



RURAL 3.0

Report

Design of the Rural 3.0 Hub

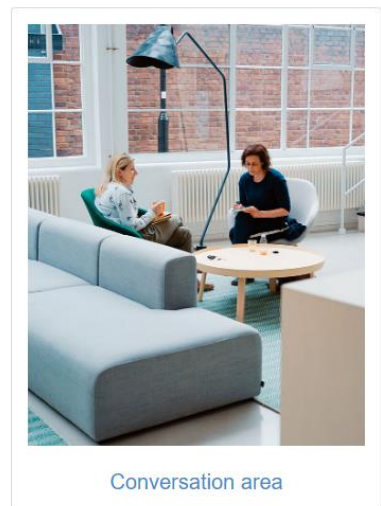
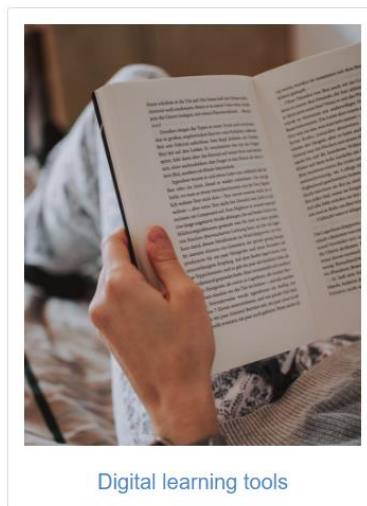
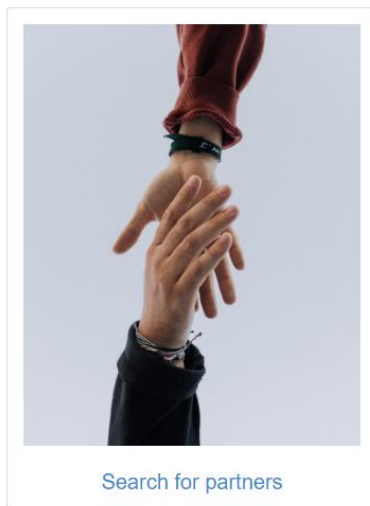
This report elaborates on the design of the Rural 3.0 virtual collaborative hub, that will be implemented on DATE. The hub will bridge the existing gap in the rural networks and aims to connect rural entities with higher education institutes to improve rural development through service learning courses. The hub connects students, faculty and local communities.

This Hub will allow all registered users to list their needs, describe their projects for potential collaborators, and offer their expertise. They will be able to browse the database of collaborators and the database of projects with a specific set of keywords. The content of the Hub will be dynamically updatable by partners and registered users.

The backend of our Hub is implemented in the ASP.Net MVC technology and written in C# programming language. It uses SQL Server database and Entity Framework for its access. Graphical user interface is rendered using Razor views and partially uses Bootstrap, JQuery and Toastr frameworks. It can be accessed on the following address: <http://hub.rural.ffzg.unizg.hr>.



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Figure 1: Home page of the hub

The Hub contains 5 parts:

1. Project area
2. Matchmaking domain



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3. Open conversation areas
4. Digital learning tools
5. International module on rural Service-Learning and Social Entrepreneurship

Project area presents information about Rural 3.0 project and its progress. It contains basic information about partners, methodology and impact, useful and relevant links, as well as project mission and vision. It is regularly updated with project outputs and publications, as specified in the project application. The project area is also accessible directly on the following address: <https://rural.ffzg.unizg.hr>.

Matchmaking domain serves as a place where rural organizations seek solutions, knowledge and skills with universities across different disciplines. The domain remains open for registration for both rural organizations and academic experts, that can join and collaborate, whether offering their expertise to an existing project, browse the repository of best practices or find the expert in their field.

The users are provided with keywords to identify *Field(s) of education of students*, which is useful for academic teachers offering service-learning to the local community, but also for the community organizations to find the academic partner that could respond to their needs in the most professional way.

The following Erasmus+ ISCED fields of education can be used as matchmaking keywords:

Accounting and taxation	Database and network design and administration	Fisheries
Architecture and town planning	Dental studies	Food processing
Audio-visual techniques and media production	Domestic services	Forestry
Biochemistry	Earth sciences	Hair and beauty services
Biology	Economics	Handicrafts
Building and civil engineering	Education science	History and archaeology
Business administration	Electricity and energy	Horticulture
Chemical engineering and processes	Electronics and automation	Hotel, restaurants and catering
Chemistry	Environmental protection technology	Journalism and reporting
Community sanitation	Environmental sciences	Language acquisition
Computer use	Fashion, interior and industrial design	Law
Crop and livestock production	Finance, banking and insurance	Library, information and archival studies
	Fine arts	Literature and linguistics
		Management and administration



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Marketing and advertising	Occupational health and safety	Statistics
Materials (glass, paper, plastic and wood)	Pharmacy	Teacher training with subject specialisation
Mathematics	Philosophy and ethics	Teacher training without subject specialisation
Mechanics and metal trades	Physics	Textiles (clothes, footwear and leather)
Medical diagnostic and treatment technology	Political sciences and civics	Therapy and rehabilitation
Medicine	Protection of persons and property	Traditional & complementary medicine & therapy
Military and defence	Psychology	Training for pre-school teachers
Mining and extraction	Religion and theology	Transport services
Motor vehicles, ships and aircraft	Secretarial and office work	Travel, tourism and leisure
Music and performing arts	Sociology and cultural studies	Veterinary
Natural environments and wildlife	Software & applications development and analysis	Wholesale and retail sales
Nursing and midwifery	Sports	Work skills

Furthermore, users of the **Matchmaking domain** can use the keywords that represent the *Focus area(s) of the rural development* that they would like to work on in rural service-learning. These areas are defined by European Network for Rural Development (ENRD).

1A: Innovation & cooperation	4C: Soil erosion & soil management
1B: Links with research & innovation	5A: Water use efficiency
1C: Lifelong learning & vocational training	5B: Energy use efficiency
2A: Farm's performance, restructuring & modernisation	5C: Renewable sources & waste management
2B: Entry of skilled/younger farmers	5E: Carbon conservation & sequestration
3A: Agri-food chain integration & quality	6A: Diversification & job creation
4A: Biodiversity restoration, preservation & enhancement	6B: Local development
4B: Water management	6C: Information & communication technologies (ICT)



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Also, users can make their search for partners more specific and use the keywords that represent the *Rural development priorities* that they would like to contribute to through university-community collaboration. These priorities (RDP measures) are also defined by ENRD.

M01: Knowledge transfer and information actions

M02: Consultancy (Advisory services, farm management and farm relief services)

M03: Quality schemes for agricultural products and foodstuffs

M04: Investments in physical assets

M05: Restoring agricultural production potential damaged by natural disasters and catastrophic events and introduction of appropriate prevention actions

M06: Farm and business development

M07: Basic services and village renewal in rural areas

M08: Investments in forest area development and improvement of the viability of forests

M09: Setting up of producer groups and organisations

M10: Agri-environment-climate

M11: Organic farming

M12: Natura 2000 and Water Framework Directive payments

M13: Payments to areas facing natural or other specific constraints

M14: Animal welfare

M15: Forest-environmental and climatic services and forest conservation

M16: Co-operation

M17: Risk management

M18: Financing of complementary national direct payments

M19: Support for LEADER local development (CLLD – community led local development)

M20: Technical assistance

Finally, users can choose the *Domain(s)* that they would like to contribute to through university-community collaboration.

Elderly	Product quality	Rural SMEs
Market development	Protected areas	Short supply chains & local markets
Migrants	Public goods	Smart Villages
Mountain area	Renewable energy	Social inclusion
Natural resource	Renewables	Social services
Nature conservation	Risk management	Soil management
Networking	Rural business	Stakeholder involvement
Organic farming	Rural proofing	Sustainability
Producer groups	Rural services	



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Tourism

Water management

Young farmers

Vocational training &
skills acquisition

Women

Youth

The matchmaking algorithm determines a set of common keywords between two parties, for example between an academic expert and a rural organisation member. If their intersection contains a requested keyword, the observed pair is considered for further evaluation, that includes matching based on their name or country. If both matchmaking steps are successful, the pair is added in a result set and returned to the user.

Open conversation areas will be implemented as a chat or forum and will provide easier and real-time communication between experts and rural organizations.

Digital learning tools are part of the academic module that refers to courses, videos, tutorials, and best practices in service-learning and social entrepreneurship, online World Cafe and other resources used by educators and community members.

These are currently being developed and should enable the development of the innovative multinational framework. **MOOC** is also implemented as a course within the academic module and is currently being developed.

Courses and MOOC reside on our Moodle Learning Management System.

The following courses are currently available through open guest access in Moodle:

1. Management of Communication Projects
Teachers: Auksė Balčytienė and Natalija Mažeikienė
2. Rural Service-Learning
Teachers: Pilar Aramburuzabala, Charo Cerrillo and Paula Lázaro
3. Service-Learning: Building bridges & Transforming Realities in Rural Community
Teachers: Linda Saraiva, Anabela Moura, António Cardoso, Joana Padrão Almeida, Carlos Almeida and Manuela Cachadinha
4. Engaging with rural communities: students' democratic and transversal competences at stake
Teachers: Cinzia Albanesi, Irene Barbieri and Antonella Guarino
5. Learning by Doing: Consulting to Social Entrepreneurs
Teachers: Lucas Meijs and Philine van Overbeeke
6. Urban and Rural Service Learning
Teacher: Nives Mikelić Preradović
7. Rural Mobility
Teacher: Wolfgang Stark
8. Art & Diversity
Teachers: Rolf Laven, Ingrid Salzmann-Pfleger, Alfred Strigl and Wolfgang Weinlich

Moodle is installed on the project web server and can be accessed on the following address:
<http://learn.rural.ffzg.unizg.hr>.



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English (en) Log In

Rural 3.0 Academic Module
Service-Learning for the Rural development

RURAL 3.0

RURAL 3.0 MOOC
Rural Service Learning MOOC
Course >

VYTAUTO DIDŽIOJO UNIVERSITETAS
M C M X X I I
Management of Communication Projects (Komun...
Course >

UAM
Universidad Autónoma de Madrid
Rural Service-Learning
Course >

Escola Superior de Educação
Instituto Politécnico de Viana do Castelo
Service-Learning: Building bridges & Transforming...
Course >

ALMA MATER STUDIORUM UNIVERSITA DI BOLOGNA
Engaging with rural communities: students' demo...
Course >

RSM Erasmus
Learning by Doing: Consulting to Social Entrepren...
Course >

Figure 2: Moodle courses

The Hub is currently in its beta phase and provides only a part of its target functionality. The database containing information about our users is optimized so that it supports complex operations like matchmaking using domains, focus areas, RDP measures and fields of education and training. The Hub is prepared to be fully translated to English and to languages of all project partners. It integrates project area web site and learning management system.

The functionality that must be implemented until the final phase includes:

- login and working with user accounts
- matchmaking and search tools
- translation
- performance indicators
- accessing system data