



FARCLIMATE

DELIVERABLE D6.5

Conceptualisation of the Interactive Visualisation "Connected Action for EU A "

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Table of contents

Table of contents	2
List of acronyms.....	3
Project information.....	4
Deliverable details	5
1. Executive Summary	6
2. Introduction.....	7
2.1 Purpose and objectives	7
2.2 Conceptualisation starting point	7
2.3 Stakeholder validation and dissemination plan	8
3. Methodological approach	8
3.1 Knowledge sources	8
3.2 Systematisation of the information	9
3.3 Visualisation approach.....	11
4. Creating the database	12
4.1 Data processing workflow.....	12
4.2 Backend and database admin.....	15
5. Prototype visualisation exploration	17
5.1 Introductory conceptual tips for visualisation.....	17
5.2 Early prototyping tests	19
6. Conceptualisation and design of the interactive visualisation tool.....	27
6.1 Dashboard	27
6.2 Spatial data: choropleths and cartograms	30
6.3 Projects and entities connected.....	34
6.4 Other relevant contents	38
7. Conclusions and next steps.....	39
References	40
Annex 1. Catalogue of main European and global climate adaptation platforms	41
Annex 2. List of projects in the Mission Projects Catalogue	45
Annex 3. XML data analysis report	55

List of acronyms

AI: Artificial Intelligence

D: Deliverable

EC: European Commission

EEA: European Environment Agency

EU: European Union

IPCC: Intergovernmental Panel on Climate Change

MIP4Adapt: EU Mission Implementation Platform

NGO: Non-Governmental Organisation

NUTS: Nomenclature of Territorial Units for Statistics

PU: Public

R&D: Research and Development

T: Task

SME: Small and Medium Enterprise

UMAP: Uniform Manifold Approximation and Projection

UN: United Nations

UNFCCC: United Nations Framework Convention on Climate Change

WP: Work Package

Project information

Project full title: Moving ForwARd to achieving CLIMATE-resilient and sustainable European regional economic systems - FARCLIMATE

Acronym: FARCLIMATE

Call: HORIZON-MISS-2022-CLIMA-01

Topic: HORIZON-MISS-2022-CLIMA-01-04 - Transformation of regional economic systems for climate resilience and sustainability

Start date: 1st October 2023

Duration: 48 months

List of participants:

Partner No.	Organisation Name Acronym
1 (Coord.)	UNIVERSIDAD DE VIGO UVIGO
2	CONTACTICA S.L. CTA
3	C4G - CONSULTING AND TRAINING NETWORK, LDA C4G
4	INVIALE LIFE CYCLE THINKING S.L. INV
5	MUNICIPIO DO FUNDAO FUNDAO
6	GREEN GROWTH GENERATION GGG
8	FUNDACION CENTRO DE SERVICIOS Y PROMOCIÓN FORESTAL Y DE SU INDUSTRIA DE CASTILLA Y LEÓN CESEFOR
9	UNIVERSIDADE NOVA DE LISBOA UNL
10	FUNDACION PARA LA PESCA Y MARISQUEO FUNDAMAR FUNDAMAR
11	INTERNATIONAL UNION FOR CONSERVATION OF NATURE UICN
12	EUROPEAN NETWORK OF LIVING LABS IVZW ENoLL
12.1	ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS CERTH
12.2	LAUREA-AMMATTIKORKEAKOULU OY LAU
13	UNIVERSITY OF GHENT UGENT

Deliverable details

Document Number:	D6.5
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WP:	WP6
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Author:	Beatriz Rivela (INV), Juan Freire (INV), Sergio Galán (INV)
Abstract:	The present document builds upon the knowledge management needs identified for the EU Climate Adaptation Mission to present the detailed conceptualisation and design of an interactive visualisation tool for mapping connected adaptation actions across Europe. It describes the methodological approach -including document analysis of CORDIS data, project catalogue review, and prototype testing-, the data processing workflow from XML to PostgreSQL database, and key visualisation components such as modular dashboards, NUTS-3 choropleth/cartogram maps, and network graphs of projects, entities, and products. The deliverable details criteria for categorising adaptation activities (spatial/temporal scales, involved entities, sectors/themes), early prototyping insights, and the final tool design to be implemented in Task T7.3 as part of the FARCLIMATE Transformation Hub. This conceptual groundwork supports network analysis and synergy identification, underpinning FARCLIMATE's objective to enhance stakeholder-focused climate adaptation outcomes through clear, actionable visual representations of the evolving European ecosystem.

Version	Date	Description
Draft_V0	10/01/2026	First draft
Version_V1	15/01/2026	Initial version
Version_V2	27/01/2026	Second version
Version_V3	23/09/2026	Third version of D6.5 (revised after RP2 review)

1. Executive Summary

The present document, developed as part of **Task T6.5 Connected Action for EU adaptation** within **WP6- Making meaning of data: from information to stakeholder-focused outcomes** of the FARCLIMATE project, presents the detailed **conceptualisation** and **design** of an **interactive visualisation tool** for mapping the **European climate adaptation ecosystem**. Building upon the knowledge management needs identified for the EU Climate Adaptation Mission, it translates these requirements into a coherent, **user-centred digital solution** designed to enhance action effectiveness and leverage synergies across projects, entities, and products.

Section 2 situates the **Connected Action tool** within the broader **objectives** of **WP6**, establishing its role as a cornerstone for **objective 06.3** -mapping actors in the Climate Adaptation Mission-, while addressing the need to ground-truth theoretical adaptation categorisations with empirical data. This framing sets the stage for the following sections, guiding the tool's purpose and methodological approach.

Section 3 outlines the **methodological approach**, detailing **knowledge sources** such as **CORDIS** project data, the **Mission Projects catalogue**, and European/global platforms, alongside the systematisation of information into structured records (processes, entities, products) with **criteria** including spatial/temporal scales, involved entities, sectors, and themes.

The **database creation process** is elaborated in **Section 4**, describing the data processing workflow from XML acquisition to PostgreSQL population, backend administration, and analysis revealing **1,196 entities** across **65 Mission projects**. **Section 5** presents **prototype visualisation** exploration, including **dashboards**, **network graphs**, and **early tests** balancing aesthetic appeal with actionable insights like NUTS-3 spatial mapping.

Conceptualisation of the tool continues in **Section 6**, featuring the **final design** of modular **dashboards**, **choropleth/cartogram maps**, and **network visualisations**, all underscoring clarity, interactivity, and alignment with the FARCLIMATE Transformation Hub.

Finally, **Section 7** synthesizes **conclusions** and **next steps**, linking the content to implementation in Task T7.3.

Together, these sections form a comprehensive narrative that guides the development of the Connected Action for EU Adaptation tool as a transformative digital component empowering stakeholders to visualise network growth, identify synergies, and navigate adaptation activities -particularly in priority sectors like fisheries and forestry- in a practical and insightful way. The tool has been integrated into the Transformation Hub beta, as described in D7.3 Platform in Production and Source Code, supporting ongoing living lab testing (Task T2.4).

This third version of the deliverable incorporates the **constructive feedback** received during the **RP2 review** process (June 2026). Following the **original submission** in **January 2026**, the **EU Mission Projects Catalogue** was **updated in May 2026**, expanding the Mission portfolio from 46 to 65 projects; this updated catalogue has been **incorporated** into the **present version**, together with a **planned stakeholder validation process** with the EU Mission ecosystem, and a positioning of Connected Action in relation to other EU-level knowledge sources such as the EU Mission Adaptation Dashboard.

2. Introduction

2.1 Purpose and objectives

The **FARCLIMATE** project addresses the complex challenge of developing and scaling **climate-resilient measures**, with a strong emphasis on ensuring they are **accessible** and **comprehensible** to all. In doing so, it addresses the social, political, and economic barriers that often obstruct progress. By empowering local communities, FARCLIMATE places climate adaptation at the forefront, ensuring that transitions are guided by principles of justice and inclusivity. Within this framework, **WP6-Making meaning of data: from information to stakeholder-focused outcomes** is defined by these objectives:

- **06.1.** Provide new responses to the disruptive change associated with climate change.
- **06.2.** Provide potential political strategies to be considered in different scenarios.
- **06.3.** Mapping the different actors in the Climate Adaptation Mission.

Task **T6.5 Connected Action for EU adaptation**, as described in this document, aligns with objective **06.3**. The purpose of this deliverable is to outline the methodological approach for **conceptualising** and **designing** the interactive visualisation tool, from database creation and prototype visualisation exploration to the description of the final proposal, which has subsequently been implemented in **Task T7.3** as a component of the Transformation Hub (see D7.3 Platform in Production and Source Code). This third version, submitted after the RP2 review, incorporates the feedback received during that process, as detailed throughout the relevant sections below

2.2 Conceptualisation starting point

From a knowledge management perspective, the **EU Mission on Adaptation to Climate Change** (MIP4Adapt) fuels a growing European network of actors and initiatives, creating a pressing need to map "**who, what, where, when, and how**" to enhance action effectiveness and leverage synergies. This involves tracing **network** evolution over recent years, identifying key **individuals** and **organisations** driving it, and analysing the **projects**, sectors, and common challenges they address across Europe. While theoretical categorisations of adaptation actions have outlined possible intervention forms, grounding these in empirical on-the-ground activities remains essential to validate and refine them.

User research from FARCLIMATE Task T7.1 revealed critical gaps in existing climate adaptation platforms, such as limited territorial relevance, sector underrepresentation (notably fisheries and forestry), and insufficient practical guidance for local implementers. These insights underscore the need for data structures that capture spatial/temporal scales, involved entities, sectors, and themes from real-world projects, particularly those funded under Horizon 2020 Green Deal calls and Horizon Europe adaptation-relevant initiatives.

A core conceptual anchor for the **Transformation Hub** is the **Connected Action for EU Adaptation** (Task T6.5), which will **visualise** this **ecosystem** by prioritising key actors while deliberately limiting scope to avoid overwhelming users with exhaustive lists of local policymakers or partners. Centring on the **European scenario**, this approach equips stakeholders to identify **synergies** between emerging actions and ongoing efforts, supporting MIP4Adapt's network-building objectives.

2.3 Stakeholder validation and dissemination plan

The conceptualisation presented in this document responds to the knowledge management needs identified for the EU Climate Adaptation Mission through the process described in Section 2.2. Following the RP2 review, and to ensure the tool responds to the needs of its primary user group, a validation session with representatives of the EU Mission Adaptation to Climate Change ecosystem is scheduled for October 2026, during which the Connected Action tool will be presented and discussed. A complementary meeting with the coordinator of the RESIST project, also scheduled for October 2026, will provide an additional external perspective, given RESIST's own work on adaptation solution platforms (see Section 3.1). Outcomes from both sessions will be considered as part of the review process of the Transformation Hub beta and integrated into the final version of the Hub.

Beyond this initial validation step, Connected Action, reflecting the updated EU Mission Projects Catalogue (see Section 4), will be presented to the broader Mission ecosystem at the Fifth Forum for the EU Mission on Adaptation to Climate Change, to be held on 23-24 November 2026 in Dublin, Ireland. This event will serve as a key dissemination milestone, reaching MIP4Adapt, the Mission signatories, and the Friends of the Mission network.

3. Methodological approach

3.1 Knowledge sources

A comprehensive **document analysis**, complemented by **semi-structured interviews** conducted during the Transformation Hub design process, enabled the **identification of knowledge sources** relevant for characterising the climate adaptation ecosystem. These sources encompass a wide array of **platforms**, research **projects**, and **scientific outputs** providing data, tools, case studies, and innovative practices in climate adaptation.

The main European and global platforms reviewed are synthesised in **Annex 1**; for more detailed information, deliverables **D7.1** and **D7.2** are recommended.

Research projects and **processes** constitute another key knowledge source, with a targeted search prioritising the European context. A thorough analysis covered the **46 projects** in the **Mission Projects Catalogue** (CINEA et al., 2025), despite detected inconsistencies in information presentation –such as FARCLIMATE's classification under "Water management."¹ The complete list of projects, including their websites, appears in **Annex 2**.

Research projects and **processes** constitute another key knowledge source, with a targeted search prioritising the European context. A thorough analysis covered the **65 projects** in the **EU Mission Projects Catalogue** (CINEA & Sidhu, 2026), reflecting the Catalogue's **update in May 2026**; the original data collection (January 2026) covered the initial **46 projects** listed in the previous edition (CINEA et al., 2025), with the database subsequently updated to the expanded portfolio (see Section 4). FARCLIMATE's own classification, previously listed under "Water management" in the 2025 edition, has been corrected to "Finance and local economic

¹ CINEA (Josefine Sørensen) confirmed via email on May 20, 2025, that this was a classification error. It has been corrected in the May 2026 edition of the Catalogue, where FARCLIMATE is listed under "Finance and local economic systems" (CINEA & Sidhu, 2026).

systems" in the current edition. The complete list of projects, including their websites, appears in **Annex 2**. This review was supplemented by projects outside the catalogue –estimated at over 200 potentially relevant to Mission activities– but to focus the visualisation on direct Mission action, attention centred on the explicitly incorporated projects. This methodological choice ensures relevance and usability in mapping the "who, what, where, when, and how" of the adaptation network.

As detailed in **D7.2**, the reviewed projects yielded **results** of particular interest, including a compilation of tools from the first four EU Climate Adaptation Mission projects: ARSINOE, IMPETUS, REGILIENCE, and TransformAr. REGILIENCE notably details funding and training opportunities, while IMPETUS features demonstration sites across seven of Europe's 11 biogeographical regions, alongside the IMPETUS Marketplace for aggregated results and the Semantic Context Broker Tool (deliverable 2.2; Onrubia & Corchero, 2022). In the TransformAr project, the focus on Key Community Systems (KCS) and categories is central, along with deliverable 3.2: Catalogue tool designed to identify the best available solutions (Khamis et al., 2022). RESIST seeks to accelerate market entry for at least 100 adaptation solutions via coaching and regional scaling across 12 European regions; as of January 2026, its Handbook of Solutions listed only 10 innovations, with further updates anticipated. A meeting with the RESIST project coordinator, scheduled for October 2026 (see Section 2.3), will provide an opportunity to review progress on this front. . Finally, a complementary search covered reports and scientific articles on climate adaptation solutions, including recent publications to inform evidence-based strategies and policy.

In addition to these sources, the EU Mission Adaptation Dashboard, developed by the European Environment Agency (available at <https://discomap.eea.europa.eu/adaptation-dashboard/>), has been reviewed as a complementary reference. While the Dashboard focuses on national and regional adaptation policy indicators, Connected Action for EU Adaptation is centred on Mission-funded projects and their entities, offering a project- and actor-level view that complements the Dashboard's policy-level perspective.

3.2 Systematisation of the information

The systematisation approach began with an analysis of the taxonomy from the **Climate Connectivity Hub**², developed through **PLACARD**, **MAIA**, **Directed**, and **FAIR2Adapt** projects and led by the **Stockholm Environment Institute**. This Hub links data from platforms including **CORDIS**, **PreventionWeb**, **weADAPT**, the **Resilience Platform**, and **Climate-ADAPT**, facilitating exploration of **climate change adaptation** (CCA) and **disaster risk reduction** (DRR) information for practitioners, researchers, and policymakers. Its purpose –connecting users to relevant knowledge, projects, and organisations– aims to prevent redundancy, though the current version (January 2026) exhibits **usability issues** such as bugs in search results.

Figure 1 shows the Hub's homepage. If a search is conducted using, for example, one of the popular searches such as "nature-based solutions", the result yielded is a set of **bullseyes** (Figure 2), in which projects, articles, keywords and organisations are **shown indistinctly** (they can be filtered and only the categories of interest selected).

² Available at <https://connectivity-hub.weadapt.org/>


[How to get started](#)
[About the Hub](#)
[Submit New Concept](#)
[Seleccionar idioma](#) ▼

[Help Us Improve](#)


Climate Connectivity Hub

Welcome to the Climate Connectivity Hub, a new "search and discovery" tool that helps users find relevant knowledge and organizations working on climate change issues. The Hub is a testbed for artificial intelligence (AI) and machine learning techniques to produce new, policy-relevant insights.

Search

Popular searches

[flood](#) [heatwave](#) [drought](#)
[wildfire](#) [urban](#) [agriculture](#)
[infrastructure](#) [nature-based solutions](#)
[climate finance](#) [adaptation](#)
[climate-resilient pathways](#)
[enabling conditions](#)

Figure 1. Climate Connectivity Hub homepage. Available at <https://connectivity-hub.weadapt.org/>.

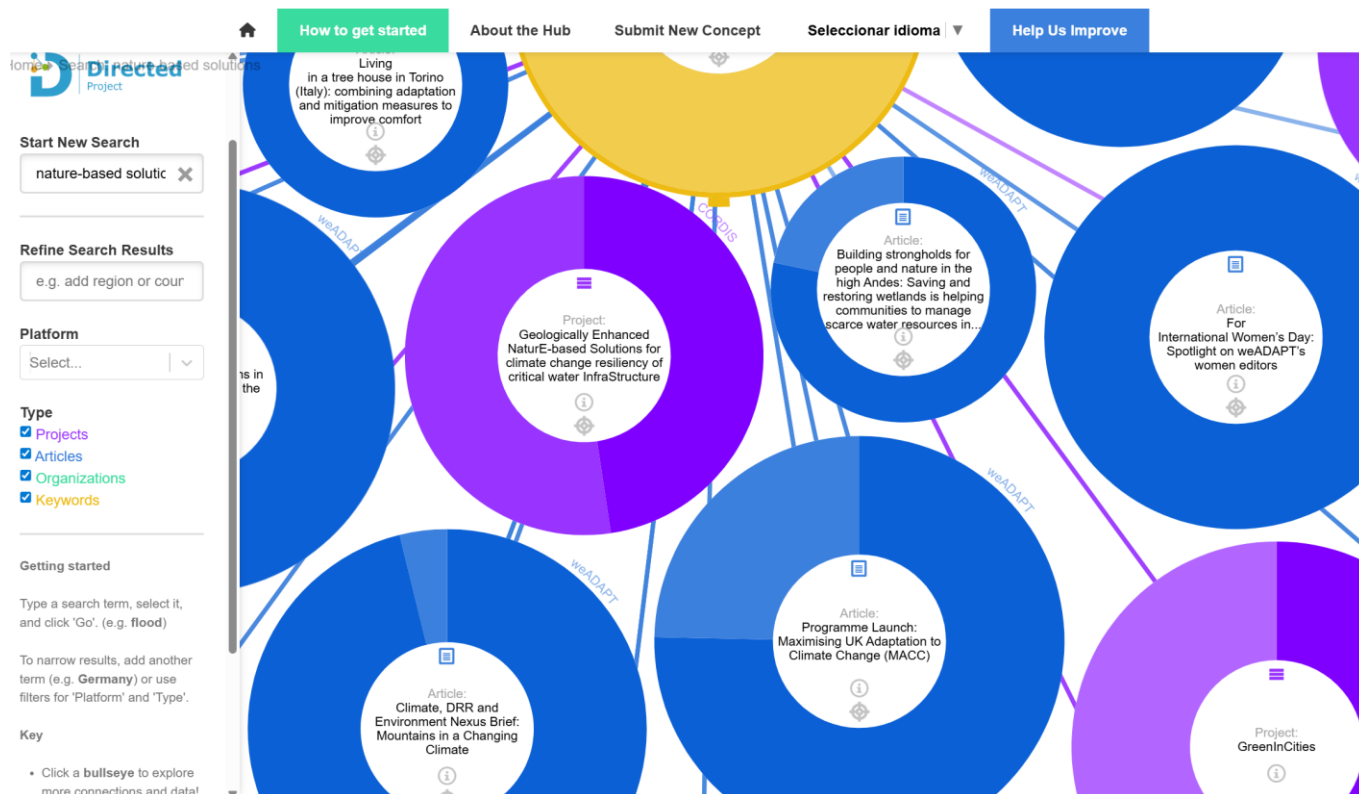


Figure 2. Search result for "nature-based solutions" in Climate Connectivity Hub.

While the **approach** is **promising** and will likely improve usability in future, the Connected Action for EU Adaptation visualisations require a **simpler data structure** that classifies information to enable **clear representations** of the climate adaptation **ecosystem** in the **European context**. The categorisation criteria must include at least spatial and temporal scales, entities involved, climate risks and themes; the data structure must allow the creation of narratives describing the network's impact.

To systematise the relevant information, a **data structure** was designed with three types of records:

- **Process**: an activity executed within a specific period in the field of climate adaptation (e.g. a European funded project).
- **Entity**: a relevant agent involved in research-action processes in climate adaptation.
- **Product**: encoded knowledge that provides an effective solution for climate change adaptation in a specific context (e.g. a platform).

For the creation of the database, the EU MIP4Adapt catalogue provided the focus. The "**processes**" considered are the **65 projects** reflected in the current edition of the Mission catalogue (CINEA & Sidhu, 2026) -that is, all projects directly linked to the Mission, updated to **May 2026**. The catalogue differentiates a total of **13 climate risks** and **13 themes** (information not available in CORDIS), consistent across both the 2025 and 2026 editions.

The attributes reflected for each project are as follows:

- Title
- Identifier (project number)
- Coordinator (entity)
- Life cycle (start date and end date)
- Budget
- EU contribution (EU-funded budget)
- Objective
- Key achievement
- Regions/local authorities involved
- CORDIS link
- Website

The list of "**entities**" forming the database for the visualisation is generated from participants in the different projects (although the catalogue only shows the coordinator, the **complete list of partners** for each project can be accessed in CORDIS). Regarding "**products**", a detailed analysis of project results is necessary to select those that may be relevant or of general interest to the climate adaptation community.

3.3 Visualisation approach

The visualisation approach has been defined through a sequential process involving three stages: creating the database (described in section 4), prototype visualisation exploration (section 5), and finally conceptualisation and design of the interactive visualisation tool (section 6).

4. Creating the database

4.1 Data processing workflow

The database was constructed in three main stages, drawing from raw CORDIS project data and supplementary PDF catalogue information.

4.1.1. Raw data acquisition

Project numbers listed in the PDF catalogue were used to construct CORDIS URLs. XML data was retrieved using the ?format=xml parameter, while HTML versions were used for reference. This generated a list of 65 project URLs, from which corresponding XML files were retrieved, capturing comprehensive details such as budgets, participants, and coordinators



FARCLIMATE		
Moving forward to achieving climate-resilient and sustainable European regional economic systems	PROJECT NUMBER	COORDINATOR
	101112860	Universidad de Vigo, Spain
	BUDGET	
CORDIS LINK	WEBSITE	
https://cordis.europa.eu/project/id/101112860	www.farclimate-project.eu	

Figure 3. Example of the information provided in the catalogue for the FARCLIMATE project.

4.1.2. Data processing

XML data was parsed into structured CSVs aligned with the target database schema, addressing gaps like PDF-exclusive fields (climate risks and themes, added manually via image tagging). Figure 4 reflects the list of climate risks and main themes described in the EU Mission projects catalogue.

Key CSVs included:

- **Auxiliary tables:** aux_climate_risks, aux_themes, aux_entity_types (e.g., public bodies, research organisations).
- **Core tables:** projects_cordis, entities_cordis, plus relational tables (project_risks, project_themes, project_entities).
- **Unused CSVs** (aux_product_types, products_cordis) were discarded in favour of custom categorisation.

LEGEND

CLIMATE RISKS

-  Coastal erosion
-  Drought
-  Extreme heat
-  Flooding
-  Heavy precipitation
-  Landslides
-  Precipitation changes
-  Sea level rise
-  Severe winds
-  Storms
-  Surface air temperature increase
-  Tropical cyclones
-  Wildfires

MAIN THEMES

-  Adaptation funding & finance
-  Behavioural change
-  Ecosystems and nature-based solutions
-  Governance
-  Health and wellbeing
-  Infrastructure
-  Knowledge and data on adaptation
-  Land use and food systems
-  Local economic systems
-  Mainstreaming adaptation
-  Stakeholder and citizen engagement
-  Transformative change
-  Water management

Figure 4. List of climate risks and main themes described in the EU Mission projects catalogue.

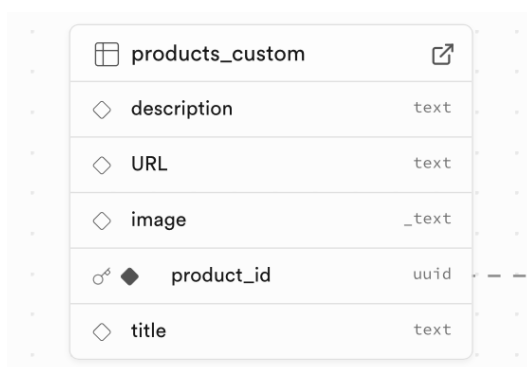
Table 1. Tables in the relational database.

<u>aux_climate_risks</u>	Contains the list of all climate risks available in the PDF
<u>aux_entity_types</u>	Types of entities (Public bodies Private for-profit entities Higher or Secondary Education Establishments Research Organisations Other)
<u>aux_product_types</u>	(not used since we will use our own product list)
<u>aux_themes</u>	Themes available in the PDF
<u>entities_cordis</u>	All the institutions appearing in the XML as " <u>organization</u> "
<u>products_cordis</u>	unused
<u>projects_cordis</u>	All the projects
<u>project_risks</u>	Relational table
<u>project_themes</u>	Relational table
<u>project_entities</u>	Relational table

While CORDIS constitutes the primary structured data source, it is acknowledged that project websites and social media accounts often contain more recent information than CORDIS records, which are not always updated in real time. A manual verification step has therefore been incorporated into the data quality process described in Section 6: projects flagged with outdated or incomplete CORDIS records are prioritised for manual cross-checking against their websites and public communication channels.

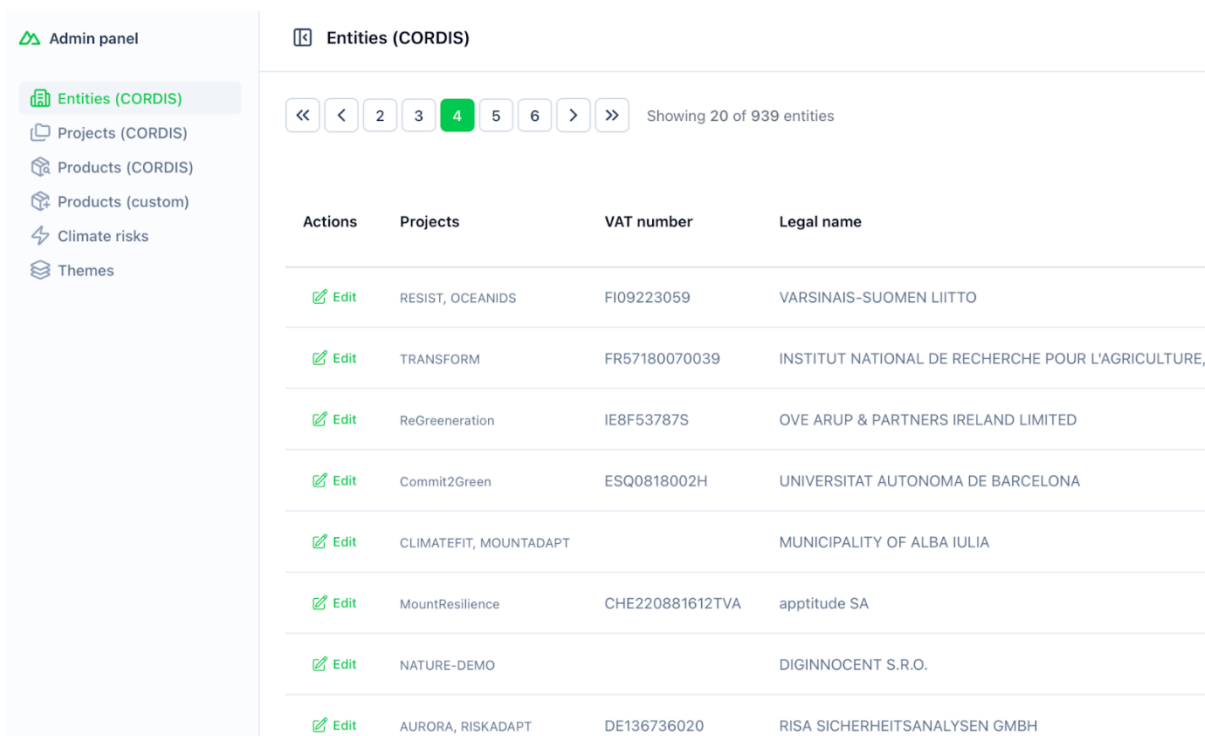
4.1.3. Database population and access

CSVs were first loaded into an SQLite database for validation, then migrated to the final PostgreSQL instance. A custom products table was added for project-specific items. An editing interface and API enable seamless data retrieval for dashboard and map visualisations



Field	Type
products_custom	
description	text
URL	text
image	_text
product_id	uuid
title	text

Figure 5. Fields for custom products unavailable in CORDIS.



Admin panel

- Entities (CORDIS)
- Projects (CORDIS)
- Products (CORDIS)
- Products (custom)
- Climate risks
- Themes

Entities (CORDIS)

Showing 20 of 939 entities

Actions	Projects	VAT number	Legal name
Edit	RESIST, OCEANIDS	FI09223059	VARSAIS-SUOMEN LIITTO
Edit	TRANSFORM	FR57180070039	INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE,
Edit	ReGreenation	IE8F53787S	OVE ARUP & PARTNERS IRELAND LIMITED
Edit	Commit2Green	ESQ0818002H	UNIVERSITAT AUTONOMA DE BARCELONA
Edit	CLIMATEFIT, MOUNTADAPT		MUNICIPALITY OF ALBA IULIA
Edit	MountResilience	CHE220881612TVA	apptitude SA
Edit	NATURE-DEMO		DIGINNOCENT S.R.O.
Edit	AURORA, RISKADAPT	DE136736020	RISA SICHERHEITSANALYSEN GMBH

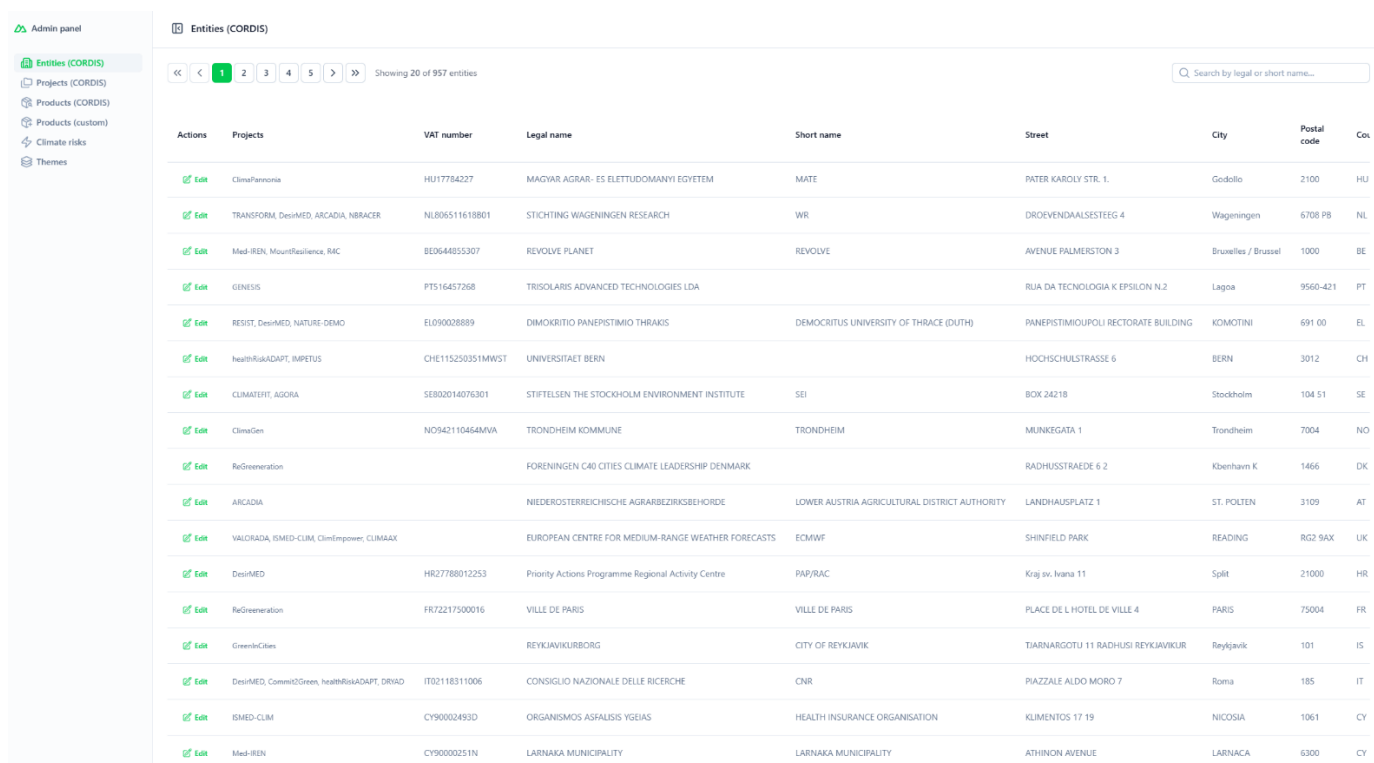
Figure 6. User interface for viewing and editing database entities.

Finally, an analysis of the XML data was conducted (see **Annex 2**).

The database created contains a total of **1,196 entities** whose activities are linked to the **65 projects** described in the current edition of the catalogue of the EU Mission on Adaptation to Climate Change (CINEA & Sidhu, 2026). Regarding the products, the list extracted from CORDIS consists of a limited number of items, mainly articles, conference proceedings, and poster presentations, which have been referenced by participants from some (but not all) of the aforementioned projects

4.2 Backend and database admin

The CORDIS database has been recreated as a PostgreSQL instance hosted on Supabase cloud service, following the data processing workflow described above. Simple editor panels have been implemented for each relevant table, enabling straightforward addition and modification of elements.



Actions	Projects	VAT number	Legal name	Short name	Street	City	Postal code	Country
Edit	ClimaParma	HU17784227	MAGYAR AGRAR- ES ELETUDOMANYI EGYETEM	MATE	PATER KARBOLY STR. 1.	Godollo	2100	HU
Edit	TRANSFORM, DesiMED, ARCADIA, NBRACER	NL805511618801	STICHTING WAGENINGEN RESEARCH	WR	DROEVENDAALSESTEEG 4	Wageningen	6708 PB	NL
Edit	Med-IREN, MountResilience, RAC	BE0644855307	REVOLVE PLANET	REVOLVE	AVENUE PALMERSTON 3	Bruxelles / Brussel	1000	BE
Edit	GENESIS	PTS16457268	TRISOLARIS ADVANCED TECHNOLOGIES LDA		RUA DA TECNOLOGIA K EPSILON N.2	Lagoa	9560-421	PT
Edit	RESIST, DesiMED, NATURE DEMO	EL090028889	DIMOKRITIO PANEPISTIMIO THRAKIS	DEMOCRITUS UNIVERSITY OF THRACE (DUTH)	PANEPISTIMIOU POLI RECTORATE BUILDING	KOMOTINI	691 00	EL
Edit	healthRiskADAPT, IMPETUS	CH115250351MWST	UNIVERSITAET BERN		HOCHSCHULSTRASSE 6	BERN	3012	CH
Edit	CLIMATEIT, AGORA	SE802014076301	STIFTELSEN THE STOCKHOLM ENVIRONMENT INSTITUTE	SEI	BOX 2421B	Stockholm	104 51	SE
Edit	ClimaGen	NO9421104648MVA	TRONDHEIM KOMMUNE	TRONDHEIM	MUNKEGATA 1	Trondheim	7004	NO
Edit	ReGreenation		FORENINGEN C40 CITIES CLIMATE LEADERSHIP DENMARK		RADHUSSTRAEDE 6 2	Kbenhavn K	1466	DK
Edit	ARCADIA		NIEDEROSTERREICHISCHE AGRARBEZIRKSBEHÖRDE	LOWER AUSTRIA AGRICULTURAL DISTRICT AUTHORITY	LANDHAUSPLATZ 1	ST. PÖLTEN	3109	AT
Edit	VALORADA, REMED-CLIM, ClimEmpower, CLIMAAK		EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS	ECMWF	SHINFIELD PARK	READING	RG2 9AX	UK
Edit	DesiMED	HR27788012253	Priority Actions Programme Regional Activity Centre	PAP/RAC	Kraj sv. Ivana 11	Split	21000	HR
Edit	ReGreenation	FR72217500016	VILLE DE PARIS	VILLE DE PARIS	PLACE DE L HOTEL DE VILLE 4	PARIS	75004	FR
Edit	GreenInCities		REYKJAVIKURBORG	CITY OF REYKJAVIK	TIARNARGOTU 11 RADHUSI REYKJAVIKUR	Reykjavik	101	IS
Edit	DesiMED, COMMI2Green, healthRiskADAPT, DRIVAD	IT02118311006	CONSIGLIO NAZIONALE DELLE RICERCHE	CNR	PIAZZALE ALDO MORO 7	Roma	185	IT
Edit	ISMED-CLIM	CY90002493D	ORGANISMOS ASFALISIS YGEIAS	HEALTH INSURANCE ORGANISATION	KLIMENTOS 17 19	NICOSIA	1061	CY
Edit	Med-IREN	CY90000251N	LARNAKA MUNICIPALITY	LARNAKA MUNICIPALITY	ATHINON AVENUE	LARNAKA	6300	CY

Figure 7. User interface for editing attribute fields in database entities.

STICHTING WAGENINGEN RESEARCH

VAT number NL806511618B01	Legal name STICHTING WAGENINGEN RESEARCH	Short name WR
Street DROEVENDAALSESTEEG 4	City Wageningen	Postal code 6708 PB
Country NL	Website URL https://www.wur.nl/en/research-results/research-institutes/food-safety-research.htm	Geolocation 51.9863279,5.6679366
Organization activity type Research Organisations	Region name Netherlands	Region NUTS code NL
Region ISO code NL	Related NUTS code NL221	

Projects
TRANSFORM, DesirMED, ARCADIA, NBRACER

TRANSFORM DesirMED ARCADIA NBRACER

Fill the project link fields for each selected project (data stored in project_entities).

TRANSFORM

Type *
participant

Order *
2

Total cost
960825

EC contribution
960825

Net EC contribution
960825

☐ SME ☐ Terminated

DesirMED

Type *
participant

Order *
7

Total cost
481917.5

EC contribution
481917.5

Net EC contribution
481917.5

☐ SME ☐ Terminated

ARCADIA

Type *
participant

Order *
7

Total cost
782920

EC contribution
782920

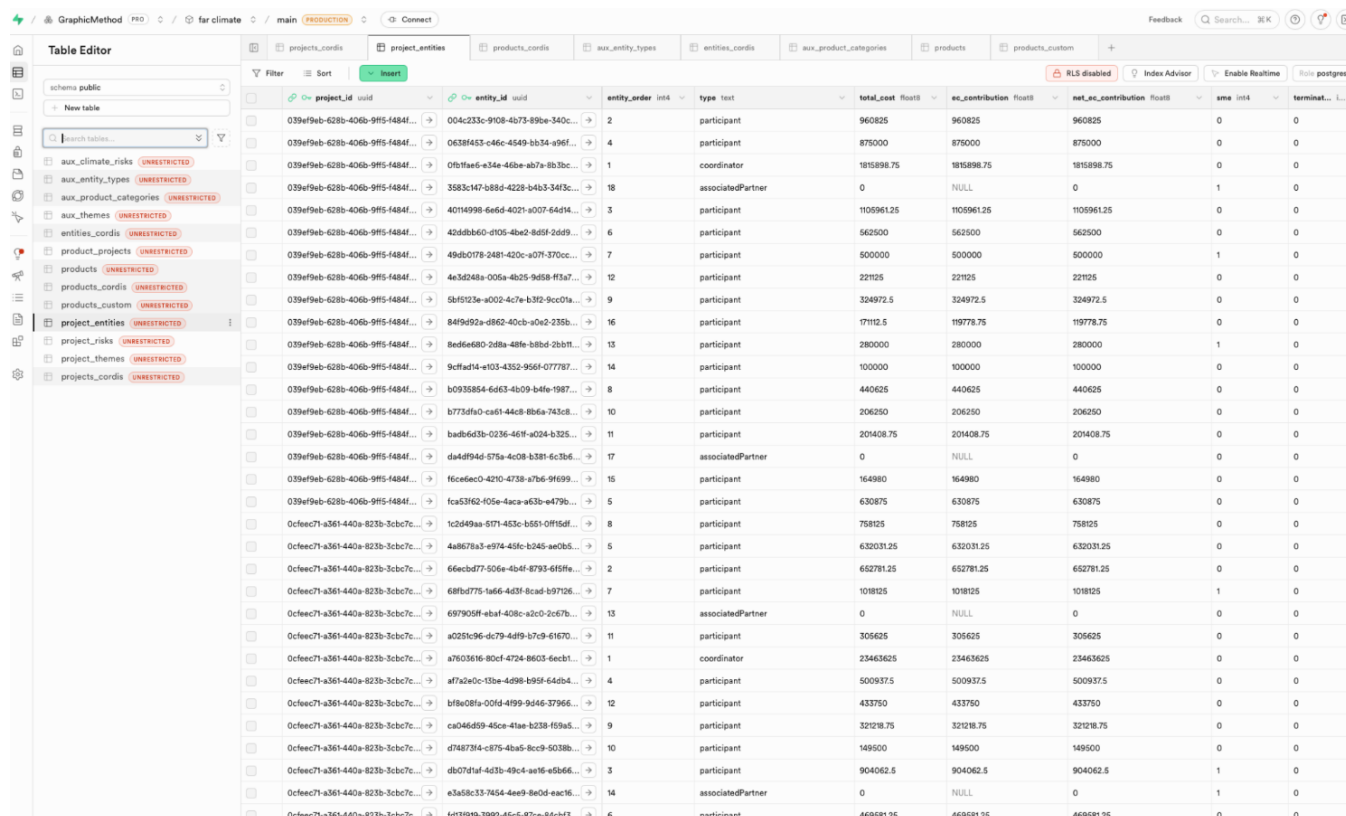
Net EC contribution
782920

☐ SME ☐ Terminated

NBRACER

Figure 8. Interface showing editable fields for a database entity.

Any changes not accessible via the editor interface should be performed directly through the Supabase management console. This setup ensures efficient backend administration and data maintenance for the visualisation tool.



project_id	entity_id	entity_order	type	total_cost	ec_contribution	net_ec_contribution	sme	terminated
039ef9eb-628b-406b-9ff5-1484f...	004c233c-9108-4b73-89be-340c...	2	participant	960825	960825	960825	0	0
039ef9eb-628b-406b-9ff5-1484f...	0638f453-c46c-4549-bb34-a96f...	4	participant	875000	875000	875000	0	0
039ef9eb-628b-406b-9ff5-1484f...	0fb1fae6-c34e-4d8e-ab7a-8b3b...	1	coordinator	1815898.75	1815898.75	1815898.75	0	0
039ef9eb-628b-406b-9ff5-1484f...	3583c147-b88d-4228-b4b3-34f3c...	18	associatedPartner	0	NULL	0	1	0
039ef9eb-628b-406b-9ff5-1484f...	4014999-6e64-4021-a007-64d14...	3	participant	1105961.25	1105961.25	1105961.25	0	0
039ef9eb-628b-406b-9ff5-1484f...	42d8bb60-d105-4be2-8d5f-2dd9...	6	participant	562500	562500	562500	0	0
039ef9eb-628b-406b-9ff5-1484f...	49db0178-2481-420c-a07f-370cc...	7	participant	500000	500000	500000	1	0
039ef9eb-628b-406b-9ff5-1484f...	4e3d248a-005a-4b25-9d58-f13a7...	12	participant	221125	221125	221125	0	0
039ef9eb-628b-406b-9ff5-1484f...	5b15123e-a002-4c7e-b392-9cc0a...	9	participant	324972.5	324972.5	324972.5	0	0
039ef9eb-628b-406b-9ff5-1484f...	84f9492a-d862-402c-a0c2-235b...	16	participant	17112.5	119778.75	119778.75	0	0
039ef9eb-628b-406b-9ff5-1484f...	8edee680-2d8a-48fe-b1bd-2b3b...	13	participant	280000	280000	280000	1	0
039ef9eb-628b-406b-9ff5-1484f...	9cfdad14-e103-4332-956f-07787...	14	participant	100000	100000	100000	0	0
039ef9eb-628b-406b-9ff5-1484f...	b0935854-6d63-4b09-befe-1987...	8	participant	440625	440625	440625	0	0
039ef9eb-628b-406b-9ff5-1484f...	b773dfa0-ca61-44c8-8b6a-743c8...	10	participant	206250	206250	206250	0	0
039ef9eb-628b-406b-9ff5-1484f...	b8d6d3b-0236-46f1-a024-b325...	11	participant	201408.75	201408.75	201408.75	0	0
039ef9eb-628b-406b-9ff5-1484f...	da4d946-575a-4c08-b381-6c3b6...	17	associatedPartner	0	NULL	0	0	0
039ef9eb-628b-406b-9ff5-1484f...	f6ce6ec0-4210-4738-a7b6-9f69...	15	participant	164980	164980	164980	0	0
039ef9eb-628b-406b-9ff5-1484f...	fca53f62-405e-4aca-a63b-e479b...	5	participant	630875	630875	630875	0	0
0cfeec71-a361-440a-823b-3c3c7c...	1c2d49aa-5171-453c-b551-0ff15d...	8	participant	758125	758125	758125	0	0
0cfeec71-a361-440a-823b-3c3c7c...	4a8678a3-e974-45fc-b245-ae0b5...	5	participant	632031.25	632031.25	632031.25	0	0
0cfeec71-a361-440a-823b-3c3c7c...	66ecbd77-506e-4b4f-8793-6195e...	2	participant	652781.25	652781.25	652781.25	0	0
0cfeec71-a361-440a-823b-3c3c7c...	68fb7715-1a66-4d3f-8cad-b97126...	7	participant	1018125	1018125	1018125	1	0
0cfeec71-a361-440a-823b-3c3c7c...	697905ff-e8af-408c-a2c0-3c67b...	13	associatedPartner	0	NULL	0	0	0
0cfeec71-a361-440a-823b-3c3c7c...	a025c96-dc79-4d19-b7c9-b1670...	11	participant	305625	305625	305625	0	0
0cfeec71-a361-440a-823b-3c3c7c...	a7603616-80cf-4724-8603-6ecb1...	1	coordinator	23463625	23463625	23463625	0	0
0cfeec71-a361-440a-823b-3c3c7c...	af7a2e0c-13be-4d98-b95f-64d54...	4	participant	500937.5	500937.5	500937.5	0	0
0cfeec71-a361-440a-823b-3c3c7c...	b18e08fa-0014-4199-9446-27966...	12	participant	433750	433750	433750	0	0
0cfeec71-a361-440a-823b-3c3c7c...	ca046d59-45ce-41ae-b238-f59a5...	9	participant	321218.75	321218.75	321218.75	0	0
0cfeec71-a361-440a-823b-3c3c7c...	d74873f4-c875-4ba5-8cd9-503bb...	10	participant	149500	149500	149500	0	0
0cfeec71-a361-440a-823b-3c3c7c...	db07d1af-4c3b-49c4-ea16-e5b66...	3	participant	904062.5	904062.5	904062.5	1	0
0cfeec71-a361-440a-823b-3c3c7c...	e5a58c33-7454-4ee9-8e0d-eac1e...	14	associatedPartner	0	NULL	0	1	0
0cfeec71-a361-440a-823b-3c3c7c...	fd131919-3992-45c5-87ce-84cbf3...	6	participant	469581.25	469581.25	469581.25	0	0

Figure 9. Supabase administration panel for low-level database management.

5. Prototype visualisation exploration

5.1 Introductory conceptual tips for visualisation

The Maximising Impact and Accessibility of European Climate Research (MAIA) project³, a Horizon Europe Coordination and Support Action, aims to amplify the impact of climate research and innovation projects funded under Horizon Europe and Horizon 2020. Through technological tools, research services, and outreach, MAIA facilitates knowledge sharing, collaboration, audience connection, and commercialisation of results. As a starting point for the visualisation approach, a critical evaluation of MAIA's outcomes was conducted, focusing on its Climate Action Community – a searchable visualisation of over 300 key European climate actors designed for easy exploration by sector, location, expertise, and knowledge clusters.

Despite its visual appeal, usability testing with diverse users revealed limitations: the introductory visualisation failed to deliver relevant insights or encourage deeper exploration of thematic areas or risks. Figure 10 shows this introductory map, where spheres representing entities are colour-coded by "kind of business" and clustered around associated countries. The Guide to Navigating the MAIA Climate Action Community Map details Kumu-based controls – zoom in/out, drag, node details, and focus on connections–, but users found it insufficiently intuitive for stakeholder landscape analysis, as it fails to display connections between entities

³ <https://maia-project.eu/>

sharing similar activities, projects, themes, or climate risks; moreover, the 12 "kind of business" archetypes do not align with entity attributes in CORDIS.

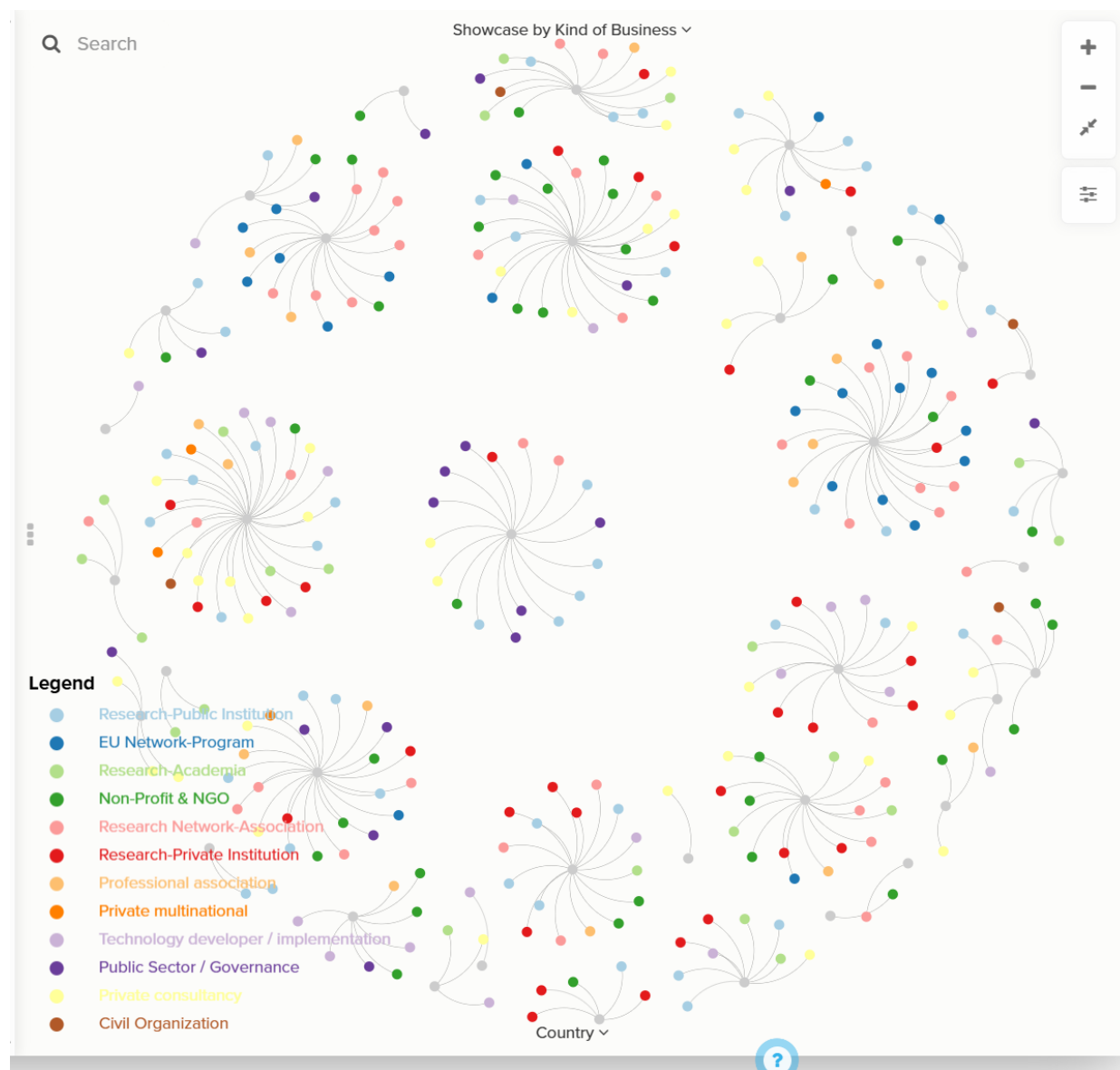


Figure 10. Introductory visualisation of the MAIA Climate Action Community. Available at <https://kumu.io/xezl/maia-climate-action-community>.

Network visualisations often prove visually compelling and encourage exploration, yet they can obscure actionable insights if poorly interpreted. Dashboards, though less aesthetically striking, excel in clearly presenting structured data when thoughtfully designed, while maps provide essential geographic context. For the Connected Action tool, CORDIS-derived entity data offers precise NUTS-3 level granularity -the most disaggregated European territorial diagnostic- enabling bioregional alignment with the Transformation Hub by spatially locating entities. This balanced approach prioritises clarity, spatial relevance, and usability over purely aesthetic network representations.

5.2 Early prototyping tests

5.2.1. Dashboard

The initial dashboard prototypes target desktop-sized screens, utilising a flexible three-column grid layout with 1x1 and 1x2 widget sizes to optimise space and readability. Elements feature drag-and-drop functionality, allowing users to rearrange components intuitively according to their analytical priorities, such as prioritising climate risk filters over entity lists or expanding temporal scale visualisations. Early tests validated this modular approach, confirming that resizable widgets enhance customisation while maintaining responsiveness across standard screen resolutions.

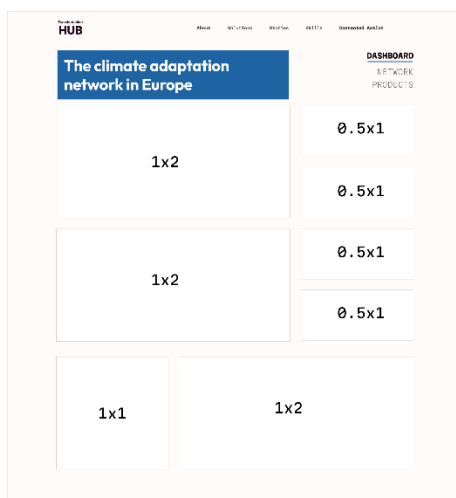


Figure 11. Sketch of initial dashboard prototypes.

5.2.2. Network of entities

The first network visualization prototypes for entities were designed as modular pieces that can be mixed and connected, conducting visualization tests with different focuses. In the visualizations, a visual mapping was employed: A database variable was connected to a visual feature (color, position, shape, etc.).

Figure 12 shows the initial prototypes, considering:

- Circle = Entity.
- Color = Type of entity.
- Size = Budget handled by summing its projects.
- Distance from center = Number of projects.

The left image shows no grouping criterion applied to the entities. The center image displays entities grouped by entity typology (according to the CORDIS classification). The right image shows entities grouped by countries.



Figure 12. Initial prototypes of network of entities visualisation.

Additionally, some visualization tests were conducted in which users can set **filters** or criteria to modify the mapping, with different **interface options** for information **search** or **data filtering**. Figure 13 shows an example of an interface, while Figure 14 displays the visual result of exploring information related to an entity (projects and budget), including connections with other entities (the relationship is established based on the projects in which they jointly participate).

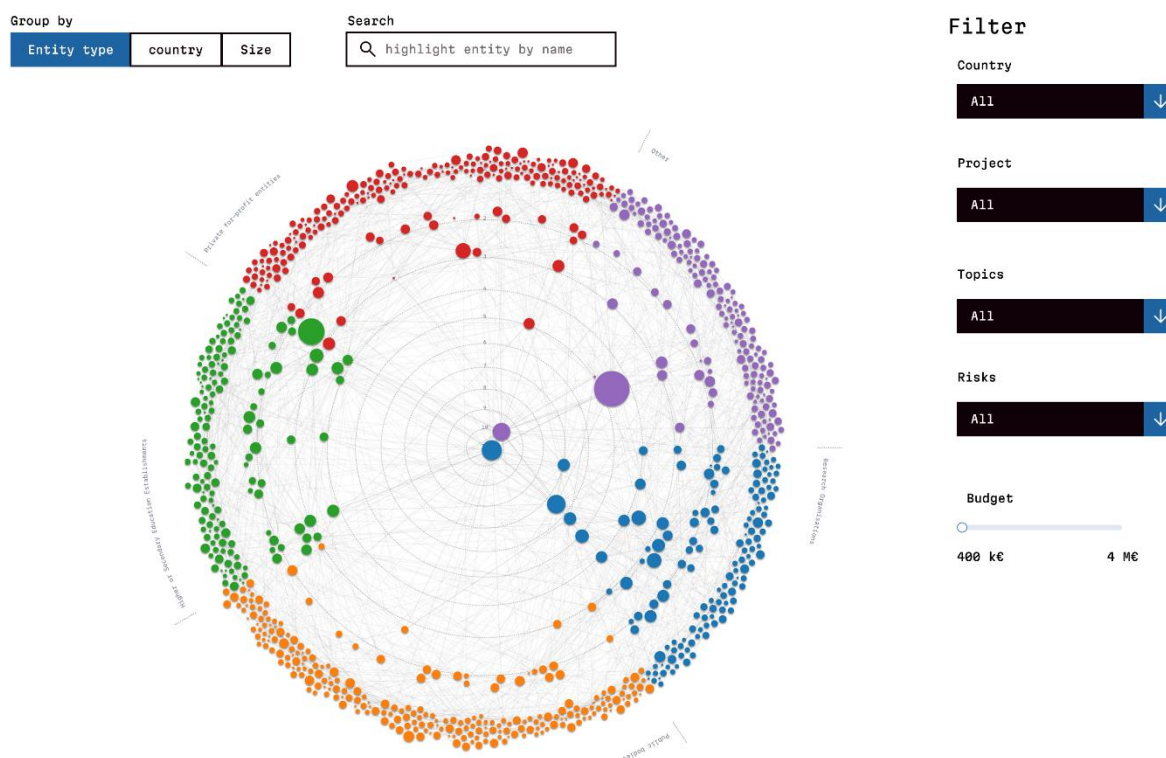


Figure 13. Prototype of interface for network of entities visualization.

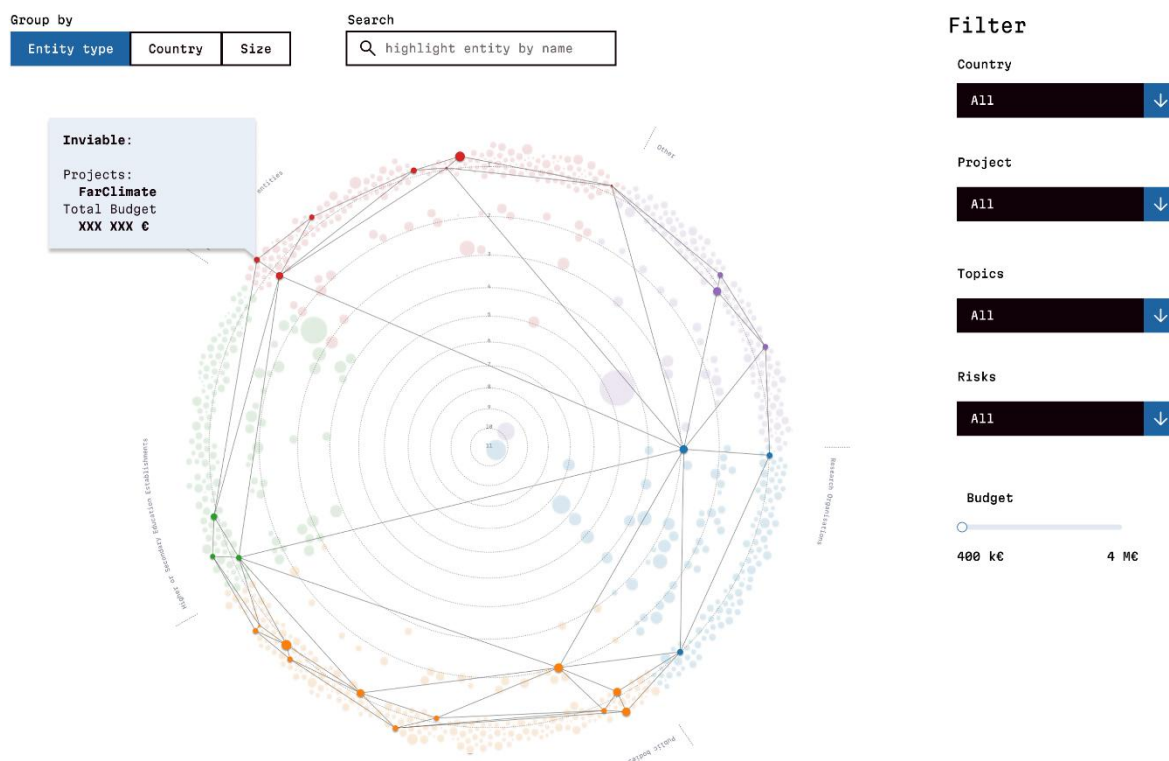


Figure 14. Example of visual result of exploring information related to an entity.

5.2.3. Projects

The first project visualisation tests focused on how projects can be grouped according to their "similarity" in themes and risks. Figure 15 shows the first prototype, in which:

- Circle = Project.
- Position: Using a dimensionality reduction algorithm, projects are grouped by similarity.
- Tower height: Project duration.
- Height of the white "cap" on the tower: Current year of the project (when the project is completed, the cap is at the very top).

In this visualisation, the focus is on how projects can be related. Figure 16 shows an example of a visualisation interface, in which the user can filter **similarity relationships**, selecting between **themes** or **risks** addressed by the different projects.

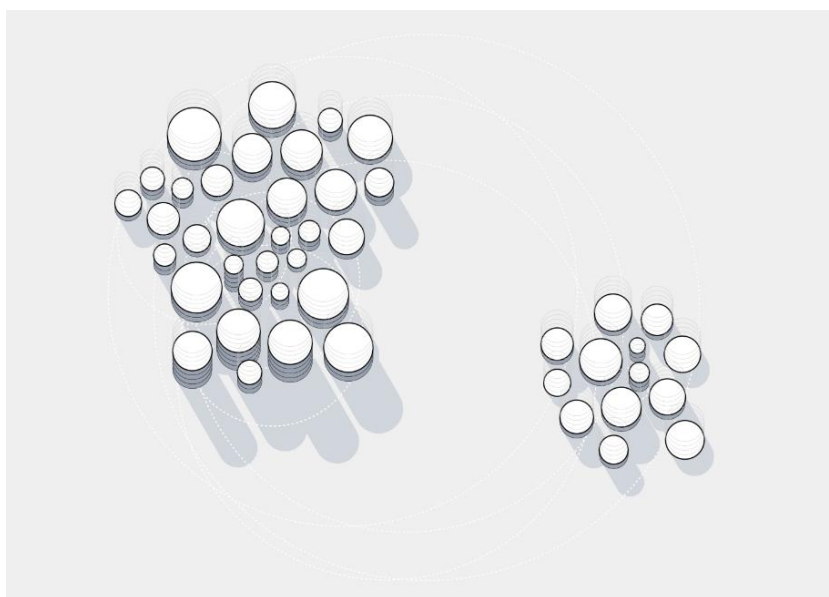


Figure 15. Initial prototypes of projects visualisation.

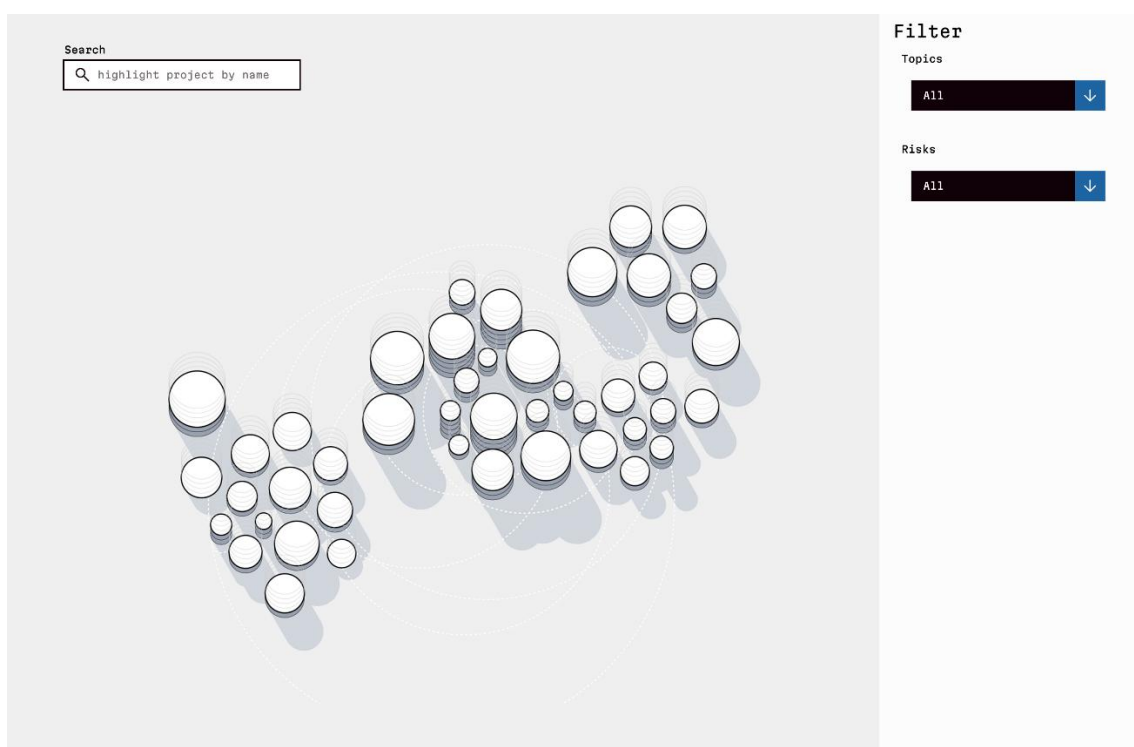


Figure 16. Prototype of interface for projects visualization.

Figure 17 shows a project visualisation incorporating the **temporal variable**, in which:

- Circle = Project.
- Bar length: project duration.
- Project year: position of the white circle relative to the length.

X-axis ordering of projects by year (could be ordered by budget or another sortable numerical magnitude).

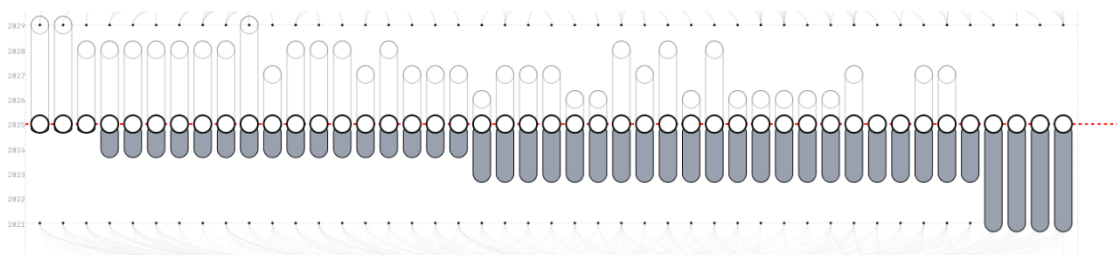


Figure 17. Example of project visualisation with temporal dimension.

5.2.4. Products

Figure 18 shows the first product visualisation tests, where:

- Circle = Product.
- X-axis position: launch year.
- Y-axis grouping: product type.
- Colour: product type.

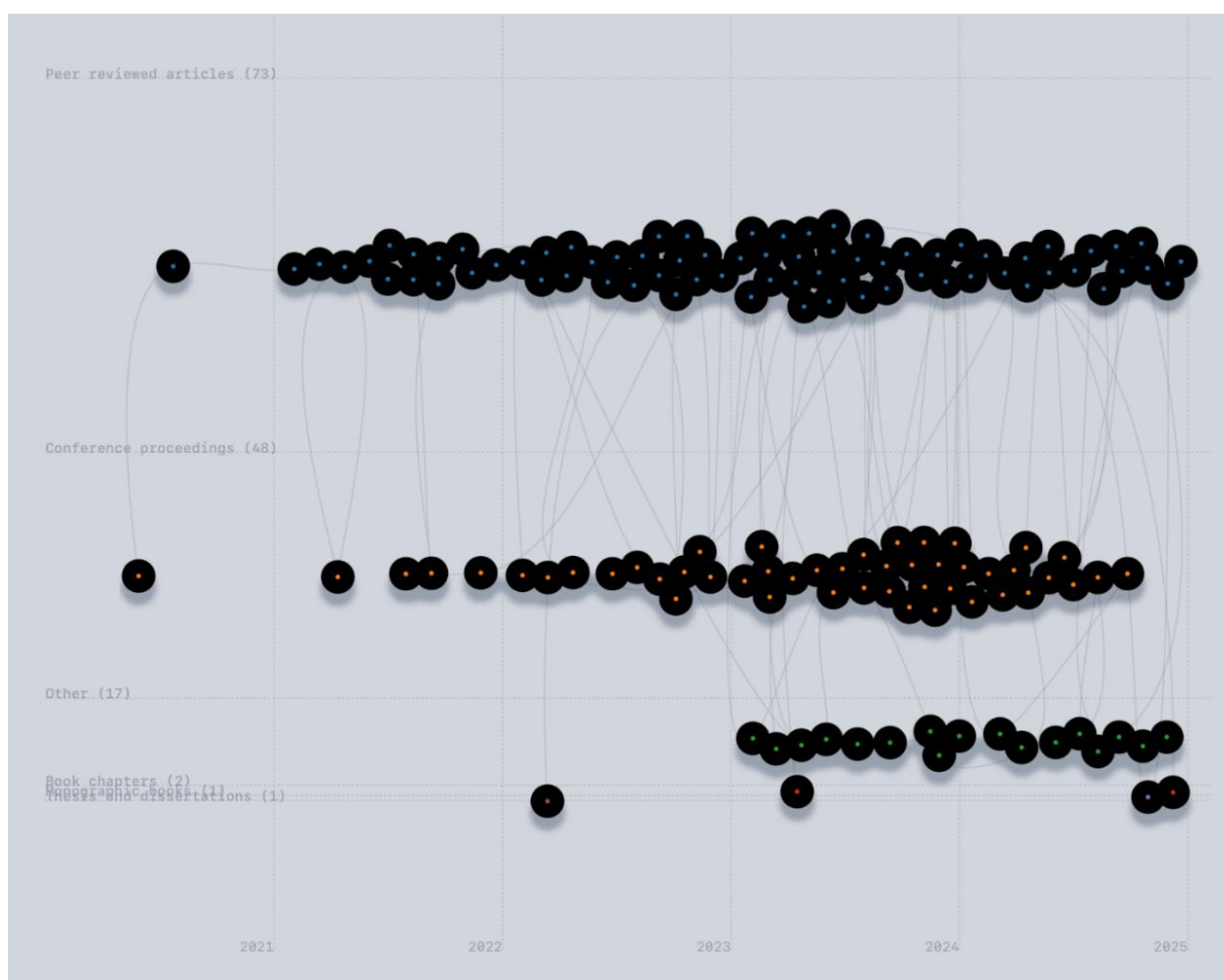


Figure 18. Initial prototype of products visualisation.

Figure 19 shows an example of the visual result from exploring connections, in this case, of products belonging to the same project.

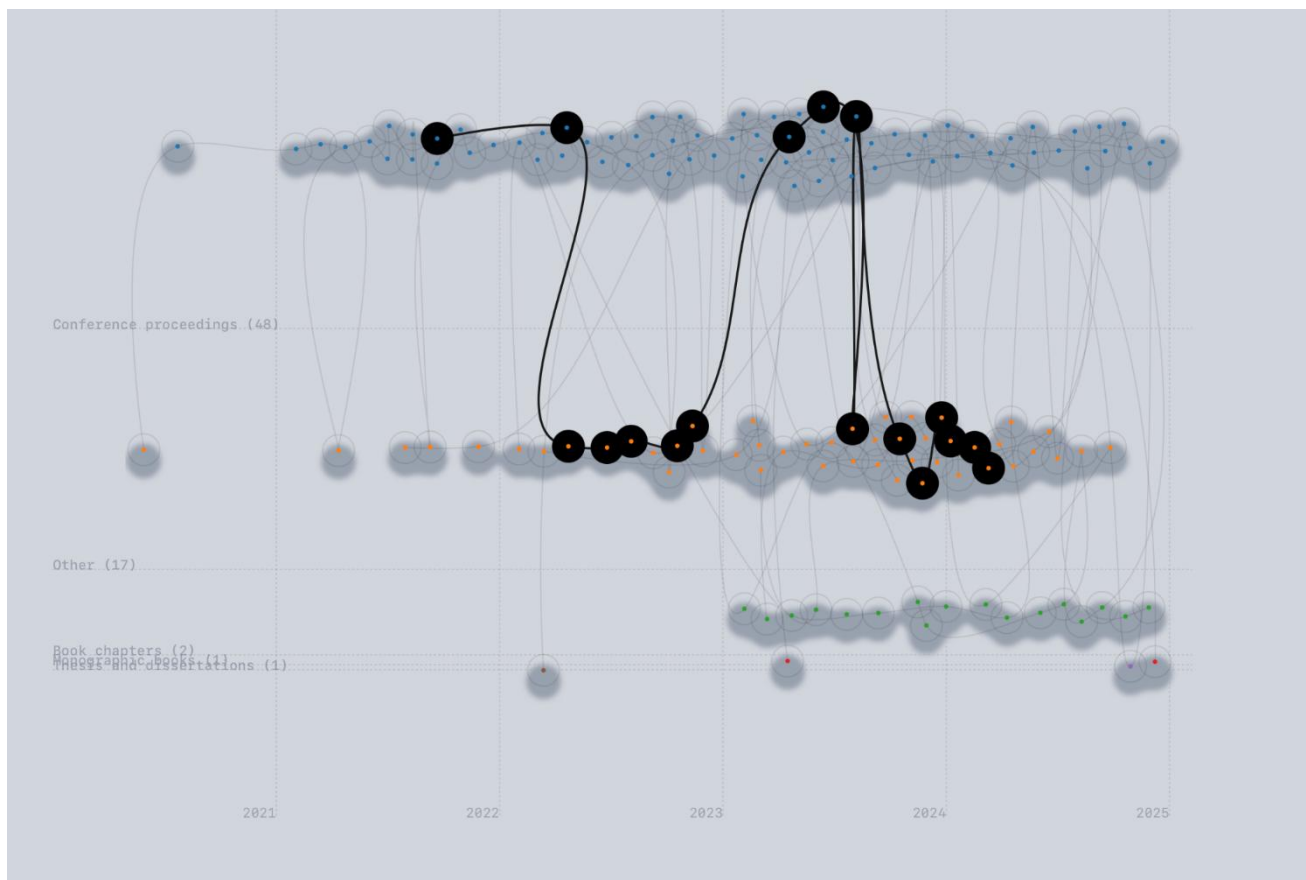


Figure 19. Example of visual result of exploring products belonging to the same project.

5.2.5. Projects, entities and products connected

Finally, prototypes were developed to complete the initial exploration by combining and displaying the relationships between projects, entities, and products.

Figure 20 shows an example of an interface for visualising projects, products, and entities together, in which the necessary filters, foci, and panels can be added for better understanding of the ecosystem. In this figure, **projects** are visualised according to the previously described criteria:

- Circle = Project.
- Bar length: project duration.
- Project year: position of the white circle relative to the length.
- X-axis ordering of projects by year (could be ordered by budget or another sortable numerical magnitude).

For **entities**:

- Circle = entity.
- Colour = type of entity.
- Size = budget managed.

- X-axis position = country.

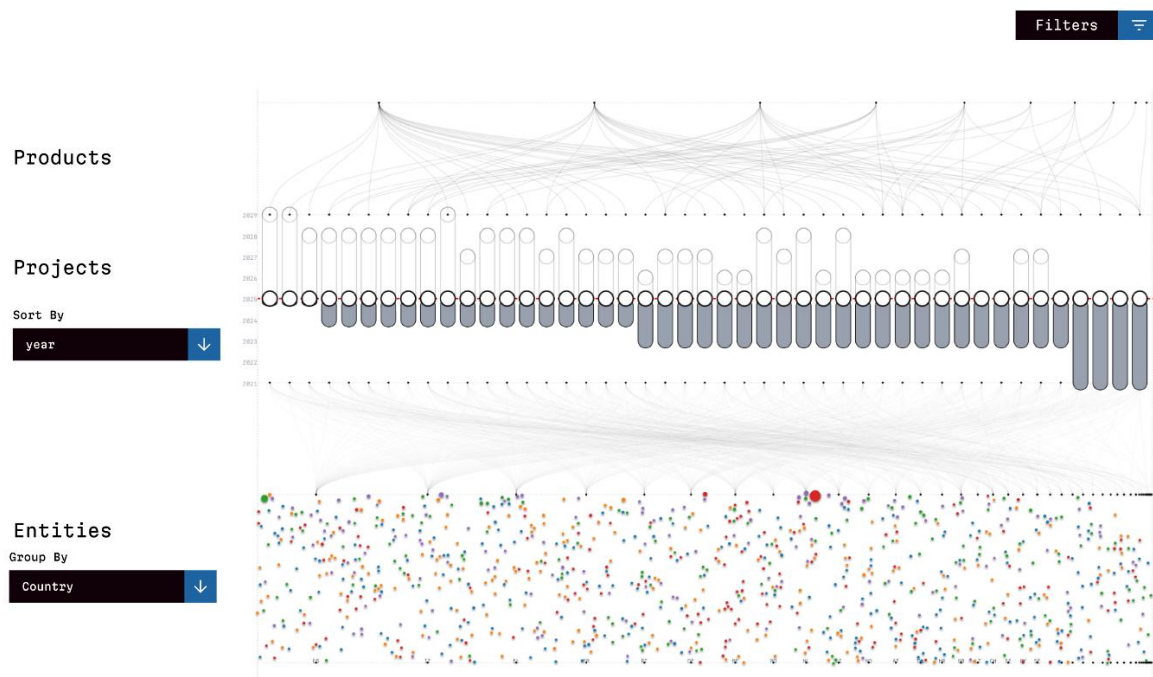


Figure 20. Initial prototype of relationships between projects, entities and products visualisation.

Figure 21 shows the visual result of exploring the **relationships of a specific project**, visualising related **entities** and **products**. Figure 22 shows an example of accessing **detailed project information** from this interface.

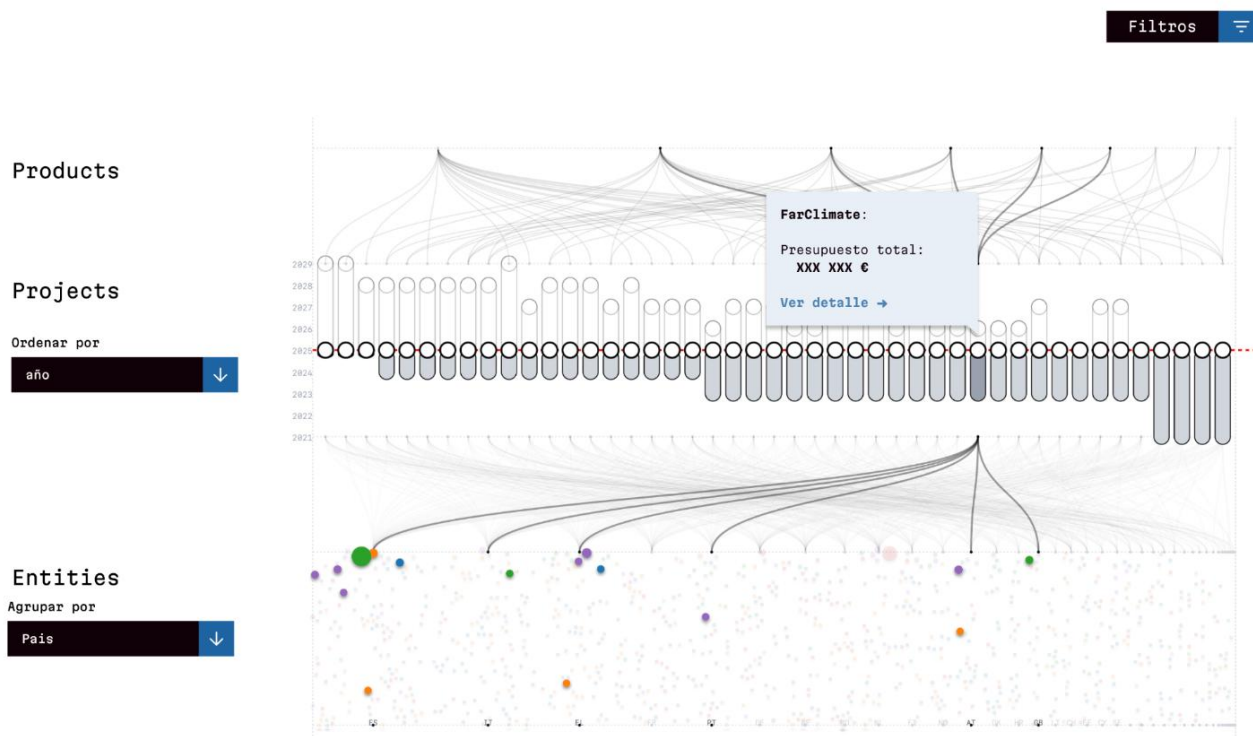


Figure 21. Example of visual result of exploring a project's relationships with entities and products.

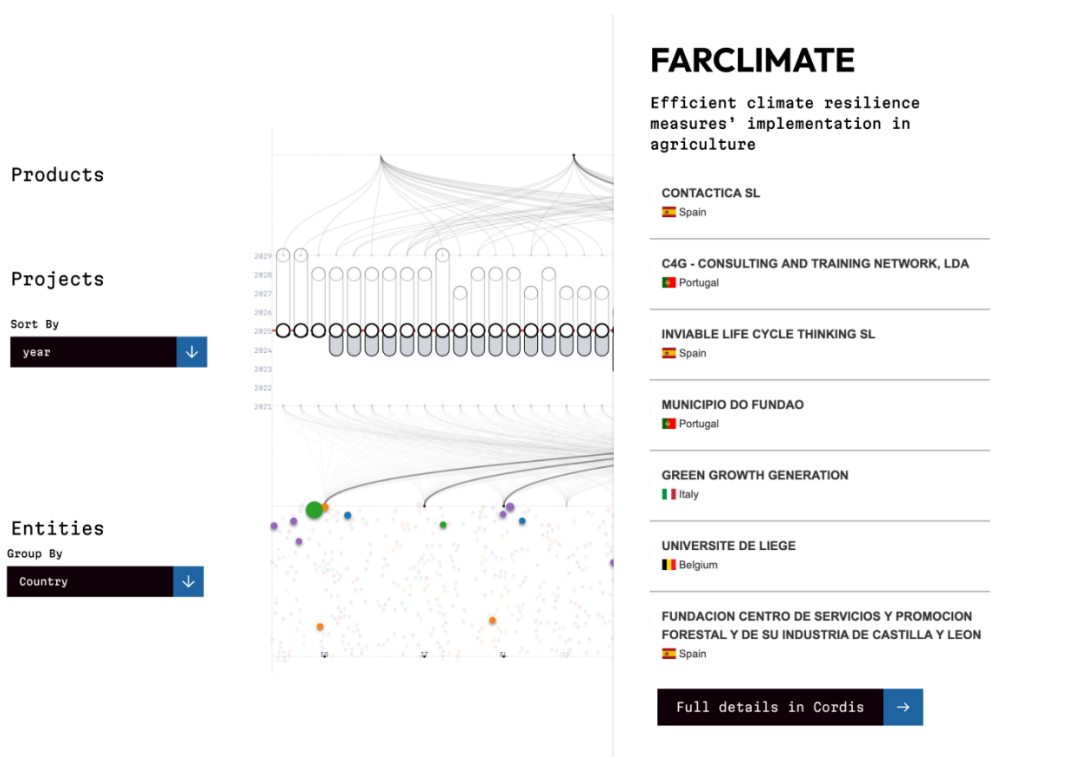


Figure 22. Example of accessing detailed project information from the interface.

Finally, Figure 23 shows a prototype combining **projects**, **risks**, and **themes**, completed with the global visualisation of **entities** integrated into the interface.

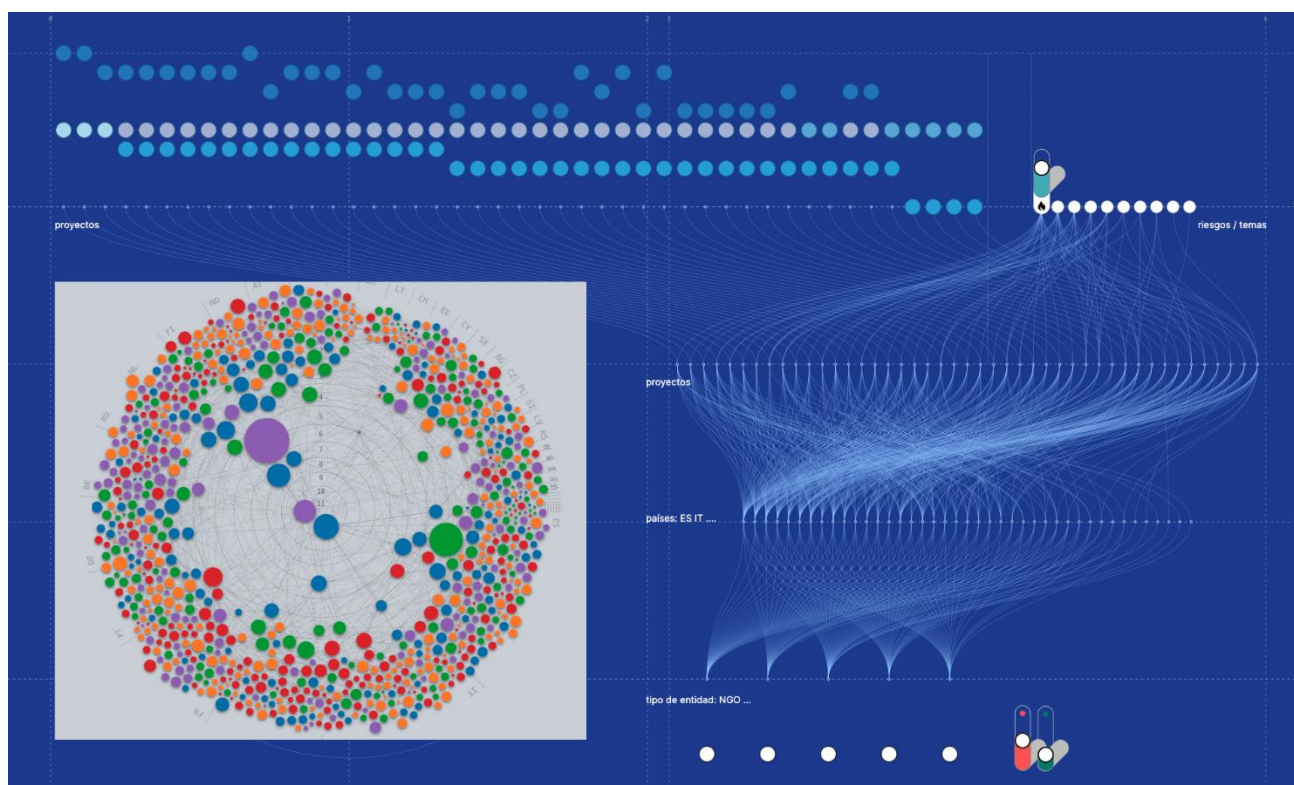


Figure 23. Prototype combining projects, risks, themes, and entities visualisation.

6. Conceptualisation and design of the interactive visualisation tool

Following the initial exploration prototypes, three team working sessions were held in November 2025 to analyse the early tests in depth. What is understood and what is not? What proves interesting and relevant? Should different paths be explored further, or should these prototypes be developed?

Fundamental principles for development were established, emphasising **data quality assurance**, process **traceability** description, and **manual review** of elements that **cannot be automated** -such as project climate risks and main themes identified in the catalogue (icons in PDF format) but not described in CORDIS. Following these discussions, the final proposal for the conceptualisation and design of the interactive visualisation tool was addressed, as described below.

6.1 Dashboard

As mentioned in the introductory conceptual tips for visualisation (section 5.2), **dashboards** may appear "boring," yet when well designed, they present **information clearly**, which is why a dashboard has been adopted as a component of Connected Action for EU Adaptation.

Building on the initial dashboard prototype -designed for desktop-sized screens with a three-column grid accommodating 1×1 and 1×2 widget sizes- various visualisation elements have been developed, as described below.

Dashboard visualisation elements description

Figure 24 represents the number of **institutions** grouped by **country** in two complementary formats: a scrollable ordered list for precise numerical comparison and a choropleth map for immediate geographic pattern recognition.

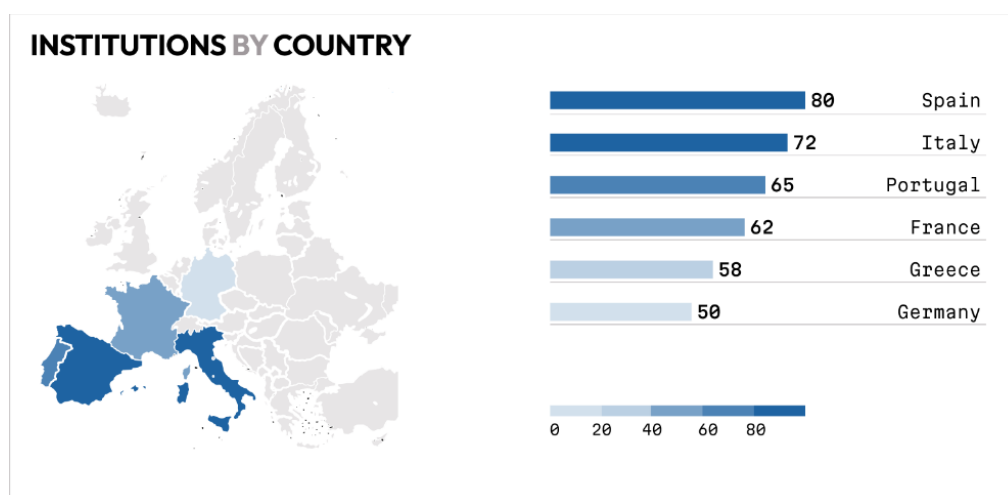


Figure 24. Institutions by country: list and choropleth map.

Figure 25 shows **bar charts** for different project groupings: by **risks** or by **topics**.

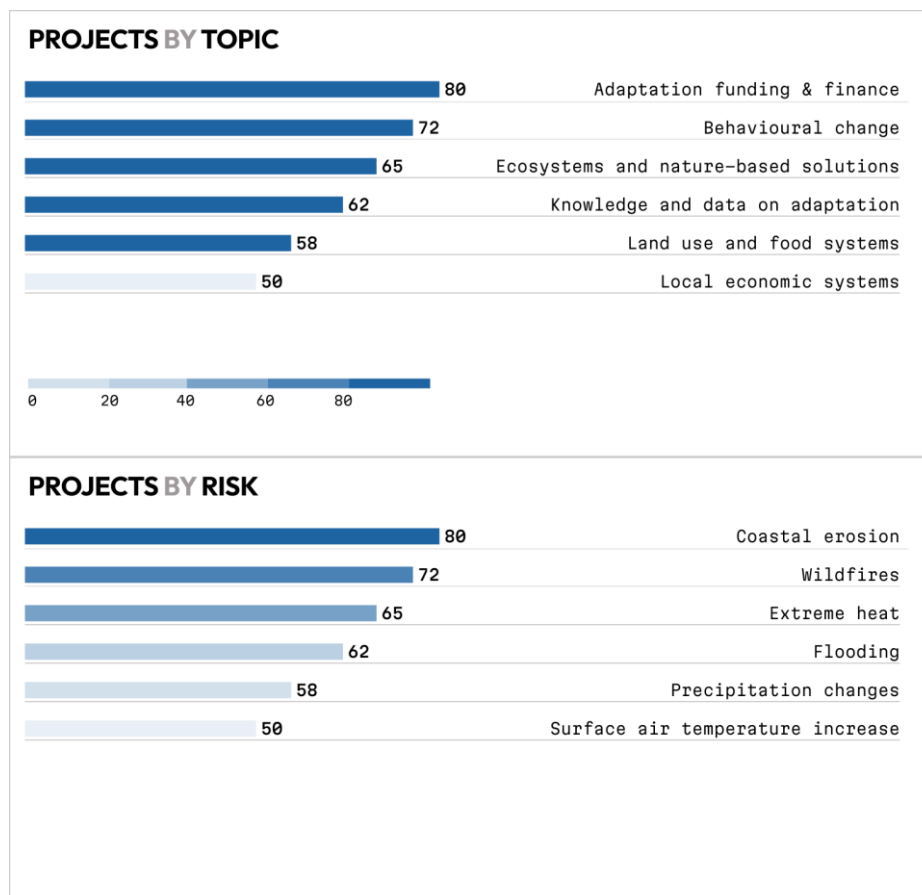


Figure 25. Project groupings by risks or topics.

Figure 26 shows the temporal evolution of the climate adaptation ecosystem using two types of charts to display how different metrics evolve over time. This holds some relevance currently but will become increasingly important as the ecosystem grows, with more projects and entities added over time.

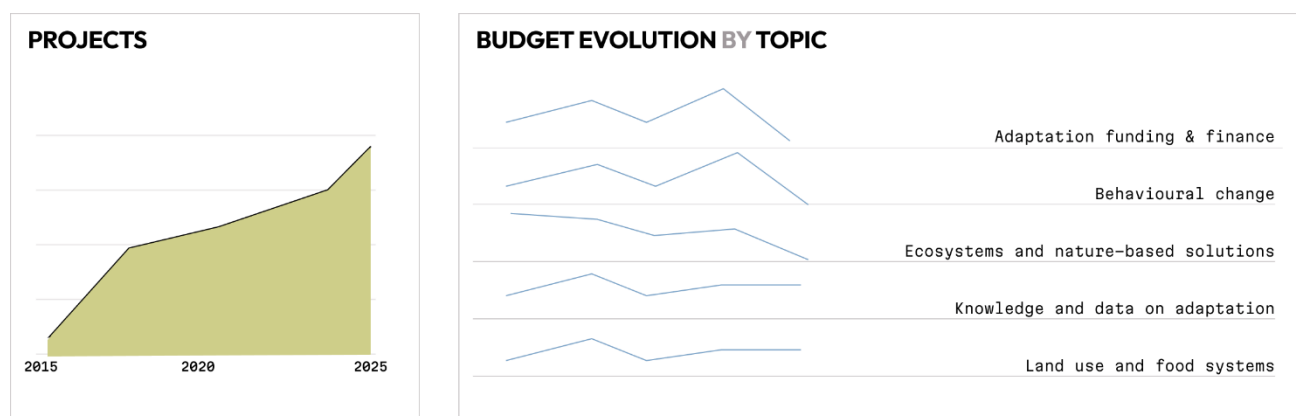


Figure 26. Temporal evolution of climate adaptation ecosystem.

Figure 27 shows a **sketch** of the **dashboard** implemented in the Hub. Clicking on any variable such as country, topic, or risk builds an input **filter** using that variable. Most **visualisation widgets update** according to the selected filters -for instance, selecting a theme reveals how many institutions relate to that theme in each country.

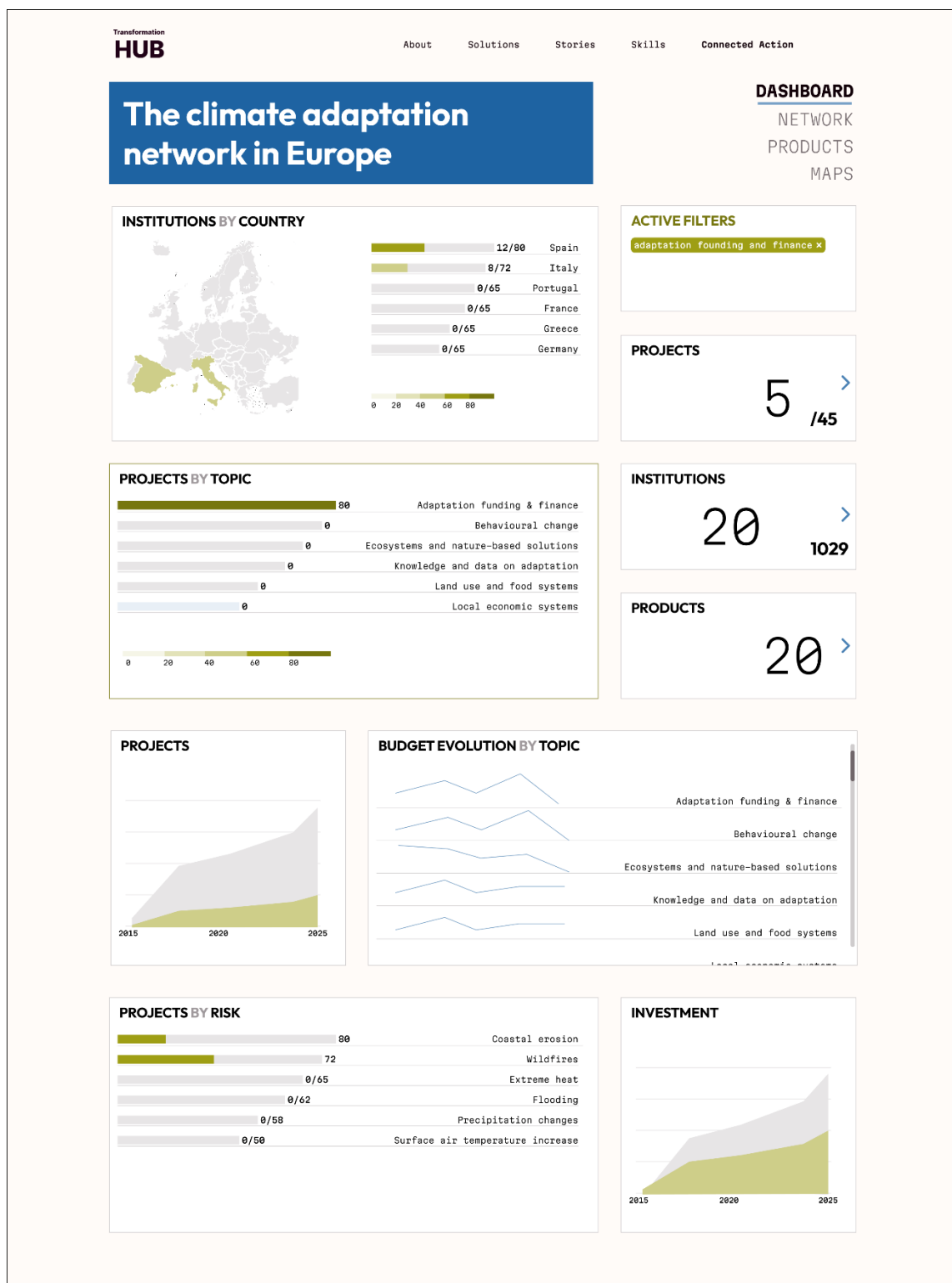


Figure 27. Dashboard sketch with interactive filtering.

Figure 28 shows the **dashboard sidebar**. Clicking on an entity such as projects or institutions displays the list of **available projects** according to the applied **filters**. For a particular project, the description, organisations, and a simple treemap visualisation showing budget distribution among project partners are shown, with a link to CORDIS also available for more information.



Figure 28. Dashboard sidebar with project details.

6.2 Spatial data: choropleths and cartograms

From the analysis of the initial entity visualisation prototypes, a key conclusion is that one of the most interesting descriptive data points—which aligns with the Hub's bioregional approach—is the specific geographic scope, processed in the database at the most

disaggregated level of European territorial diagnostics (NUTS 3). Figure 29 shows a **choropleth map** of NUTS sections with colour intensity mapped to **budget** or **number of entities**.

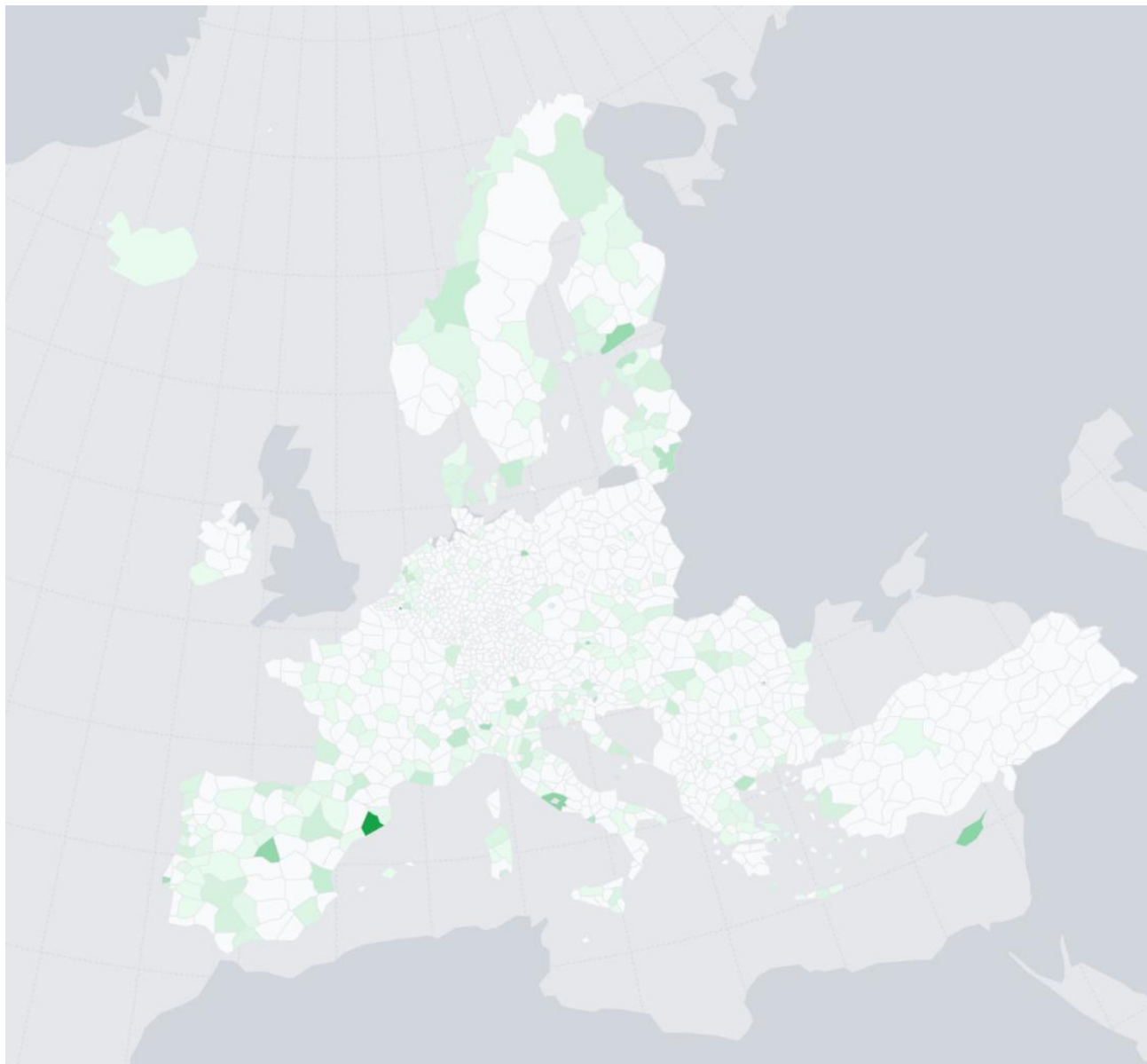


Figure 29. NUTS choropleth map by budget or number of entities.

Figure 30 shows a **cartogram** in which each point on the map represents an **entity** in the database. **Size** is assigned according to **budget**; position is approximated, with circles distributed around their real coordinates without overlapping. The interface enables **exploration** of entities by filtering by **risks**, **main themes**, and **projects** in which they participate.

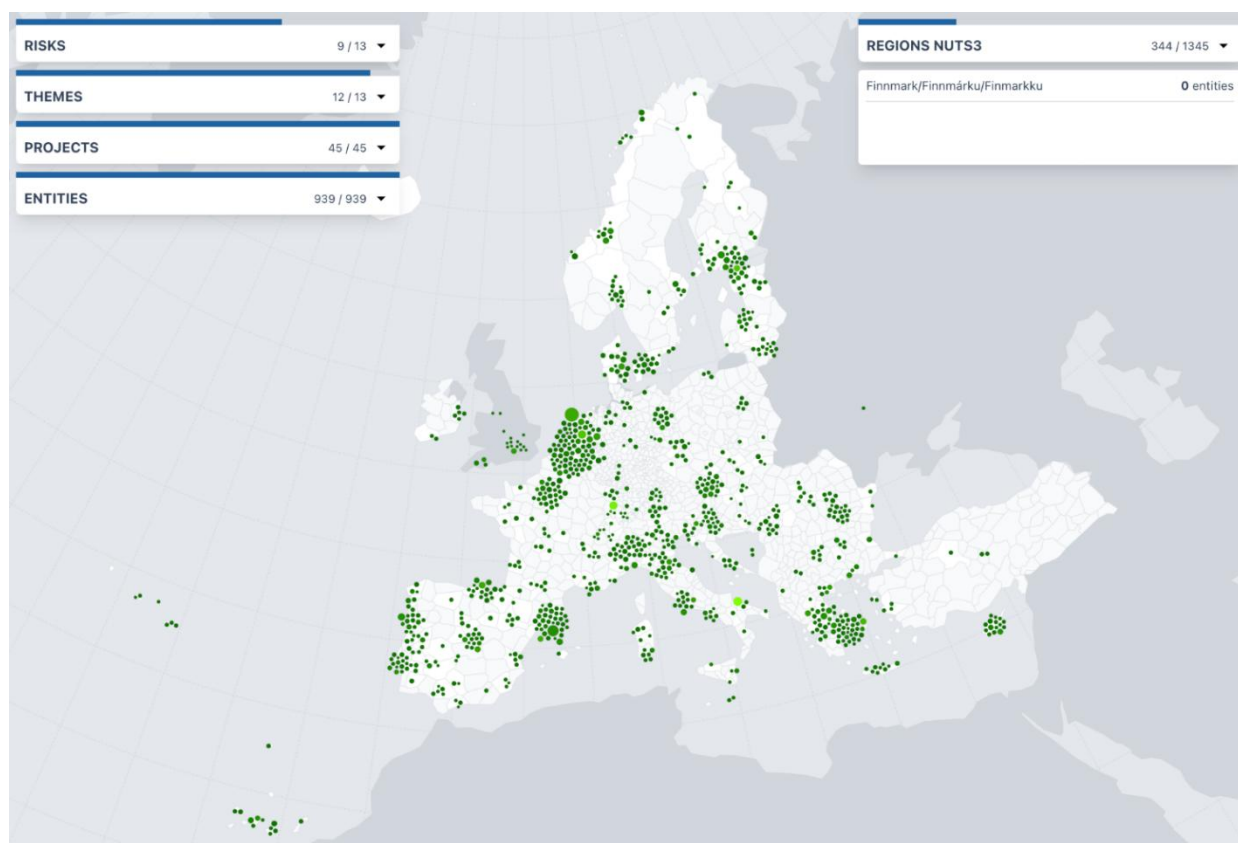


Figure 30. Interface of entity cartogram.

Figure 31 shows the interactivity of the cartogram, where it is possible to select a NUTS region and retrieve the list of entities from that region.

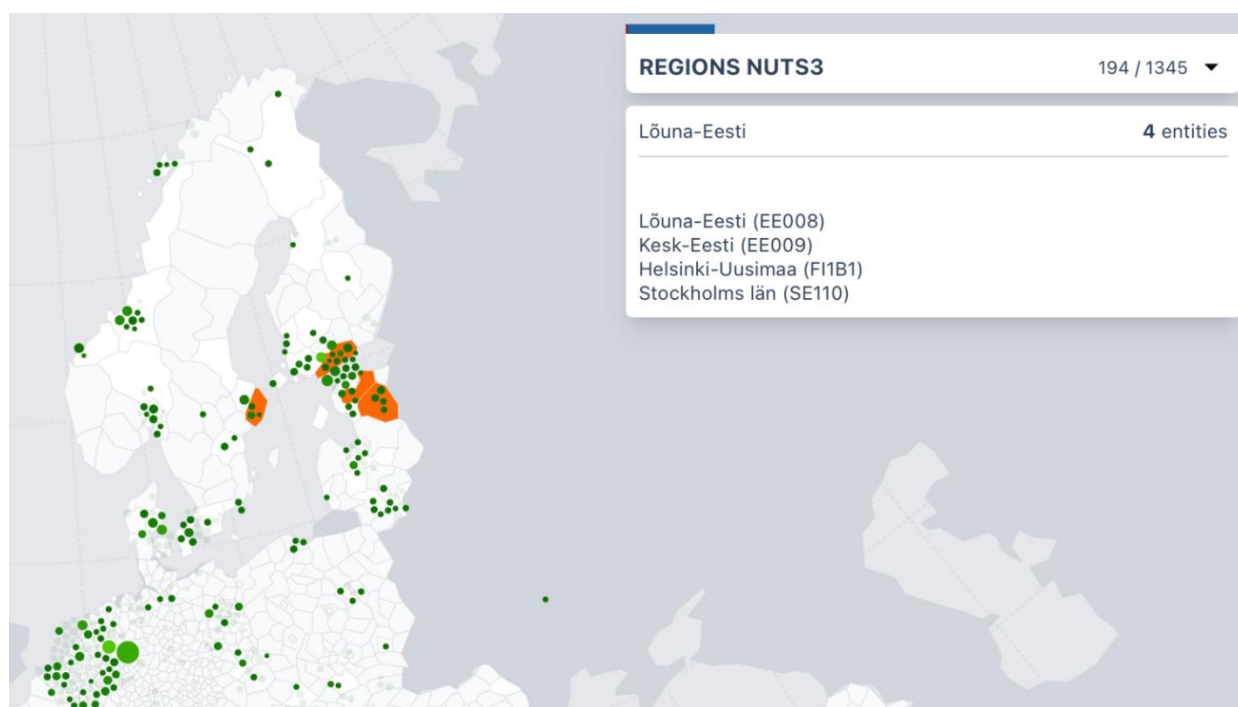


Figure 31. NUTS region entity selection.

Figure 32 shows the cartogram interface with filtering enabled on the left panel. Filtering highlights and fades map elements –for instance, filtering by a project reveals all institutions participating in that project.

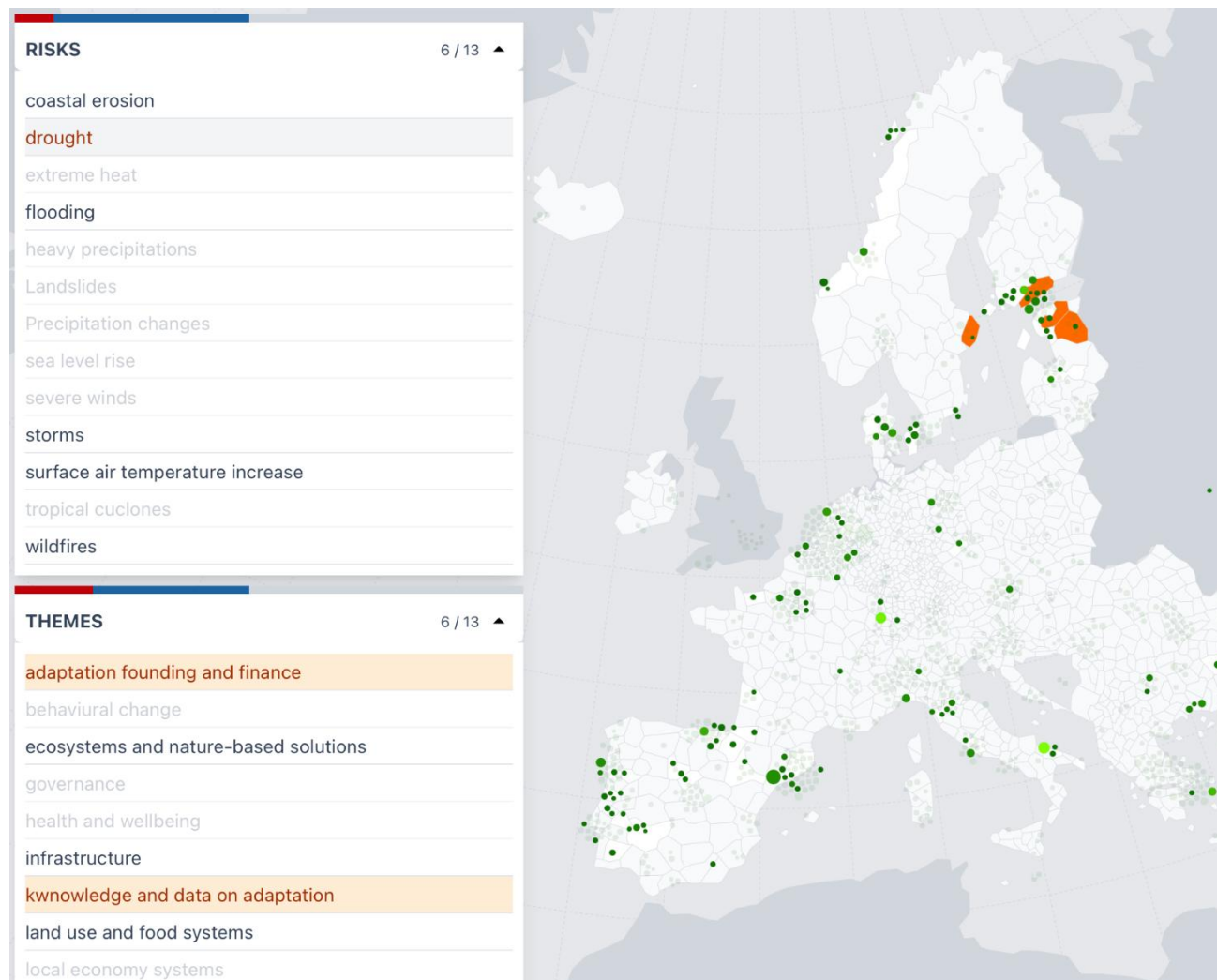


Figure 32. Cartogram filtering interface.

Figure 33 shows how the **choropleth** and **cartogram**-like visualisations –representing the same information in different ways– can be treated as distinct map "layers," with a **switch widget** used to toggle between them.

In summary, the visualisation proposal includes various user **filtering options** to explore the entities forming the European climate adaptation ecosystem –here focused on the scope of projects listed in the EU Mission catalogue– enabling initial **geographic overview** and **deeper information exploration**.

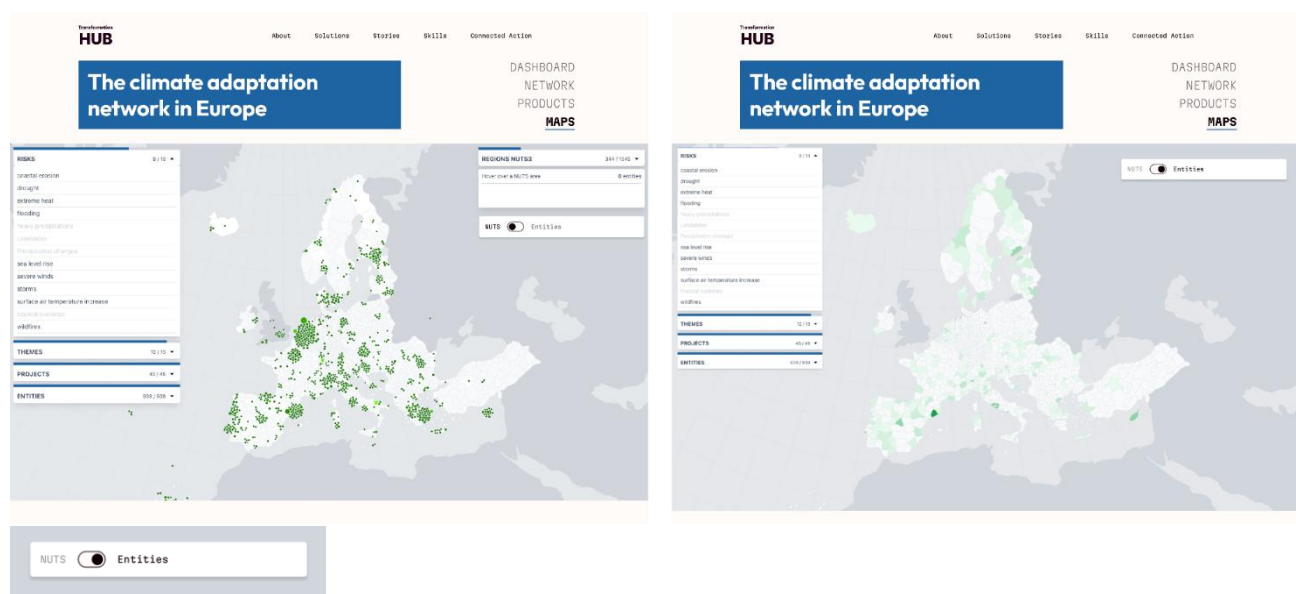


Figure 33. Map layers switch: choropleth and cartogram.

6.3 Projects and entities connected

In the review of the initial project visualisation prototype, agreement was reached to use the dimensionality reduction algorithm (risks and themes variables) to express project relationships. **UMAP**, which stands for Uniform Manifold Approximation and Projection, reduces high-dimensional data into lower dimensions (often 2D or 3D) for visualization while preserving local and global data structure. In the project visualization context, UMAP processes variables like **risks** and **themes** to **map relationships** between climate adaptation projects.

The **temporal variable** was not discarded entirely but **simplified** to a "fixed snapshot" of past and ongoing projects up to May 2026, without real-time maintenance. Visualising real-time progress of projects active at that date lacks meaning, as the consultation moment's situation will not be reflected (new projects will emerge that do not appear, etc.), and the added complexity appears visually confusing. Instead of using project duration or year for **element height**, it was replaced by the **number of entities** participating in each project.

Figure 34 shows the proposed visualisation of relationships between projects and entities. The network features two screens -one focused on **projects** and the other on **connections**- with smooth transitions between them since projects appear in both.

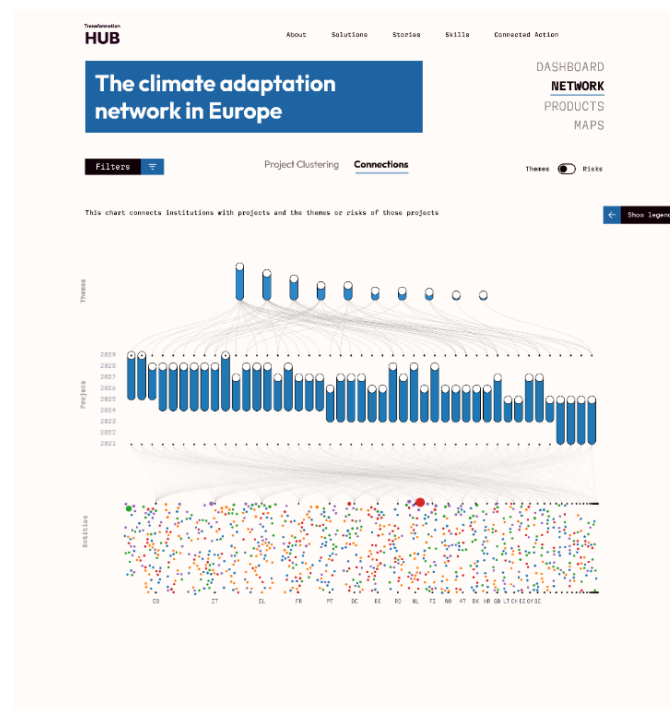
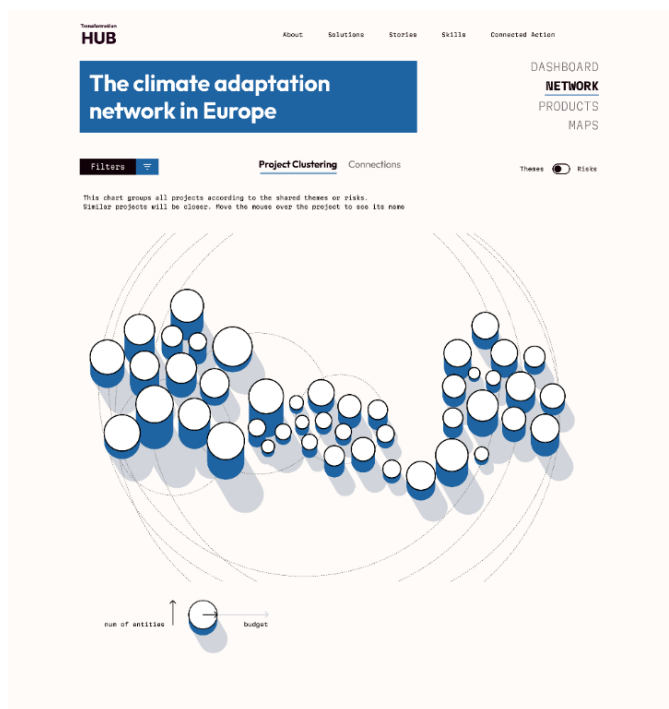


Figure 34. Prototype combining projects, risks, themes, and entities visualisation.

Figure 35 shows a sketch of the project visualization implementation in the Transformation Hub using UMAP. The focus is to group projects according to similar risks or topics, in which:

- Each **circle** represents a **project**.
- **Position:** projects are arranged using a dimensionality reduction algorithm to cluster them according to similarity.
- **Tower height** represents the number of entities per project.
- **Filtering** allows selecting a subset of themes.

Clicking on a project causes a modal window (already used in the dashboard) to slide in, displaying the project description (see Figure 28). This provides a smooth interaction for detailed project information without leaving the visualization.

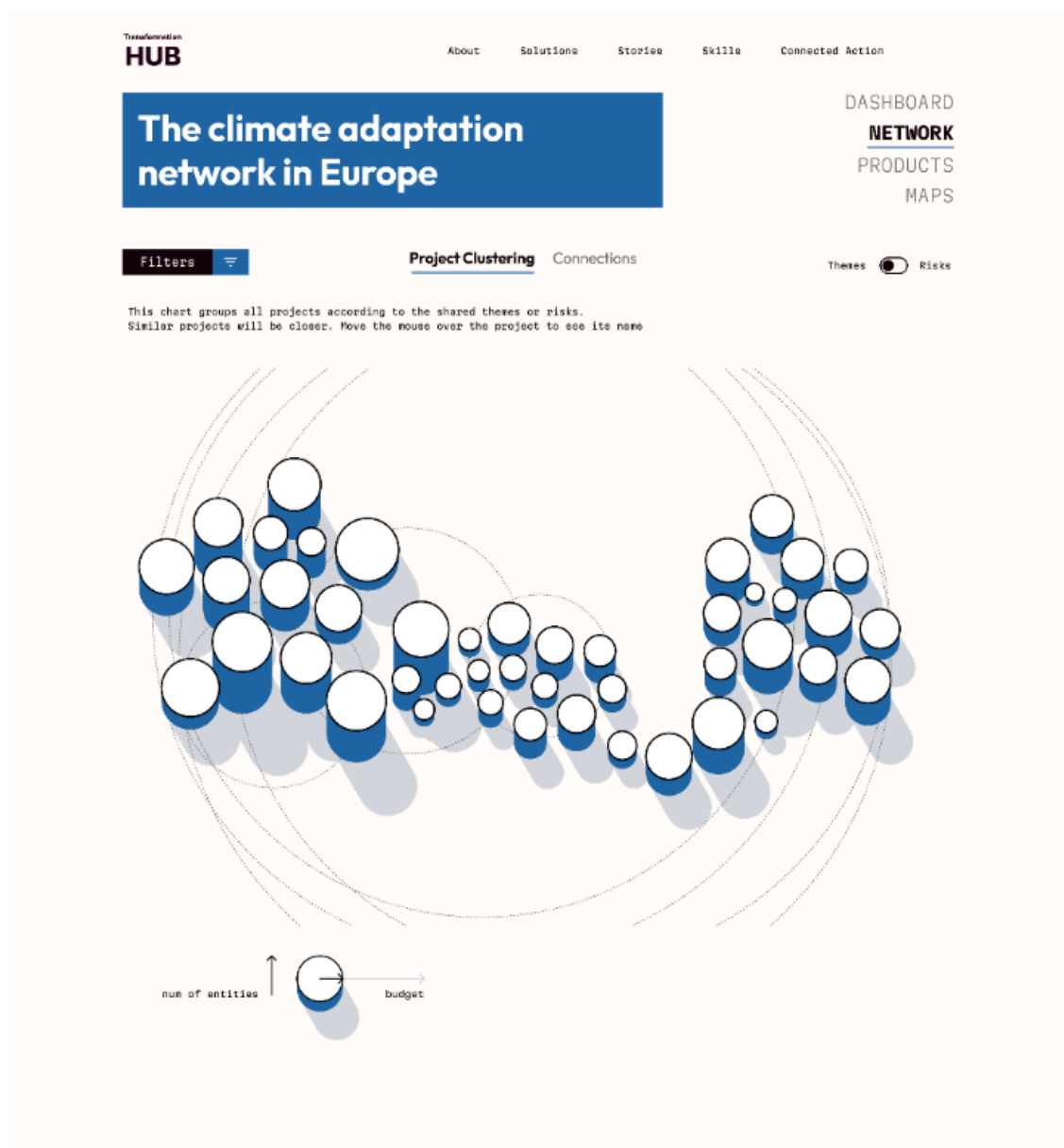


Figure 35. UMAP visualization sketch for climate adaptation projects in Transformation Hub.

Additionally, Figure 36 shows the visual representation of the connections. Given the numerous parameters involved, users may require detailed explanations of each section to understand the visual mapping. For this reason, a large collapsible legend has been included. In this figure, the following encoding is used:

Entities

- Circle = Entity.
- Colour: Entity type.
- Size: Managed budget.
- X-axis position: Country.

Projects

- Circle = Project.
- Bar length: Project duration.
- Project year: Position of the white circle along the bar length.
- X-axis order: Projects ordered by year (alternatively by budget or another sortable numerical variable).

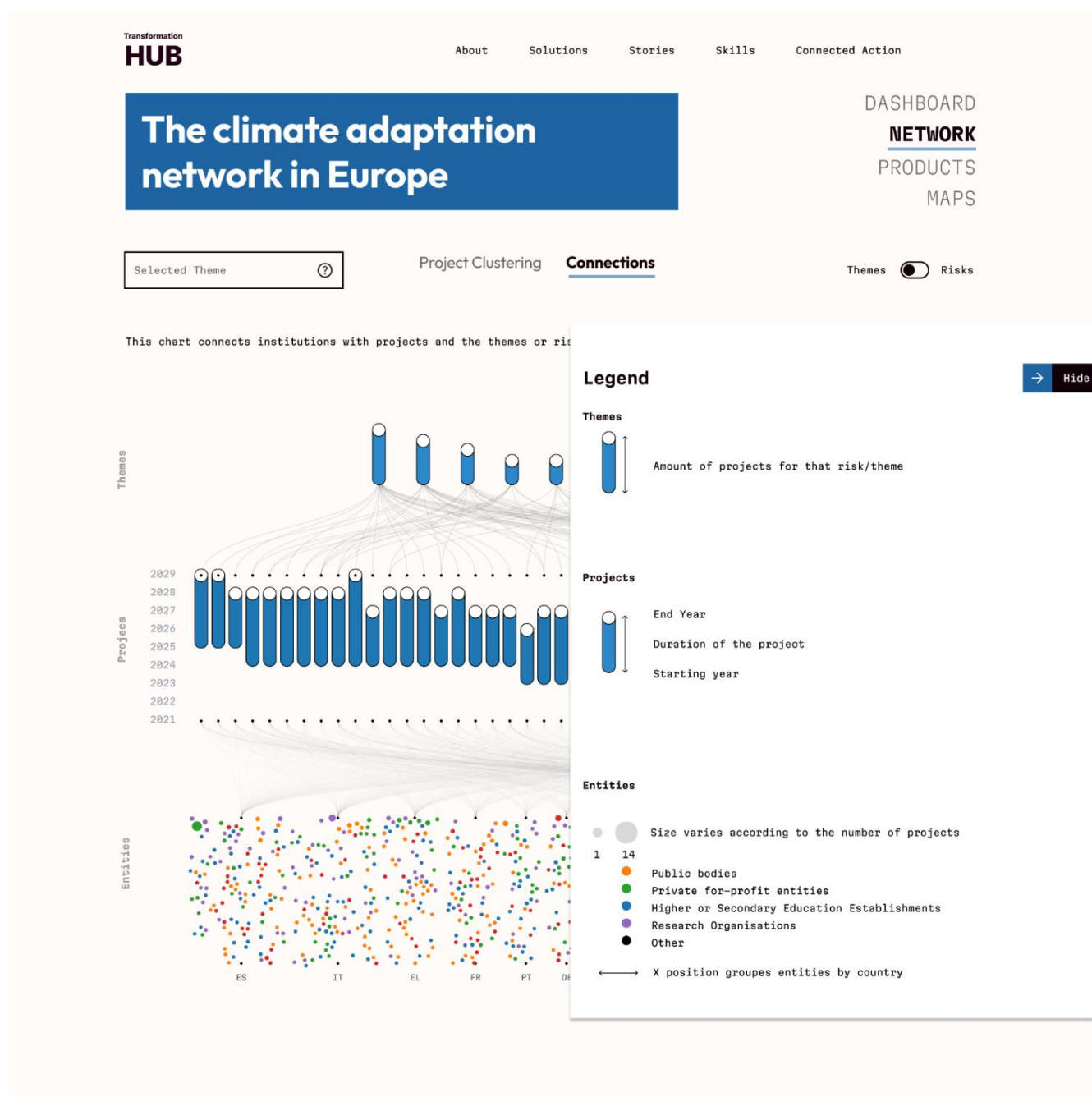


Figure 36. Visual representation sketch of project connections with collapsible legend.

6.4 Other relevant contents

Following the analysis of products listed in CORDIS, elements were deemed unrepresentative of project results' relevance. Many projects lack listed products, and available ones mainly consist of conference proceedings, posters, and articles –excluding key platforms, datasets, or databases generated by these 65 projects. Since scientific products remain incomplete and can be explored via dedicated tools, automated visualization of this database component was discarded. Instead, a manual compilation of relevant products (some not project-generated) was assembled for Connected Action for EU Adaptation users. Figure 36 shows a sketch of the proposed visualization for these products.



Figure 37. Sketch of relevant products visualization proposal.

7. Conclusions and next steps

The present document reflects a significant milestone in the FARCLIMATE project by translating knowledge management needs for the EU Climate Adaptation Mission into a detailed, actionable conceptualisation for the Connected Action interactive visualisation tool. The tool's design prioritizes stakeholder usability, ensuring clarity, interactivity, and relevance through modular dashboards, NUTS-3 spatial mappings, and network graphs of projects, entities, and products.

The structured data model, encompassing processes, entities (1,196 identified), and products across the 65 projects of the current EU Mission Projects Catalogue (CINEA & Sidhu, 2026), facilitates robust categorisation by spatial/temporal scales, sectors, themes, and risks, while enabling narratives on network growth and synergies. Prototype explorations and internal design sessions confirmed the balance between visual appeal and actionable insights, addressing gaps in existing platforms like limited territorial detail and sector coverage.

Data processing from CORDIS XML to PostgreSQL, combined with manual validation of catalogue-specific attributes, establishes a scalable backend ready for dynamic updates as the adaptation ecosystem evolves. A periodic data-refresh procedure will be established to keep the underlying project and entity records aligned with future updates to the EU Mission Projects Catalogue, complementing the manual cross-checking process described in Section 4.1.2 and minimising the need for full manual reprocessing

The Connected Action tool has since been implemented under Task T7.3 as a core component of the FARCLIMATE Transformation Hub, with beta release and ongoing living lab testing, as reported in D7.3 Platform in Production and Source Code. Validation with the EU Mission ecosystem and the RESIST project coordinator, scheduled for October 2026, together with the tool's presentation at the Fifth Forum for the EU Mission on Adaptation to Climate Change (23-24 November 2026, Dublin), will inform further refinements as part of the Hub's ongoing development (see Section 2.3). Overall, the Connected Action tool advances FARCLIMATE's WP6 objectives by empowering stakeholders to map, analyse, and connect adaptation initiatives effectively. The foundational work documented herein sets a robust trajectory for deployment, scaling, and sustained impact within the broader Mission on Adaptation to Climate Change.

References

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Annex 1. Catalogue of main European and global climate adaptation platforms

Main global and European climate adaptation platforms

Climate-ADAPT

<https://climate-adapt.eea.europa.eu/en>

Launched in 2012 as a partnership between the European Commission and the European Environment Agency (EEA). It is the main European platform providing data, information, tools, and case studies to support climate change adaptation across Europe. It helps users access and share data on climate impacts, vulnerabilities, adaptation strategies, and good practices.

MIP4Adapt

<https://climate-adapt.eea.europa.eu/en/mission/the-mission/about-mip4adapt>

Part of the Climate-ADAPT platform, developed under a contract that began in 2023. It incorporates Case Studies and adds Adaptation Stories (concise and accessible) and Success Stories (available as PDFs for some countries). It supports the EU Mission on Adaptation.

Climate Innovation Window (CIW)

<https://climateinnovationwindow.eu/>

A platform dedicated to innovations addressing climate change challenges. It connects climate adaptation innovators, end-users, and investors to facilitate the development and adoption of innovative solutions.

weADAPT

<https://weadapt.org/>

A collaborative platform focused on climate change adaptation issues. Designed for practitioners, researchers, and policymakers to access credible, high-quality information and to network and share experiences related to adaptation.

National-level climate adaptation case studies across Europe

The catalogue of national climate adaptation case studies available in Europe is presented in table 1:

Table 1. Country-wise catalogue of climate adaptation case studies websites.

Country	Case study catalogue website
Austria	https://www.klimawandelanpassung.at/praxis/kwa-anpassungsnetzwerk/good-practice-beispiele
Belgium	https://www.adapt2climate.be/case-studies/?lang=en
Croatia	https://prilagodba-klimi.hr/primjeri-dobre-prakse/
Czechia	https://www.adaptterraawards.cz/en/Databaze
Denmark	https://klimatilpasning.dk/kommuner-og-forsyning/loesninger

Country	Case study catalogue website
Finland	https://www.climateguide.fi/adaptation-measures-in-finland
France	https://www.adaptation-changement-climatique.gouv.fr/dossiers-thematiques
Germany	https://www.klivoportal.de/SiteGlobals/Forms/Suche/EN/Steckbriefsuche_Formular.html?nn=1980018 https://zentrum-klimaanpassung.de/wissen-klimaanpassung/praxisbeispiele https://www.umweltbundesamt.de/themen/klima-energie/klimafolgen-anpassung/werkzeuge-der-anpassung/tatenbank
Greece	https://adaptivegreecehub.gr/kales-praktikes/
Ireland	https://www.epa.ie/our-services/research/epa-funded-research/epa-funded-projects/research-climate-data-table-dev/
Italy	https://climadat.isprambiente.it/buone-pratiche/
Netherlands	https://klimaatadaptatienederland.nl/en/examples/
Norway	https://www.miljodirektoratet.no/ansvarsomrader/klima/for-myndigheter/klimatilpasning/prosjektarkiv/
Poland	https://klimada2.ios.gov.pl/pokaz-dobre-praktyki/
Slovakia	https://www.klima-adapt.sk/priklady-z-praxe https://www.sazp.sk/zivotne-prostredie/starostlivost-o-krajinu/zelena-infrastruktura/adaptacne-a-mitigacne-opatrenia https://www.sazp.sk/zivotne-prostredie/starostlivost-o-krajinu/zelena-infrastruktura/adaptacne-strategie-a-akcne-plany-na-zmenu-klimy https://odolnesidliska.sk/wp-content/uploads/2021/03/Katalog-AM-opatreni.indd-slabe-rozlisenie_FINAL_FINAL.pdf
Spain	https://adaptecca.es/en/casos-practicos
Sweden	https://www.klimatanpassning.se/exempel

Other major global platforms of interest in climate adaptation

Climate Change Adaptation Information Platform (A-PLAT)

<https://adaptation-platform.nies.go.jp/en/index.html>

Launched in 2016 by the Japanese government, A-PLAT uses an "easy-to-understand" approach, covering basic concepts and showcasing national, local, private sector, and citizen adaptation. Private sector case studies are categorized as "Climate Risk Management," "Adaptation Business," and "TCFD Initiatives." The platform offers an Adaptation database equivalent to case studies, searchable by region and sector.

Climate Adaptation Platform (CAP)

<https://climateadaptationplatform.com/>

Developed in New Zealand, CAP offers a case studies section with some post-format publications in three categories: sea level rise impact, funding, and management. The site appears not to be regularly updated.

Climate Adaptation Knowledge Exchange (CAKE)

<https://www.cakex.org/>

Launched in July 2010 and managed by EcoAdapt, a US non-profit, CAKE is a community-oriented platform open to contributions. It features a large collection of case studies, primarily from the US and the Americas, classified by phase, sector, scale, region, habitat, and climate impacts.

Climate Change Adaptation Resource Center (ARC-X)

<https://www.epa.gov/arc-x/case-studies-climate-change-adaptation>

Led by the EPA, ARC-X is an interactive resource for local governments. It hosts case studies that can be sorted by area of interest, region, level of government, and keywords.

Global Center on Adaptation (GCA)

<https://gca.org/>

GCA is an international organisation founded in 2018 in the Netherlands. Active worldwide (except the Americas), its website provides reports and toolkits but does not showcase case studies as adaptation "solutions."

UNDP Climate Change Adaptation

<https://www.adaptation-undp.org/>

UNDP's portal for climate change adaptation, featuring stories (not structured as case studies) and a project explorer map that can be filtered by region, thematic area, and climate hazard.

Nature for Climate Adaptation Initiative

<https://ncai.iisd.org/>

A capacity-building initiative for civil society, led by IISD (Canada) with partners such as GIZ and IUCN. Offers an e-learning course and valuable resources, including six detailed case studies.

National Adaptation Plan (NAP) Global Network

<https://napglobalnetwork.org/>

Platform of a network founded after COP20, focused on developing countries. Shares reports and resources for advancing national-level planning.

Climate Change Knowledge Portal (CCKP)

<https://climateknowledgeportal.worldbank.org/>

The WBG's climate information hub, providing data and tools explored by country and watershed.

ClimateWatch

<https://www.climatewatchdata.org/>

A platform managed by the World Resources Institute, offering open climate data and visualizations. Users can analyse and compare NDCs globally.

NDC Partnership's Knowledge Portal

<https://ndcpartnership.org/knowledge-portal>

This portal, launched in 2016 at COP22, supports NDC promotion. Its relevant climate adaptation content is limited.

Climate Adaptation & Mitigation Impact Area Platform – CGIAR

<https://www.cgiar.org/research/cgiar-portfolio/climate-adaptation-mitigation/platform/>

The CGIAR portal consolidates its climate research efforts and resources, but does not explicitly present case study "solutions."

UNFCCC's Adaptation Exchange

<https://unfccc.int/news/join-the-adaptation-exchange>

Presented as an interactive platform, but currently only links to a minimally active Facebook page.

Global and Regional Adaptation Support Platform (ci:grasp 2.0)

<https://www.pik-potsdam.de/cigrasp-2/index.html>

Appears to be under review for updates. Funded by IKI-GIZ, ci:grasp provides robust climate data, impacts, and adaptation options at multiple scales.

Connecting Nature Enterprise Platform

<https://naturebasedenterprise.com/>

A marketplace connecting buyers with nature-based solution suppliers for design, delivery, and monitoring. Managed by Horizon Nua as a Horizon 2020 project spin-out, it remains active despite project closure in 2022.

Annex 2. List of projects in the Mission Projects Catalogue

1. **ARSINOE**

Innovative, interconnected approaches to strengthen climate resilience at regional and local levels through co-developed solutions focused on water-related risks.

Website: www.arsinoe-project.eu

2. **ClimEmpower**

Empowering five vulnerable southern European regions with tools and strategies to enhance climate resilience through user-driven applications and capacity building.

Website: www.climempower.eu

3. **IMPETUS**

Multi-scale, cross-sectoral climate adaptation framework featuring Resilience Knowledge Boosters across seven EU biogeographical regions.

Website: www.climate-impetus.eu

4. **Regions4Climate**

Developing socially just and climate-resilient communities with cross-sectoral innovations and social equity.

Website: www.regions4climate.eu

5. **RESIST**

Fortifying capacity of vulnerable EU regions by implementing and scaling novel climate change adaptation solutions with strong citizen engagement.

Website: www.resist-project.eu

6. **TransformAr**

Accelerating transformational adaptation via demonstration of water-related innovation packages across diverse communities.

Website: www.transformar.eu

7. **VALORADA**

Harnessing existing data to enable sustainable, climate-resilient development through tools facilitating data sharing and informed planning.

Website: www.valorada-project.eu

8. CLIMAAX

Climate risk and vulnerability assessment framework providing standardized yet flexible tools to support tailored regional adaptation.

Website: www.climaax.eu

9. Pathways2Resilience

Co-developing systemic pathways towards climate-resilient regions by empowering communities and embedding resilience into social and economic fabric.

Website: www.pathways2resilience.eu

10. REGILIENCE

Building regional climate resilience through knowledge sharing, collaboration and tailored demand-driven support in focus regions.

Website: www.regilience.eu

11. ARCADIA

Leading NbS adoption via regional strategies integrating innovation, stakeholder engagement and knowledge exchange across Europe.

Website: www.arcadia-adaptation.eu

12. CARDIMED

Mediterranean climate resilience through a unified framework and digital infrastructure promoting NbS and multi-stakeholder collaboration.

Website: www.cardimed-project.eu

13. ClimaGen

Demonstrating climate-resilient urban regeneration and renaturing to progress towards net-zero emissions in vulnerable neighborhoods.

Website: www.climagen.eu

14. Commit2Green

Participatory urban greening and renaturing, embedding ecosystem services into city planning and fostering citizen involvement.

Website: www.commit2green.eu

15. DesirMED

Demonstrating and mainstreaming NbS for climate-resilient transformation in Mediterranean regions with multi-level governance and local engagement.

Website: www.desirmed.eu

16. GreenInCities

Tackling urban inequality through integrated climate adaptation and regeneration in underserved areas using NbS and advanced technologies.

Website: www.greenincities.eu

17. LAND4CLIMATE

Enhancing resilience by mainstreaming NbS on private land, engaging landowners and stakeholders to scale ecosystem service benefits.

Website: www.land4climate.eu

18. MountResilience

Transformative CCA solutions tailored for climate resilience in European mountainous regions focusing on water, agriculture, infrastructure.

Website: www.mountresilience.eu

19. NATALIE

Accelerating NbS deployment for resilience in diverse European bio-geographical regions through demonstration, co-creation and digital tools.

Website: www.natalieproject.eu

20. NBRACER

Scaling NbS tailored for Atlantic regional climate resilience through community collaboration and integration in adaptation strategies.

Website: www.nbracer.eu

21. ReGreeneration

Revitalising marginalized urban areas into green, resilient, socially inclusive smart cities via NbS and community co-design.

Website: www.regreeneration.eu

22. **URBREATH**

Integrating NbS and advanced technologies like AI for transformative urban climate neutrality and resilience with community involvement.

Website: <https://urbreath.eu>

23. **CLIMATEFIT**

Closing the resilience financing gap by building capacity for resilient investment and co-designing innovative financing strategies.

Website: www.climatefit-heu.eu

24. **PIISA**

Piloting innovative insurance products and risk sharing models to catalyse proactive climate adaptation among households and sectors.

Website: www.piisa-project.eu

25. **SOTERIA**

Developing innovative insurance solutions for climate change adaptation and establishing communities of practice for scaling.

Website: www.soteriacclimate.eu

26. **AURORA**

Enhancing resilience to climate-related health risks using AI-driven monitoring, forecasting and tailored adaptation in the Boreal region.

Website: www.auroraclima.eu

27. **healthRiskADAPT**

Developing a health risk assessment system and adaptation options against heatwaves, pollution, fires and pollen threats.

Website: (not provided)

28. **ISMED-CLIM**

Mitigating climate-related health risks in the Mediterranean using innovative tools, citizen participation and multi-site living labs.

Website: www.ismed-clim.eu

29. **MOUNTADAPT**

Developing healthcare adaptation solutions to reduce climate impacts in mountainous regions through monitoring and emergency management.

Website: www.mountadapt.eu

30. **GENESIS**

Demonstrating NbS for climate resilient water infrastructure in Macaronesia islands focusing on freshwater protection and management.

Website: www.genesisnbs.eu

31. **ICARIA**

Advanced modelling of climate hazards and risks to support adaptation of critical infrastructure in vulnerable European regions.

Website: www.icaria-project.eu

32. **Med-IREN**

Climate-proofing Mediterranean critical infrastructure with NbS and digital decision tools promoting governance and financing mechanisms.

Website: www.med-iren.eu

33. **MIRACA**

Toolkit development for multi-hazard infrastructure risk assessment supporting effective climate adaptation strategies.

Website: www.miraca-project.eu

34. **NATURE-DEMO**

Embedding NbS into critical infrastructure to enhance climate resilience via digital platforms and multi-country demonstration sites.

Website: www.nature-demo.eu

35. **RISKADAPT**

Online integrated platform enabling asset-level climate risk assessment and adaptation strategy development with multi-risk data.

Website: www.riskadapt.eu

36. **ClimaPannonia**

Large-scale uptake of systemic NbS for climate resilience in agricultural ecosystems in the Pannonian region.

Website: www.climapannonia.eu

37. **DRYAD**

NbS demonstration and modelling to improve resilience of Mediterranean agro-silvo-pastoral ecosystems through community engagement.

Website: www.dryad-project.eu

38. **Precilience**

Precision climate resilience testing for agriculture and forestry sectors in European boreal regions via co-created solutions.

Website: www.precilience.eu

39. **TRANSFORM**

Developing adaptation roadmaps and crop rotations as NbS to enhance agricultural resilience in key EU regions.

Website: www.transform-rotations.eu

40. **Adaptation AGORA**

Supporting community-based adaptation through co-designed, innovative and democratic climate resilience solutions.

Website: www.adaptationagora.eu

41. **CLIMAS**

Toolbox empowering citizen engagement for societal resilience using citizen science and design thinking approaches.

Website: www.climas-project.eu

42. **FARCLIMATE**

Developing climate-resilient agriculture, forestry and fisheries measures through community engagement and business involvement.

Website: www.farclimate-project.eu

43. **OCEANIDS**

Climate-informed maritime spatial planning and inclusive blue economy governance through user-driven applications for coastal resilience.

Website: www.oceanids-project.eu

44. **SpongeBoost**

Enhancing freshwater ecosystems' sponge functions to deliver multi-benefit green deal solutions for climate adaptation.

Website: www.spongeboost.eu

45. **SpongeScapes**

Improving sponge functioning at landscape scales in European catchments for resilience to hydrometeorological extremes.

Website: www.spongescapes.eu

46. **SpongeWorks**

Upscaling sponge landscapes by co-creating natural water retention solutions and sustainable management in river basins.

Website: www.spongeworks.eu

47. **FairFuture**

Supporting local and regional authorities in developing just climate adaptation pathways that embed risk assessment into policy while fostering equitable, inclusive decision-making.

Website: www.fairfutureforclimate.eu

48. **JUST4CARE**

Strengthening urban climate resilience by embedding justice, equity, and inclusion into regional planning through co-created, data-driven adaptation solutions.

Website: www.just4care.eu

49. **JustREACH**

Equipping local and regional authorities and communities with practical tools and evidence-based guidance to align climate adaptation with economic, ecological, and social justice goals.

Website: www.justreach.eu

50. **JUSTSAFE**

Designing inclusive climate resilience and digital transition strategies that prioritise equitable participation and community empowerment for disproportionately affected groups.

Website: www.justsafe-project.eu

51. **SMARTER**

Enabling transformative, systemic climate adaptation across sectors, scales, and governance levels through integrated tools and standards that strengthen synergies and replicability.

Website: www.smarter-resilience.eu

52. **SystR**

Strengthening systemic resilience to cascading climate impacts by bridging science and policy, breaking sectoral silos, and developing place-based transformative strategies.

Website: www.systemicresilience.eu

53. **TICCA4DANU**

Accelerating inclusive societal transformation for climate resilience by addressing governance and structural barriers, engaging public authorities, vulnerable groups, and the private sector.

Website: www.ticca4danu.eu

54. **UNDERPIN**

Co-developing and validating an outcome-oriented monitoring framework to measure the effectiveness of climate adaptation solutions, supporting the EU Adaptation Strategy's 2050 resilience objectives.

Website: www.underpinclimate.eu

55. **AdaptationHubs**

Strengthening multi-level governance for climate adaptation by linking the EU with regional and local authorities, promoting peer-learning and implementation of the European Climate Law.

Website: www.adaptationhubs.eu

56. **REGILIENCE+**

Bridging gaps in access to practical climate adaptation knowledge by identifying and sharing effective solutions with local and regional authorities.

Website: www.regilience.eu

57. **COAST-SCAPES**

Co-designing systemic, nature-based resilience solutions for vulnerable coastal landscapes that enhance biodiversity, reduce climate risks, and strengthen cross-sector governance.

Website: www.coast-scapes.eu

58. **GRACE**

Strengthening resilience in remote rural areas by empowering communities to co-develop nature-based, circular, and digitally supported adaptation solutions.

Website: www.grace-project.eu

59. **NURISH**

Strengthening rural climate resilience through a Regenerative Rural Resilience Framework combining nature-based, technological, and circular solutions with local governance support.

Website: www.nurish-project.eu

60. **REHUBS**

Accelerating climate resilience in vulnerable rural and small communities by strengthening local capacity to plan, finance, and implement long-term adaptation solutions.

Website: www.rehubs-project.eu

61. **TerraTwin**

Developing a Digital Twin integrating climate, biodiversity, and socioeconomic data to support evidence-based adaptation decisions through scenario projections and anomaly detection.

Website: www.terratwin.eu

62. **Trees4Adapt**

Strengthening understanding of the links between climate change and biodiversity through evidence-informed tools and Nature-based Solutions.

Website: www.trees4adapt.eu

63. **BLOSSOM**

Bridging the gap between public climate ambition and private investment by linking authorities with financial actors and testing bankable financing solutions.

Website: www.blossom-project.eu

64. **CLIMINVEST**

Improving the bankability of climate adaptation projects through validated tools that help stakeholders create financially viable initiatives and integrate adaptation into ESG-driven portfolios.

Website: www.climinvest-horizon.eu

65. **RISE-IN**

Increasing investment attractiveness of nature- and ecosystem-based adaptation solutions by assessing co-benefits and identifying innovative, participatory financing opportunities.

Website: www.rise-in.eu

Annex 3. XML data analysis report

XML vs Supabase audit (2026-09-17_010338)

- XML folder: /Users/sergiogalan/proyectos/farclimate/farclimate_data_pipelines/packages/cordis/data/downloads
- XML files: **65**
- Parsed projects: **65**
- Unique entities: **1196**
- Project-entity pairs: **1632**

Sanity checks (are we looking at the expected Supabase tables?)

- Supabase row counts (API-visible): entities_cordis=**1198**, projects_cordis=**65**, project_entities=**1632**
- ID shapes: XML projects numeric=**65**, Supabase projects UUID=**65**, Supabase projects cordis_id numeric=**65**
- Overlap XML↔Supabase by cordis_id: projects=**65**, entities=**1196**

Samples (for client-facing discussion)

Entities missing shortName in XML (sample 12 of 359)

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_pro- jects
867440155	Parco Nazionale delle Foreste Casentinesi, Monte Falterona e Campigna	IT	IT01488410513			1	101112737
867662770	AMBIENTE ITALIA SRL	IT	IT14325870963			2	101112705, 101214441
873319713	ASSOCIATION POUR LA RENATURATION DES TERRITOIRES	FR				1	101112859
873804325	BAB Project Einrichtung mit eigener	AT	ATU81700036			1	101214172

en-tity_cordis_id	legal_name	coun-try	vat	short_name	web	pro-jects_count	exam-ple_pro-jects
	Rechtspersönlich-keit an der Bunde...						
876040466	MUNICIPIO DA PO-VOA DE VARZIM	PT	PT506741400			1	101214441
876153374	Pudasjärven Ke-hitys Oy	FI	FI28908803			1	101214414
876293442	CARBON NEUTRAL CITIES ALLIANCE	BE				1	101214441
876370751	Comune di Ventimi-glia	IT				1	101212947
876520616	ASOCIACION CUL-TURAL ESPACIO BELLAS VISTAS	ES	ESG02923456			1	101212990
876576876	Ev.-luth. Kirchengemeinde Hamburg-Veddel	DE				1	101214343
876623145	Gemeinsame Re-gion Bucklige Welt - Wechselland	AT	ATU81575617			1	101214172
876768645	PLACES IN COM-MON LIMITED	UK				1	101214563

Entities missing VAT in XML (sample 12 of 190)

en-tity_cordis_id	legal_name	coun-try	vat	short_name	web	pro-jects_count	exam-ple_projects
865921426	COMMUNE DE VERNUILLET	FR		MAIRIE DE VERNUILLET		1	101214343
873319713	ASSOCIATION POUR LA RENATU-RATION DES TERRI-TOIRES	FR				1	101112859

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_projects
873503625	COMMUNAUTE D'AGGLOMERATION DU NORD GRANDE TERRE	FR		CANGT		1	101212761
874156726	GREENFISH HF	IS		GREENFISH		1	101112859
876293442	CARBON NEUTRAL CITIES ALLIANCE	BE				1	101214441
876370751	Comune di Ventimi- glia	IT				1	101212947
876576876	Ev.-luth. Kirchengemeinde Hamburg- Veddel	DE				1	101214343
876768645	PLACES IN COM- MON LIMITED	UK				1	101214563
879301994	SAKIU RAJONO SA- VIVALDYBES AD- MINISTRACIJA	LT		SAKIU RAJONO SAVIVALDYBES ADMINISTRACIJA		1	101214051
879572430	VILNIAUS MIESTO SAVIVALDYBES VI- SUOMENES SVEIKATOS BIURAS	LT				1	101157643
879610066	PROPARK-FUNDA- TIA PENTRU ARII PROTEJATE	RO				1	101157448
879792038	VESTERALEN IN- TERKOMMUNALE POLITISKE RAD	NO		VESTERALSRA- DET		1	101093968

Entities missing web (address.url) in XML (sample 12 of 785)

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_pro- jects
865921426	COMMUNE DE VERNOUILLET	FR		MAIRIE DE VERNOUILLET		1	101214343
867440155	Parco Nazionale delle Foreste Casentinesi, Monte Falterona e Campigna	IT	IT01488410513			1	101112737
867662770	AMBIENTE ITALIA SRL	IT	IT14325870963			2	101112705, 101214441
872452824	TAMPEREEN TILAPALVELUT OY	FI	FI28632616	TAMPERE FACILITY SERVICES LTD		1	101212794
873319713	ASSOCIATION POUR LA RENATURATION DES TERRITOIRES	FR				1	101112859
873503625	COMMUNAUTE D'AGGLOMERATION DU NORD GRANDE TERRE	FR		CANGT		1	101212761
873804325	BAB Project Einrichtung mit eigener Rechtspersönlichkeit an der Bunde...	AT	ATU81700036			1	101214172
874156726	GREENFISH HF	IS		GREENFISH		1	101112859
876040466	MUNICIPIO DA POVOA DE VARZIM	PT	PT506741400			1	101214441
876153374	Pudasjärven Kehitys Oy	FI	FI28908803			1	101214414

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_pro- jects
876169573	CHRIST- CHURCHNZ LIM- ITED	NZ	NZ122775682	Christ- churchNZ Limited		1	101214441
876258910	ASTIKI ANAPTYXI MONOMETOCHIKI DIMOTIKI ETAIRIA	EL	EL999472777	ASTIKI AN- APTYXI TRIKALON		1	101212947

Entities missing shortName + VAT + web in XML (sample 12 of 75)

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_projects
873319713	ASSOCIATION POUR LA RENATURATION DES TERRITOIRES	FR				1	101112859
876293442	CARBON NEUTRAL CITIES ALLIANCE	BE				1	101214441
876370751	Comune di Ventimiglia	IT				1	101212947
876576876	Ev.-luth. Kirchengemeinde Hamburg-Veddel	DE				1	101214343
876768645	PLACES IN COMMON LIMITED	UK				1	101214563
879572430	VILNIAUS MIESTO SAVIVALDYBES VILNIAUS MIESTO SAVIVALDYBES VILNIAUS MIESTO SAVIVALDYBES	LT				1	101157643
879610066	PROPARK-FUNDATIA PENTRU ARII PROTEJATE	RO				1	101157448
879901842	KLP Skadeforsikring AS	NO				1	101112867
879924928	CONSEJERIA DE GESTION FORESTAL Y MUNDO RURAL	ES				1	101093968

en- tity_cordis_id	legal_name	coun- try	vat	short_name	web	pro- jects_count	exam- ple_projects
880859717	ADMINISTRATIA DO- MENIULUI PUBLIC SECTOR 2	RO				1	101139636
881391762	ASSOCIACAO ESTA- CAO BIOLOGICA DE MERTOLA	PT				1	101214172
881410095	EDENTIFY FOUNDA- TION MTU	EE				1	101156653

Projects missing keywords in XML (and DB) (sample 9 of 9)

pro- ject_cordis_id	acronym	title	xml_key- words	db_key- words	xml_orgs	db_enti- ties
101037424	ARSINOE	CLIMATE RESILIENT-RE- GIONS THROUGH SYS- TEMIC SOLUTIONS AND INNOVATIONS			44	44
101093873	R4C	Regions4Climate			47	47
101094021	CLIMAS	CLIMAt change citizens engagement toolbox for dealing with Societal ...			19	19
101112738	SpongeS- capes	Evidence and Solutions for improving SPONGE Func- tioning at LandSCAPE ...			10	10
101112836	NBRACER	Nature Based Solutions for Atlantic Regional Climate Resilience			32	32
101139598	Com- mit2Green	Commit to Green: Participa- tory urban greening and renaturing towards ...			25	25
101139636	ReGreener- ation	The next generation of green, resilient and socially inclusive smart ...			27	27

project_cordis_id	acronym	title	xml_key-words	db_key-words	xml_orgs	db_entities
101156653	ISMED-CLIM	Innovative Solutions across the MEDiterranean for mitigation of Clima...			28	28
101157448	NATURE-DEMO	Nature-Based Solutions for Demonstrating Climate-Resilient Critical I...			23	23

Projects with 0 associated entities in DB (project_entities), but orgs exist in XML (sample 0 of 0)

project_cordis_id	acronym	title	xml_keywords	db_keywords	xml_orgs	db_entities
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Entities with 0 associated projects in DB (project_entities), but projects exist in XML (sample 0 of 0)

entity_cordis_id	legal_name	country	vat	short_name	web	projects_count	example_projects
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1) Entities missing Short Name / VAT / Web (source XML)

- Missing shortName: **359**
- Missing vatNumber: **190**
- Missing address.url: **785**
- Missing all three: **75**

Supabase mismatch highlights (should be ~0 for a clean load)

- XML has VAT but DB missing: **0**
- XML has shortName but DB missing: **0**
- XML has url but DB missing: **0**
- XML entities not found in DB by id: **0**

2) Projects without keywords (source XML) and in Supabase

- Projects missing XML keywords: **9**
- Of those, DB has keywords anyway: **0**
- Of those, DB keywords also empty: **9**
- Of those, project row missing in DB: **0**
- DB projects with empty keywords (overall): **9**

3) Supabase projects with no associated entities (missing project_entities rows)

- DB projects with zero project_entities rows: **0**
- DB missing relations but XML HAS orgs: **0**
- DB missing relations and XML also has no orgs: **0**
- DB projects not in this XML corpus: **0**

4) Supabase entities with no associated projects (missing project_entities rows)

- DB entities with zero project_entities rows: **2**
- DB missing relations but XML HAS projects: **0**
- DB missing relations and XML also has no projects: **0**
- DB entities not in this XML corpus: **2**