# The Digital-Environment System Coalition (DESC)

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International Symposium

European Approaches Towards a Sustainable Digitalization

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https://ict4d.org.uk/desc

### 5 minutes on:



- Short introduction of the Digital-Environment System Coalition (DESC)
- The potentials of such scientific networking processes to drive policy debate towards stronger sustainability focus of digitalization?
- What (else) would be needed to make digitalization work for sustainability?



East Africa Data Centre, Nairobi, Kenya

## The Digital-Environment System Coalition (DESC)

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## Many existing initiatives on digital sustainability





- · Cambridge Institute for Sustainability Leadership and the environmental footprint of cryptocurrency
- ClimateAction.tech using the skills of tech workers to accelerate climate action
- climatecare and their work on the carbon footprint of the Internet
- Digitalisierung und sozial-ökologische Transformation (Digitalization and Sustainability) project - a cooperation between the Technische Universität Berlin (TU Berlin) and the Institute for Ecological Economy Research (IÖW)
- EIT Raw Materials Academy especially learning map of the lifecycle of a phone
- Ericsson's understandings of environmental sustainability
- The UK's EPSRC Digital Economy's Theme on Sustainable Digital Society
- EuroDig wiki drowning in data lists useful references and resources
- The European Commission's work on digital sustainability
- The European Space Agency's work on space trash and debris
- GeSI's work seeking to enable digital sustainability
- The GIP Digital Watch observatory on Digital and Environment
- . The Global e-Waste Statistics Partnership (GESP) founded by the ITU, UNU and ISWA
- Greenpeace's work on greener electronics
- The Green Web Foundation including Green Web Datasets
- . The GSMA's work at the interface between mobiles and climate change
  - 2021 report on The Role of Digital and Mobile-Enabled Solutions in Addressing Climate Change
- The ITU's activities on ICTs for a sustainable world (see also ICT-Centric Economic Growth, Innovation and Job Creation)
- The Restart Project and associated initiatives
- The Shift Project
- The StEP initiative on e-waste
- Sustainable Digital Infrastructure Alliance
- · Some of the UN's work on the impact of digital technologies
- The World Economic Forum's circular vision for electronics

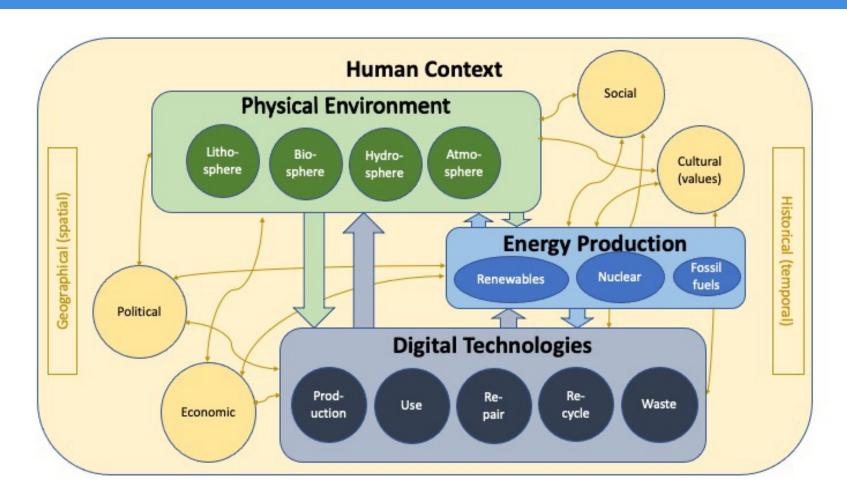


#### Crafting a new more holistic systemic framework - exploring the positives and negatives within this system





Cultural Organization . Royal Holloway, University of London

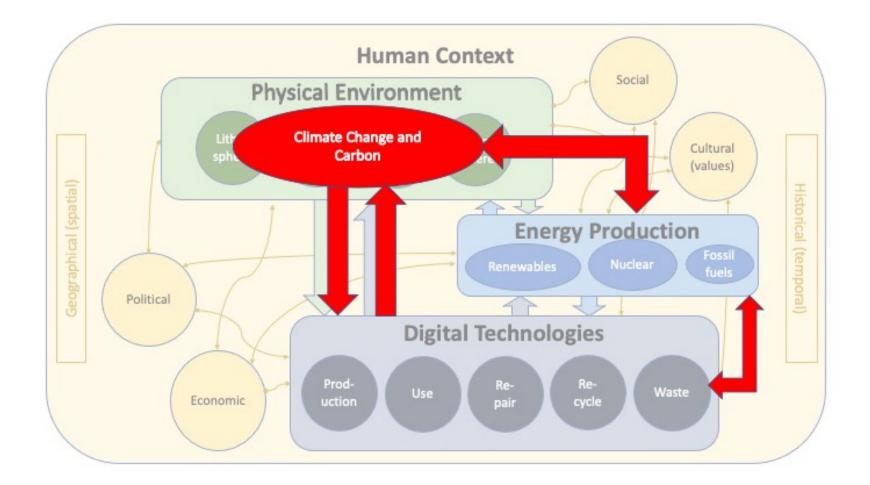


## ... rather than mainly





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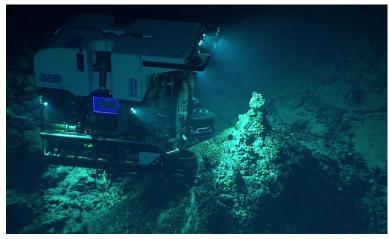


## Clear actions and outputs



- Establishing a flexible framework
- Developing new research clusters
- Engaging in policy dialogue and disseminations
  - Workshops
  - Diversity of publications
- Towards a 2025 report
  - Five years before end of Agenda 2030





## Potentials of scientific networking processes to drive policy debate







### **Potentials**



- Current positions are very entrenched
  - Sustainable Development Goals (SDGs)
  - The Climate Change agenda (and the carbon fetish)
  - Driven very largely by powerful private sector interests
  - Digital tech almost always seen in a positive light
- But that makes it all the more interesting
  - Strong evidence base
  - Working with relevant stakeholders
    - Governments, private sector, civil society,
  - Convincing arguments
  - Vehement dissemination of ideas
  - Active engagement with policy makers



# Making digitalization work for sustainability

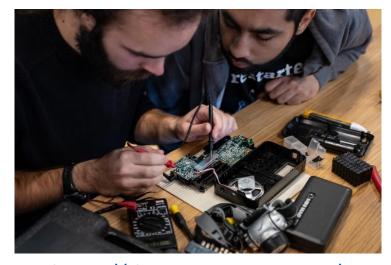




## Making digitalization work for sustainability



- Depends on how sustainability is defined!
- Our agenda is very radical
  - Claims that much use of digital tech is actually "antisustainable"
  - Must move beyond just climate change to a holistic view of the digital-environment system
- Must mitigate the harms if the benefits are to be realised



https://therestartproject.org/

## **Thanks**



To find out more

https://ict4d.org.uk/desc

