DIGITAL INNOVATION FOR SUSTAINABLE DEVELOPMENT

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DIGITAL FOR PLANET –D4P

D4P is a <u>non-profit association based in Switzerland</u> that aims to support **the design, development and deployment of <u>sustainable digital</u> technologies**, **systems and solutions <u>empowering people</u>,** **communities and both public and private organisations** to address the major social, economic and environmental challenges humanity must face
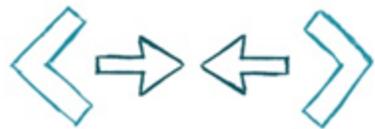
#togetherisbetter   #aloneisimpossible
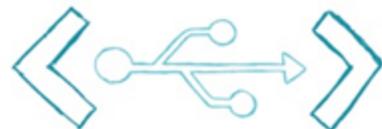
DIGITAL FOR PLANET- VISION

D4P envisions a digitally empowered society that is ethically responsible and strives to honour planetary and technological boundaries for a sustainable evolution of humanity

PAVE THE WAY

to a sustainable digital and resource-efficient economy and society that create value to all, while protecting limited resources

AVOID WIDENING INEQUALITY

of the global digital divide and instrumental exploitation of information asymmetry for unethical purposes

BOOST, SHAPE AND SUPPORT

the growth of a global community of players, at work for a digitally empowered society in the respect of our planet

CONNECT AND LIASE

to foster collaboration and knowledge sharing increasing access to and development of sustainable ICT

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_2 emissions at 2015 levels, decoupling the past pattern where each 1% of growth in GDP equated to an 0.5% increase in CO_2 emissions, and promote sustainable growth through 2030".

SMARTer 2030, GESI

BUT AS WE KNOW

DIGITAL FOR PLANET

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_2 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

DIGITAL FOR PLANET

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
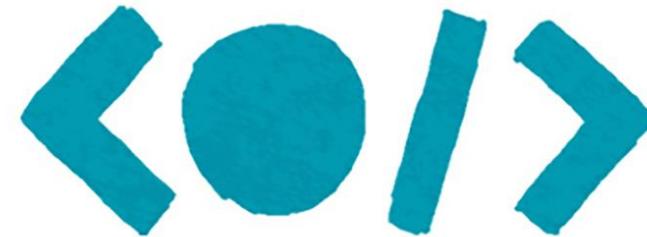
- **Green Cloud-Edge-IoT Computing Working Group**
  - **TODAY!**
- Climate-Neutral and Sustainable Smart Cities WG
  - **March 16, 14-16h CET**
- Sustainable Next Generation Internet WG
  - **April 14, 14-16h CET**
- Sustainable Next Generation Smart Networks and Services WG
  - **May 26, 14-16h CET**

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

GREEN OPPORTUNITIES IN HORIZON EUROPE

THE EUROPEAN GREEN DEAL

The European Green Deal is 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

H2020 EU GREEN DEAL CALL FOCUS

MAIN PART OF THE CALL FOCUSSING ON INNOVATIVE SOLUTIONS AND DEMONSTRATIONS

8 THEMATIC AREAS – comprising several topics

AREA 1
Increasing Climate Ambition: Cross sectoral challenges

AREA 2
Clean, affordable and secure energy

AREA 3
Industry for a clean and circular economy

AREA 4
Energy and resource efficient buildings

AREA 5
Sustainable and smart mobility

AREA 6
Farm to Fork

AREA 7
Ecosystems and Biodiversity

AREA 8
Zero-pollution, toxic free enviroment

AREA 9
Strengthening our knowledge in support of the European Green Deal

AREA 10
Empowering citizens for the transition towards a climate neutral, sustainable Europe

AREA 11
International cooperation (focus on cooperation with Africa and the Mediterranean)

3 HORIZONTAL AREAS

HOW TO GET THERE?

› Investing in <u>environmentally-friendly technologies</u>

› Supporting <u>industry</u> to innovate

› Rolling out cleaner, cheaper and healthier forms of <u>private and public transport</u>

› <u>Decarbonising</u> the energy sector

› Ensuring <u>buildings</u> are more energy efficient

› Working with international partners to improve <u>global environmental standards</u>

› 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

GETTING READY FOR HORIZON EU CALLS

SEVERAL ENTRY POINTS

- **CLUSTER 5 and CLUSTER 6**
  - Climate, Energy and Mobility
  - Food and Natural Resources
- **MISSIONS**
  - Adaptation to climate change including societal transformation
  - Healthy oceans, seas, coastal and inland waters
  - Climate-neutral and smart cities
  - Soil health and food
- **EIC funding** for green technologies

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 IN APRIL 2021 – DRAFT CIRCULATED

CLOSING BEGINNING OF Q3 2021

HORIZON 2020

JOIN DIGITAL FOR PLANET

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.

Liaise, 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?

DIGITAL FOR PLANET

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.

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.

DIGITAL FOR PLANET – MODUS OPERANDI

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.

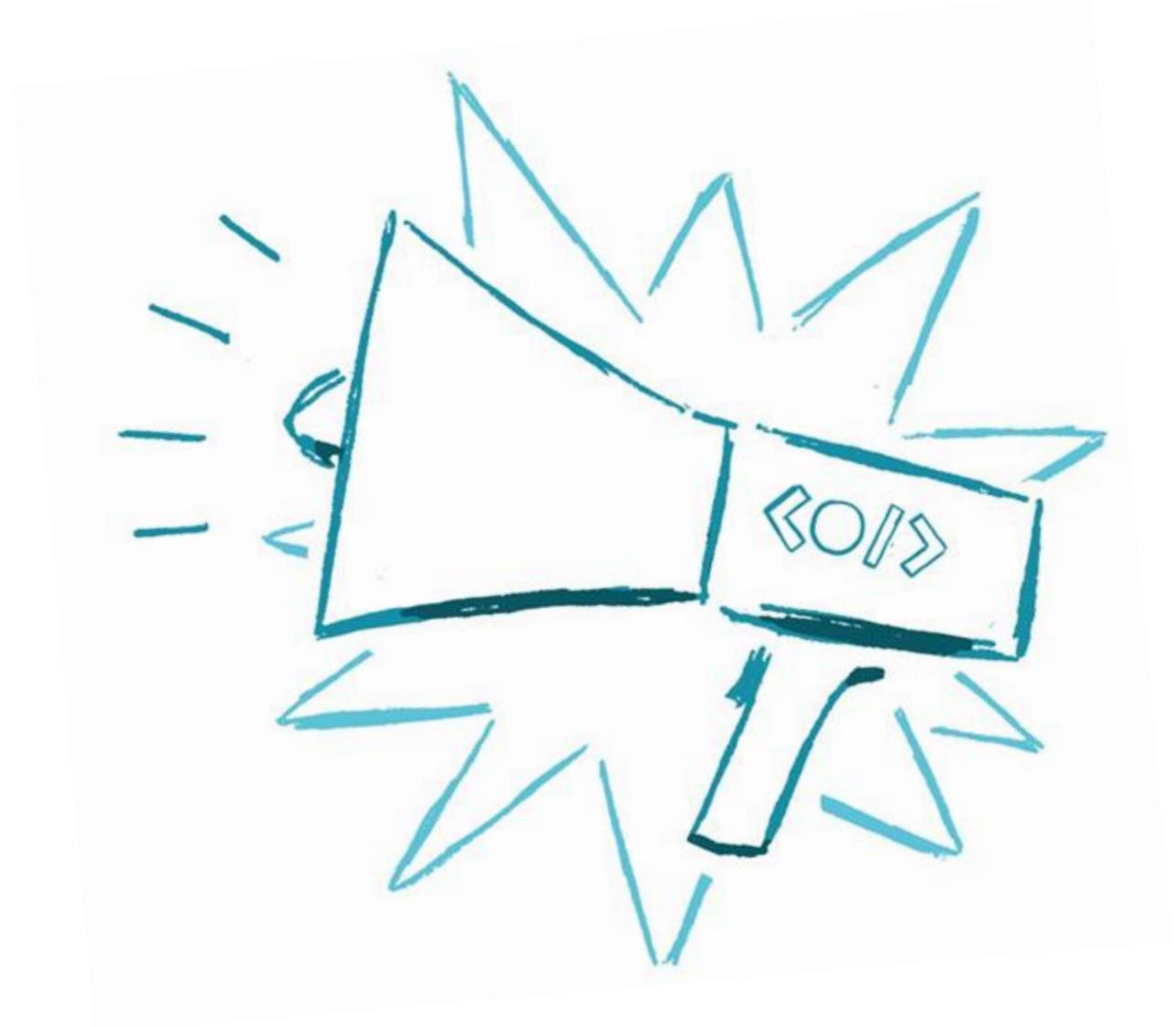# STAY CONNECTED

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