

# Mapping Tool for Digital for Development Projects

Version 2 – March 2025

## Contents

|                                                  |    |
|--------------------------------------------------|----|
| Introduction .....                               | 2  |
| What are digital for development projects? ..... | 2  |
| Methodology.....                                 | 2  |
| Template .....                                   | 2  |
| Digital domains .....                            | 5  |
| D4D Category .....                               | 7  |
| Target regions and countries .....               | 8  |
| Data collection & cleaning .....                 | 11 |
| Technical implementation .....                   | 12 |
| Data storage.....                                | 12 |
| PowerBI reports .....                            | 13 |
| Exports .....                                    | 15 |
| Accessibility & Updates.....                     | 15 |

## Introduction

The mapping tool for digital for development (D4D) projects is the result of a joint effort between the D4D Hub Secretariat, the D4D Hub member states, development cooperation agencies and the European Union. The tool takes the form of an interactive platform that works with data aggregated and combined from various online and tacit sources.

The purpose of the tool is to provide answers to questions such as who is doing what and where—for instance, identifying the most commonly addressed digital issues in development projects, determining which member states are active in specific countries or regions, and understanding the funding contributions of the EU and member states. The aim of this mapping activity is to foster mutual learning, enable informed decision-making for future interventions, and ultimately enhance Europe's impact in digital development projects.

This document describes how the mapping tool was developed – from data collection to technical implementation. A first version of the mapping tool was launched in December 2024. **This version of the mapping does not claim to be exhaustive and must be considered as a first step towards a more comprehensive inventory of digital for development projects.**

### What are digital for development projects?

Digital for development (D4D) projects are projects that leverage digital approaches to achieve sustainable development goals and global challenges. D4D projects are interventions where digital technologies make a valuable contribution to development outcomes and ultimately to the impact envisioned<sup>1</sup>.

## Methodology

The D4D mapping tool started with the development of a standardized template, followed by a phase of data collection and data cleaning, technical development of the tool and iterations.

### Template

Before starting the data collection process, a standardized template in Excel with predefined columns was developed to ensure consistency and reusability of the data. Following a consultation round at the Secretariat, an Excel spreadsheet was created with 26 clearly defined columns (*metadata*). Mandatory

---

<sup>1</sup> Enabel Digital for Development Strategy (2022-2025), p. 5

fields required for the mapping tool are marked with an asterisk (\*) in the table below. For the time being, data are captured in English or translated to English.

| Column name                                              | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Project title*</b>                                    | The official title of: <ul style="list-style-type: none"> <li>- The project or initiative,</li> <li>- The Team Europe Initiative</li> <li>- The Joint Initiative</li> <li>- The Global Gateway Flagship project</li> <li>- Or any other program (preferably in English).</li> </ul> [free text field]                                                                                                                                                                                                                                         |
| <b>Category*</b> (see <i>infra</i> )                     | Identify if the project is a: <ul style="list-style-type: none"> <li>- category 2 (digital is a significant objective)</li> <li>- category 3 (digital is the principal objective)</li> </ul> [drop-down list]                                                                                                                                                                                                                                                                                                                                 |
| <b>TEI &amp; Joint Initiatives*</b>                      | Identify if the project is a: <ul style="list-style-type: none"> <li>- Team Europe Initiative (TEI) or Joint Initiative (JI)</li> <li>- Global Gateway Flagship project (TEI/JI)</li> <li>- Or <b>Other</b> (all other types of projects). <i>At this point we only wanted to make it possible to filter on TEIs/JIs.</i></li> </ul> [drop-down list]                                                                                                                                                                                         |
| <b>If EU project, type &amp; overarching program/TEI</b> | If the project is funded by the EU, give the title of the overarching program or Team Europe Initiative (if applicable).<br>[free text field]                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Geographical scope / Type*</b>                        | Give the (general) geographical scope / type of the project: <ul style="list-style-type: none"> <li>• Bilateral / country level projects for projects between two or more partner countries</li> <li>• Regional projects for projects covering a region (e.g. West-Africa, ASEAN)</li> <li>• Global for projects not covering specific regions or countries but operating on a global scale.</li> </ul> <i>This information makes it possible to filter on bilateral projects and regional projects in the mapping tool.</i> [drop-down list] |
| <b>D4D Hub Members*</b>                                  | List the D4D Hub members who are partners in the project (e.g. EU, Finland, Belgium). <ul style="list-style-type: none"> <li>• If a member state (e.g. Denmark) is also partner in the project, add “Denmark” to column J “Other (implementing) partner(s) or donors”.</li> <li>• EU funded projects: always include the EU.</li> <li>• In the case of an EU project where member states have not yet been defined, add: “EU &amp; MS (TBC)”.</li> </ul> [free text field, multiple entries separated by a comma]                             |
| <b>D4D Hub implementing partners</b>                     | List the implementing partners of the project (e.g. AECID, Expertise France, GIZ). If no information, leave empty.<br>[free text field, multiple entries separated by a comma]                                                                                                                                                                                                                                                                                                                                                                |
| <b>If consortium, lead implementing partner</b>          | If there is a consortium of implementing partners, give the name of the lead implementing partner.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                               | [free text field]                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Other (implementing) partner(s) or donors</b>              | List other relevant partners of the project who are not D4D Hub members (UN, local organizations). In this field, also add EU member states that are not part of the D4D Hub, e.g. Denmark.<br>[free text field, multiple entries separated by a comma]                                                                                                                              |
| <b>Target region*</b>                                         | Give the target region(s) of the project or the region(s) where the project is implemented, e.g. West Africa, Caribbean, Southeast Asia.<br>[free text field, multiple entries separated by a comma]                                                                                                                                                                                 |
| <b>Target countries*</b>                                      | List the countries / country where the project is implemented, e.g. Senegal, Rwanda, Philippines, Colombia.<br>[free text field, multiple entries separated by a comma]                                                                                                                                                                                                              |
| <b>Description</b>                                            | Give a short description of the project (objectives, impact, digital implementation).<br>[free text field]                                                                                                                                                                                                                                                                           |
| <b>Website</b>                                                | Add the website of the project or a website where you can find more information. If there are multiple sites, add other sites in the last column "Remarks". <i>Copy the URL in full / plain text, because this is the only technical way for PowerBI to make them clickable in a report.</i><br>[free text field]                                                                    |
| <b>EU funded (Yes/No)*</b>                                    | Identify if the project is funded or co-funded by the EU. If the project does not receive funding from the EU, choose "no".<br>[drop-down list]                                                                                                                                                                                                                                      |
| <b>(if EU funded) name of action (as per Action Document)</b> | If it is an EU project, give the name of the Action document or the link to the multi-annual action plan (MIP).<br>[free text field]                                                                                                                                                                                                                                                 |
| <b>(if EU funded) INTPA Unit in charge</b>                    | If there is EU funding, give the name of the INTPA Unit in charge (if INTPA is the EU partner).<br>[free text field]                                                                                                                                                                                                                                                                 |
| <b>(if EU funded) EU contribution (M€)</b>                    | If there is EU funding, give the total amount in EUR.<br>[free text field]                                                                                                                                                                                                                                                                                                           |
| <b>MS contribution (M€)</b>                                   | If there is a financial contribution from the MS, give the total amount of the contribution in EUR.<br>[free text field]                                                                                                                                                                                                                                                             |
| <b>MS funders</b>                                             | List the member states that are funding the project.<br>[free text field]                                                                                                                                                                                                                                                                                                            |
| <b>Other funders</b>                                          | Mention any other funding organizations of the project.<br>[free text field]                                                                                                                                                                                                                                                                                                         |
| <b>Budget MS, donors and/or EU in Million</b>                 | Give the total contribution in EUR, from all funding partners.<br>[free text field]                                                                                                                                                                                                                                                                                                  |
| <b>Main digital domain / component* (see infra)</b>           | List the main digital components or topics implemented in the project. There can be multiple digital components, e.g. a project to support young entrepreneurs by offering digital trainings has the components: Entrepreneurship & Innovation and Digital skills. Please only enter from the list of "Digital domains".<br>[free text field, multiple entries separated by a comma] |

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Digital domains remarks</b>   | Note any remarks, if necessary, about how the digital is used in the project.<br>[free text field]                                                                                      |
| <b>Status*</b>                   | Give the current working status of the project. A project can have the status “not started”, “ongoing” or “completed”.<br>[drop-down list]                                              |
| <b>Implementation period</b>     | Give the period in which the project will be executed, the beginning and the end year of the project. Note only the years, not the months or days, e.g. 2021-2025.<br>[free text field] |
| <b>Other websites / comments</b> | Add any other website or information about the project. You can also use this field the note any editorial comments or comments for personal use.<br>[free text field]                  |

## Digital domains

| Digital domain                 | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Artificial Intelligence</b> | Use for projects on machine learning, natural language processing, robotics, neural networks, deep learning, computer vision, explainable AI, generative AI etc. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to AI.                                                                                                                                                                                                                                                                                                                                      |
| <b>Cybersecurity</b>           | Use for projects on misinformation, disinformation, data protection, cyberattacks, encryption, malware, phishing, ransomware, spoofing, threat hunting, steganography, vulnerability assessment, zero trust, hacking etc. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to cybersecurity.                                                                                                                                                                                                                                                                  |
| <b>Digital Agriculture</b>     | Use for projects that use digital technologies, data and tools in agriculture, for example to optimize crop farming, livestock monitoring or food systems. Synonyms: smart farming, e-agriculture. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to digital agriculture.                                                                                                                                                                                                                                                                                   |
| <b>Digital &amp; Green</b>     | Use for projects that aim at reducing our carbon footprint and protecting our environment. Includes topics such as smart cities, e-mobility, recycling, upcycling, energy-efficiency and climate neutral infrastructures, sustainability, green digital solutions etc., as well as for projects on management systems for climate risk analyses, preservation of local biodiversity, systems for measuring and monitoring water resources etc. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to the digital & green transformation or the twin transition. |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Digital Connectivity</b>                            | Use for projects about computer networking (wired and wireless networks), cellphone network speeds (4G, 5G, LTE), cloud computing, internet access, interoperability, optic fiber cables infrastructure, internet of things (IoT), network segmentation, communication protocols etc. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to Digital connectivity.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Digital Economy</b>                                 | Use for projects that focus on economic activities that use digital technologies to create, transform, and deliver goods and services, such as e-commerce (electronic payments, online retail, digital marketplaces, ...), digital marketing, tools to support trade, business, sharing of data and so on. Also consider this domain for digital applications to enhance labor or work possibilities. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to digital economy.                                                                                                                                                                                                                                                     |
| <b>Digital Governance</b>                              | Use for projects where tools and technologies are developed or applied with the aim to deliver government services, exchange of information, communication transactions, integration of various stand-alone systems between government to citizen (G2C), government-to-business (G2B), government-to-government (G2G), government-to-employees (G2E) as well as back-office processes and interactions within the entire governance framework and measures to stimulate and enhance civic participation. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to digital governance. This domain also includes projects with the aim to support or implement digital transformation. Synonym: e-governance, electronic governance. |
| <b>Digital Health</b>                                  | Use for projects with the aim to enhance the efficiency, effectiveness, and delivery of healthcare services. It includes telehealth and telemedicine, mobile health, (remote) patient monitoring, health mobile applications, health analyses, electronic medical records etc. Includes policies, strategies and knowledge sharing projects related to Digital health. Synonyms: e-Health.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Digital Services &amp; Infrastructure (general)</b> | Use for projects where the digital component is minor (e.g. in multi-sectoral projects) and projects that encompass general digital services and infrastructure that cannot directly be linked to any other main topic, for example, e.g. installation of hardware / software, development of a mobile application, development of general IT infrastructure, or for projects that produce theoretical or practical documents on information technology in general.                                                                                                                                                                                                                                                                                                                                 |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Digital Skills</b>                    | Use for projects that enhance the abilities, knowledge, and competencies required to effectively use and navigate digital technologies. It includes improving digital literacy (basic and advanced), capacity building, e-learning platforms, gamification and so on. Includes policies, strategies and knowledge sharing projects related to digital skills.                                                                                                                                                                               |
| <b>Data collection &amp; analysis</b>    | Use for projects with the main goal to retrieve, store, manage, and analyze (big) data. It includes general document/data management, data mining, development of databases or content management systems, collection of (raw) data for analytical purposes and so on.                                                                                                                                                                                                                                                                      |
| <b>Earth Observation &amp; Space</b>     | Use for projects that develop or implement digital tools and services such as remote sensing technologies to monitor land, marine (seas, rivers, lakes) and atmosphere. It includes the generation of geospatial data, satellites, the development of digital twins for research and so on. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to earth observation & space.                                                                                             |
| <b>Entrepreneurship &amp; Innovation</b> | Use for projects with the main goal to support the development of innovative digital technologies, and for projects that support entrepreneurs in the development of technological businesses. It includes offering technological guidance, financial or logistical support, networking opportunities, market analysis, and so on. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to entrepreneurship and innovation.                                                |
| <b>Gender &amp; Digital Rights</b>       | Use for projects with the goal to decrease the gender digital divide and for projects aimed at the human and legal rights to access, use and create digital technologies and content. It includes topics such as bias, human rights, digital poverty, social inclusion, human-centric digital transformation, freedom of expression, intersectionality, digital extractivism and so on. It also includes political and legislative frameworks, policies and strategies and knowledge sharing projects related to gender and digital rights. |

## D4D Category

Today, nearly every development project includes a digital component, such as the creation of a website or application to support its activities. To determine whether a project qualifies as a D4D (Digital for Development) initiative, we apply the following definition: *D4D projects are interventions where digital technologies or digitalization makes a valuable contribution to development outcomes and ultimately to the impact envisioned*<sup>2</sup>. As a result, the project's impact is directly linked to the digital process or tool implemented as part of its activities.

<sup>2</sup> Enabel Digital for Development Strategy (2022-2025), p. 5-6

In the mapping we use the scoring model developed by Enabel. This model classifies projects on a scale from 0 to 3, with only projects scoring 2 or 3 being categorized as D4D projects and included in the Excel:

- **Category 2 => Significant:** *D4D is an important and deliberate development objective or outcome, but not the principal reason for undertaking the program [...]. In this case, there is a specific target or result on digitalization formulated in the program.*

In EU Action documents these type of projects have digital as a significant objective.

**Example:** a project aimed at mitigating climate change that includes – among other activities – the use of a data monitoring tool, or an intervention focused on job creation in micro, small, and medium-sized enterprises (MSMEs) with a digital training component.

- **Category 3 => Principal:** *focused programs [...] that have integrated digital technologies [...] as primary objective to achieve impact, are a principal part of the theory of change and/or logical framework of a project. D4D is part of the impact and several outcomes and is the principal reason for undertaking the program.*

In EU Action documents these type of projects have digital as a principal objective.

**Example:** a project focused on enhancing digital skills among young people by providing training facilities, or initiatives aimed at boosting rural connectivity by installing fibre-optic cables.

## Target regions and countries

In the tables below, are listed development cooperation partner regions and countries.

### Sub-Saharan Africa

|                 |                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Central Africa  | <ul style="list-style-type: none"> <li>○ Angola</li> <li>○ Burundi</li> <li>○ Cameroon</li> <li>○ Chad</li> <li>○ Democratic Republic of the Congo</li> <li>○ Rwanda</li> <li>○ São Tomé and Príncipe</li> </ul> |
| Western Africa: | <ul style="list-style-type: none"> <li>○ Benin</li> <li>○ Burkina Faso</li> <li>○ Cape Verde</li> <li>○ Côte d'Ivoire</li> </ul>                                                                                 |

|                        |                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <ul style="list-style-type: none"> <li>○ Ghana</li> <li>○ Guinea</li> <li>○ Guinea-Bissau</li> <li>○ Mali</li> <li>○ Mauritania</li> <li>○ Niger</li> <li>○ Nigeria</li> <li>○ Senegal</li> <li>○ Sierra Leone</li> <li>○ Togo</li> </ul> |
| <b>Eastern Africa</b>  | <ul style="list-style-type: none"> <li>○ Ethiopia</li> <li>○ Kenya</li> <li>○ Madagascar</li> <li>○ Somalia</li> <li>○ South Sudan</li> <li>○ Sudan</li> <li>○ Tanzania</li> <li>○ Uganda</li> </ul>                                      |
| <b>Southern Africa</b> | <ul style="list-style-type: none"> <li>○ Botswana</li> <li>○ Lesotho</li> <li>○ Malawi</li> <li>○ Mozambique</li> <li>○ Namibia</li> <li>○ South Africa</li> <li>○ Zimbabwe</li> </ul>                                                    |

## Latin America and Caribbean

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Caribbean</b>     | <ul style="list-style-type: none"> <li>● Antigua and Barbuda</li> <li>● Bahamas</li> <li>● Barbados</li> <li>● Belize</li> <li>● Cuba</li> <li>● Dominica</li> <li>● Dominican Republic</li> <li>● Grenada</li> <li>● Guyana</li> <li>● Haiti</li> <li>● Jamaica</li> <li>● Saint Kitts and Nevis</li> <li>● Saint Lucia</li> <li>● Saint Vincent and the Grenadines</li> <li>● Suriname</li> <li>● Trinidad and Tobago</li> </ul> |
| <b>Latin America</b> | <ul style="list-style-type: none"> <li>● Argentina</li> <li>● Bolivia</li> <li>● Brazil</li> <li>● Chile</li> </ul>                                                                                                                                                                                                                                                                                                                |

|  |                                                                                                                                                                                                                                                   |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <ul style="list-style-type: none"> <li>• Colombia</li> <li>• Costa Rica</li> <li>• Ecuador</li> <li>• El Salvador</li> <li>• Guatemala</li> <li>• Honduras</li> <li>• Mexico</li> <li>• Nicaragua</li> <li>• Peru</li> <li>• Venezuela</li> </ul> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Asia Pacific

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Southeast Asia</b> | <ul style="list-style-type: none"> <li>• Cambodia</li> <li>• Indonesia</li> <li>• Laos</li> <li>• Myanmar</li> <li>• Philippines</li> <li>• Thailand</li> <li>• Timor Leste</li> <li>• Vietnam</li> </ul> |
| <b>South Asia</b>     | <ul style="list-style-type: none"> <li>• Bangladesh</li> <li>• Bhutan</li> <li>• India</li> <li>• Nepal</li> <li>• Pakistan</li> <li>• Sri Lanka</li> </ul>                                               |
| <b>Central Asia</b>   | <ul style="list-style-type: none"> <li>• Kazakhstan</li> <li>• Kyrgyzstan</li> <li>• Tajikistan</li> <li>• Uzbekistan</li> </ul>                                                                          |
| <b>Asia pacific</b>   | <ul style="list-style-type: none"> <li>• Fiji</li> <li>• French Polynesia</li> <li>• New Caledonia</li> <li>• Solomon Islands</li> <li>• Vanuatu</li> <li>• Wallis &amp; Futuna</li> </ul>                |
| <b>Oceania</b>        | <ul style="list-style-type: none"> <li>• Papua New Guinea</li> </ul>                                                                                                                                      |
| <b>East Asia</b>      | <ul style="list-style-type: none"> <li>• Mongolia</li> </ul>                                                                                                                                              |
| <b>ASEAN</b>          | <ul style="list-style-type: none"> <li>• Cambodia</li> <li>• Indonesia</li> <li>• Laos</li> <li>• Malaysia</li> <li>• Myanmar</li> <li>• Philippines</li> <li>• Thailand</li> <li>• Vietnam</li> </ul>    |

## Neighbourhood countries

|                                       |                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Western Balkans (DG ENEST)            | <ul style="list-style-type: none"> <li>• Albania</li> <li>• Bosnia and Herzegovina</li> <li>• Kosovo</li> <li>• North Macedonia</li> <li>• Montenegro</li> <li>• Serbia</li> </ul>                                               |
| Eastern Partnerships (EaP) (DG ENEST) | <ul style="list-style-type: none"> <li>• Armenia</li> <li>• Azerbaijan</li> <li>• Belarus</li> <li>• Georgia</li> <li>• Moldova</li> <li>• Ukraine</li> </ul>                                                                    |
| Southern Neighbourhood (DG MENA)      | <ul style="list-style-type: none"> <li>• Algeria</li> <li>• Egypt</li> <li>• Jordan</li> <li>• Lebanon</li> <li>• Libya</li> <li>• Morocco</li> <li>• Palestine</li> <li>• Tunisia</li> <li>• Turkey</li> <li>• Syria</li> </ul> |

## Data collection & cleaning

The initial step in the process of data aggregation involves locating and organizing the relevant data. This can be particularly challenging, as project information is often scattered, unavailable online, managed by various departments within development agencies, or not explicitly categorized under keywords such as "digital." The methodology for the data retrieval can be broken down into 4 activities:

1. **Assessment of previous mappings**, e.g. Connectivity / Entrepreneurship & Innovation mapping, Mapping working group Earth Observation & Space, Mapping working group Digital Health.
2. **Request for information by mail.**
3. **Bilateral meetings organized by the regional coordinator.**
4. **Extensive desk research.** The desk research included a manual inventory or exports of projects available in online databases from development cooperation agencies and online data from the EU:
  - For a list of online repositories from D4D Hub members, we refer to the members page on the Intranet: [Who are the D4D Hub members?](#).
  - EU Global Gateway Platform is an Excel managed by INTPA and is not publicly available (we received a copy in Sept. 2024).

We did not receive feedback from all the member states, data collection is therefore an ongoing process.

After the data was inserted into the Excel template, we proceeded with the “cleaning “ of the data. This means correcting errors in free-text fields (e.g. spelling mistakes, changing *Netherlands* into *The Netherlands*, South-East Asia => Southeast Asia), correcting wrong formats (e.g. errors in URLs), checking any contextual or structural errors (e.g. making sure multiple entries are separated by a comma, moving entries from one column to another), validation of information and checking consistency, removing double entries etc.

Data collection and cleaning resulted in 5 consolidated Excel files, one per region:

- ✓ **Consolidated mapping for Sub-Saharan Africa**
- ✓ **Consolidated mapping for Latin-America and Caribbean**
- ✓ **Consolidated mapping for Asia-Pacific**
- ✓ **Consolidated mapping for NEAR**
- ✓ **Consolidated mapping for Global projects**

## Technical implementation

For the technical development of the mapping tool, we signed into the framework contract of Enabel with the company [Cloubis](#).

## Data storage

The Excel files are securely hosted by Enabel in a SharePoint environment (only accessible by Enabel IT-staff and the D4D Hub administrator of the mapping tool). Updated copies of the Excel can be consulted on the D4D Hub Intranet in the folders of the corresponding regional branches: Document library => [regional branch] => folder “Consolidated mapping”.

## PowerBI reports

The data from the Excel files were aggregated in PowerBI reports, a data visualization tool developed by Microsoft and available in the standard MS Office package. This phase of the project consisted of regular meetings with the developer and several iteration rounds.

The first version of the mapping tool contains 5 reports:

- a) a report focused on **the number of D4D projects** in specific regions or countries [projects]
  - b) a report focused on **the main digital topics addressed** in D4D projects [digital topics]
  - c) a report **combining project information & digital topics** [projects & digital topics]
  - d) a **table view** with detailed information [details]
  - e) a **map view** [map view]
- 
- The reports can be consulted **for all regions, or for a specific region** [drop-down list in the center of each report]: *Sub-Sahara Africa, Latin-America & Caribbean, NEAR, Asia-Pacific* and *Global projects*.
  - Within each report, a distinction can be made between **country level/bilateral projects** (e.g. implemented in Colombia, Senegal, Ukraine) and **regional projects** (e.g. projects targeting the region of Southeast Asia or the Caribbean). [2 buttons, left corner of the report]

### a) Report 1 – Projects

This report contains 3 bar charts and 1 donut chart.

- In the first bar chart (left) you can see **the number of D4D projects per country or region**.
- In the second bar chart (middle) you can see the **D4D Hub members active in these countries**.
- In the donut chart you can find the ratio between **projects with funds from the EU and those without EU-funding**.
- In the bar chart on the bottom right side, you can see **the number of TEIs/JIs, projects identified as Global Gateway flagship projects, and Other (all other projects)**.

Each bar is clickable and automatically filters the other charts.

There can be a difference between the number of projects (left bar chart) and the chart displaying the D4D Hub members. This is because member states can be partner in more than one project. For example, imagine there are 5 projects in Kenya: Estonia is partner in 3 of those projects, Belgium is partner in 1 of those projects, and Germany is partner in each 5 of those projects. The left chart will show 5 projects in Kenya, while the total participation count in the D4D Hub members chart will be 9.

#### b) Report 2 – Digital topics

- This report contains 1 bar chart where you find an overview of the *most targeted digital topics* in D4D projects from a certain country or region.

#### c) Report 3 – Projects and digital topics

This report contains 2 table views with more detailed information about D4D projects:

- A clickable table where you find the country or region, once unfolded you can find the name of the project and the website.
- A table with the list of digital topics per region or country: when selecting a digital topic, the table on the right is automatically filtered.

#### d) Report 4 – Details (table view)

In this detailed table you can find for each selected country or region following data: *country / region, title, D4D Hub members, implementing partners, other implementing partners, target region, target countries, description, website and digital topics*, and implementation period. [Note: the table view always includes country-level projects and regional-level projects].

#### e) Report 5 – Map view

This report depicts the D4D projects on a map showing activity clusters. The larger the clusters, the more projects in this country or region.

#### f) Filters

You can filter each report using the clickable arrow in the right pane. Each filter contains a drop-down list where you can select specific metadata. You can filter on:

- *Countries and regions*: if you selected “Country level projects” in the main chart, you can filter on specific countries, if you selected “Regional level projects” in the chart, you can filter on specific regions. [Note: Both countries and regions are in the same drop-down list].
- *Region – country level projects*: you are also able to select certain regions for “Country level projects”. These projects are implemented in specific countries, but with this filter you can also select specific regions, e.g. West Africa. [The filter does not work properly because how the Excel was designed, e.g. the result can show East African countries when you select West Africa].
- *D4D Hub Category*: you can filter projects where digital is the principal objective (Category 2, see supra) or projects where digital is a significant objective (Category 3).

- *D4D Hub members*: you can select a specific D4D Hub member in the drop-down list.
- *Digital domain*
- *Project*: in this drop-down list you can find an overview of the projects that correspond to your selection. For more details on these projects: use the report “Projects & digital topics” of the “Table view”. [Note: the projects listed in this filter contain both country-level projects and regional-level projects. Hence, the number of projects listed in this filter can be different from the number of projects displayed in the charts].
- *Status*: you can choose between “not started”, “ongoing” or “completed”.
- *TEIs & JIs*: select if you want to display only EU Team Europe Initiatives or Joint Initiatives

Combined queries or multiple entries in the filter section are calculated as AND + OR, not only as AND. This means that if you select „Belgium“ and „Italy“ in the drop-down list, you will get projects from Belgium, from Italy and projects where Belgium and Italy are partner in the same project.

## Exports

It is possible to export the reports in PowerPoint, PDF or Excel (e.g. the table view). Unfortunately, it is not possible for users to export reports as it requires upgraded MS licenses. If you wish to export a report, please contact your D4D Hub focal point.

## Accessibility & Updates

The D4D Hub mapping tool is the first step towards a more collaborative and comprehensive platform managed and updated by the D4D Hub community. **Because we are working with continuously changing data and largely depend on input from D4D Hub members, the tool does not claim to be exhaustive or complete. If we want to keep the platform updated and revised, it is important that D4D Hub members regularly feed the tool with new D4D projects.**

It requires a collaborative strategy to keep the tool relevant.

- Master files and PowerBI reports are securely managed and hosted by Enabel and subsequently embedded on the D4D Hub Intranet and the knowledge sharing platform [D4D Access](#) via a private link.
- The master files can only be manipulated by designated staff members. The administrator is responsible for updating (by replacement) of the Excel copies accessible to D4D Hub members on the Intranet.
- A strategy for updating and revising the content by D4D Hub members needs to be developed (*to be discussed with D4D Hub members*):

- **New content can be added in a template available on the D4D Hub Intranet.**
- **Errors or revisions can be sent to your D4D Hub focal point.**
- **Scheduled updates once a year via mail and/or bilateral meeting organized by the regional coordinator or WG facilitator.**
- **A template is available on the Intranet to add new projects:**

We can further elaborate the mapping tool with more data or filters, e.g. include projects with a private sector engagement, projects from (E)DFIs or local civil society organizations, or digital for development (local) projects implemented by partner countries.

**The tool was launched in December 2024 and can be tested by the D4D Hub members until the end of March 2025. Any comments or suggestions about the working of the tool will be discussed with the developer who will consider any additional technical changes (deadline April 2025).**

-----

**Eva Coudyzer**  
**Brussels 2025**