



Digital  
For  
Planet



# Digital for Climate & Nature

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Digital for Nature & Climate**

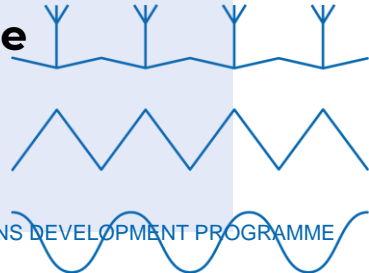
# Objectives



**1- Importance of digital solutions for driving nature and climate action ?**

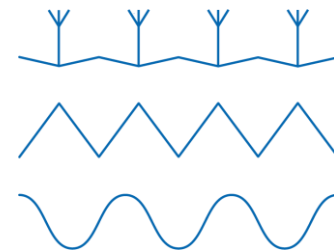
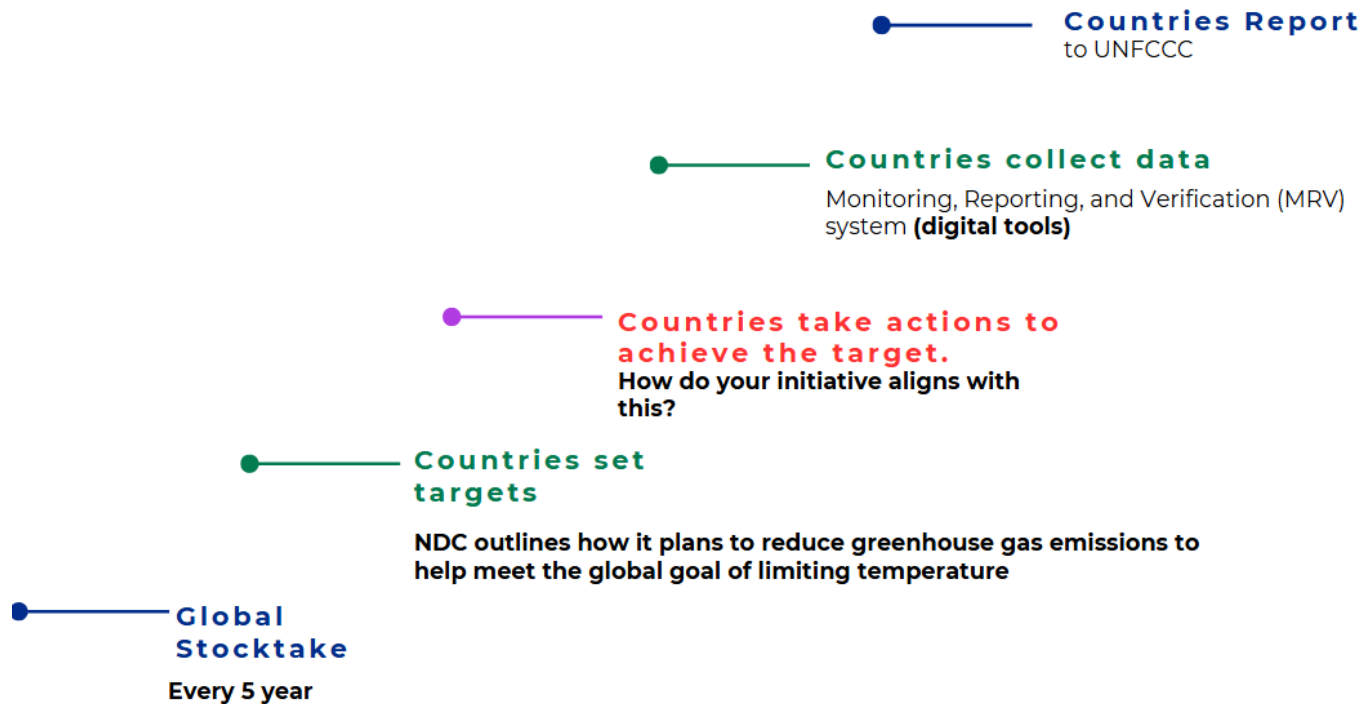
**2- Examples of Digital Innovations and their specific contributions.**

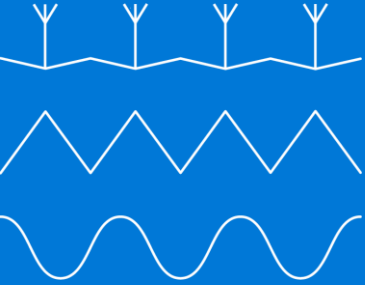
**3- Practical guidance on how to create impactful, scalable digital solutions for nature and climate action.**



# The Paris Agreement

## NATIONALLY DETERMINED CONTRIBUTIONS (NDC)





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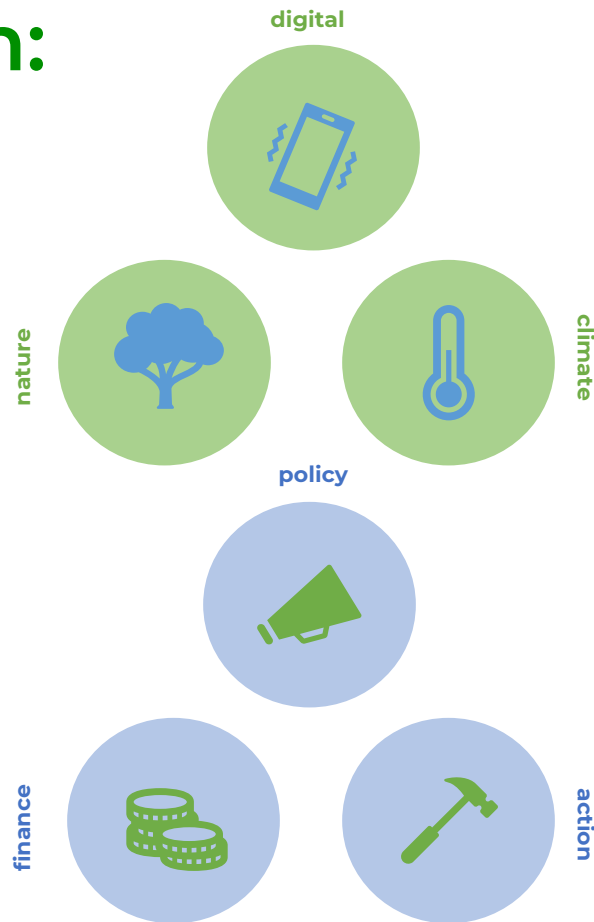


# Challenges

Why data and digital systems are necessary for Paris Agreement implementation

# Core Development Problem: Digital for nature & climate

Fragmented policies, financing, and societal action related to digital transformation, nature, and climate action undermine meaningful advancement in human development and sustainability.



# Challenges in data collection & reporting



Lack of data availability

Data spread "everywhere" - across organizations, owners

Lack of trust in data quality and accuracy

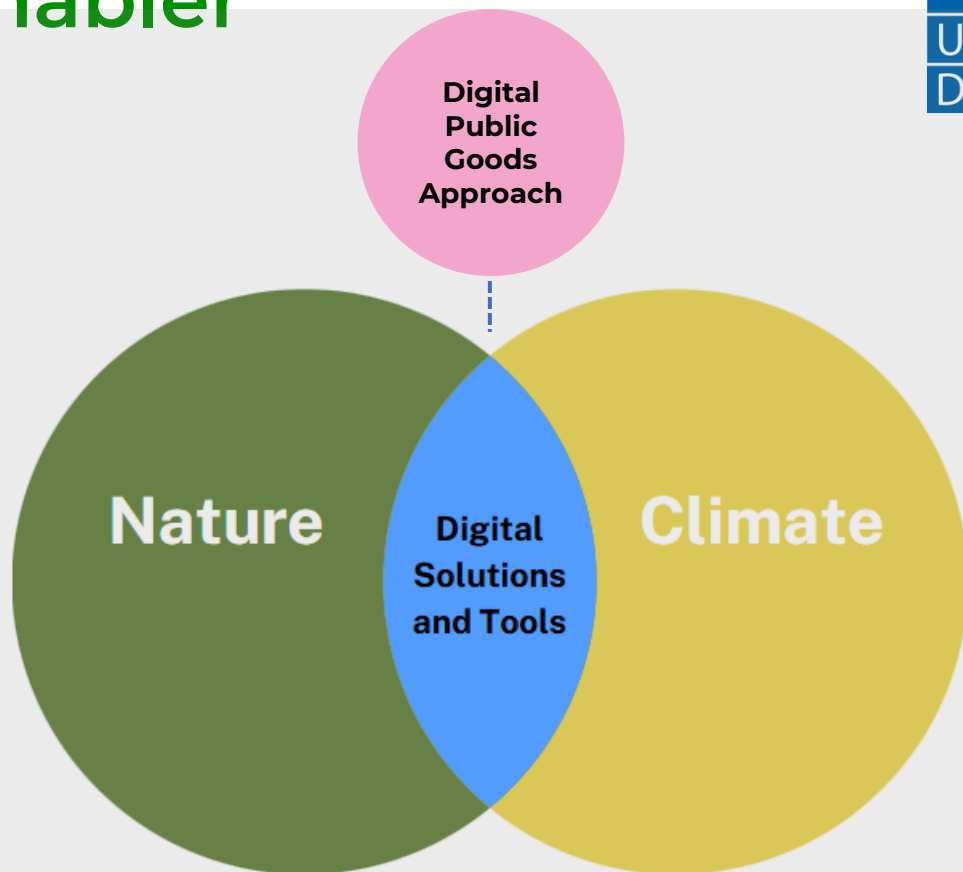
Limited human capacity

High staff turnover

Lack of data structure for appropriate methodology

# Digital as a Key Enabler

- **Digital for Planet** is an integrated offer between Nature & Climate Hubs, as a flagship initiative for digitalization support to countries.
- *Digital for Planet* **drives digital transformation for nature and climate.**

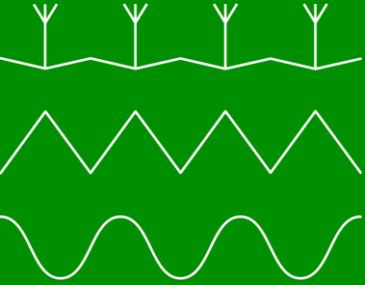


# Digital for Planet **Theory of Change**

**If** national capacity is strengthened to integrate digital transformation with nature and climate policy, financing, action,

**Then** progress on nature and climate goals (NDCs, NAPs and NBSAPs) will scale to accelerate human development within planetary boundaries

**Because digital solutions, infrastructure and connectivity will provide governments, organizations and people the tools, data and whole-of-society systems needed for action on climate and nature to achieve systemic impact**



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# UNDP's Digital for planet

Open-source software and digital transformation support

# Carbon Markets plays a key role in NDCs



*The Paris Agreement provisions for **carbon trading of carbon credit** under Article 6, enabling countries to trade GHG emission reductions, supporting nations in achieving their NDCs **while promoting investment in low-carbon technologies and sustainable practices.***

*Countries **must transparently report on mitigations outcomes (GHG reduced by a project) transferred Internationally and that contributed toward their NDCs.***

*A **carbon credit** is a tradable certificate that represents one metric ton of CO<sub>2</sub> (or its equivalent) reduced, avoided, or removed from the atmosphere.*

# National Carbon registry

[Github link](#)



The screenshot shows a web browser at the URL <https://test.carbreg.org/login>. The page features a large background image of a waterfall with the text 'NATIONAL CARBON REGISTRY COUNTRYX' overlaid. The login form includes the 'CARBON MARKET DIGITAL PLATFORM CountryX' logo, a 'Sign In' heading, a 'Welcome Back' message, and input fields for 'Email' and 'Password'. A 'Forgot Password?' link is located below the password field. A blue 'Sign In' button is positioned below the form. At the bottom, there is a link for 'Need an account? Register here' and a language selector set to 'ENGLISH'.

Digital Public Good system

record carbon projects,  
issue and track carbon  
credits and fulfil reporting  
requirements.

Support countries in:

- Collecting, organizing, and reporting data on greenhouse gas (GHG) emissions, mitigation efforts, adaptation strategies, and climate finance.

# National climate transparency System



## Sign In

Welcome back

Email

Password

[Forgot password ?](#)

Sign In

Language : English ▾



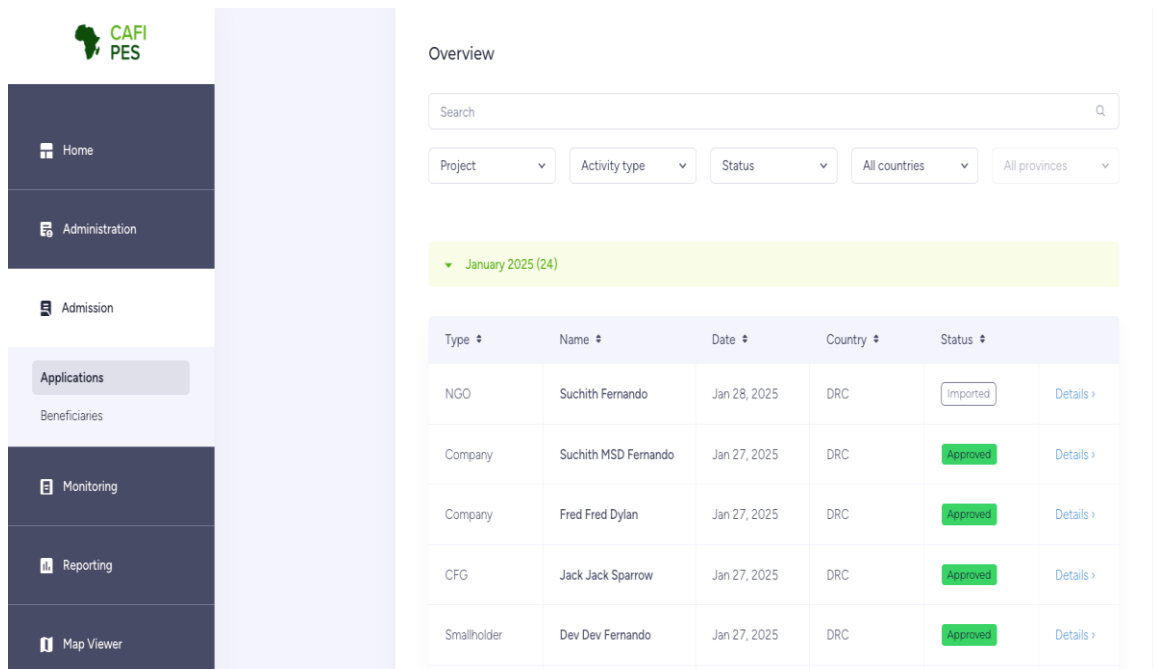
DIGITAL  
TRANSPARENCY  
SYSTEM

To be Digital Public Good system

A MRV tool designed to manage climate information and streamline and automate climate action reporting to UNFCCC

Organized Climate Actions, Programs, Projects, Activities, and Support Reporting on the Common Tabular Formats (CTFs) GHG emissions and projections

# Payment for Environmental Services System (PES)



**CAFI PES**

- Home
- Administration
- Admission
- Applications
- Beneficiaries
- Monitoring
- Reporting
- Map Viewer

Overview

Search

Project | Activity type | Status | All countries | All provinces

▼ January 2025 (24)

Type	Name	Date	Country	Status	
NGO	Suchith Fernando	Jan 28, 2025	DRC	Imported	<a href="#">Details &gt;</a>
Company	Suchith MSD Fernando	Jan 27, 2025	DRC	Approved	<a href="#">Details &gt;</a>
Company	Fred Fred Dylan	Jan 27, 2025	DRC	Approved	<a href="#">Details &gt;</a>
CFG	Jack Jack Sparrow	Jan 27, 2025	DRC	Approved	<a href="#">Details &gt;</a>
Smallholder	Dev Dev Fernando	Jan 27, 2025	DRC	Approved	<a href="#">Details &gt;</a>

**A dMRV tool designed to support PES schemes, ensuring data integrity, transparency, and scalability to enhance environmental conservation and reforestation efforts led by local communities.**

- **Manage Farmers contract**
- **Field data collection and verification**
- **Payment calculation and validation**

# Traceability System



Estás en un ambiente de pruebas, los análisis arrojados podrían no ser los oficiales

## Aplicación para la producción sostenible

Analiza, valida y documenta que tu producción está libre de deforestación y cumplir normativas locales y EUDR

**Paso 1**  
**Validación de polígonos y puntos**  
Descarga la plantilla, completa los datos y cárgala para validar traslapes o duplicidades automáticamente.




**Validar polígonos** →

**Paso 2**  
**Análisis de deforestación**  
Identifica el riesgo de perturbación de una o más fincas, compara con fuentes de datos globales.




**Analizar deforestación** →

**Paso 3**  
**Creación de lotes**  
Facilita el control de trazabilidad y conformidad con estándares de sostenibilidad.



**Crear lotes** →

**Paso 4**  
**Generación de debida diligencia**  
Respalda la información de tu producción para cumplir con las normativas internacionales.



**Crear reporte** →

**dMRV modular tool designed to track deforestation-free commodities using geospatial data to guarantee that coffee is grown sustainably and responsibly (EUDR regulation)**

**Key features:**  
Public maps and producer's data collection  
Polygons and point validation  
Deforestation analysis  
Batch creation  
Due diligence report generation

# Other Solutions...

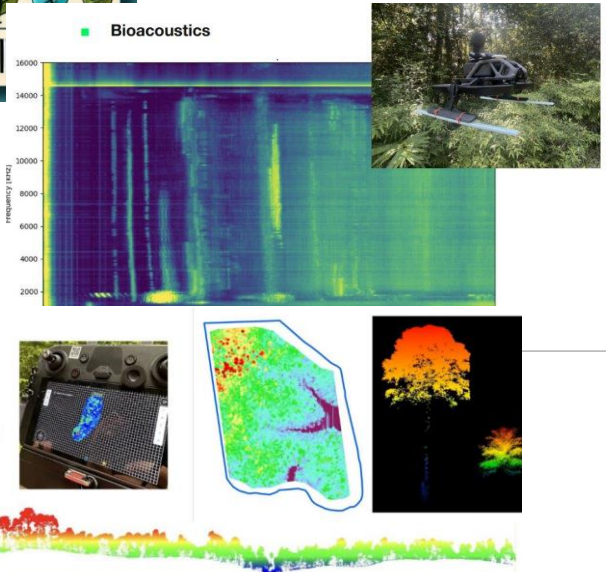
## Green Digital Readiness Assessment

Pillars	Foundation	Current Level	Recommendation
	Infrastructure	2	• Raise awareness/train the population and even entrepreneurs on digital technology/marketing and all the advantages related to it
	Government	1	• Increase cloud data <b>governance</b> and create shared government data <b>governance</b>
	Regulation	1	• Financial and administrative support of startups for the creation and development of applications in the green sectors
	Business	2	• Investing in modeling and forecasting for policy making and planning
	People	1	• Develop modern (Payment for Ecosystem Services) and conduct advanced analysis for decision making with geospatial data, AI/ML
			• <b>Trade</b> , <b>economic</b> and <b>technical</b> on the existence of a legal framework and a governmental policy favourable to the inclusion of digital in the environmental and other green sectors

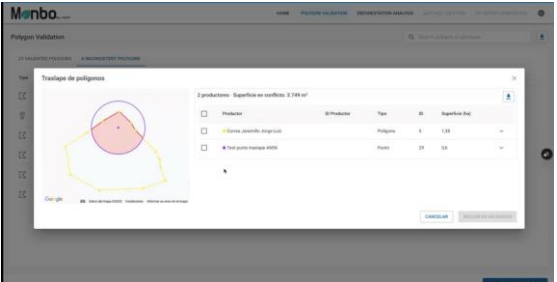


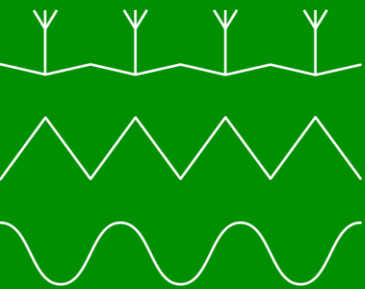
## Nature ID as DPI

## XPRIZE Technologies:



## Polygon feature



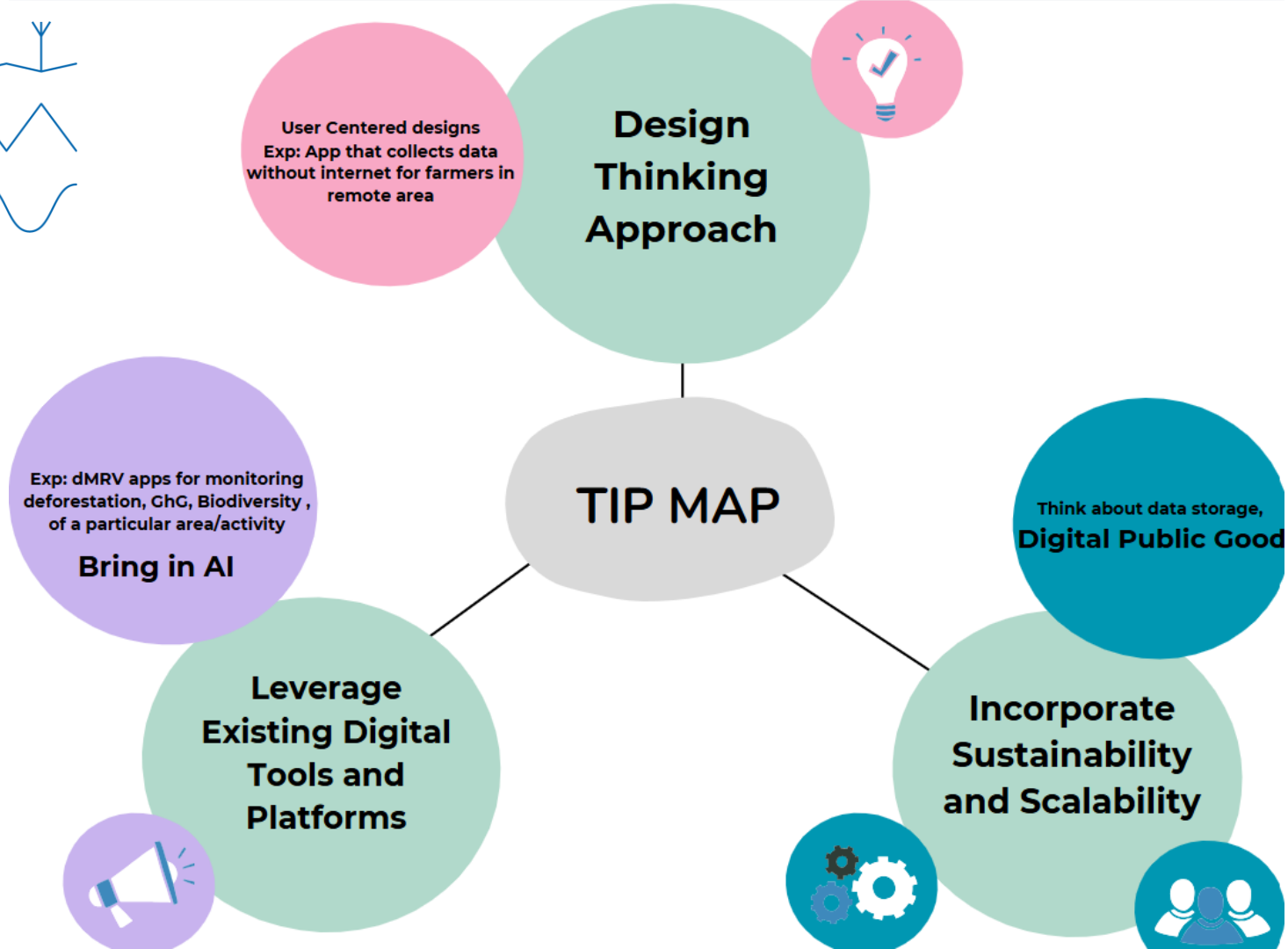
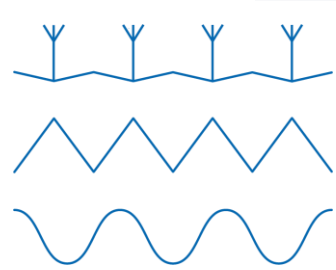


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# Practical guidance:

Create impactful, scalable digital solutions for nature and climate action





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# Thank You