

Environmental sustainability in a digital world.

The CODES Action Plan for a Sustainable Planet in the Digital Age



David Jensen, 20 September 2022 Coordinator, Digital Transformation Planet Positive 2030, IEEE

## Anyone ever wondered what it must be like to be the Secretary General of the UN?







#### Use this (40+ UN funds, programmes):



for Western Asia

**DPKO** Department of Peacekeeping Operations

OCHA Office for the Coordination of Humanitarian Affairs

OHCHR Office of the United Nations High Commissioner

SRSG/CAAC Office of the Special Representative of the

Secretary-General for Children and Armed Conflict

DSS Department of Safety and Security

OIOS Office of Internal Oversight Services

OSAA Office of the Special Adviser on Africa

for Human Rights

**OLA** Office of Legal Affairs

United Nations Forum on Forests

DFS Department of Field Support

and Conference Management

DPA Department of Political Affairs

**DPI** Department of Rublic Information

**DM** Department of Management

Departments and Offices

EOSG Executive Office of the Secretary-General

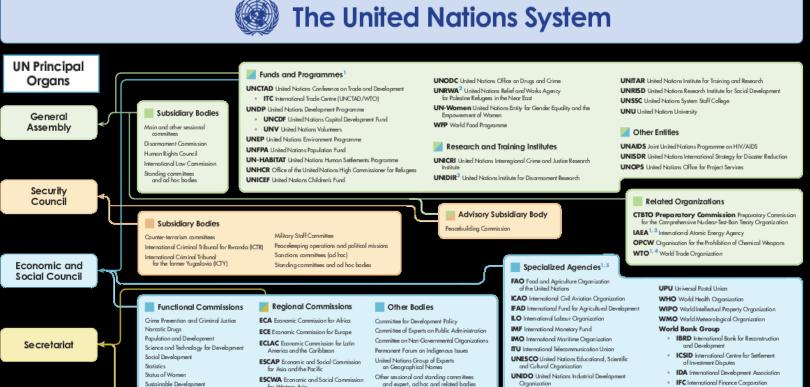
DESA Department of Economic and Social Affairs

DGACM Department for General Assembly

International Court of Justice

Trusteeship

Council



and expert, ad hoc and related bodies

To work with this (193 countries and SH)



#### To achieve this (169 targets):

















13 CLIMATE





15 LIFE ON LAND











UNWTO World Tourism Organization

SRSG/SVC Office of the Special Representative of the

Secretary-General an Sexual Violence in Conflict

the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States

UNODA Office for Disarmament Affair.

UNON United Nations Office at Nairobi

UNOV United Nations Office at Vienna

The United Nortons, its Funds and Programmes, the Specialized Agencies, IASA and 19713 are all members at the Linked Northers System Chief Benauties Board for Coordination (CES).

MIGA Multilateral Investment Guarantee Agency

- NKYPS and UNIOK report only to the Clement Assembly (38).
- IASA reports to the Security Council and the CIA.
- UNOG United Nations Office at Geneva WITD has no reporting obligation to the SA, but contributes on an ad had basis to SA and UN-OHRLLS Office of the High Representative for
  - iconomic and Social Council (ECCECCC) work on, interesting themes and development taxon. Specialized agencies are extranomous argumizations whose work is coordinated final gi-EXXXXX (Intergovernmental level) and XXXX (Interpretated level).
  - The Traineship Council water-died operation on 1 November 1994, as on 1 October 1994. Police, the last Linted Notions Trust Tempony become tridependent
  - itis, is not an adictial document of the United Nations, not is it intended to be all inclusive.

# Of everything on his agenda, what global issue keeps him awake at night?

#### **Digital transformation:**

**Accelerating or solving?** 

- 1. Speed & Scale
- 2. Direction
- 3. Resource consumption



#### **Triple planetary crisis:**

- 1. Climate change
- 2. Nature loss
- 3. Pollution



## We are at a pivotal moment in human history: Digital technologies are fundamentally changing the way we live, work, learn & relate to each other







**Human Behavior** 

8000 Days

of screen time 21 years of our life **Economic Transactions** 

60%

of economy passes through digital channels

**Social Relationships** 

4 Billion

people connected on social media

## The global march of digital technologies is <u>also</u> fundamentally disrupting every economic sector and business model on the planet



This is could be the **single greatest window of opportunity** to achieve the kinds of systemic changes needed for environmental sustainability and climate action.



#### We now have a fundamental choice to make between two future pathways::



Green digital future & competitive sustainability

Digital technologies accelerate sustainable production, consumption and a circular economy.



Acceleration of triple planetary crisis

Digital technologies accelerate resource consumption, inequality and social division.

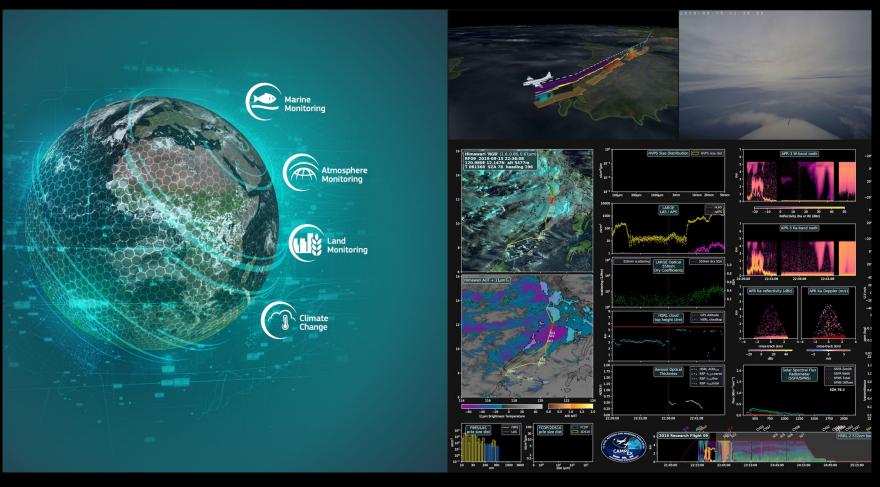
"Harnessing the power of digital transformation for environmental sustainability will require unprecedented leadership and collaboration across governments, companies and civil society.

Completely new forms of collective action, stakeholder collaboration and multilateralism are needed to solve the five hard problems of environmental sustainability."



Inger Andersen, UNEP Executive Director





- Monitoring key ecological trends and high value variables
- Near real time progress indicators for environmental commitments
- Sharing solution pathways



1. Monitoring and modelling environmental systems and emissions at global level



- Tracking and tracing of all inputs and impacts across supply chains using digital product passports
- Accurate calculation of environmental and carbon footprints
- Digital disclosure of performance to enable comparability
- Basis for more robust ESG calculations



2. Full supply chain transparency and disclosure of environmental value



Use of SMART systems in key sectors:

- Energy, buildings, agriculture, mobility, manufacturing
- 20% reduction in GHG emissions



3. Automated sustainability decisions and optimization of natural resources



- Decentralized decision making
- Citizen science
- Collaborative governance
- Automated enforcement



4. Agile and participatory environmental governance processes, services and enforcement

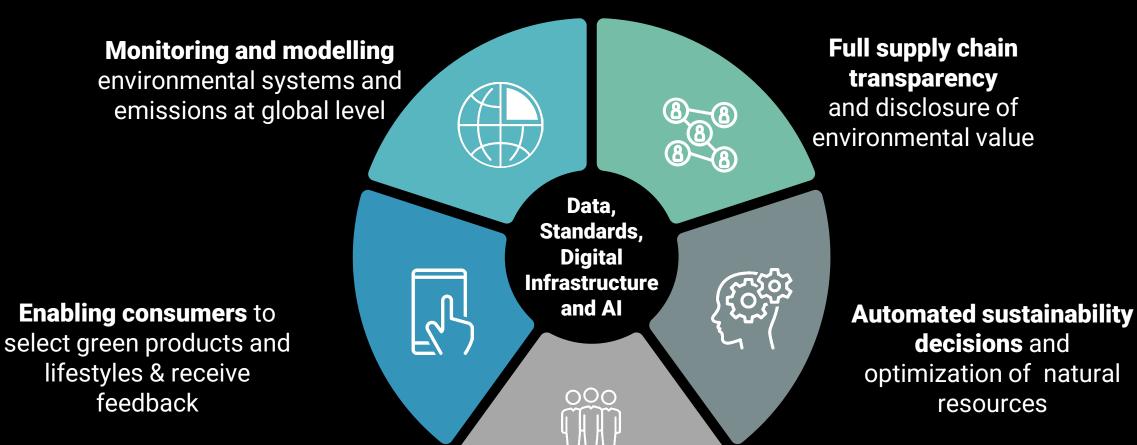


Green recommendations, activations, and social norms:

- 4 billion on social media
- 2.5 billion on gaming platforms
- 2 billion on e-commerce



**5. Enabling consumers** to select green products and lifestyles & receive feedback



Agile and participatory environmental governance processes, services and enforcement

How can the UN help to unite digital transformation and environmental sustainability into a "twin transition" as part of the Roadmap for Digital Cooperation?



## COALITION FOR DIGITAL ENVIRONMENTAL SUSTAINABILITY





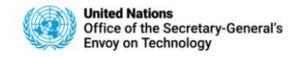










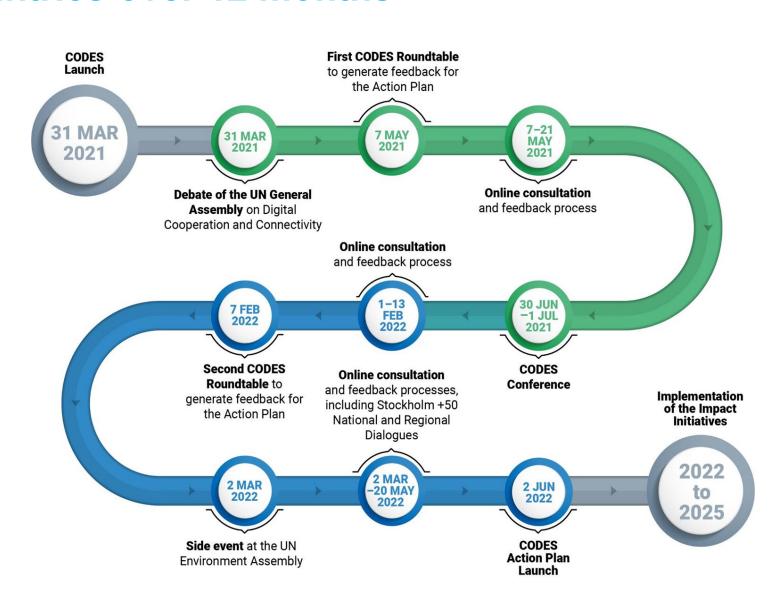




## CODES Action Plan: co-design process with 1,000 CODES stakeholders from 100 countries over 12 months

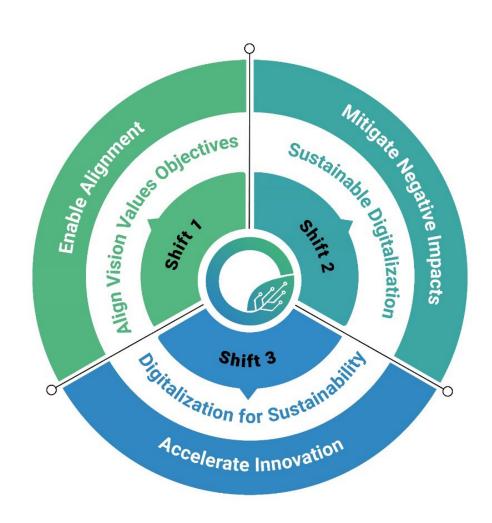
#### 3 Questions:

- 1. Which systemic shifts are needed to bring these transformations together?
- 2. What does the current ecosystem of stakeholders look like?
- 3. What are the gaps and needs for collective action for systemic impact?

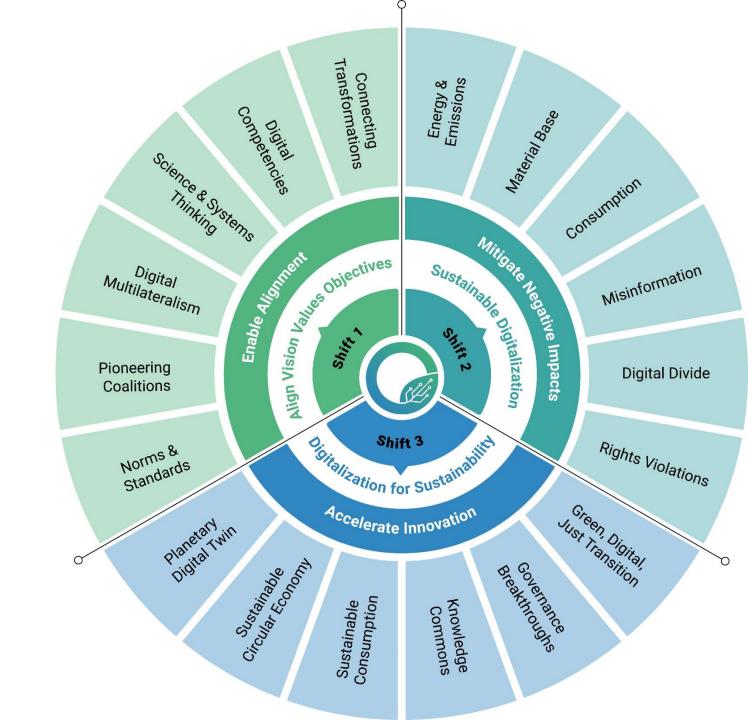


## Three important systemic shifts are underway by a range of stakeholders:

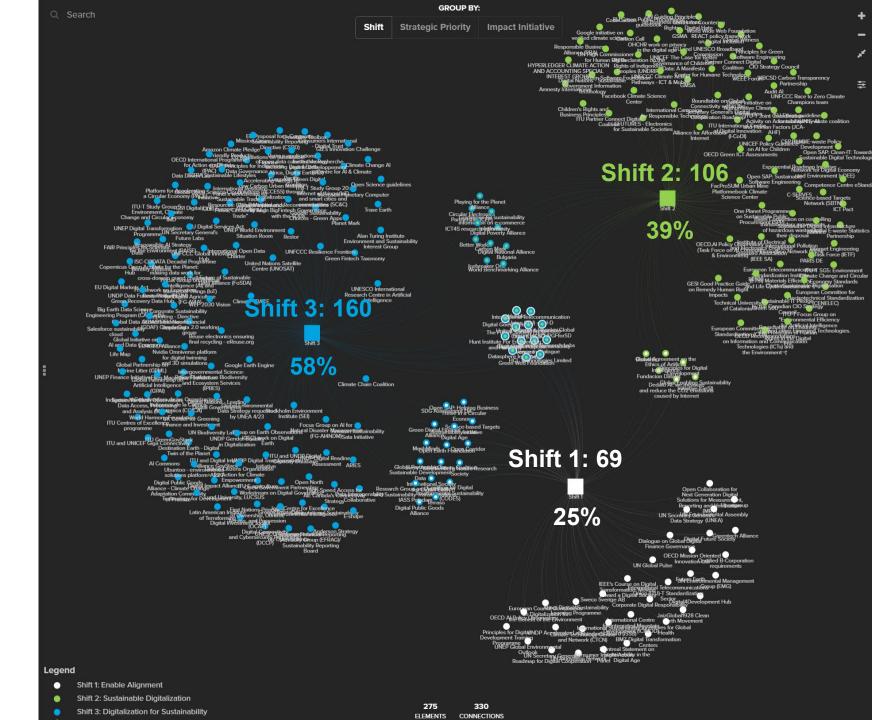
- 1. **Enable alignment:** vision, values and objectives of sustainable development with digitalization
- 2. Mitigate negative impacts: sustainable digitalization
- 3. Accelerate innovations: digitalization for sustainability



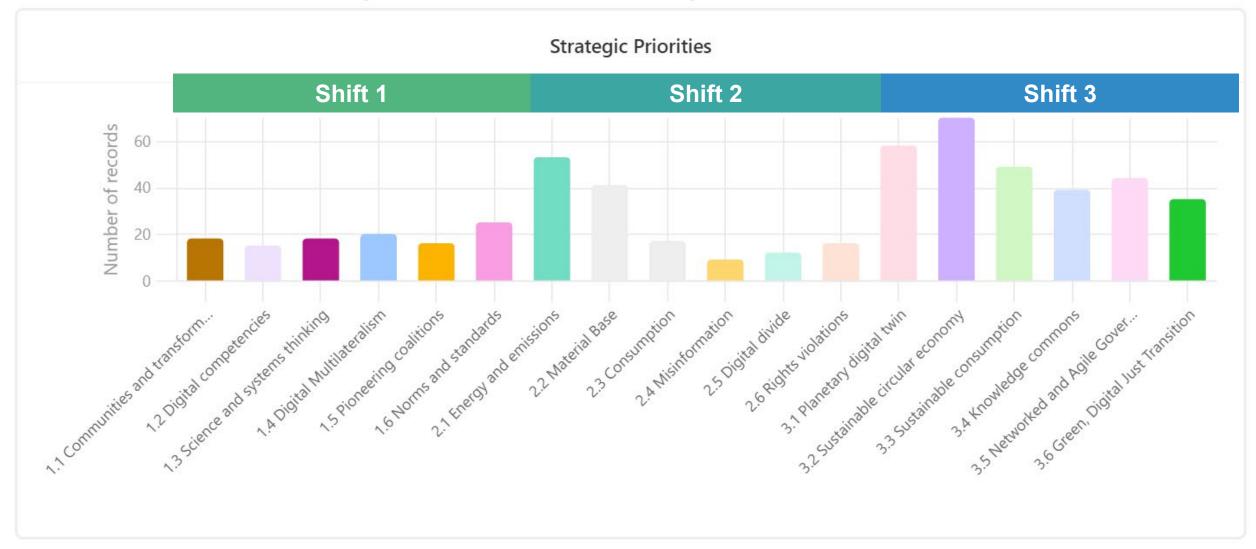
# Mapping 3 shifts to different strategic priorities by stakeholders



# Ecosystem map: 275 stakeholders working against the 3 shifts

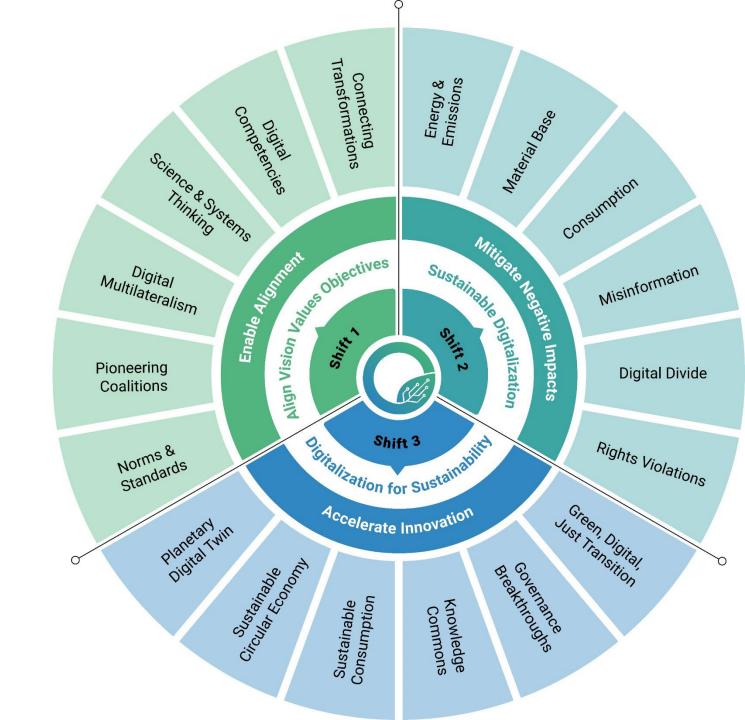


## Distribution of organizations working across the 3 shifts



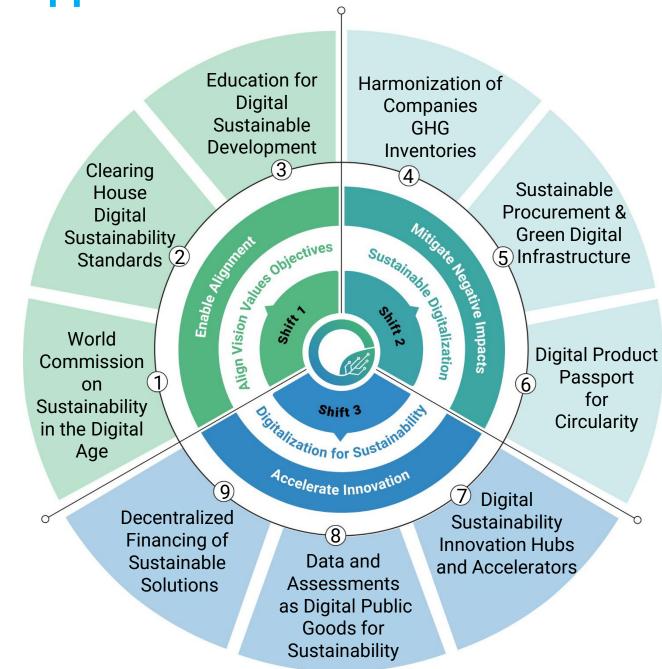
What is now needed to catalzye further systemic change through multi-stakeholder collaboration?



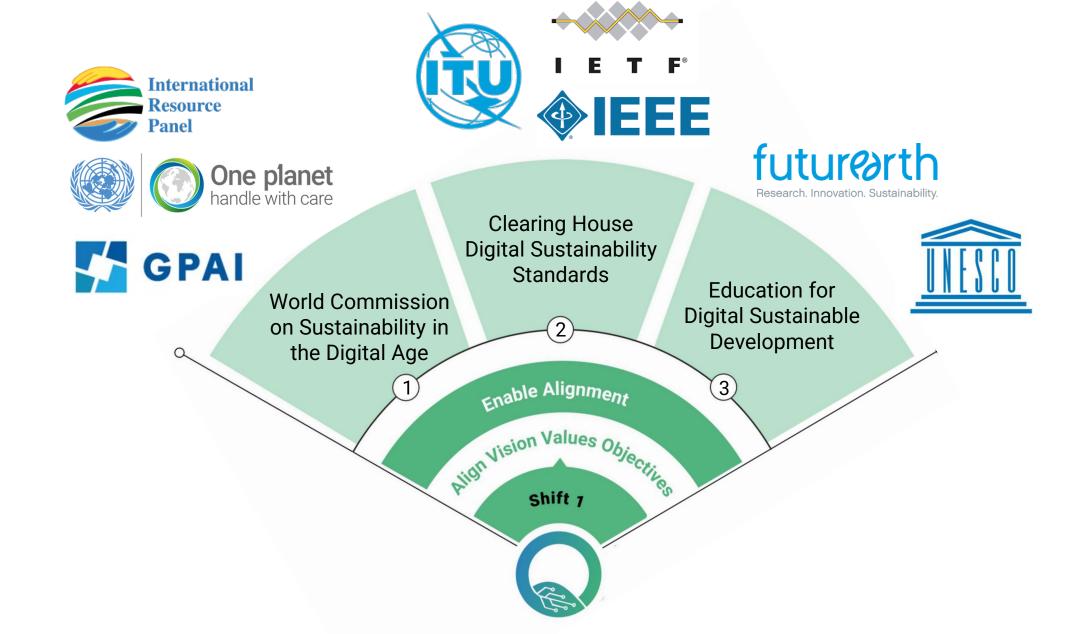


Impact Initiatives: Criteria and Approach

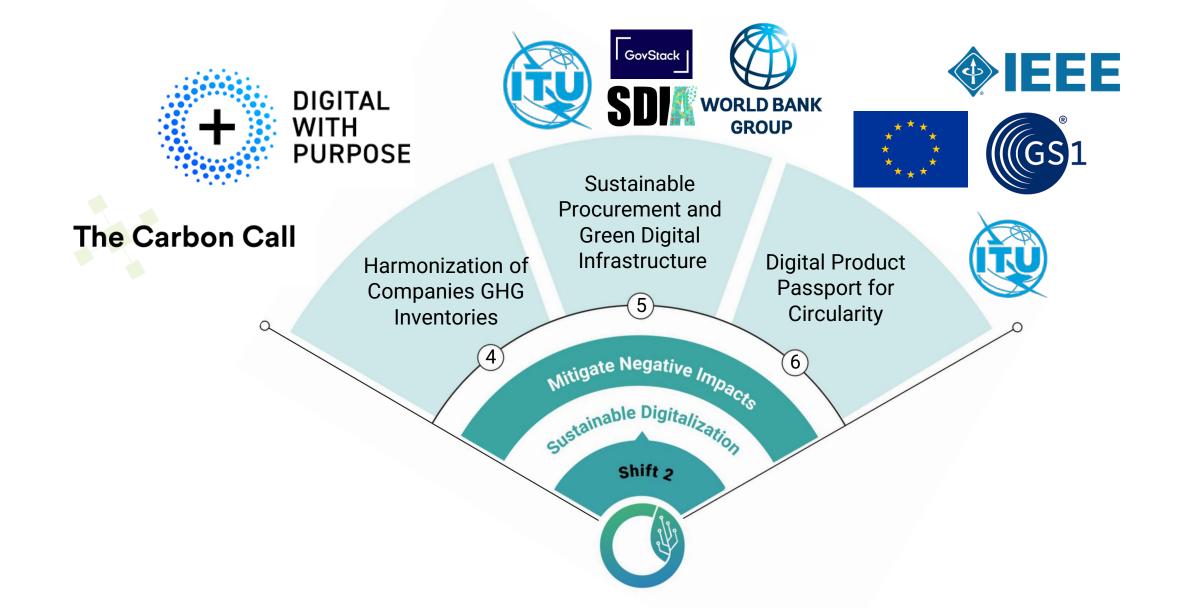
- Catalyse systems level change
- Multi-stakeholder governance model per track
- Establish leadership entities per initiative and KPIs
- Improved coordination and cross-fertilization
- Multi-donor trust fund investment framework



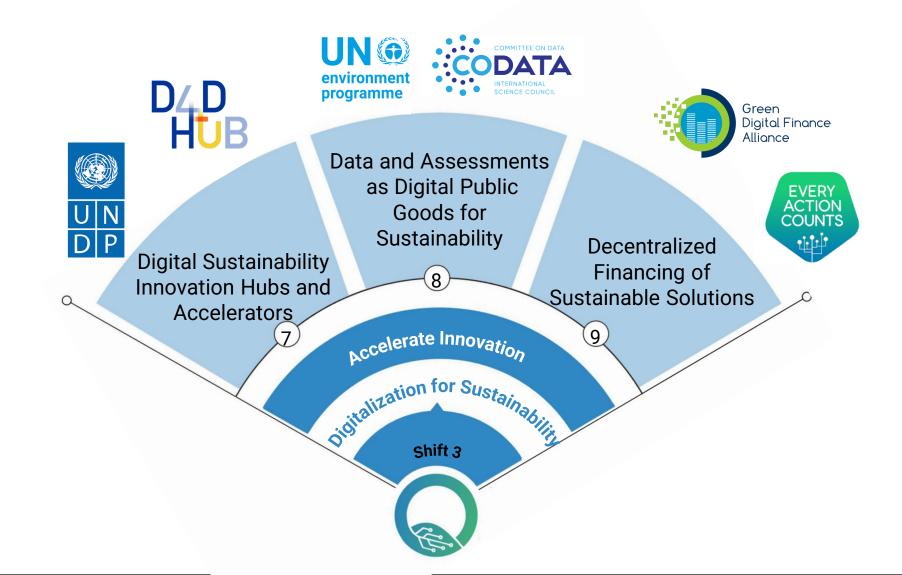
## Impact Initiatives for Shift 1: Enable Alignment



## Impact Initiatives for Shift 2: Mitigate negative impacts



## Impact Initiatives for Shift 3: Accelerate innovations



**3 Engagement Pathways** 

#### 1. Coordinate

- Contribute to the Impact Initiatives
- Report on KPIs
- Contribute to CODES governance

CODES
Community on
SparkBlue

Three engagement pathways supported by www.sparkblue.org/joinCODES

2. Align

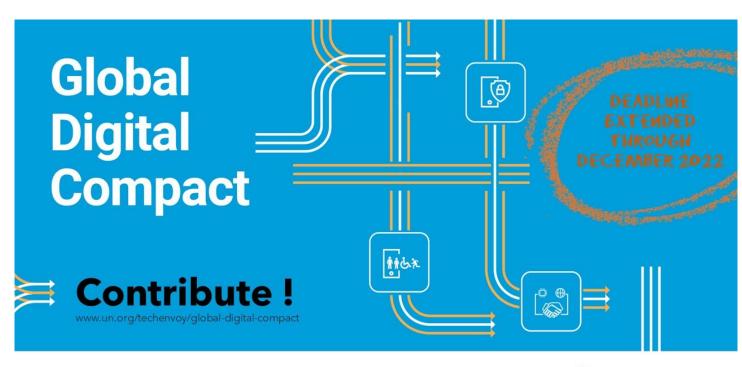
- Align activities with 3 shifts
- Annual selfdeclaration
- Stakeholder map

3

#### 3. Community of Practice

- Contribute expertise
- Newsletter
- Advocate

### On Your Radar: Summit of the Future – Digital Compact







#### 3 Priorities:

- 1. Sustainability by design for all digital technologies
- 2. Sustainability by default for platforms
- 3. Sustainable business models that generate digital public goods

## We invite you to read the CODES **Action Plan for more** details

more information visit:

www.sparkblue.org/joinCODES

