

Data-Driven Energy Transition



NCER | National Centre of Excellence in Research

This research was funded in part by the Luxembourg National Research Fund (FNR),
Grant Reference NCER25/SR/18324647.

D11.2 D2ET WEBSITE

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Date	21st November 2025
Related WP	WP11 Communication and Dissemination
Dissemination level	Public

Document change history

Version	Date	Author	Description
V1		L. Vandenabeele	
V2		M. Seredynski	
V3		O. Dutriaux	
V4		G. Castignani	

Quality Control

	Name	Organisation	Date
Editor	L. Vandenabeele	LIST	30.11.2025
Peer-reviewer 1	M. Seredynski	SnT	31.11.2025
Peer-reviewer 2	O. Dutriaux	LISER	05.11.2025
Validated by PI	G. Castignani	LIST	21.11.2025

Legal Disclaimer

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Executive Summary

The D2ET website (www.d2et.lu) is one of the central tool for the project's communication and dissemination activities. It offers all stakeholders an accessible entry point to learn about the project's objectives, activities, and results.

Built on the TYPO3 content management system, the website ensures publication quality, consistency, and long-term reliability. It combines clear and informative sections (such as demonstrators, news, resources, and partner information) within a simple design.

The site serves both as a communication platform and a dissemination channel, providing transparent access to project information and encouraging engagement from policymakers, researchers, industry partners, and the general public.

Hosted securely on LIST's infrastructure and linked with external platforms like LinkedIn and partner websites, it ensures wide visibility.

A clear update process, regular maintenance, and version control keep the content accurate and up to date.

The D2ET website will remain accessible after the end of the project, ensuring long-term availability of its key results and resources.

Overall, the D2ET website strengthens the project's visibility, supports collaboration within the consortium, and contributes to the dissemination and long-term impact of its results in supporting Luxembourg's data-driven energy transition.

Abbreviations and acronyms

Acronym	Definition
GA	Grant Agreement
CA	Consortium Agreement

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1 Introduction

1.1 Aims and objectives

This deliverable presents the D2ET project website and describes its purpose, structure, and implementation. The aim is to document how the website contributes to the project's communication and dissemination objectives, ensuring that information about D2ET is presented clearly, consistently, and accessibly to all stakeholders.

The website has been developed to:

- provide a transparent and reliable source of information about the project;
- disseminate progress, results, and events to both internal and external audiences;
- foster engagement between the consortium, policymakers, industry, and citizens; and
- support long-term visibility of project outcomes beyond its active phase.

1.2 Relation to other activities in the project

The D2ET website is directly linked to the Work Package 11 (Communication and Dissemination), which oversees all outreach, visibility, and stakeholder engagement activities. It complements other communication tools such as social-media channels (LinkedIn), press releases, printed materials, and participation in national or European events.

It also supports the dissemination of outputs from the technical and scientific work packages by hosting or referencing demonstrator results, publications, and public deliverables. The website thus acts as a platform connecting the scientific, technical, and communication dimensions of the project.

1.3 Report structure

This document provides a comprehensive overview of the D2ET website, describing its objectives, structure, technical implementation, and management processes.

It is organised in a logical sequence that follows the website's development and operational workflow.

Section 2 presents the main objectives of the website, its target audiences, and its key functionalities in terms of information, dissemination, resources, and engagement.

Section 3 describes the structure and content of the website's front-end, detailing each page and its specific purpose.

Section 4 outlines the technical implementation, including the choice of content management system (TYPO3), hosting arrangements, and integration with external platforms.

Section 5 explains the back-office organisation, user roles, and media management strategy, while Section 6 describes the workflow governing content updates and validations.

Section 7 focuses on maintenance procedures, including security updates, backups, and long-term hosting.

Finally, Section 8 provides concluding remarks summarising the website's role in supporting the project's communication, dissemination, and long-term visibility.

1.4 Contribution of partners

The development and maintenance of the D2ET website are carried out under the coordination of LIST, which ensures hosting, security, and technical maintenance within its institutional infrastructure.

The Project Coordinator provides overall strategic direction and ensures that the website's content remains aligned with the project's scientific objectives and communication strategy.

The Work Package 11 leader, supported by R2M, is responsible for the website's overall content management, editorial review, and coherence with the project's dissemination activities. Together, they coordinate updates, validate inputs, and oversee the publication process in TYPO3.

All consortium partners contribute by providing relevant inputs (such as news items, demonstrator updates, visuals, and public deliverables) for publication.

This collaborative workflow ensures that the D2ET website reflects the consortium's collective expertise, reinforces its visibility, and supports coherent and effective communication throughout the project lifecycle.

2 Website Objectives

2.1 Role of the website

The D2ET website (www.d2et.lu) is one of the key tools of the project's communication and dissemination strategy. It provides clear and accessible information about the project, its objectives, activities, and results. The website serves both as a public communication channel and as a repository of project-related content, helping to ensure transparency, visibility, and engagement throughout the project.

2.2 Target audience

The website targets a broad audience reflecting the diversity of the D2ET's stakeholders:

- **Policy and decision-makers**, interested in data-driven insights for energy transition decisions.
- **Researchers and innovators**, following D2ET's scientific and methodological developments.
- **Industry partners and energy actors**, looking for applied results and demonstrator outcomes.
- **Citizens and local communities**, wishing to learn about sustainable energy solutions in Luxembourg.
- **Media and institutional partners**, seeking official information and contact points.

The website is designed to be accessible and relevant to all these audiences, offering different entry points depending on their level of interest and expertise.

2.3 Multilingual accessibility and language strategy

The website is currently available in English, which is used as the main language for communicating with the scientific audience. To further improve accessibility and outreach, French and German versions of the website will be implemented by Month 12 (M12). This multilingual approach aims to better reach and engage citizens and stakeholders across Luxembourg and neighbouring regions, ensuring that key project information remains clear and accessible to a wide audience.

Please note that when targeting other media channels, such as the press or external platforms, the choice of language (French or English) depends on the target audience and context. French is generally used for national or regional outreach, while English is preferred for scientific communication and international dissemination to European and research-oriented stakeholders.

2.4 Key functionalities (information, dissemination, resources, engagement)

The website combines several functions:

- **Information** – It provides structured content on the project's context, approach, and partners through the *Home*, *About*, *Approach*, and *Consortium* pages.
- **Dissemination** – The *News & Events* and *Demonstrators* sections showcase activities, results, and real-world applications, ensuring visibility of progress and outcomes.
- **Resources** – The forthcoming *Resources* page will offer open access to selected deliverables, publications, and materials to promote knowledge sharing.

- **Engagement** – The *Contact* page and LinkedIn link enable direct interaction with the project team and encourage stakeholder engagement.

3 Website Structure (front end)

The following section outlines the website's structure, content, and the specific purpose of each of its main components.

3.1 Homepage

The Home page acts as the entry point to the website and provides a concise overview of the project's identity and mission. It introduces the full project title, Data-Driven Energy Transition (D2ET), and its tagline "Supporting Luxembourg's energy transition decisions through data and digital twin technologies".

The page also includes quick access to a link to follow D2ET on LinkedIn.

Purpose:

The home page establishes the project's visual and conceptual identity, giving visitors an immediate understanding of D2ET's focus and scope. It orients users toward relevant information, highlights the project's link to Luxembourg's energy transition, and serves as a central access point to all other website sections.

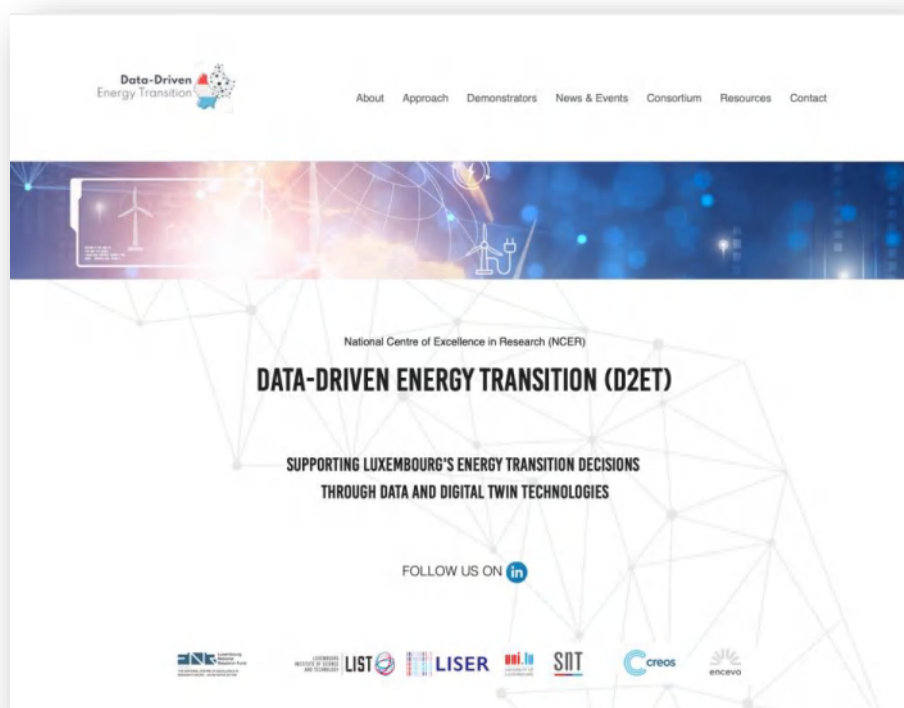


FIGURE 1 HOME PAGE

3.2 About

The About page presents the overall context, objectives, and expected outcomes of the project. It explains the strategic background of the NCER initiative in Luxembourg and highlights D2ET's ambition to develop data-driven approaches supporting energy transition policy decisions. The content is structured around three main sections: Context, describing the challenges of the energy transition; Objectives, outlining the project's mission and key pillars; and Expected outcomes, detailing the main deliverables and impacts foreseen.

Purpose:

This page provides visitors with an understanding of why the project exists and what it aims to achieve. It sets the scientific, policy, and societal framework in which D2ET operates. The section is intended to communicate the project's relevance to national priorities, demonstrate its added value, and convey its long-term ambition to potential stakeholders and the general public.



FIGURE 2 ABOUT PAGE

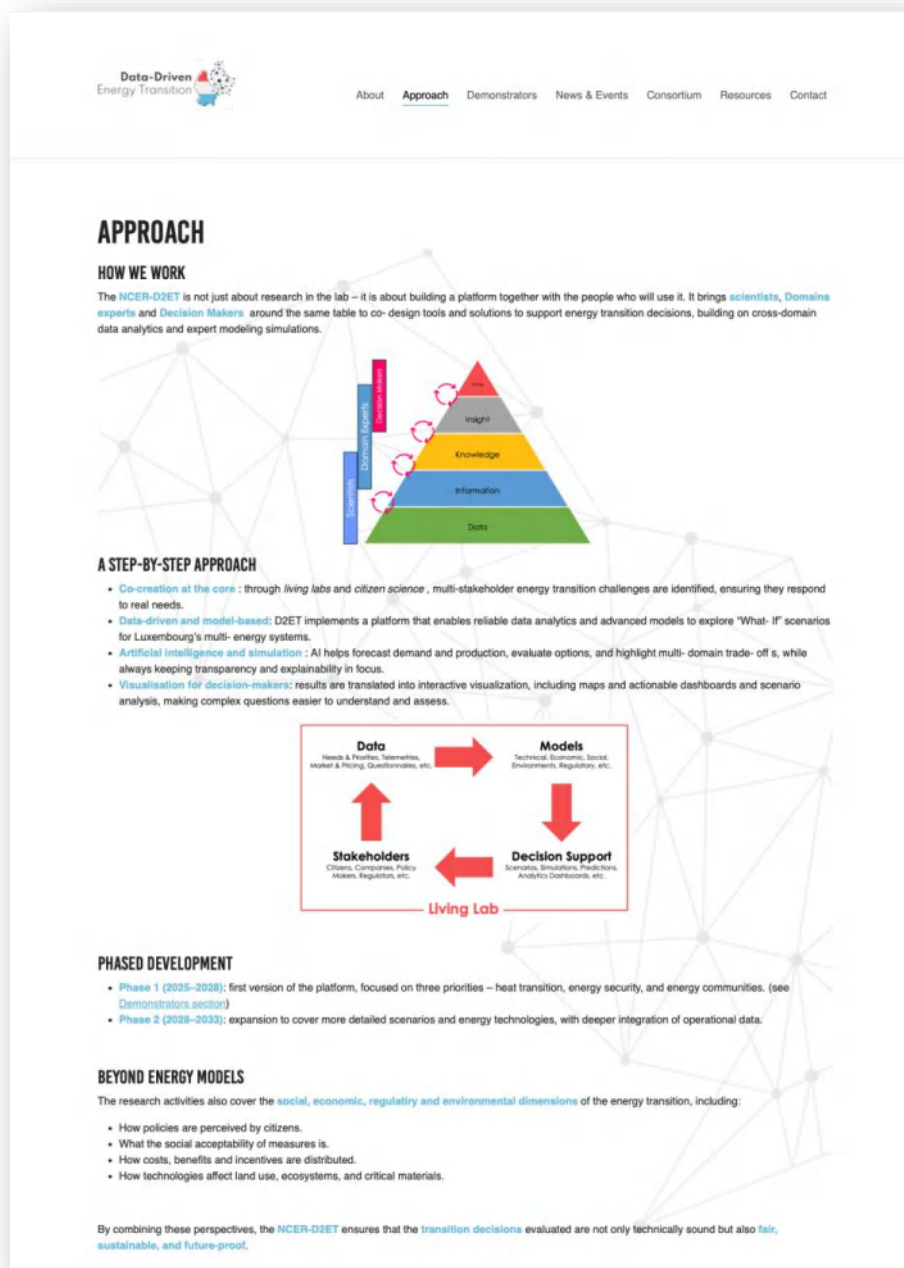
3.3 Approach

The Approach page explains how D2ET operationalises its objectives through a structured, multi-step methodology. It describes the project's working principles — including co-design with stakeholders, the integration of scientific modelling and data analytics, and the incorporation of social and environmental factors into decision-making. The page also outlines the step-by-step implementation process and the transdisciplinary nature of the project's work.

Purpose:

The aim of this section is to illustrate the methodological backbone of D2ET: how the

project translates its objectives into concrete actions. It demonstrates that the project follows a transparent, collaborative, and science-based process, reinforcing the credibility of its approach. This helps audiences understand how D2ET bridges research, innovation, and stakeholder engagement in a coherent manner.



APPROACH

HOW WE WORK

The **NCEER-D2ET** is not just about research in the lab – it is about building a platform together with the people who will use it. It brings **scientists, Domains experts** and **Decision Makers** around the same table to co-design tools and solutions to support energy transition decisions, building on cross-domain data analytics and expert modeling simulations.

A STEP-BY-STEP APPROACH

- **Co-creation at the core** : through living labs and citizen science , multi-stakeholder energy transition challenges are identified, ensuring they respond to real needs.
- **Data-driven and model-based**: D2ET implements a platform that enables reliable data analytics and advanced models to explore "What- If" scenarios for Luxembourg's multi- energy systems.
- **Artificial intelligence and simulation** : AI helps forecast demand and production, evaluate options, and highlight multi- domain trade- off s, while always keeping transparency and explainability in focus.
- **Visualisation for decision-makers**: results are translated into interactive visualization, including maps and actionable dashboards and scenario analysis, making complex questions easier to understand and assess.

PHASED DEVELOPMENT

- **Phase 1 (2025–2028)**: first version of the platform, focused on three priorities – heat transition, energy security, and energy communities. (see [Demonstrators section](#))
- **Phase 2 (2028–2033)**: expansion to cover more detailed scenarios and energy technologies, with deeper integration of operational data.

BEYOND ENERGY MODELS

The research activities also cover the **social, economic, regulatory and environmental dimensions** of the energy transition, including:

- How policies are perceived by citizens.
- What the social acceptability of measures is.
- How costs, benefits and incentives are distributed.
- How technologies affect land use, ecosystems, and critical materials.

By combining these perspectives, the **NCEER-D2ET** ensures that the **transition decisions** evaluated are not only technically sound but also **fair, sustainable, and future-proof**.

FIGURE 3 APPROACH PAGE

3.4 Demonstrators

The Demonstrators page showcases the project's three main pilot cases, referred to as demonstrators, which translate research into practical applications. These include:

(1) Centralised vs. Decentralised Heating, focusing on heating system optimisation;
(2) Multi-carrier Guarantee of Supply, addressing energy system resilience across carriers;
and (3) Energy Communities, exploring local renewable energy management and citizen participation.

Each demonstrator is presented with a short description and visual elements.

Purpose:

This section highlights the tangible, real-world relevance of the project. It shows how D2ET's research outcomes are being applied in specific contexts and demonstrates the project's capacity to generate evidence-based insights for decision-making. The demonstrators act as proof of concept, showcasing the link between scientific work and its societal or industrial application.

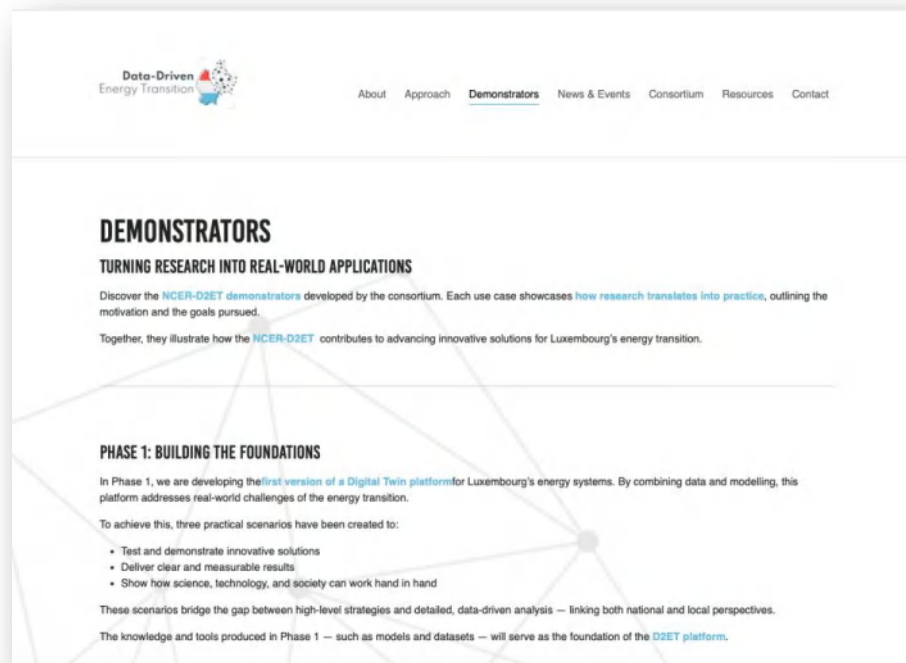


FIGURE 4 DEMONSTRATORS PAGE (TOP PART)

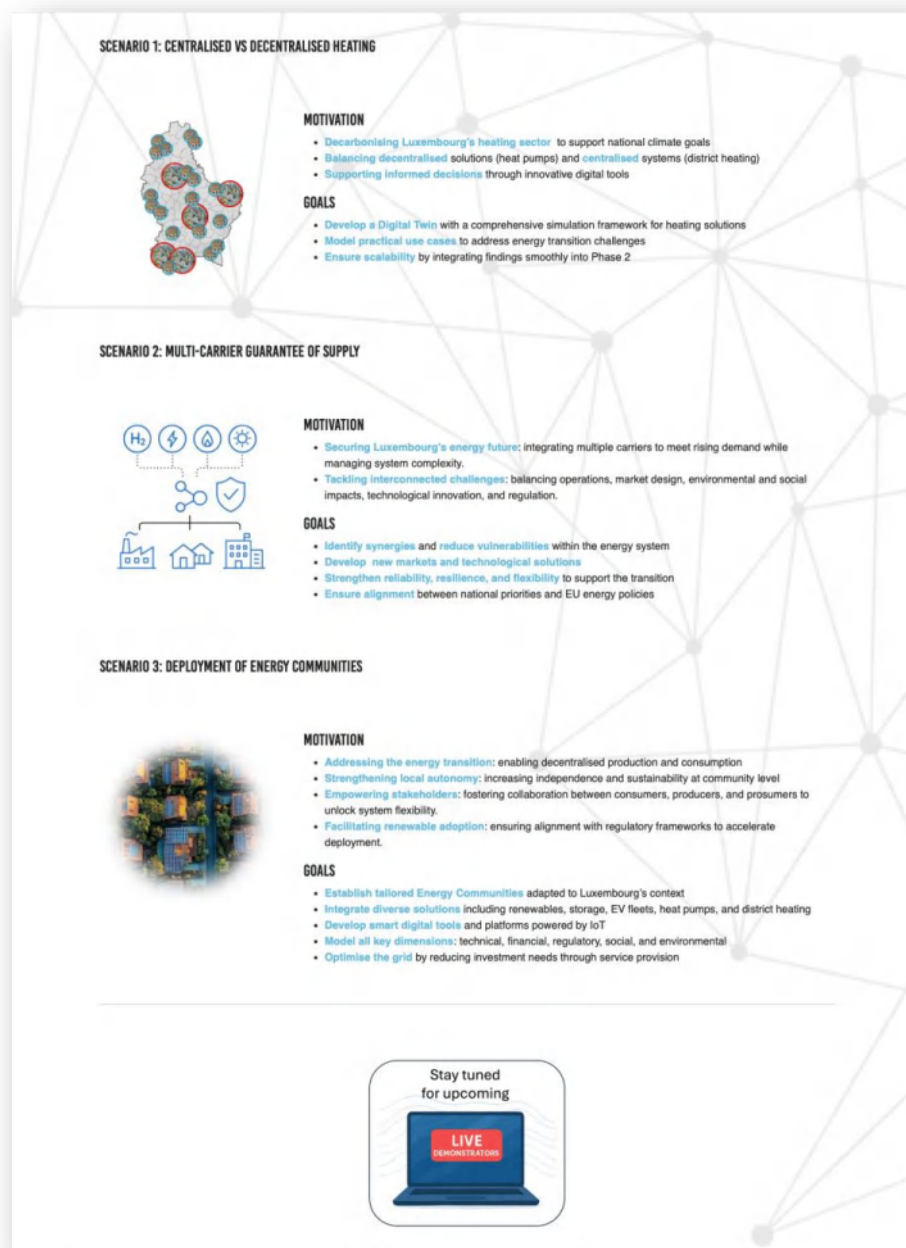


FIGURE 5 DEMONSTRATORS PAGE (CONTINUATION)

3.5 News & Events

The News & Events page functions as a dynamic section providing regular updates about the project's activities, such as workshops, conferences, and milestones. Each entry typically contains a title, publication date, summary, and a link to the full article. The page reflects the project's level of visibility and its engagement with the broader research and policy community. Individual news articles, accessible through dedicated pages, contain detailed information about specific events or announcements.

Purpose:

This section is designed to keep the community informed about the D2ET's evolution and to maintain continuous engagement with external audiences. It documents communication and dissemination activities, ensures transparency about D2ET progress, and helps reinforce its presence within Luxembourg's innovation ecosystem and the broader energy transition community.

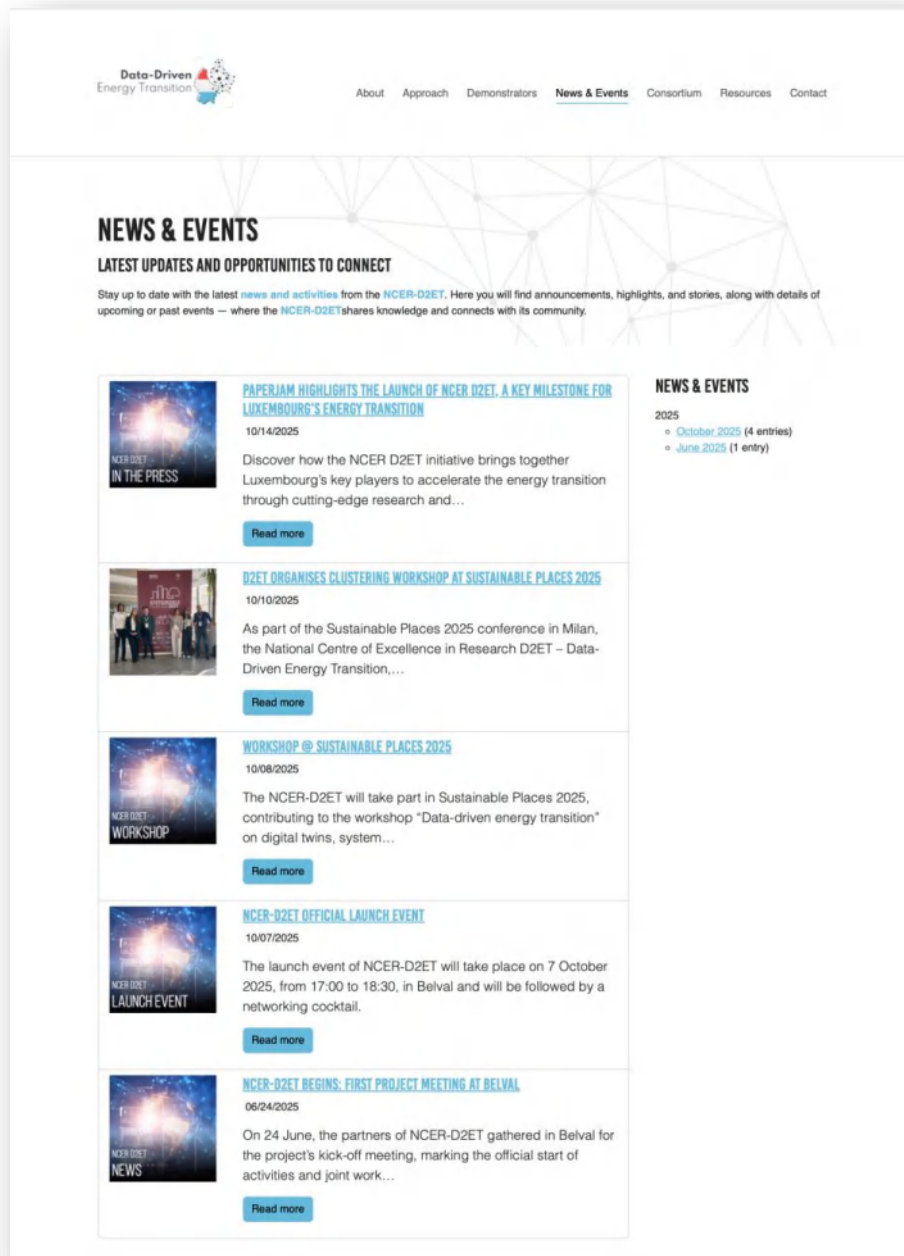


FIGURE 6 NEWS & EVENTS PAGE

3.6 Consortium

The Consortium page introduces the organisations participating in D2ET, including the coordinator and the partner institutions. The page highlights the collaborative nature of the initiative and also mention non-contractual members or external contributors forming a Special Interest Group. The inclusion of partner logos and institutional descriptions strengthens transparency and acknowledges the multidisciplinary partnership underpinning the project.

Purpose:

This page serves to illustrate the project's collaborative ecosystem. It communicates the breadth of expertise and institutional commitment behind D2ET and reinforces the project's credibility through transparent partner visibility. It also supports networking by allowing visitors to identify relevant organisations for potential cooperation or knowledge exchange.

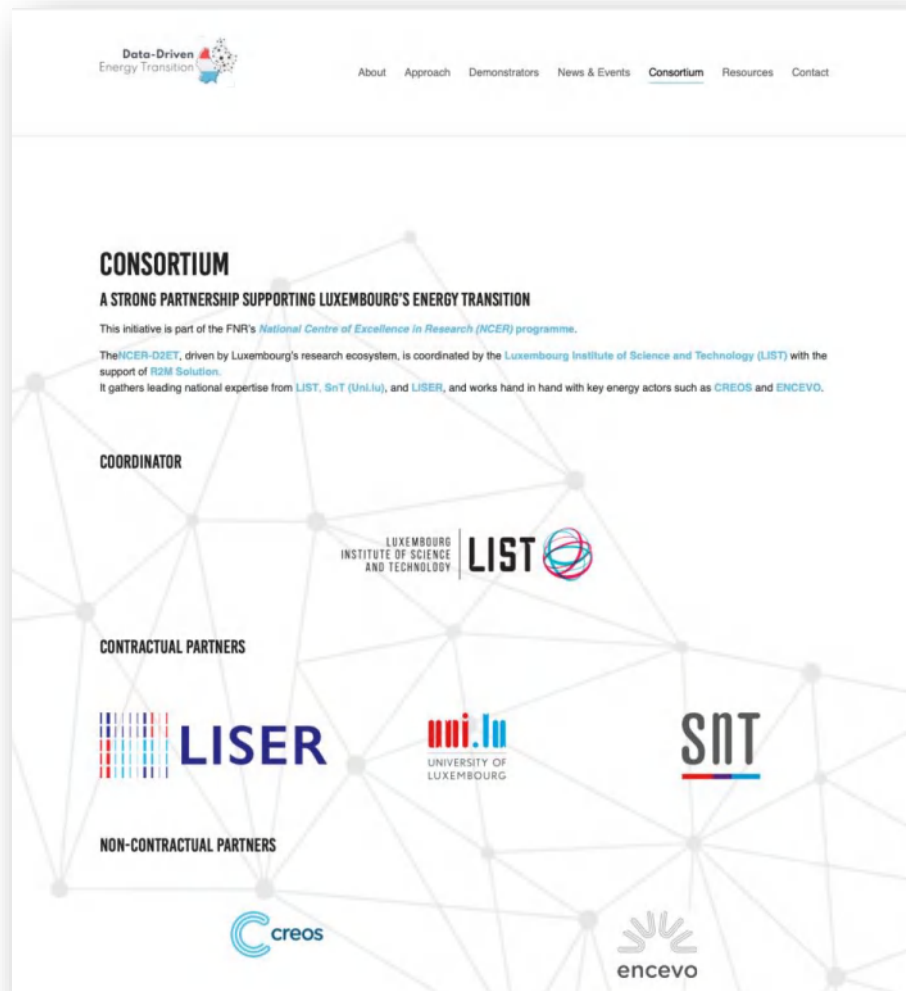


FIGURE 7 CONSORTIUM PAGE (TOP PART)



FIGURE 8 CONSORTIUM PAGE (CONTINUATION)

3.7 Resources

The Resources page is intended to provide access to open resources and public deliverables such as publications, datasets, and dissemination materials. Once populated, it will serve as a reference point for sharing the project's scientific and technical outputs, reinforcing the project's commitment to open science, transparency, and knowledge transfer.

Purpose:

The objective of this section is to facilitate access to project outcomes and promote knowledge dissemination beyond the consortium. By centralising open-access materials, it will enable reuse of project results by researchers, policymakers, and practitioners, thereby amplifying D2ET's impact and supporting its long-term sustainability.

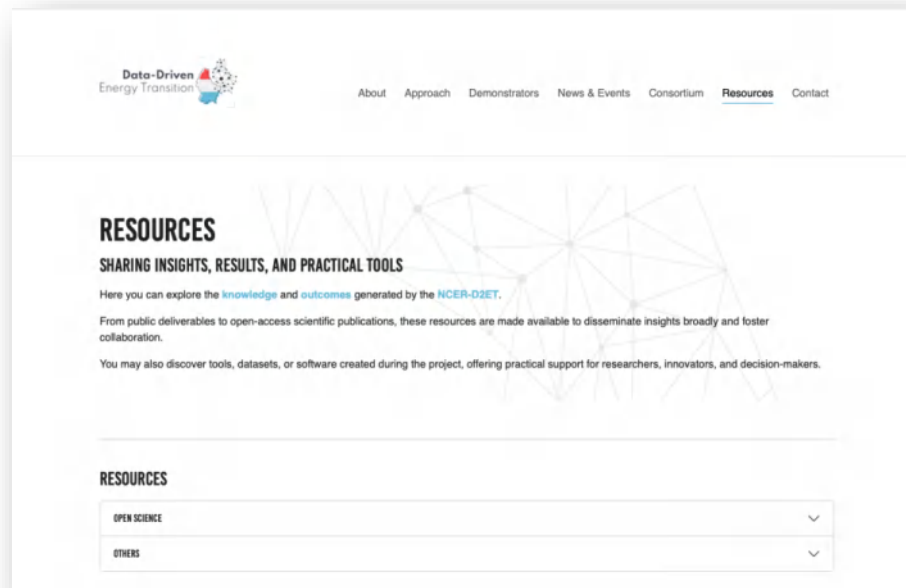


FIGURE 9 RESOURCES PAGE

3.8 Contact

The Contact page provides direct contact information for the project, including the name of the coordinator, Dr. German Castignani (LIST), and links to the project's LinkedIn account. This section ensures that external stakeholders, such as policymakers, researchers, and media representatives, can easily reach the project team.

The page also gives visibility to the people behind the D2ET consortium, showcasing the diversity of expertise and the collaborative spirit driving the project.

Purpose:

The main objective of this section is to offer a clear and reliable communication channel between the project and its stakeholders. It ensures accessibility, facilitates external engagement, and supports inquiries or collaboration opportunities.

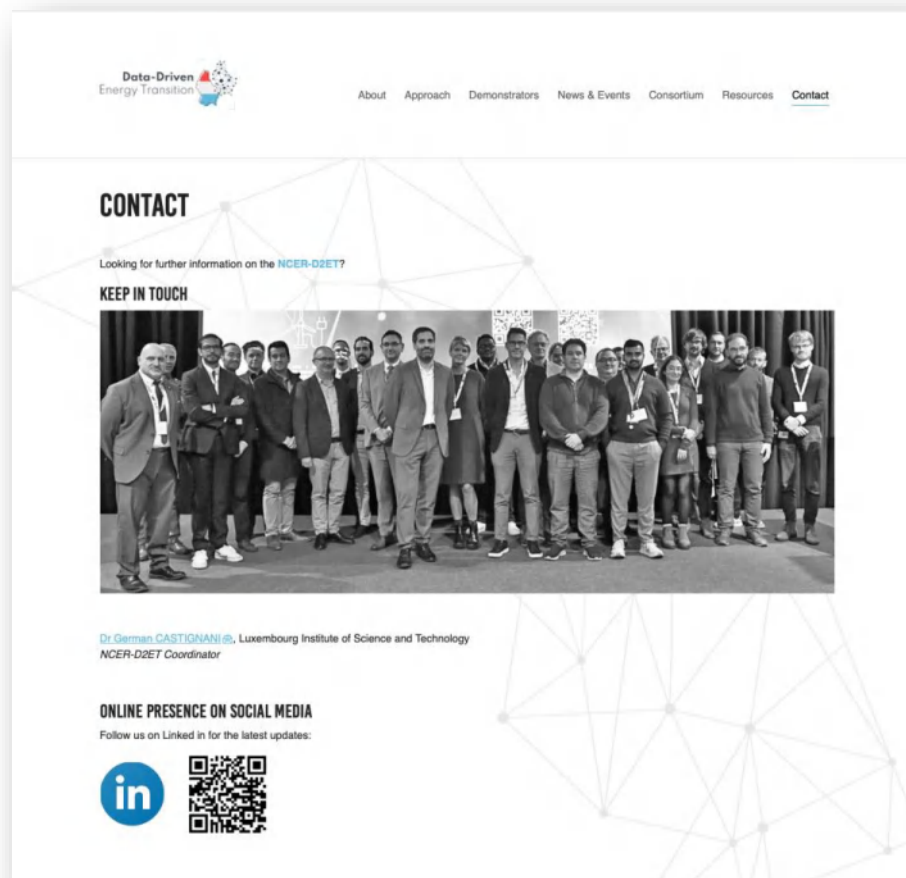


FIGURE 10 CONTACT PAGE

3.9 Legal & credits

The Legal Notice section of the D2ET website redirects users to the official legal framework of the Luxembourg Institute of Science and Technology (LIST), under whose institutional responsibility the site operates.

This page outlines the legal ownership of the website and provides essential information on intellectual property, liability, and terms of use. It specifies that all content published on the website is protected by copyright and may not be reproduced or reused without prior authorisation.

Purpose:

The function of the Legal Notice is to ensure full compliance with Luxembourg and EU legal requirements regarding website ownership and intellectual property. By referencing LIST's institutional framework, the page guarantees legal transparency and accountability for the operation of the D2ET website. It also clarifies responsibilities concerning content accuracy, access conditions, and external links, reinforcing trust and reliability for visitors.

LEGAL NOTICE

WEB SITE EDITOR

This web site is edited by the Luxembourg Institute of Science and Technology - LIST. For any question concerning this web site or its content, do not hesitate to contact us at the following Internet address: info@list.lu. Graphical and software components of this web site have been designed by the Luxembourg Institute of Science and Technology - LIST.

LIABILITY

On this web site, LIST presents its activities and projects. The objective is to give information up-to-date and as accurate as possible.

- LIST accepts no responsibility with regard to the use of the information published in this web site. Its content is provided on an indicative basis only. It may not be fully complete, exhaustive or updated.
- This web site provides links to sites that are not under LIST's control. Therefore LIST accepts no responsibility with any of their content, products or services.
- LIST accepts no responsibility with regard to any and all damages which may occur on your IT installation using this web site.
- LIST accepts no responsibility with regard to any service interruption of this web site, whether temporary or permanent.

The present liability section is not intended to limit any requirements laid down in applicable law or to exclude LIST's liability for matters which may not be excluded under applicable law.

APPLICABLE LAW AND JURISDICTION

Any litigation related to the use of this web site will be submitted to Luxembourg's law and belongs to the exclusive Luxembourg jurisdictions.

CREDITS

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LIST AND SOCIAL MEDIA

Social media is changing the way we communicate as well as the way we work, allowing us the opportunity to engage with partners, collaborators and the wider world as a whole. It is an excellent means of participating in discussions related to the activities we undertake here at Luxembourg Institute of Science and Technology - LIST as well as the projects which are so important to us. See [LIST's Social Media Charter](#).

FIGURE 11 LEGAL NOTICE PAGE

The Privacy Notice page also links directly to the LIST privacy policy, which governs the collection, processing, and protection of personal data obtained through the D2ET website.

It explains how personal data are processed in accordance with the GDPR and Luxembourg's applicable data protection laws. The notice details user rights concerning access, rectification, and deletion of their personal data, as well as the contact information for LIST's Data Protection Officer.

Purpose:

The Privacy Notice ensures that the D2ET website fully adheres to data protection principles and transparency obligations under GDPR. By relying on LIST's institutional policy, the project benefits from a robust, compliant framework for the ethical management of personal information. This section underlines D2ET's commitment to privacy, integrity, and responsible data governance.

PRIVACY NOTICE

Last revised: October 2020

- [Cookies notice](#)
- [Events privacy notice](#)
- [Social Media privacy notice](#)
- [Newsletters privacy notice](#)
- [Recruitment privacy notice](#)
- [Business Partners, Suppliers and Clients privacy notice](#)
- [Research participant privacy notice](#)
- [Visitors privacy notice](#)

AN OVERVIEW OF DATA PROTECTION

The Luxembourg Institute of Science and Technology (hereafter "LIST", "We") is committed to ensure the highest standards of data protection in compliance with the applicable legislation, notably with reference to the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (hereafter "GDPR").

The present document aims at illustrating what personal data we collect about you, the reason why LIST uses your data and, as the case may be, share your data and the applicable retention periods. Additionally, the notice also provides you with information regarding your rights, how to exercise them and whom you can contact in case of any query.

SCOPE OF THE NOTICE

The present notice is directed to:

- users or visitors of LIST's websites (hereafter the "website"),
- external visitors accessing our premises,
- individuals who contact us by any means for any purposes,

Hereafter together "you".

IDENTITY OF THE DATA CONTROLLER

The data controller is LIST, having its registered office at 5, Avenue des Hauts-Fourneaux L-4362 Esch-sur-Alzette, Luxembourg.

LIST is responsible for collecting and processing your personal data in relation with LIST's activities.

Our contact details are set out in Section 9 ("Your rights and how to exercise them") below.

CATEGORIES OF PERSONAL DATA WE COLLECT

We collect personal data about you in the course of our activities and business, including through your use of our website. The categories of personal data that we may collect or obtain may vary depending on the services we provide you or on how you use our website.

Please find here below a list of personal data we may collect and process. Those may at times include:

- Contact details (such as name, surname, address, e-mail address, telephone number, fax number etc.),
- Professional information (such as company/organisation, current role, professional e-mail etc.),
- Technical data (such as IP address, your browser type and language, access logs including access times, websites use and monitoring thereof),
- Participation to LIST's activities and events,
- Pictures or videos taken during LIST's activities or events,
- External visitors' data (name and surname of the visitors, company/organisation, name of LIST's employee organising the meeting, date and place of meeting)

We collect personal data through our website based on your voluntary submission of personal information, for example by registering to LIST's events or by contacting LIST via our online form.

We may also collect information about you in an indirect way from our employees or from third parties, for instance, when one of LIST's clients or suppliers provides us with your personal data.

PURPOSE AND LEGAL BASIS FOR PROCESSING

Please find here below a list of the purposes for which LIST collects and processes your personal data:

- To communicate with you,
- To provide and improve our services,
- To manage our events and activities,
- To ensure and improve the functioning and the security of our website and network,
- To ensure the security of our premises and facilities,
- To manage complaints, feedback and queries,
- To grant external visitors with access to our premises,
- To comply with applicable laws and regulatory obligations,
- To establish and/or defend our legal rights.

Please find here below a list of the legal basis on whose grounds LIST collects and processes your personal data:

FIGURE 12 PRIVACY NOTICE PAGE (TOP PART)

- LIST's legitimate interest, which may generally consist of (i) the pursuit of our business activity and objectives; (ii) the protection of our activity, of our premises, of our information systems security, of our employees, partners and supplier; (iii) the improvement or further development of our services; (iv) the establishment and/or defence of our legal rights.

Please note that the purposes and legal basis of our processing activities may vary based on the services we provide you or on how you use our website.

SHARE OF YOUR PERSONAL DATA WITH THIRD PARTIES

In order to fulfil the purposes mentioned in Section 5 ("Purposes and legal basis for processing"), LIST may transfer your personal data to:

- External service providers that perform services on LIST behalf,
- Government or other regulatory bodies, upon request and to the extent permitted by law,
- Certain regulated professionals such as auditors or lawyers,
- Institutional or non-institutional partners, with whom LIST collaborates in the context of its core activities.

In case of disclosure of your personal data to the aforementioned subjects, LIST shall take appropriate steps to ensure that third parties will apply adequate protection to this data as required by the applicable data protection legislation.

Some of the mentioned recipients of your personal data may be located in countries outside the European Union or the European Economic Area (EU/EEA). In such cases, transfers to a country outside EU/EEA may take place when the European Commission has decided that the third country ensures an adequate level of protection.

In the absence of such adequacy decision, LIST will only proceed to such transfer after having implemented appropriate safeguards to protect your personal data (such as the use of standard data protection clauses adopted by the European Commission) or where a derogation established by art. 49 of the GDPR exists (such as your explicit and informed consent).

Further information about the mentioned transfers and the safeguard measures applied by LIST can be obtained by [sending a request](#).

ENSURING PERSONAL DATA SECURITY AND INTEGRITY

In compliance with the applicable data protection legislation, LIST has put in place appropriate technical and organisational measures in order to prevent or act upon any unauthorised and unlawful processing or disclosure, accidental loss, modification or destruction of personal data. These measures are implemented based on the current state of art, an evaluation of the risks derived by the processing activity and the need to protect personal data. Such technical and organisational measures are regularly updated and/or adjusted to new technical developments or any organisational change that may affect LIST.

DATA RETENTION PERIODS

LIST will only retain your personal for a period of time that is strictly necessary for the purposes for which we collect your data, to comply with a legal or regulatory obligation to which LIST is subject or to manage our relationship with you.

YOUR RIGHTS AND HOW TO EXERCISE THEM

With regards to your personal data collected and processed by LIST, you may exercise at any time the following rights:

- **Right to access:** You have the right to receive confirmation about whether or not your personal data is being processed by LIST. If that is the case, you have the right to know what data is being collected and processed and to obtain a copy of it;
- **Right to rectification:** If the personal data we hold about you is inaccurate or incomplete, you have the right to request to have it rectified;
- **Right to erasure:** Subject to certain conditions specified in art. 17 of the GDPR, you have the right to have your personal data deleted by LIST;
- **Right to restriction of processing:** Subject to certain conditions specified in art. 18 of the GDPR, you have the right to obtain restriction of the processing of your personal data performed by LIST;
- **Right to data portability:** Subject to certain conditions specified in art. 20 of the GDPR, you have the right to obtain a copy of the personal data you provided to LIST in a structured, commonly used and machine-readable format and to request the transfer of these data to another data controller;
- **Right to object:** You have the right to object the processing of your personal data when the conditions set out in art. 21 of the GDPR apply;
- **Right to withdraw consent:** If LIST is processing your personal data based on your consent, you have the right to withdraw that consent at any time. The withdrawal of such consent shall not affect the lawfulness of processing based on consent before its withdrawal.
- **Right to lodge a complaint with a supervisory authority:** You have the right to lodge a complaint with the Commission Nationale pour la Protection des Données (CNPD). More information on how to lodge a complaint are available on CNPD's website: <https://cnpd.public.lu>.

You may exercise any of these rights by contacting our Data Protection Officer (DPO) by filling the [online form](#).

Please kindly note that your rights are not absolute and they may be withheld in accordance with applicable data protection laws. In such event, LIST will provide you with the reasons for not complying with your request. In such case, you may lodge a complaint with the CNPD and seek a judicial remedy against such decision.

LINK TO OTHER WEBSITES

Please be aware that LIST website may contain links to other website that are not governed by this privacy notice. We encourage users to review the privacy notice of each website before disclosing any personal data.

CHANGES TO THIS NOTICE

LIST may make changes to this privacy notice from time to time, to reflect our current privacy practices or to comply with changes in the applicable data protection legislation. LIST encourages you to regularly visit this page in order to remain informed on how LIST collects and processes personal data.

FIGURE 13 PRIVACY NOTICE PAGE (CONTINUATION)

The Cookie Policy page describes the use of cookies and similar tracking technologies on the D2ET website.

As this content is also drawn from LIST's institutional framework, it explains the different categories of cookies used, their purposes, and their duration. The page informs users that no non-essential cookies are stored on their device without explicit consent and provides options for managing or disabling cookies through browser settings.

Purpose:

The objective of the Cookie Policy is to inform users about the website's use of tracking technologies and to obtain their consent in line with EU ePrivacy and GDPR requirements. It ensures transparency in how browsing data are handled, thereby fostering user trust and respecting digital rights.

By relying on LIST's centralised cookie management approach, D2ET guarantees a consistent and compliant user experience across institutional web platforms.

COOKIES POLICY

Last update: May 2023

The present cookie notice is part of our privacy notice. To learn more about how LIST collects and process personal data, please visit our [privacy notice](#).

WHAT IS A COOKIE?

This website uses cookies. Cookies are small text files that are sent and stored to your personal computer or device when you visit a website. The information stored may be returned to the website's servers or to the servers of the relevant third parties during a subsequent visit.

Cookies have different functions. In general, cookies are necessary for the website to work in a correct way (for instance, by saving your current session). Cookies can also be used to analyse your browsing behaviour and to optimize your experience.

WHAT COOKIES DO WE USE AND WHY?

COOKIE	PURPOSE	RETENTION
TS01d7ea11	Technical: It is a cookie from the F5 (our Web Application Firewall) used for security topics.	Session
Typo3InstallTool	Technical: Typo3 technical cookies. It is downloaded when you connect the typo3 backend.	Session
_pk_id	Statistics: used to store a few details about the user such as the unique visitor ID.	1 year
_pk_ses	Statistics: short lived cookies used to temporarily store data for the visit.	30 minutes
cookieconsent_status	Registration of the user's choice regarding cookies: when asking users for consent before tracking visitors, to remember that consent was given by the user-	1 day
Social media buttons	Social media button: used to create a link between LIST's website and the social media. It may display content hosted ad/or provided by the external social media provider. If you click on one of these buttons or decide to view the content, you will be redirected to the related social media. We do not control the setting of social media cookies and we advise you to check the third-party websites for more information about these cookies and how to manage them. The social media are: • Facebook • LinkedIn • Twitter • Youtube	Depending on the social media's terms and conditions.

YOUR CONSENT AND HOW TO MANAGE YOUR COOKIES SETTINGS

When you visit our website, you will be notified about the use of cookies by a specific cookies banner.

We will ask for your consent each time you visit our website, to make sure your authorization is always updated.

With the exception of session cookies that are automatically deleted on a daily basis, you are free to accept or reject the cookies in place on our website.

In addition to this option, you can also delete and manage your cookies settings via your web browser.

To learn more about how you can manage your cookies settings, please consult the following websites:

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

FIGURE 14 COOKIES POLICY PAGE

3.10 Footer

The Footer appears consistently across all pages of the D2ET website. The footer includes links to the Legal Notice, Privacy Notice, and Cookie Policy pages, all of which are hosted under the Luxembourg Institute of Science and Technology (LIST) domain.

Purpose:

The footer ensures that users can easily access mandatory legal and institutional information from any page of the website.

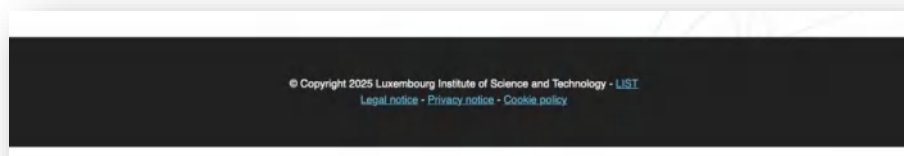


FIGURE 15 FOOTER PAGE

4 Technical Implementation

4.1 CMS choice: TYPO3

The D2ET website has been developed using the TYPO3 content management system (CMS), which is the institutional standard at the Luxembourg Institute of Science and Technology (LIST). TYPO3 was selected for its robustness, flexibility, and compliance with LIST's web governance framework.

The CMS allows for structured content creation, multilingual capabilities, and modular page composition while ensuring long-term maintainability. It provides a clear separation between design templates, content, and functionality, allowing communication staff to update pages without technical support.

4.2 Hosting, domain, SSL & security

The website is hosted on LIST's secure infrastructure, ensuring availability, data integrity, and protection against unauthorised access.

The domain name www.d2et.lu is registered and maintained by LIST. All data exchanges are protected by SSL encryption (HTTPS), and the hosting environment follows LIST's cybersecurity and data protection policies.

Regular updates of the TYPO3 system, plugins, and security patches are handled by LIST's IT services to guarantee the stability and reliability of the platform. Backups and monitoring tools are also implemented to ensure continuity of service.

The analysis of website traffic is performed using Matomo, an open-source and privacy-friendly analytics solution. This tool provides insights into website usage, including the number of visits, page views, and user navigation paths. It also offers approximate geolocation of visitors, obtained without using Matomo cookies or the full IP address, thereby ensuring strong compliance with data protection requirements.

4.3 Integration with external platforms (LinkedIn, one-page summary, partners web sites, etc.)

The D2ET website integrates smoothly with several external communication and partner platforms:

- **LinkedIn** : A direct link to the project's LinkedIn page ensures visibility and cross-promotion of news and events.
- **Partner websites** : Links to consortium partners (including LIST and other institutions) strengthen interconnection and mutual visibility across web ecosystems.
- **Downloads and external documents** : The website may link to public deliverables or media.
- **One-page summary / factsheet** : In addition to the dedicated D2ET website, an overview page is published on LIST website. This page provides a concise online presentation of the project, inspired by the structure used for other LIST initiatives (Mission – Innovation – Impact), and includes information on project objectives, partners, co-funding, and a link to the full D2ET website. This type of summary page can also be reused or adapted by project partners on their own institutional websites to ensure consistent communication across the consortium.

These integrations enhance the website's dissemination reach and maintain consistency across the project's online communication channels.

5 Back-office Structure

5.1 User roles & permissions

The TYPO3 CMS includes a controlled access system with defined user roles and permissions.

- Administrators (LIST IT services) manage the technical configuration, system updates, and security settings.
- Editors (WP11 leader and R2M support team) have rights to create, modify, and publish content within sections of the site.
- Contributors have no direct CMS access but can submit draft content for review and approval before it is published online.

5.2 Media management

Media management for the D2ET website combines the functionalities of the TYPO3 content management system and the project's internal SharePoint environment.

Within TYPO3, all visual and downloadable assets — such as images, infographics, videos, and documents — are handled through the CMS's integrated media library. Files are uploaded, tagged, and organised by category, allowing editors to easily insert, update, or replace content while maintaining visual consistency and accessibility (e.g. responsive display, alt-text, copyright information). TYPO3 ensures optimised file formats for web use and controlled deployment of media across multiple pages, supporting efficient website maintenance.

In parallel, the project's media and communication materials are structured and archived in the consortium's SharePoint repository located at:

WP11-Communication and Dissemination/Media library/Website_content/

This shared directory serves as the central repository for all D2ET website assets, including high-resolution originals, graphical elements, photos, videos, and documents used for communication and reporting. Files are organised by category (e.g. events, demonstrators, publications) and versioned to ensure traceability, reusability, and alignment with the content published via TYPO3.

This dual system guarantees both operational efficiency and long-term organisation: TYPO3 manages the publication and visual presentation on the website, while SharePoint provides a secure, shared environment for collaborative editing, structured storage, and archiving of all project media.

6 Workflow for updates

6.1 General principles

Content updates on the D2ET website follow a workflow designed to ensure accuracy, coherence, and alignment with the project's overall communication strategy.

Contributors from across the consortium can submit proposed updates or new content (such as news items, demonstrator highlights, or dissemination materials) directly to the Work Package 11 Communication and Dissemination leader, with the R2M team in copy. This ensures transparency and coordination between the communication lead and the partner responsible for web implementation.

The approval chain is structured as follows:

- Contributors (project partners) prepare and send draft content or visual material to the WP 11 leader (cc R2M).
- WP 11 leader, together with the D2ET coordinator and R2M support team review the proposed content for accuracy, relevance, and consistency with the project's key messages and visual identity.
- Once validated, the approved version is published in TYPO3 by the WP 11 leader, or R2M support team.

To maintain oversight, a dedicated “Website and Communication Updates” point can be added to the agenda of Leadership Team meetings whenever necessary. This allows the consortium to review proposed updates, coordinate timing with other communication actions, and ensure consistency across platforms.

6.2 Update triggers per section

Different website sections have distinct triggers and sources for updates:

- **Home / About / Approach** – Updated only when major project milestones or scope changes occur.
- **Demonstrators** – Updated when new results, visuals, or milestones from pilot activities are available.
- **News & Events** – Updated regularly following D2ET meetings, workshops, publications, or communication actions.
- **Consortium** – Updated if new partners join, roles evolve, or official contact details change.
- **Resources** – Updated when new public deliverables, reports, or dissemination materials are released.
- **Contact / Legal / Privacy / Cookie Policy** – Updated only if official contact points or institutional frameworks are modified.

7 Maintenance

7.1 Security updates & patches

The D2ET website benefits from LIST's centralised IT and web infrastructure management. All security patches and TYPO3 system updates are handled by LIST's IT services to ensure compliance with the latest cybersecurity standards. Updates cover the CMS core, extensions, and plugins.

7.2 Backup & recovery

LIST's IT infrastructure provides automated backups of the website database and file system.

Regular backups are retained according to LIST's data retention policy. In case of technical failure or data loss, rapid restoration procedures allow for complete recovery of the website.

This guarantees continuity of service and minimises risks of data loss or downtime.

7.3 Long-term hosting

The D2ET website is hosted on LIST's institutional servers.

Following the end of the project, LIST will maintain hosting for a reasonable duration to preserve online visibility of results and resources, in line with NCER and funding body recommendations.

8 Conclusion

The D2ET website is a central tool for communication and dissemination within the project. Built on TYPO3 and supported by structured media management through SharePoint, it ensures professional publication, consistency, and long-term reliability.

With a clear update process, regular maintenance, and links to external platforms such as LinkedIn and partner websites, the site remains accurate, accessible, and up to date.

Overall, it supports D2ET's goal of promoting data-driven innovation for Luxembourg's energy transition by ensuring visibility, transparency, and engagement with all stakeholders.

Annexes

n.a.