



LEARNING, APPLYING, MULTIPLYING BIG DATA ANALYTICS

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LAMBDA Deliverable 1.3

External and intra-consortium e-collaboration tool v2

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Dissemination Level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	



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0.4			

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Executive Summary

This deliverable presents the status of development of the **LAMBDA platform** at the end of the project and serves as a quick reference guide to functionalities currently available at the following [link](https://project-lambda.org/) (see <https://project-lambda.org/>). The platform aims at facilitating the cooperation within the consortium and with LAMBDA stakeholders in the West Balkan Region (i.e., government agencies, universities, research and development organizations, and other organizations) on topics and activities relevant for the LAMBDA project.

The web site has been divided into three main Sections:

- Public part that web pages relevant for the LAMBDA learning¹, communication and dissemination activities² (see Menu in the rectangle on the right upper corner);
- Private part of the platform for the members of the consortium;
- Private part of the platform for the stakeholders³ involved in LAMBDA activities as Advisory Board members, teachers, and participants at the Big Data Analytics School.

Everybody with a valid e-mail address can register with the platform and become an *authenticated user*. The **LAMBDA platform** is based on Drupal, leading open-source content-management framework. The platform is maintained by the members of the team from the Institute Mihajlo Pupin, however each partner has a representative who is a responsible contact for the platform.

The public part of the LAMBDA platform leads to information about

- The project ([Partners](#), [Advisory Board](#), [Objectives](#), [Methodology](#), [Milestones](#), [Action Plans](#), [Promotional Material](#));
- Summer schools ([Big Data Analytics Summer School, Belgrade, Serbia, June 2021](#), [Big Data Analytics Summer School, Belgrade, Serbia, June 2020](#), [Big Data Analytics Summer School, Belgrade, Serbia, June 2019](#));
- E-learning possibilities ([Lectures](#), [Big Data Tools](#), [Scenarios](#), [Link to SlideWiki](#));
- News and events ([Forthcoming events](#), [Past events](#), [Webinars](#), [Research-Industry forums](#), [Networking with School Teachers](#), [Staff exchanges](#), [Consortium meetings](#));
- Results of the project, including different [Search](#) options, [Deliverables](#), [Publications](#), [Preceding publications](#), [Awards](#), [PhD defence events](#), and [Related Projects](#).

¹ <https://project-lambda.org/Learning>

² <https://project-lambda.org/Events>

³ <https://project-lambda.org/Multiplying>



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Abbreviations and Acronyms

CMS	Content management System
EC	European Commission
ICT	Information and Communication Technologies
R&D	Research and Development
WP	Work Package

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1. Introduction

For easier and more effective collaboration among consortium members (e.g. facilitating joined paper and deliverable writing, version management, information sharing, etc) and with stakeholders, an e-collaboration tool has been established, [LAMBDA platform](https://project-lambda.org/)⁴, that is based on the Drupal Content Management System (CMS). The platform is maintained by the members of the team from the Institute Mihajlo Pupin, however each partner has a representative who is a responsible contact for the portal.

1.1 Purpose and Scope of the Deliverable

This deliverable serves as a quick reference guide to functionalities currently available on the public side of the platform in June 2021.

The Platform's contents have been divided into three main Sections:

- Public part that web pages relevant for the LAMBDA communication and dissemination activities (see Menu in the rectangle on the right upper corner in Figure 1);
- Private Section for information sharing inside the consortium (see Menu in the red rectangle in Figure 2);
- Stakeholders Section and database that stores information about Advisory Board members and LAMBDA stakeholders from the West Balkan Region (e.g. government agencies, universities, research and development organizations, and other organizations interested in topics and activities relevant for the LAMBDA project).

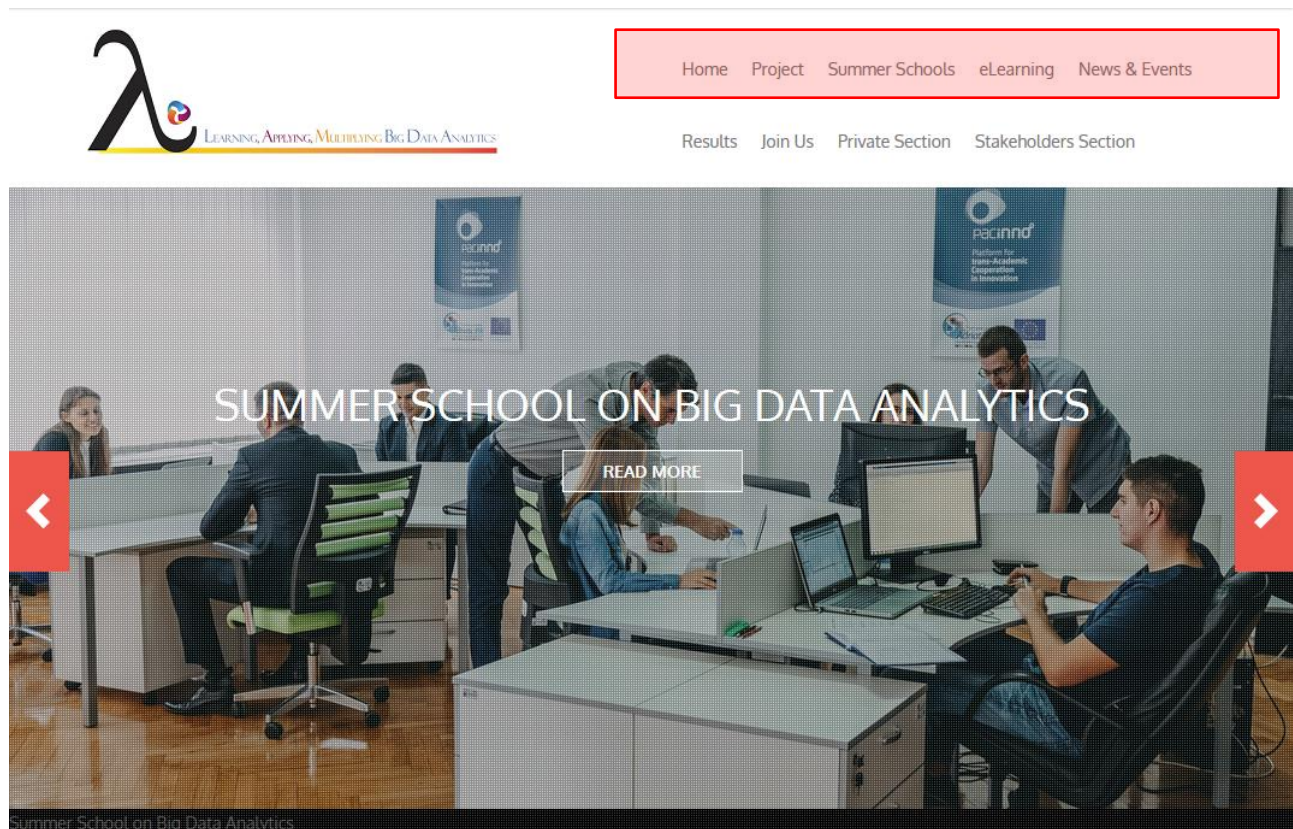


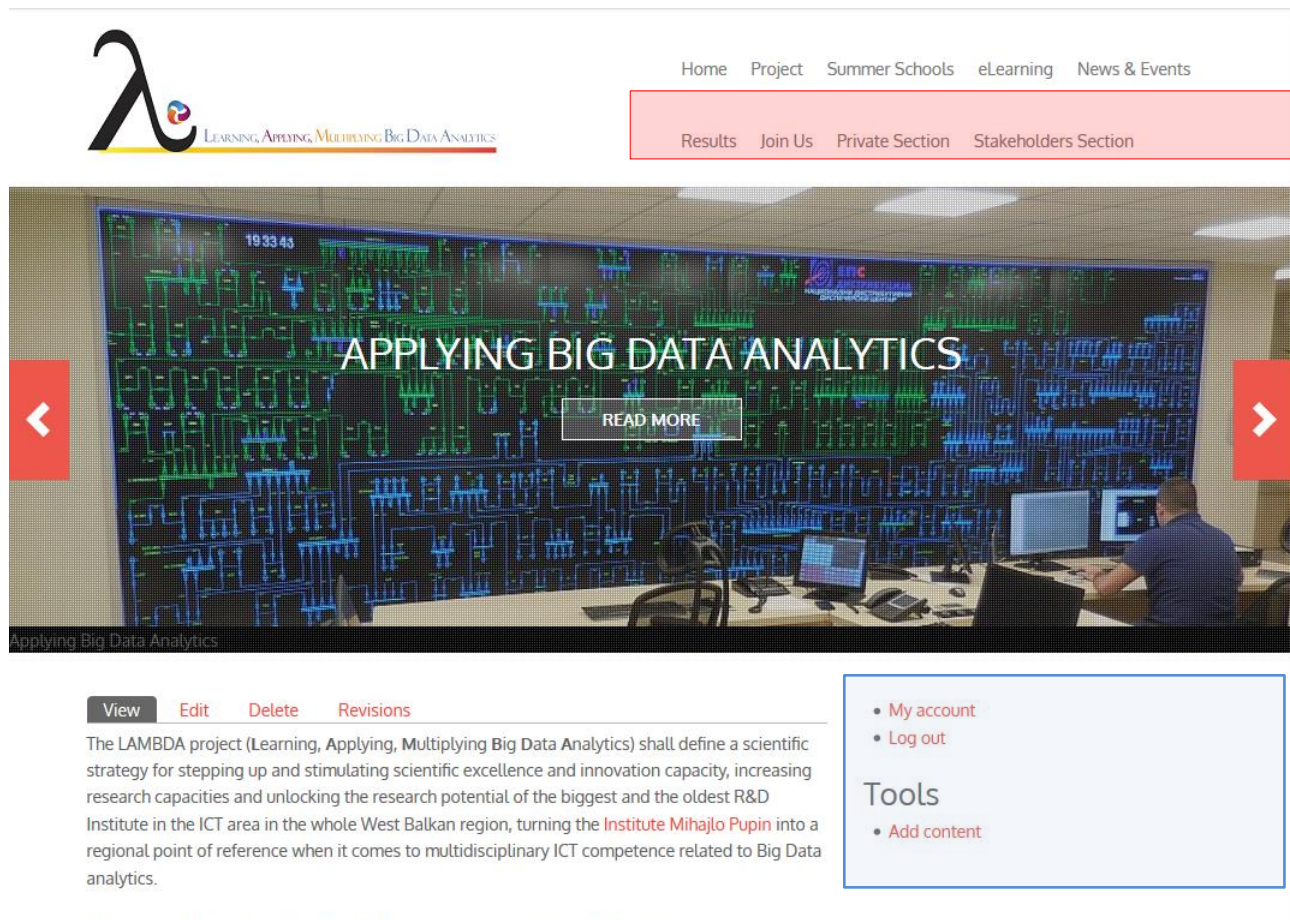
Figure 1. LAMBDA platform- shortcut to learning activities

⁴ <https://project-lambda.org/>

LAMBDA partners and Stakeholders have access to two additional Sub-sections:

- Big Data Analytics Summer School – with the goal to support the organization of the event and store relevant information (Agenda, reports, etc.):
- Knowledge repository – with the goal to store outputs relevant for the stakeholders (lectures, training materials, tools, related projects info).

Everybody with a valid e-mail address can register with the platform and become an *authenticated user*. Users can manage their accounts via the user menu displayed in the blue rectangle in Figure 2.



The screenshot displays the LAMBDA platform interface. At the top, there is a navigation bar with links: Home, Project, Summer Schools, eLearning, News & Events. Below this, a red bar contains links: Results, Join Us, Private Section, Stakeholders Section. The main content area features a large banner titled "APPLYING BIG DATA ANALYTICS" with a "READ MORE" button. Below the banner, there is a section titled "View Edit Delete Revisions" with a paragraph of text. On the right side, a blue sidebar contains a user menu with "My account" and "Log out" options, and a "Tools" section with an "Add content" option.

Figure 2. LAMBDA platform- shortcut to R&D activities

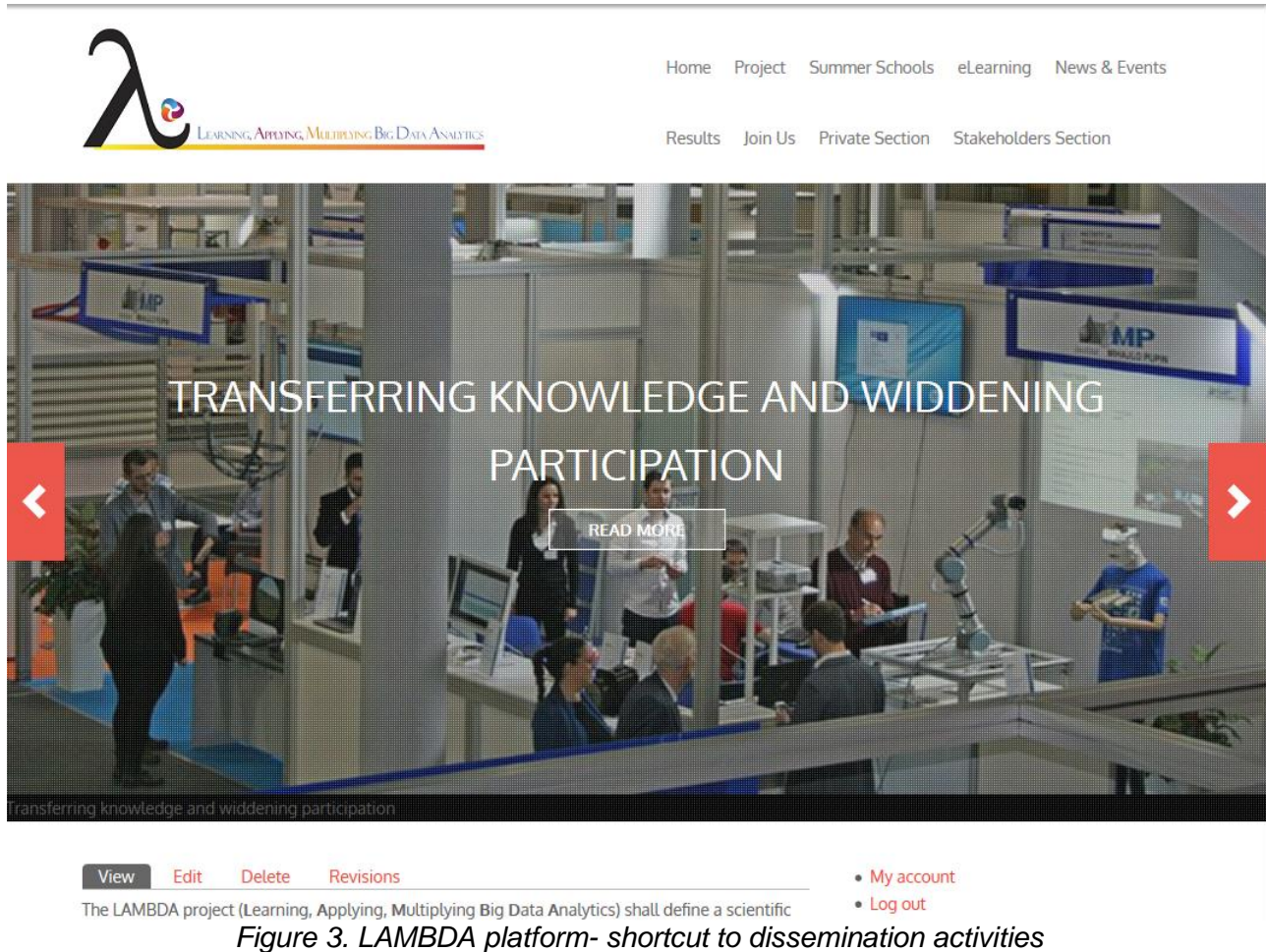


Figure 3. LAMBDA platform- shortcut to dissemination activities

1.2 Learning Big Data Analytics

One of the main objectives of the LAMBDA platform is to provide access to learning materials, see LAMBDA lectures⁵ and tools⁶.

⁵ <https://project-lambda.org/Knowledge-repository/Lectures>

⁶ <https://project-lambda.org/tools-for-experimentation>

[Home](#)Select MODULE Select Event

- [My account](#)
- [Log out](#)

Tools

- [Add content](#)

Module	Lecture	Presented at event	Contributed by	Available as
Artificial intelligence	Data for AI: Foresight	BDA School 2020	Fraunhofer	Video, PPT
Case Studies	Semantic information infrastructures from business information delivery to water management	BDA School 2020		Video
Case Studies	Soft computing for Transparent synthesis of Geo Big Data	BDA School 2020		Video, PPT
Case Studies	Chronorobotics - Spatio-temporal models for social	BDA School		Video

Figure 4. Platform – Link to LAMBDA Lectures

1.3 Applying Big Data Analytics

LAMBDA consortium will organize brainstorming sessions to discuss and critically analyze the state-of-the-art Big Data approaches for a wide range of societal challenges including energy efficiency, safety and security, smart cities, traffic management, e-Government, e-Environment, e-Health, etc.

LAMBDA researchers (professors, PhD students) will meet in small groups (in-person) and discuss solutions developed in previous projects for the real world Big Data Analytics scenarios. The output will be used to design new innovative products based on research and existing open-source tools.

See related projects:

- [Energy Management](#)
- [Safety and Security](#)
- [Environment and Resource Efficiency](#)
- [Inclusive societies and e-Government](#)

[Home](#) [Project](#) [Methodology](#) [eLearning](#) [News & Events](#) [Results](#) [Join Us](#)[Private Section](#) [Stakeholders Section](#) [Summer School](#) [Knowledge Repository](#)[Home](#) » [Applying Big Data Analytics](#)[View](#) [Edit](#) [Delete](#) [Revisions](#)

LAMBDA consortium will organize brainstorming sessions to discuss and critically analyze the state-of-the-art Big Data approaches for a wide range of societal challenges including energy efficiency, safety and security, smart cities, traffic management, e-Government, e-Environment, e-Health, etc.

LAMBDA researchers (professors, PhD students) will meet in small groups (in-person) and discuss solutions developed in previous projects for the real world Big Data Analytics scenarios. The output will be used to design new innovative products based on research and existing open-source tools.

- [My account](#)
- [Log out](#)

Tools

- [Add content](#)

Key Societal Challenges

Energy Management
Safety and Security
Environment and Resource Efficiency
Inclusive societies and e-Government

Figure 5. Platform – Link to Related Projects

1.4 Multiplying Big Data Analytics


← → ↻ <https://project-lambda.org/Multiplying> ☆ ⓘ ⓘ ⓘ | [Paused](#)

LAMBDA LEARNING, APPLYING, MULTIPLYING BIG DATA ANALYTICS

[Home](#) [Project](#) [Methodology](#) [eLearning](#) [News & Events](#) [Results](#) [Join Us](#)

[Home](#) » [Multiplying Big Data Analytics](#)

LAMBDA dissemination and exploitation activities are tailored to the needs of relevant stakeholders from the wider county (Serbia) and the region in order to facilitate the adoption of Big Data Analytics Best practice, as well as transfer knowledge about tools and standards to enable and empower stakeholders to access, explore and understand the opportunities present in the 'Big Data' field.



[Stakeholders Database](#)

Methodology
Learning Big Data Analytics
Applying Big Data Analytics
Multiplying Big Data Analytics

Funded by "Spreading Excellence and Widening Participation" Work Programme 2016-2017, GA No. 809965



Figure 6. Platform – Link to Stakeholders Database



LAMBDA dissemination and exploitation activities are tailored to the needs of relevant stakeholders from the widening county (Serbia) and the region in order to facilitate the adoption of Big Data Analytics Best practice, as well as transfer knowledge about tools and standards to enable and empower stakeholders to access, explore and understand the opportunities present in the 'Big Data' field. Link to [Stakeholders database](#).

1.5 Relation to other deliverables

This deliverable is related to

1. [Deliverable 1.7 Data Management Plan \(DMP\)](#) outlines the strategy for data management to be applied throughout the course of the LAMBDA project, as well as the actions that will be taken after the LAMBDA project has finished.
2. [Deliverable 3.1 The 'Trainers' Network' Infrastructure](#) that describes the private part of the LAMBDA platform, link to SlideWiki.org server and Knowledge repository for storing lectures and other learning materials for intra-consortium use only and for sharing with associated partners.
3. [Deliverable 5.1 Stakeholder Database](#) that describes the work carried out in the first six months of the LAMBDA project including the process of setting up and managing the stakeholder database as a part of the private section of the LAMBDA platform (based on the Drupal open-source CMS). Additionally it introduces the LAMBDA Network of Experts, established as a LinkedIn Group and the type of news shared within the group.



2. About the Implementation

Drupal is the most powerful of the platforms mentioned here and an ideal one for creating complex websites. However, it is also one of the most complex CMS. If a large website that processes lots of data is needed, then Drupal is the optimum choice. Often used to run university, media and government websites, it is a highly stable platform that can handle significant quantities of data much better than its competitors. It can also accommodate heavy traffic and be scaled up with little difficulty.

Drupal is also a highly versatile CMS with a huge number of modules (plugins) available to extend its functionality. Similarly, there are nearly 2,000 different themes to choose from, most of which can be customised to create stunning and unique websites. As it is an open source platform, these are constantly added to and updated.

After a thorough analysis of the possibilities for implementing the LAMBDA platform, we have found that Drupal Content Management System would be the most appropriate solution for the development of the Lambda portal due to the following:

1. **Advanced:** Drupal is technically advanced as compared to the other two and thus it provides some great features and functionality. It requires more technical expertise as well, but we have not considered that as the drawback but instead as a significant potential.
2. **Secure:** Drupal provides strong, enterprise-grade security to the website. Websites built with Drupal are significantly more secured as compared to the WordPress, which is why it is used in most commercial websites.
3. **Customization:** Drupal also have lots of themes and plugins, which makes it easily extendable and extremely versatile.
4. **Community:** Drupal is also an open source software having great community support.
5. **Speed:** Drupal is less resource-intensive and its pages typically load quicker and have faster response times than WordPress and Joomla.

2.1 Drupal Architecture

The architecture of Drupal CMS is truly modular and it consists of a few core modules and a plethora of plug-ins that can be switched on and off as required. For functionality that is missing a new plug-in can be developed. The core provides basic services which enable the modules to implement specific features as presented in the next figure.

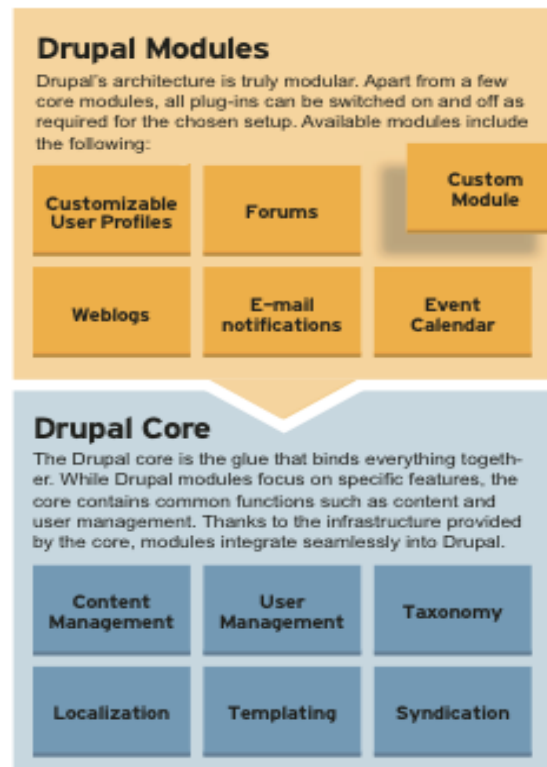


Figure 7. Modularity of Drupal architecture

The architecture is divided into several layers of abstraction which have shared responsibility. The layers are Data layer, Modules layer, Block and Menus layer, User permissions layer and Template layer as shown on the next figure.

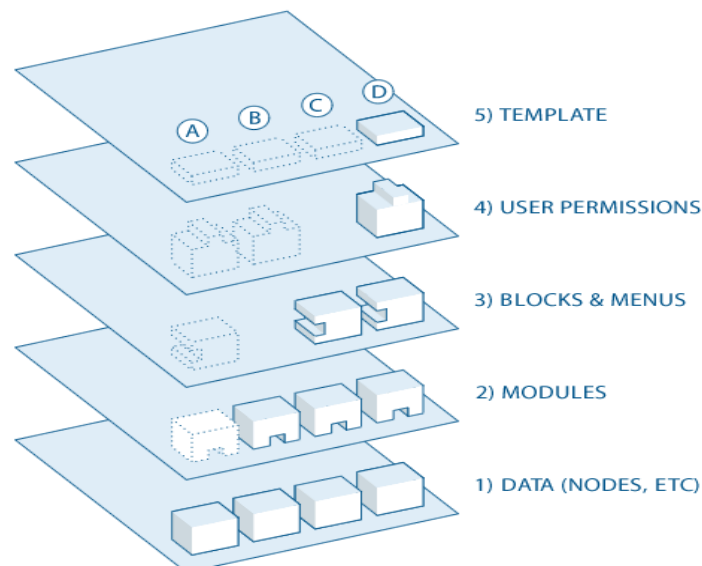
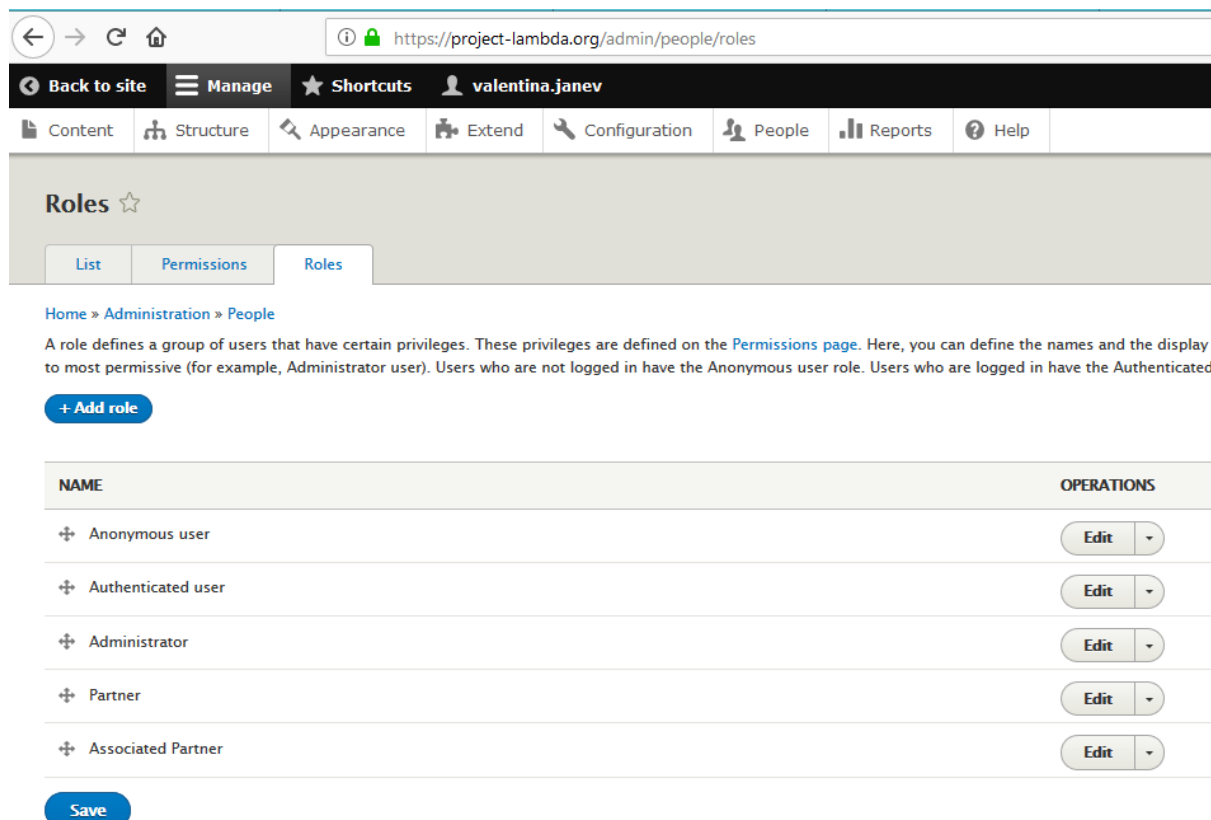


Figure 8. Drupal abstraction layers

2.2 User roles and permissions

The LAMBDA portal (public site) is a virtual open space which aims at promoting the activities of the consortium⁷ and the LAMBDA Network of experts⁸. The LAMBDA portal is based on Drupal, leading open-source content-management framework. The platform is maintained by the members of the team from the Institute Mihajlo Pupin, however each partner has a representative who is a responsible contact for the platform.



Home > Administration > People

A role defines a group of users that have certain privileges. These privileges are defined on the [Permissions](#) page. Here, you can define the names and the display s to most permissive (for example, Administrator user). Users who are not logged in have the Anonymous user role. Users who are logged in have the Authenticated

[+ Add role](#)

NAME	OPERATIONS
Anonymous user	Edit
Authenticated user	Edit
Administrator	Edit
Partner	Edit
Associated Partner	Edit

[Save](#)

Figure 9. Platform - User roles

The Drupal platform was configured for the needs of the future newcomers and professionals in the BDA domain. Currently, 3 different user roles have been defined:

1. *Partner*, full access to the private pages of the platform.
2. *Associated Partner*, full access to the Stakeholder database and contents in the Knowledge Repository.
3. *Administrator*, for managing the whole content management system.

Most of the contents, except the Virtual Marketplace, are public.

Note: Only users with **administrator** privileges can see the customization options presented in Figure 8.

⁷ <https://project-lambda.org/Partners>

⁸ <https://www.linkedin.com/groups/12129621/>



2.3 Overview of Contents – Public site

The main menu links to the following web pages:

- [Home](#)
- [Project](#)
 - [Partners](#)
 - [Advisory Board](#)
 - [Objectives](#)
 - [Methodology](#)
 - [Milestones](#)
 - [Action Plans](#)
 - [Promotional Material](#)
- Summer schools
 - [Big Data Analytics Summer School, Belgrade, Serbia, June 2021](#)
 - [Big Data Analytics Summer School, Belgrade, Serbia, June 2020](#)
 - [Big Data Analytics Summer School, Belgrade, Serbia, June 2019](#)
- E-learning possibilities
 - [Lectures](#)
 - [Big Data Tools](#)
 - [Scenarios](#)
 - [Link to SlideWiki](#)
- News
 - [Forthcoming events](#)
 - [Past events](#)
 - [Webinars](#)
 - [Research-Industry forums](#)
 - [Networking with School Teachers](#)
 - [Staff exchanges](#)
 - [Consortium meetings](#)
- [Results](#) - results of the project
 - [Deliverables](#)
 - [Publications](#)
 - [Preceding publications](#)
 - [Awards](#)
 - [PhD defence events](#)
 - [Related Projects](#)

2.4 Platform Information Architecture

The platform is a set of web pages that could contain many types of content⁹, such as informational pages (articles), news items, company pages, etc.

⁹ <https://danube-goes-circular.eu/#overlay=%3Fq%3Dadmin%252Fstructure%252Ftypes>



Browser address bar: <https://project-lambda.org/ad> 90%

Navigation bar: Back to site, Manage, Shortcuts, valentina.janev

Content types

Home » Administration » Structure

+ Add content type

NAME	DESCRIPTION	OPERATIONS
Article	Use <i>articles</i> for time-sensitive content like news, press releases or blog posts.	Manage fields
Basic page	Use <i>basic pages</i> for your static content, such as an 'About us' page.	Manage fields
Course		Manage fields
Deliverable		Manage fields
Event		Manage fields
News		Manage fields
Partner		Manage fields
Private Pages		Manage fields
Stakeholder Profile		Manage fields
Stakeholders Pages		Manage fields

Figure 10. Platform - content types

Browser address bar: https://project-lambda.org/admin/structure/types/manage/stakeholder_profile/fields

Navigation bar: Back to site, Manage, Shortcuts, valentina.janev

Manage fields

Home » Administration » Structure » Content types » Company Profile

+ Add field

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Attachments	field_attachment	File	Edit
Body	body	Text (formatted, long, with summary)	Edit
Contact email	field_contact_email	Email	Edit
Country	field_country	Entity reference	Edit
Logo	field_logo	Image	Edit
Main contact	field_main_contact	Entity reference	Edit
Type of organization	field_type_of_organization	Entity reference	Edit
Web site	field_web_site	Link	Edit

Figure 11. Platform - content type – R&D organization

Example: In order to structure the information, each content type is described with a set of attributes, for instance, R&D organization is described with the following fields, see also Figure



3. Data Protection Issues

The consortium members agree to carry out this project in accordance with Data Protection Regulations and will comply with data protection acts, directives, and opinions, both at European and at National level, including:

- the General Data Protection Regulation 2016/679;
- the Charter of Fundamental Rights of the EU, specifically the article concerning the protection of personal data;
- and the opinions of the European Group on Ethics in Science and New Technologies in their report “Citizens Rights and New Technologies: A European Challenge” on the Charter on Fundamental Rights related to technological innovation.

During the course of this project, consortium members will take all the necessary steps to ensure that all participants understand the objectives of this project and the processes employed during LAMBDA to achieve them. All beneficiaries will follow local and national regulations regarding data protection and, in the event that the handling of potentially sensitive data becomes a requirement, they will seek to obtain approval from the relevant local/national authority in charge of data protection.

For the need of the project two public pages have been created. At registration, the LAMBDA user has to give consent to

- the Terms of Use
- the LAMBDA Privacy Policy

3.1 Terms of Use

The **Terms of Use** document was defined by the PUPIN Legal Department and controlled by other LAMBDA partners from Germany and UK. The text of the document is included in this documentation.

This is a human-readable **summary** of the Terms of Use for LAMBDA Platform.

Disclaimer: This summary is not a legal document. It is simply a handy reference for understanding the full terms. Think of it as the user-friendly interface to the legal language of our Terms of Use. By registering with the LAMBDA platform you will give consent for your data to be stored in LAMBDA database and processed for the purposes of the LAMBDA project. Please, visit also the [Privacy Policy](#) page.

Registered users are free to:

- **Create** a profile of their company and **Use** the possibilities of the **LAMBDA Tools** for networking.
- Re-use the **LAMBDA Learning materials**.

Under the following conditions

- **Responsibility** – You take responsibility for your edits (since we only *host* your content).
- **Civility** – You support a civil environment and do not harass other users.
- **Lawful behaviour** – You do not violate copyright or other laws.
- **No Harm** – You do not harm our technology infrastructure.
- **Terms of Use and Policies** – You adhere to the Terms of Use and to the applicable community policies when you visit our sites or participate in our communities.

With the understanding that

- This service may contain **translations** powered by third party services. Selecting to use the translate service will result in data being sent to third-party services. We disclaims all warranties related to the



translations, expressed or implied, including any warranties of accuracy, reliability, and any implied warranties of merchantability, fitness for a particular purpose and noninfringement.

- **You license freely your contributions;** the contents (images) you upload will be in the public domain.

Refraining from Certain Activities

We reserve the rights to remove content that we consider to be inappropriate, offensive or spam. Certain activities, whether legal or illegal, may be harmful to other users and violate our rules, and some activities may also subject you to liability. Therefore, for your own protection and for that of other users, you may not engage in such activities on our sites.

These activities include:

Harassing and Abusing Others

- Engaging in harassment, threats, stalking, spamming, or vandalism; and
- Transmitting chain mail, junk mail, or spam to other users.

Violating the Privacy of Others

- Infringing the privacy rights of others under the EU General Data Protection Regulation (GDPR) or other applicable laws (which may include the laws where you live or where you view or edit content); The EU GDPR Regulation aims to strengthen the rights of individuals to manage personal data held on them.
- Soliciting personally identifiable information for purposes of harassment, exploitation, violation of privacy, or any promotional or commercial purpose not explicitly approved by the project; and
- Soliciting personally identifiable information from anyone under the age of 18 for an illegal purpose or violating any applicable law regarding the health or well-being of minors.

Engaging in False Statements, Impersonation, or Fraud

- Intentionally or knowingly posting content that constitutes libel or defamation;
- With the intent to deceive, posting content that is false or inaccurate;
- Attempting to impersonate another user or individual, misrepresenting your affiliation with any individual or entity, or using the username of another user with the intent to deceive; and
- Engaging in fraud.

Committing Infringement

- Infringing copyrights, trademarks, patents, or other proprietary rights under applicable law.

Misusing Our Services for Other Illegal Purposes

- Posting child pornography or any other content that violates applicable law concerning child pornography;
- Posting or trafficking in obscene material that is unlawful under applicable law; and
- Using the services in a manner that is inconsistent with applicable law.

Engaging in Disruptive and Illegal Misuse of Facilities

- Posting or distributing content that contains any viruses, malware, worms, Trojan horses, malicious code, or other device that could harm our technical infrastructure or system or that of our users;
- Engaging in automated uses of the site that are abusive or disruptive of the services and have not been approved by the project community;
- Disrupting the services by placing an undue burden on a project website or the networks or servers connected with a project website;
- Disrupting the services by inundating any of the project websites with communications or other traffic



- that suggests no serious intent to use the project website for its stated purpose;
- Knowingly accessing, tampering with, or using any of our non-public areas in our computer systems without authorization; and
 - Probing, scanning, or testing the vulnerability of any of our technical systems or networks unless all the following conditions are met:
 - such actions do not unduly abuse or disrupt our technical systems or networks;
 - such actions are not for personal gain (except for credit for your work);
 - you report any vulnerabilities to project's developers (or fix it yourself); and
 - you do not undertake such actions with malicious or destructive intent.

3.2 Privacy Policy

This Policy (together with our [Terms Of Use](#) and any other documents referred to on it) sets out the basis on which any personal data we collect from you, or that you provide to us, will be processed by us. Please read the following carefully to understand our views and practices regarding your personal data and how we will treat it.

Information We May Collect From You

We may collect and process **Information/Contents you give us** or you upload to the platform. You may give us information about you by filling in forms on our site. This includes information you provide when you register to use our site, subscribe to our service, or participate in Ideas & Discussions section on the private part of the portal. The information you give us may include your name, e-mail address, images of the material to be promoted via the LAMBDA Network. Your personal data and all contents uploaded by you will be stored in the LAMBDA database maintained by the Institute Mihajlo Pupin.

Uses Made of The Information

We use information held about you in the following ways:

- to carry out our obligations arising from the LAMBDA project;
- to provide you with information about the LAMBDA project;
- to allow you to participate in interactive features of our service, when you choose to do so; to provide you, or permit other registered users to receive information as a result of subscription to the LAMBDA content and/or match-making functionalities of the LAMBDA platform.

Your Rights

At any time, you have the right to request from the administrator: the access to your personal data, change, deletion or restriction of data processing and data transfer rights, or to file an objection to data processing. You also have the right to withdraw your consent and the right to receive a copy of your personal data that are being processed. You can accomplish all of these rights by sending a request to the data administrator via email address: dejan.paunovic@pupin.rs.

You have the right to ask us not to process your personal data for marketing purposes. We will usually inform you (before collecting your data) if we intend to use your data for such purposes. You have the possibility to manage your User profile and delete your profile at any time.

Our site may, from time to time, contain links to and from the websites of our partner networks, advertisers and affiliates. If you follow a link to any of these websites, please note that these websites have their own privacy policies and that we do not accept any responsibility or liability for these policies. Please check these policies before you submit any personal data to these websites.

In the case of unauthorized data processing, you have all rights from the General Data Protection Regulation, GDPR, (EU citizens) and Law on personal data protection (citizens of the Republic of Serbia), whose application is supervised by the Commissioner for information of public importance and personal data protection (via email: office@poverenik.rs).

Changes to our Privacy Policy



Any changes we may make to our privacy policy in the future will be posted on this page and, where appropriate, notified to you by e-mail. Please check back frequently to see any updates or changes to our privacy policy.

Contact

Questions, comments and requests regarding this privacy policy are welcomed and should be addressed to info@pupin.rs

4. Conclusion

Task 1.2 e-collaboration tool establishment and maintenance [M01-M30I] include activities related to

- the launch of the LAMBDA Website (month 1),
- the establishment and maintenance intra-consortium e-collaboration tool (using Drupal open-source CMS).
- sustaining project activities for at least five years (5) after the end of the project as part of the PUPIN TTO activities.

This deliverable briefly summarizes the activities related to the development of the platform and serves as a quick reference guide to functionalities currently available on the public side of the platform by month thirty six.