are more energy efficient
- › Working with international partners to improve global environmental standards
- › A **European Climate Law** has been proposed - a legally binding target of net zero GHG emissions by 2050
- › **Just Transition Mechanism** establishes a set of financial tools/mechanisms for most affected regions in Europe - mobilising at least €100 billion over the period 2021-2027

# THE EUROPEAN GREEN DEAL PRIORITIES



FIRST HORIZONEU CALLS ARE EXPECTED TO PUBLISHED IN APRIL 2021 – DRAFT CIRCULATED CLOSING BEGINNING OF Q3 2021



# GETTING READY FOR HORIZON EU CALLS



## SEVERAL ENTRY POINTS

- **CLUSTERS of relevance**

- 2) Culture, Creativity and Inclusive Society
- 5) Climate, Energy and Mobility
- 6) Food and Natural Resources

- **MISSIONS of relevance**

- **CLIMATE-NEUTRAL AND SMART CITIES**
- Adaptation to climate change including societal transformation
- Healthy oceans, seas, coastal and inland waters
- Soil health and food

- **EIC funding** for green technologies

# ZOOMING INTO CLUSTER 4

## **DIGITAL, INDUSTRY AND SPACE**

- **DESTINATION 1 - CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION**
  - Twin Green and Digital Transition 2021 Call
- **DESTINATION 2 - INCREASED AUTONOMY IN KEY STRATEGIC VALUE CHAINS FOR RESILIENT INDUSTRY**
  - A digitised, resource-efficient and resilient industry 2021 Call
- **DESTINATION 4 – DIGITAL AND EMERGING TECHNOLOGIES FOR COMPETITIVENESS AND FIT FOR THE GREEN DEAL**
  - Digital and emerging technologies for competitiveness and fit for the GD 2021 Call



CALLS ARE EXPECTED TO PUBLISHED  
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CLOSING BEGINNING OF Q3 2021



A close-up photograph of two hands shaking in a firm grip. The hands are positioned in the center of the frame, with the fingers interlocked. The background is a soft-focus field of green grass and yellow wildflowers, suggesting an outdoor, natural setting. The lighting is bright and natural, highlighting the texture of the skin and the vibrant colors of the flowers.

**JOIN DIGITAL FOR PLANET**





# MEMBERSHIP PROGRAMME

D4P membership Programme includes **Full Membership** and **Associate Membership**

**Full Members** are entities with legal **personality** that can participate in all the activities of the Association, have full voting rights in the General Assembly, and propose representatives that can be elected to be part of the Executive Committee, who are entitled to the right to vote during the meetings of the Executive Committee.

Full members annual membership fee:

- › Large industry: € 5'000
- › Research/academic institutions: € 2'000
- › SMEs/Start-ups: € 2'000
- › Municipalities/Public authorities: € 2'000
- › NGOs / Non-profit: € 1'200

**Associate members** are individual persons, **students**, etc. that can participate in all the activities of the Association, including the General Assembly, without voting rights and not eligible to be elected as part of the Executive Committee.

- › Associate members annual membership fee 250 €
- › D4P annual membership fee for students is 100 €.

**To apply for Membership**, please fill in the form at:

- › <https://digital4planet.org/membership-programme>

*Your Application will be sent to the D4P Executive Committee for approval and you will be informed about the status of your application within a short period.*

# > WHY JOINING D4P?

## AS A MEMBER YOU...



### **Build and drive a large and strong ecosystem**

of private and public organisations engaged in the development and adoption of sustainable digital technologies.



### **Liase, network and foster synergies with**

major industry players, innovative Startups/ SMEs, research organisations, NGOs, public authorities.



### **Learn about and gain access to public funding opportunities**

to help finance the green transformation of your business and organisation.



### **Get privileged access to knowledge, tools and networks**

for your organisation to become more environmentally sustainable.

# > WHY JOINING D4P?

## AS A MEMBER YOU...



**Learn, contribute, influence and amplify policy and regulatory-driven efforts** by participating in dedicated initiatives and debates.



**Participate in expert workshops, policy-driven discussions** on green digital transformation for the sustainability of our economies and societies.



**Get privileged access to events showcasing green ICT technologies** and solutions to promote, exhibit, present and learn about digital sustainable development.



**BE PART OF IT TO SAVE OUR PLANET!**

It's a , a privilege and an opportunity we cannot afford to miss.

## GOVERNANCE

**The General Assembly (GA)** is the Association's supreme authority. It is composed of all the D4P members.

**The Executive Committee (EXEC)** is composed of at least the President, the Vice-President and the Treasurer, all elected by the GA.

- › To the extent possible, the composition of the EXEC shall be such that the different categories of Full Members are adequately represented.
- › The EXEC members work on a volunteer basis and as such can only be reimbursed for their actual expenses and travel costs.

## OPERATIONAL STRUCTURE

**Working Groups (WGs)** are the main instrument to develop D4P activities and are established to take care of specific matters under the authority of the EXEC.

- › Working Groups gather D4P members focusing on sector-specific or cross-disciplinary issues related to D4P mission and ambition.
- › All members can propose the creation of new Working Groups, gathering consensus and obtaining approval from EXEC.

# > STAY CONNECTED



[digital4planet.org](https://digital4planet.org)



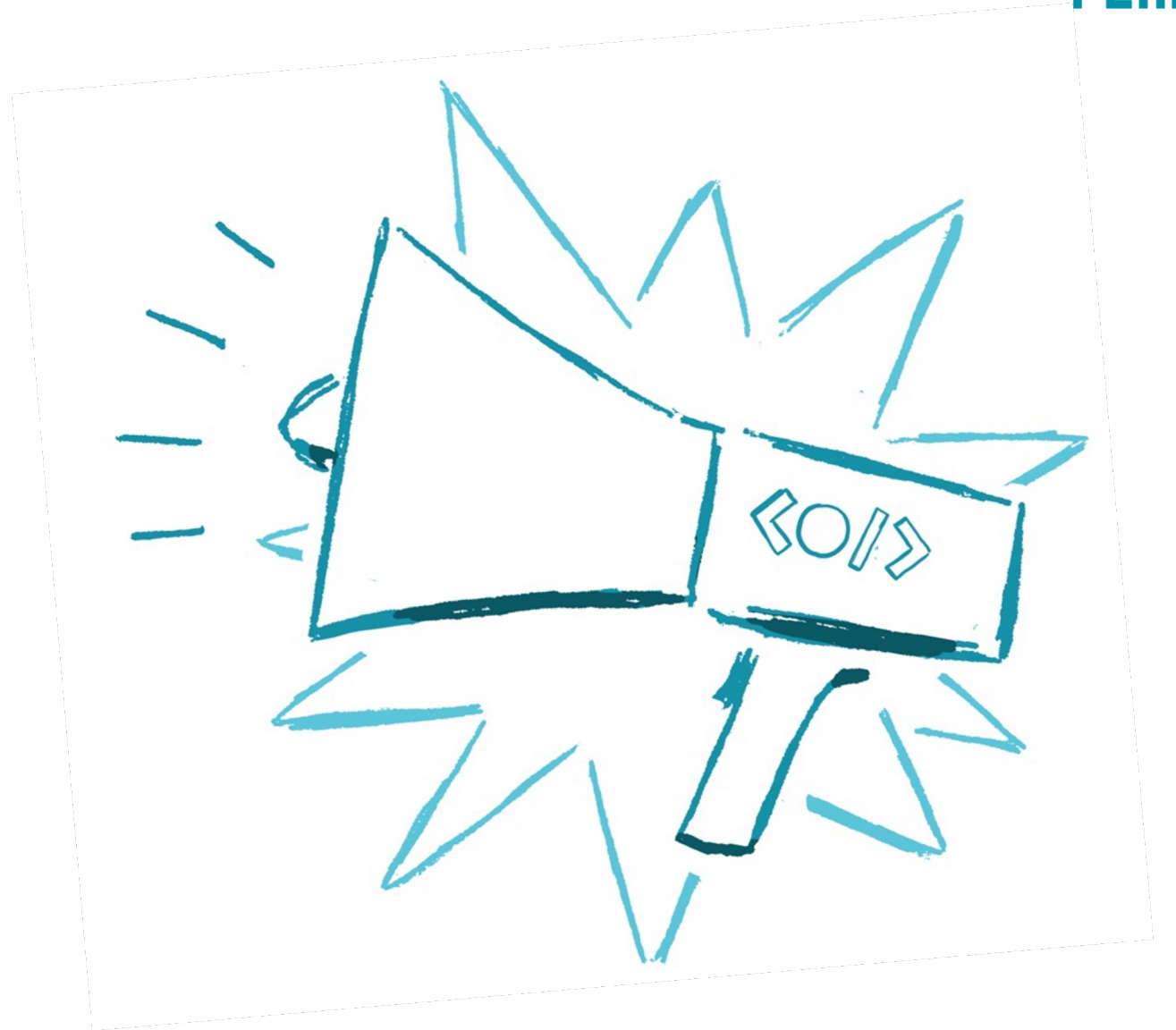
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THANK YOU

FOR YOUR

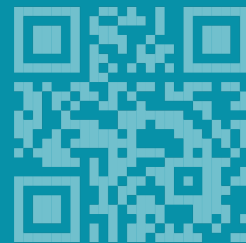
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