

# The EEA-Eionet digitalisation framework

*and its European policy and governance context  
with some reflection on health*

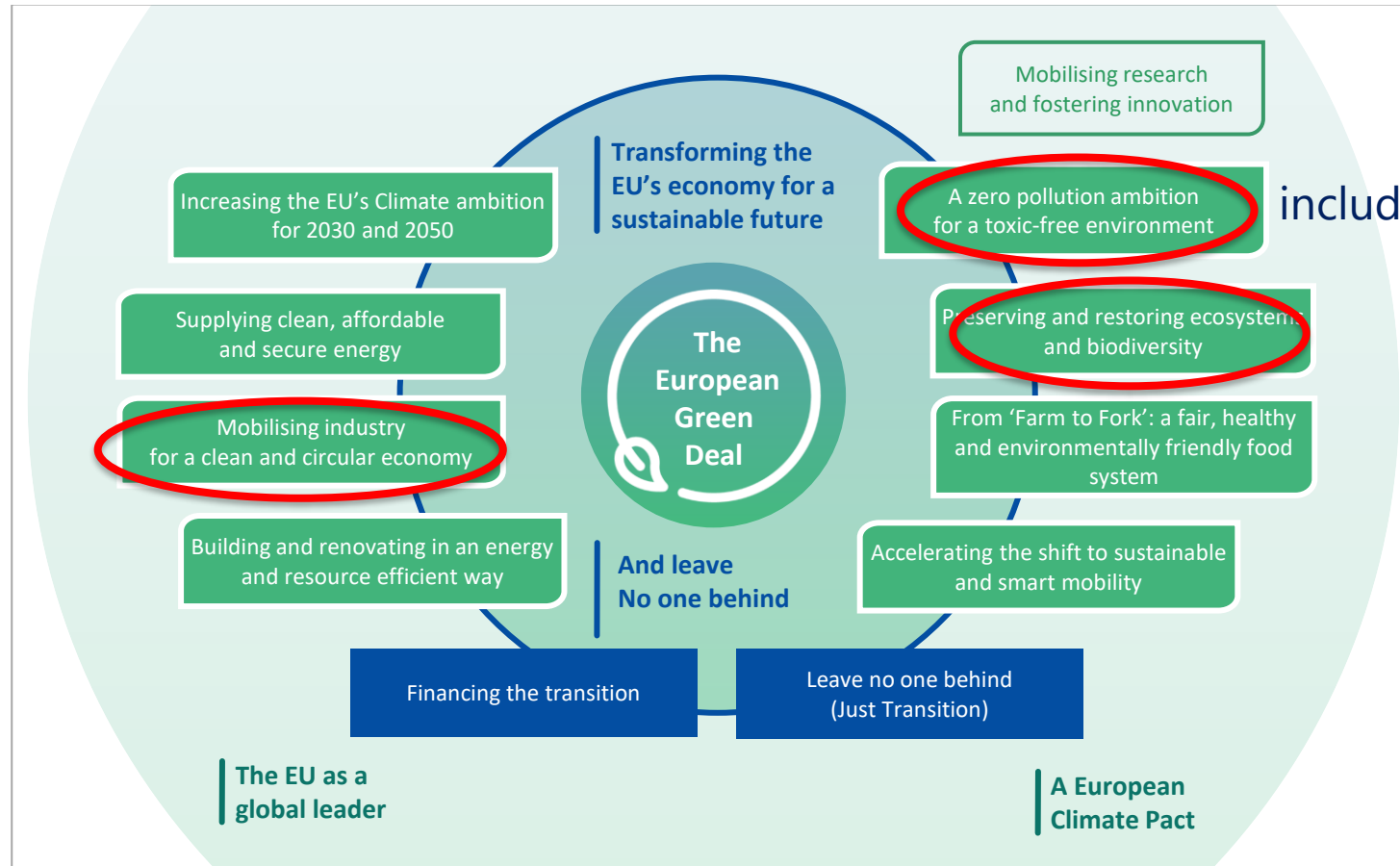
ECDC consultation on digitalisation  
Tuesday 25<sup>th</sup> May 2021

Stefan Jensen



# Green Deal and 8<sup>th</sup> Environmental Action program - our policy context

## The European Green Deal



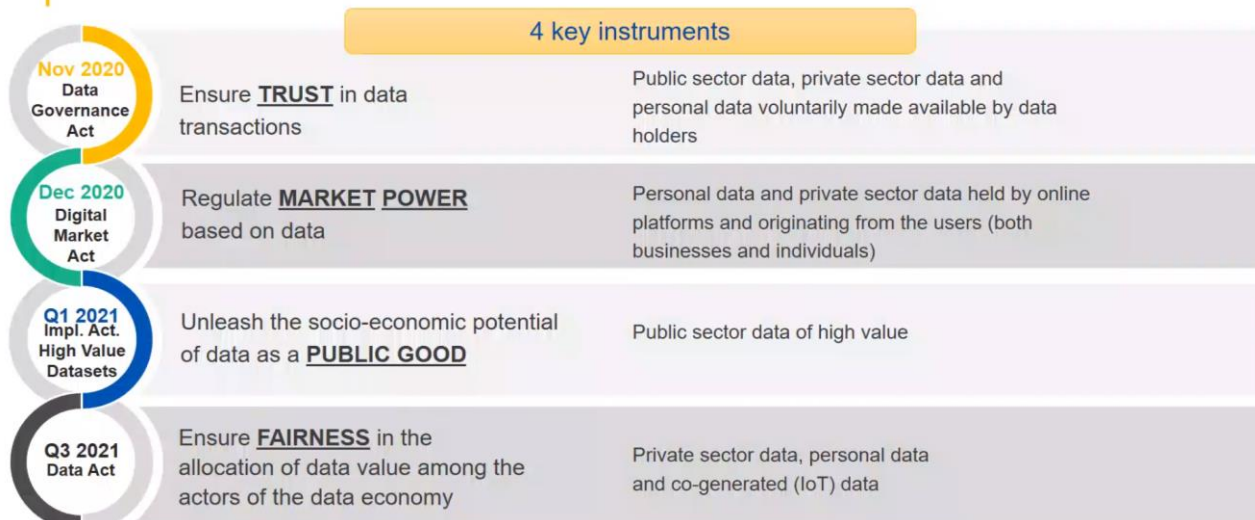
including strong health aspects

current focus

Image courtesy: European Commission

# EU Data Governance: Data Strategy, Data spaces, Green Data Task Force

## European Strategy for Data



Together with: **White paper on Artificial Intelligence** (02/2020)



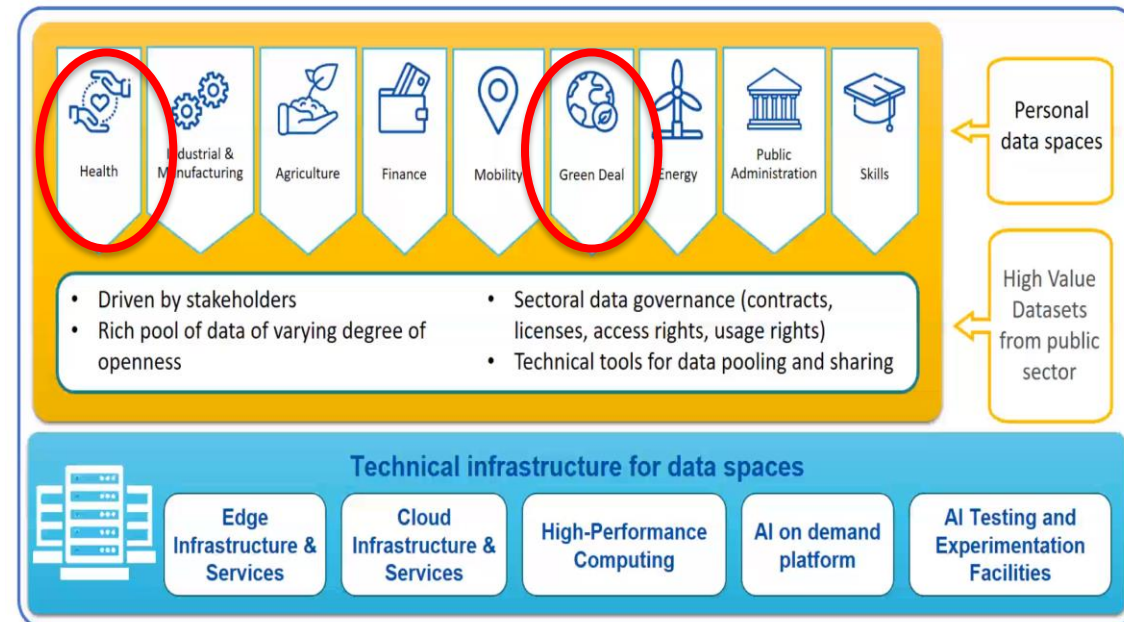
### Green Data Task Force

under the Environmental Knowledge Community (EKC)

EEA co-lead with DG ENV

Focus on governance, inventory, pilot use cases

## Common European data spaces



Including e.g.: **Open Science data cloud, Copernicus DIAS, GAIA-X federated platform**

*Image courtesy: European Commission*

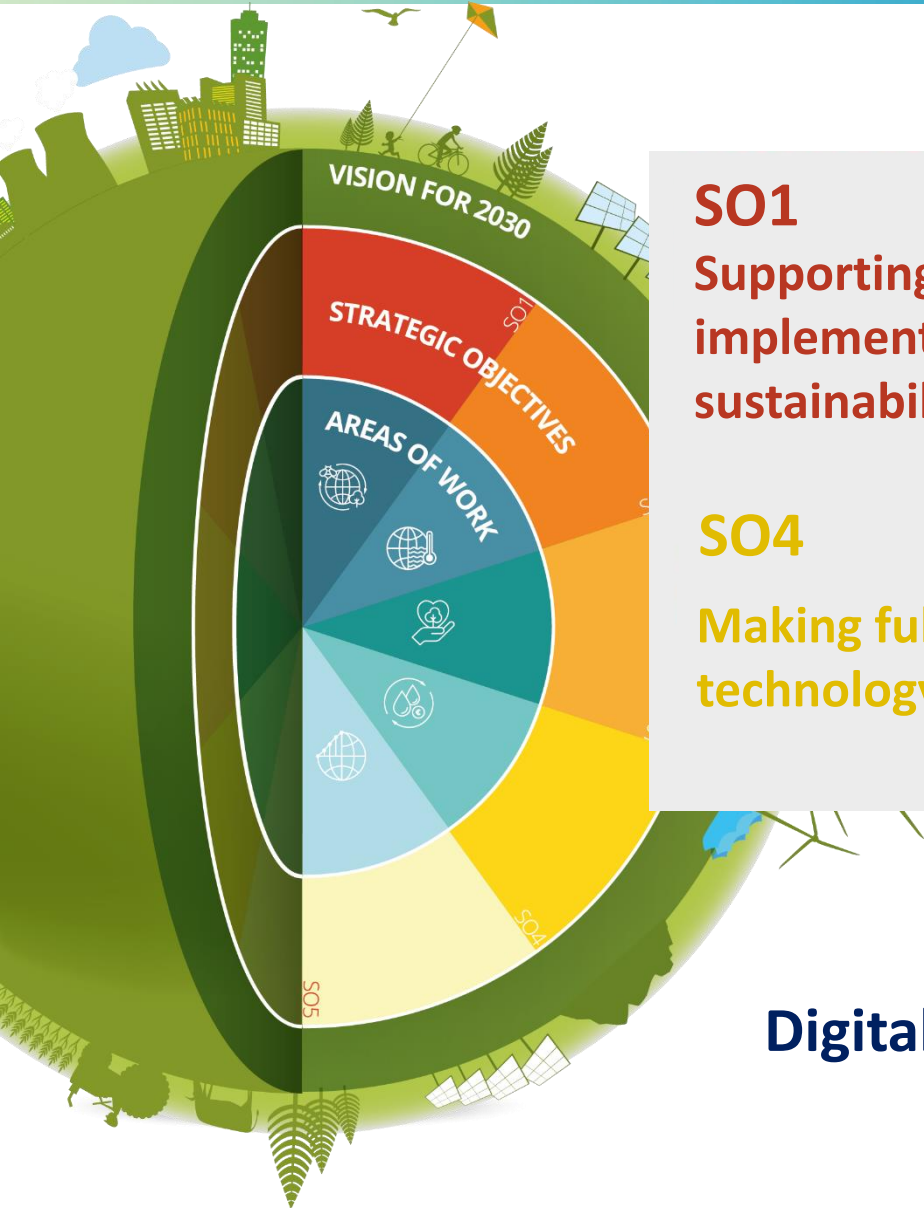
# Green data space – underlying EU activities

- Initiate „**GreenData4All**“ initiative – evaluate and review INSPIRE and Access to Environmental Information Directives (Q4 2021 – Q1 2022)
- Roll out re-usable data-services for large data volumes (Q4 2021)
- Data space for **smart circular applications**, digital product policy and passports ... (2021)
- Pilot for early implementation in the area of „**zero pollution ambition**“ (Q4 2021)
- Launch „**Destination Earth**“ initiative - bringing together scientific and industrial excellence to establish digital model of the earth (*starting 2021*)

# Health data space – underlying EU activities

- Develop sector-specific legislative or non-legislative measures for the European health data space
- Take measures to strengthen citizens' access to health data
- Facilitate the establishment, in accordance with Article 40 of the GDPR, of a Code of Conduct for processing of personal data in health sector (2020-23)
- **Deploy the** data infrastructures, tools and computing capacity for the **European health data space**, support the development of national electronic health records (EHRs)
- Scale up cross-border exchange of health data; link and use, through secure, federated repositories (1<sup>st</sup> phase by 2025)
- Enable the exchange of electronic patient summaries and ePrescriptions between 22 Member States participating in the eHealth Digital Service Infrastructure (eHDSI) by 2022
- start cross-border electronic exchanges through eHDSI of medical images, laboratory results and discharge reports

# EEA-Eionet Strategy 2021-2030: Our strategic objectives



**SO1**  
Supporting policy  
implementation and  
sustainability transitions

**SO2**  
Providing timely input to  
solutions for  
sustainability challenges

**SO3**  
Building stronger  
networks and  
partnerships

**SO4**  
Making full use of the potential of data,  
technology and digitalisation

**SO5**  
Resourcing our shared ambitions

**Digitalisation as a key element and as glue between objectives**





## MAKING EEA EIONET FIT FOR THE DIGITAL AGE



In most  
policies  
and strategies:  
Green Deal  
Digital Strategy

Across  
partners  
Across society

DIGITALISATION IS DRIVER AND  
ENABLER

# EEA's vision on digitalisation



Jointly with our Eionet and international partners, we are committed to fully exploring the potential of digitalisation in achieving sustainability transitions while reducing our environmental footprint. We co-create and disseminate the required knowledge to implement digitalisation, and will substantially strengthen our data centre functions including data intelligence.



# Digitalisation – tools and challenges



Innovative technologies



Big data



Sensors



Blockchain



Artificial Intelligence



Machine learning



Internet of Things



Digital Twins



Ecological footprint



Rebound effects



Digital divide

# EEA-Eionet digitalisation framework 2030



*10-page document – available as of April 2021*

Linking EEA-Eionet strategy with implementation activities

Identifying activity areas

Listing needed actions

Establishing a dynamic roadmap with concrete activities

# EEA-Eionet digitalisation framework 2030



## Provide practical and innovative solutions

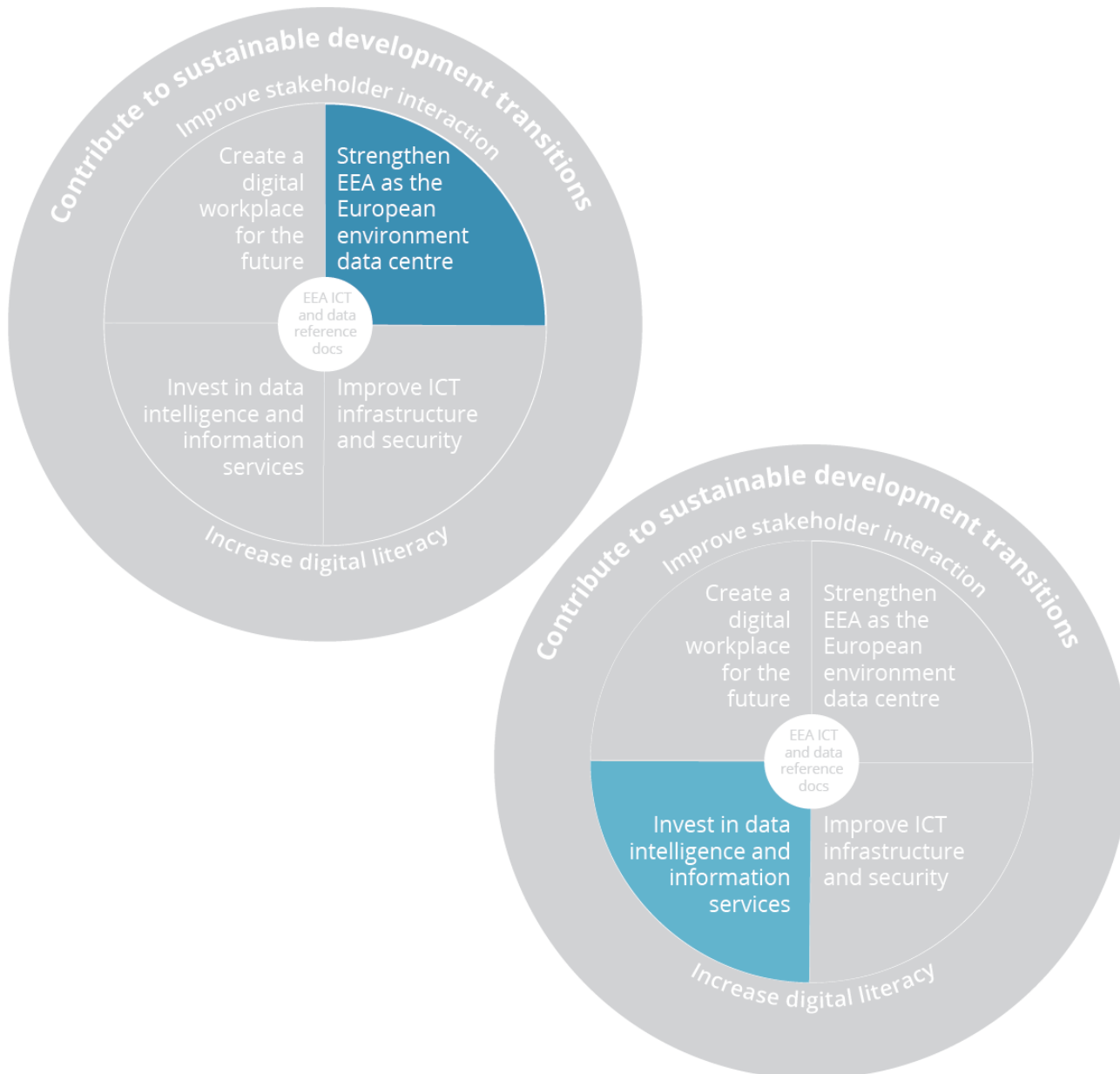
### *Examples:*

- Enable teleworking
- Improve videoconferencing and other communication tools\*
- Modernise workflow management
- Enhance energy efficiency
- Co-location of infrastructure
- Enhance IT security
- Security monitoring (CERT-EU)
- ...

\* shared actions



# EEA-Eionet digitalisation framework 2030



## Enhance data intelligence and Information services and improve the data centre functions

- Develop the EEA data hub
- Enhance Reportnet 3.0
- Use new and alternative data sources
- Strengthen data analysis platform
- Improve communication tools
- Update data policy with FAIR and TRUST principles
- Setup AI/ML projects\*
- Participate in Digital Twins\*

\* shared actions



# EEA-Eionet digitalisation framework 2030



## Take action

- Promote energy efficiency
- Do green procurement
- Recycle electronic waste
- ...

## Create and share knowledge

- Engage in thematic knowledge creation projects
- Innovate sustainable digital concepts
- Interlink with initiatives at national and international level\*
- Contribute to policy debates
- ...

\* shared actions





# EEA-Eionet digitalisation framework 2030



## Improve stakeholder interaction

- Evaluate stakeholder needs, modernise tools\*
- Involve stakeholders in digitalisation projects\*
- Increase stakeholder dialogue
- Support national and international processes
- ...

## Increase digital literacy

- Move to a digital mature organisation
  - Develop digitalisation in the EEA learning and development framework
  - Inform staff and create ideas
  - Explore the usage of the EEAacademy
  - ...
- \* shared actions



# EEA-Eionet digitalisation framework 2030 – areas of action

## Initial actions on the roadmap



**Create and share  
knowledge**



**De-carbonisation**  
potential in transport,  
energy, agriculture



**Waste  
management**



**AI and sensors for  
habitats  
monitoring**



**ML and forward-  
looking methods  
on water**



**Learning and  
development**



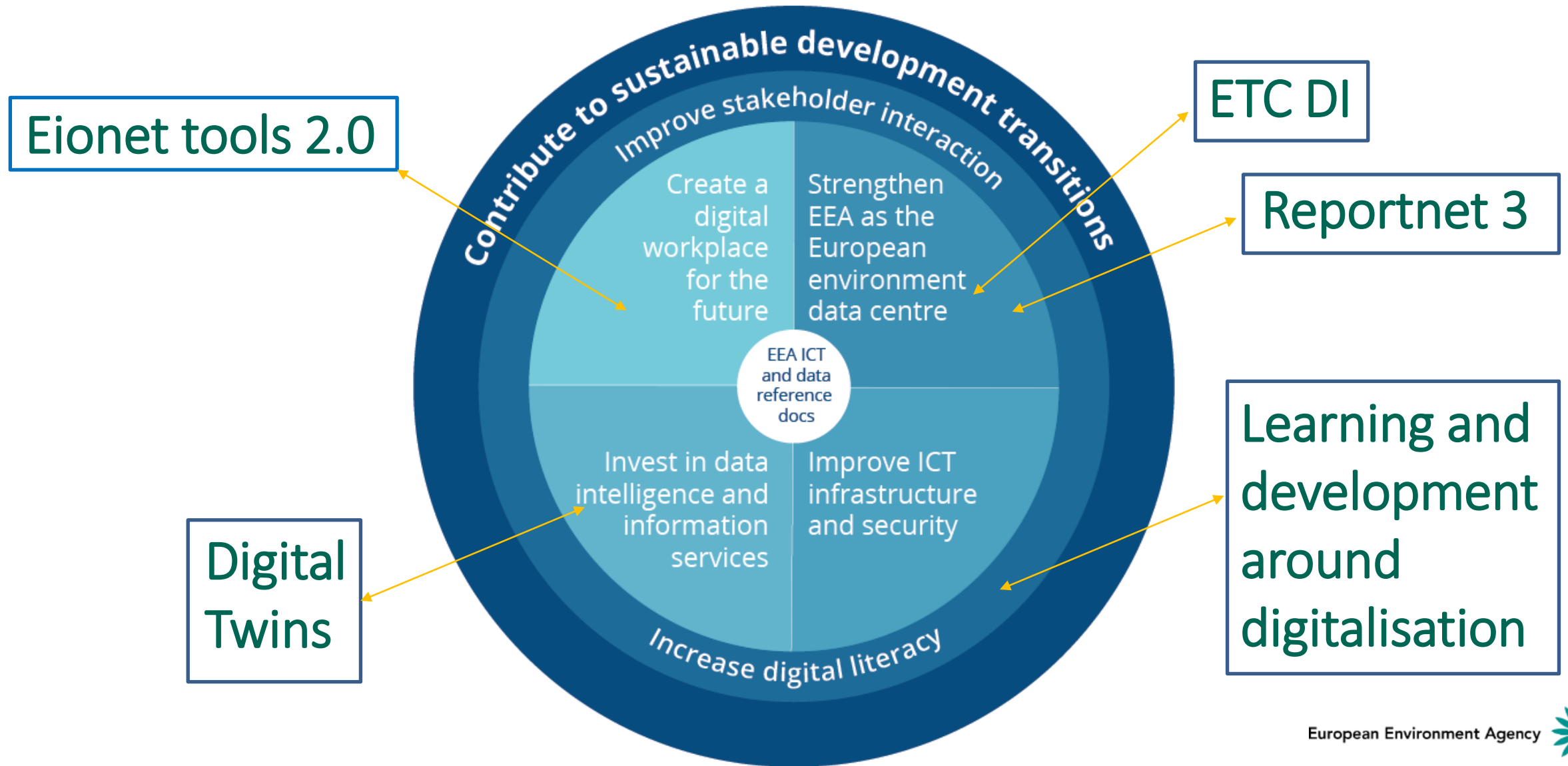
***Digital twins:***



**on water cycle and  
climate adaptation**



# Current actions with Eionet involvement and ...



# ... other stakeholder activities

**UNEP / DG CONNECT / CLIMA / ENV**

Joint learning and development needs

**Environmental Protection Agencies (EPA)  
network**

Joint learning and development needs

**UNECE**

Information exchange on projects of mutual interest

