Rural 3.0: A Case Study of University-**Community Engagement Through** Rural Service-Learning in Croatia

Nives Mikelić Preradović, Marijeta Čalić, and Philine S. M. van Overbeeke

Abstract

As part of the project Rural 3.0: Service-Learning for the Rural Development—RURASL (https://rural.ffzg.unizg.hr/), to ascertain the needs and gaps relevant to implementing service-learning in rural Croatia, we surveyed three target groups: university students, rural community organizations, and potential service-learning beneficiaries. We discovered three main challenges: insufficient human capacities, attributable mostly to difficulty in obtaining funding, which hinders development and implementation of new service-learning projects. Croatian local action groups (LAGs) and rural NGOs were found supportive of rural service-learning. The older population recognizes a great opportunity to get support for basic living needs, and the younger population shows a great interest in engaging university students in improving the tourist and cultural sector. Higher education institutions' implementation of innovative service-learning will improve the quality of education for sustainable development and promote university-community partnerships in rural areas.

Keywords: higher education, local action groups, rural service-learning, RURASL, rural development

Netherlands, Spain, Lithuania, Croatia, Italy, and Germany) with expertise in servicelearning and social entrepreneurship and eight community organizations: six local action groups (LAGs) that deliver the EU LEADER program (a European Union initiative supporting rural development projects)

his article describes the ear- of the new academic module. LAGs in this ly-stage project Rural 3.0: alliance function as multistakeholder orga-Service-Learning for the Rural nizations encompassing the private, public, Development—RURASL (https:// and civil sectors; they aim to support dirural.ffzg.unizg.hr/) and its early versification of entrepreneurial activities in implementation in one of the project part- rural areas, and to improve quality of life ner countries (Croatia). The project repre- and biodiversity protection. These grasssents a knowledge alliance between eight roots organizations work with the rural higher education institutions from their re- population on developing innovative and spective EU countries (Portugal, Austria, the environmentally benevolent entrepreneurial activities. Finally, NGO foundations in this alliance will share their experience and expertise in preparing action plans for rural development that includes many stakeholders: public administrations, village councils, politicians, residents, and civil societies.

One of the main goals of the RURASL projand two NGO foundations. Together with ect is to help develop the core skills and the community partners, higher education entrepreneurial capabilities of the rural institutions in this alliance will develop new community (for which such development is rural service-learning and social entrepre- not easily accessible). The other important neurship courses and guide their students goal is to improve the quality of education during the implementation and evaluation for sustainable development and promote university-community partnerships in rural lenges. They offer limited opportunities for areas through service-learning. Moreover, networking and collaboration, resulting in the project aims to establish a Virtual Hub labor forces with low skill levels, low skill with a broad network of academic and rural diversity, and a structural mismatch with stakeholders that will offer teaching and the local labor market caused by outward learning content (dedicated transnational migration of professionals, the young, and academic modules with courses on service- the well-educated ("Daring to succeed," learning and social entrepreneurship, com- 2011). Moreover, rural areas in the EU are munity training materials, and digital col- facing limited access to health, educational, laborative and learning tools) and promote and governmental services (Zavratnik et al., interactions between universities and rural 2019). community stakeholders.

creation of an international university-rural community alliance that promotes educarural areas, bringing higher education institutions and rural community enterprises together to work on the common issue development of the necessary knowledge and skills needed to make a change in the rural communities. Other benefits include strengthening the skills and the innovative capacity of adult rural social entrepreneurs, providing practical service-learning and social entrepreneurship experiences to university students in specific rural settings, and developing core skills and rural social entrepreneurship among the high potential rural community in an ecologically sustainable and socially sound way.

In this article we present the initial results of the project in one of the partner countries (Croatia), where a common body of knowledge of all stakeholders (university students, rural community organizations and their beneficiaries, and university instructors) is created based on a detailed needs analysis.

Context of the Project

Rural communities constitute over 91% of the territory of the European Union and are improvement of rural communities. home to more than 60% of the population. More than 112 million people inhabit rural territory (Directorate for Communication, 2017). By 2030 the EU total population is projected to increase by 2%, and the rural population is expected to rise by 0.6% with significant (>10%) increases in rural population around most capitals (Bucharest, Budapest, Dublin, Madrid, Prague, Rome, Stockholm, Tallinn, Vienna, Warsaw, etc.), driven by the lower cost of living near major labor markets (Perpina Castillo et al., 2018).

Rural areas in Croatia follow this trend. The main benefits of the project include the According to the Eurostat urban/rural typology, the majority of the population in Croatia (79.1%) live in predominantly rural tion and entrepreneurship of people in and intermediate rural regions (Eurostat, 2018). The lack of stable income (only 5.1% of the total number of employees work in the countryside), high average age, low level of education, neglect of architectural heritage, inadequate provision of basic services and infrastructure, and disorderly property management result in neglect of rural settlements and the loss of the younger and able-bodied population (Ministry of Agriculture, 2019). These combined factors pose a serious threat to the further development and even survival of the rural areas.

> It is necessary to address these challenges through interdisciplinary perspectives, engaging all relevant stakeholders in a variety of contexts. Zavratnik et al. (2019) advocated the creation of promising conditions for entrepreneurship, equal opportunities for people living in rural areas, and making rural communities attractive to live in. LAG initiatives in Croatia carried out as part of the LEADER program advance the development of rural areas with supporting projects initiated at the local level to revitalize the rural environment and create jobs. Unfortunately, university students are not yet actively encouraged to use their knowledge and skills to contribute to the

In their paper about challenges of rural America, Brown and Swanson (2003) pointed out the falsity of widespread beliefs that "rural" equals "agricultural" or that rural social relationships differ significantly from those in urban society. Today, rural communities are decreasingly reliant on agricultural industries and more interconnected through access to technology and social media (Goodman, 2014). The same applies to rural areas in the EU, although the EU member states differ in their so-Rural areas in the EU face multiple chal- cioeconomic, demographic, landscape, and climate characteristics.

Theoretical Framing

The RURASL Knowledge Alliance aims to set a framework for an integrated transnational approach of academic teaching and learning that contributes to the development of rural residents, meeting their needs through an innovative methodology. The alliance builds on knowledge of rural service-learning models and infrastructures to support their implementation through the active collaboration between higher education institutions and community organizations, among which the most numerous are LAGs or rural NGOs.

Service-learning is a pedagogical approach that offers students academic credit for learning derived from active engagement within the local community and work on real-world problems (Mikelić Preradović, 2015). In mission statements and university strategic plans, it is recognized as a tool that increases the effectiveness of education for sustainable development and the promotion of university-community partnerships (Bringle & Hatcher, 2002).

Service-learning strengthens learning; facilitates the development of professional competencies; and improves motivation, critical thinking, social responsibility, and active citizenship (Billig et al., 2005). Students who pursue service-learning "gain higher levels of problem-solving skills, critical and creative thinking, communication skills, teamwork, interpersonal and intercultural skills, leadership as well as academic skills and personal and civic values" (Astin et al., 2000; Carrington & b. Selva, 2010; Harris et al., 2010; Milne et al., 2008; Prentice & Robinson, 2010; Rochford, 2014, cited in Josić & Mikelić Preradović, 2019, p. 167). Furthermore, skills and innovation gained from partnerships between C. rural partners and universities foster innovative development in rural areas in need of human resources and entrepreneurial skills and could provide support for rural beneficiaries (Sanchez Ramirez, 2011). Research (Stoecker & Schmidt, 2017) suggests that rural communities lack access to servicelearning and that rural issues are rarely addressed in contemporary service-learning (Campus Compact, 2008). Universities can play a powerful role in rural communi- Informed consent was established for all

ing learning experiences and opportunities through rural service-learning. Moreover, rural service-learning implementation shows the potential to respond to the needs of rural areas and work with them to develop sustainable economic, social, and environmental solutions to their changing landscape (Buchanan et al., 2017; Maakrun, 2016; Stoecker & Schmidt, 2017).

In Croatia, service-learning is gaining popularity only within urban higher education institutions and is completely absent in rural areas. The explanation for this difference lies partly in an enduring communist heritage and historical legacy, along with special features and trajectories related to citizenship, civil societies, and civic participation (Mikelić Preradović & Mažeikienė, 2019).

In their paper on the importance of social innovation for rural areas, Tirziu and Vrabie (2017) exposed five fields of social innovation that can contribute the most: new services in rural areas, new education courses, ecological farming, formation of local action groups, and electronic and social innovations. The RURASL project focuses on two of these areas: new education courses and collaboration of universities with LAGs.

Materials and Methods

To identify the needs and gaps of the main target groups in Croatia, three different surveys were conducted. These surveys aimed to identify

- the needs of community organizations (LAGs and rural NGOs);
- the needs of the beneficiaries of LAG 5 (e.g., local farmers, unemployed youth, retirees, rural homemakers, rural entrepreneurs, and social businesses); and
- the needs and competencies of university students.

The list of questions was created to be used as an online survey or as an interview guide. The online survey is part of the Virtual Hub where community groups and higher education institutions can find a collaborator for service-learning and/or social entrepreneurship (http://hub.rural.ffzg.hr/Survey/ LAG).

ties (Watson et al., 1997), addressing rural respondents, answering questions was volneeds and providing students with engag- untary, and participants could opt out of the

questionnaires and interviews at any point. IRB approval for the needs of community organizations (LAGs and rural NGOs) was not necessary, due to the nature of the interaction with participants (expert interviews, soliciting professional experiential information rather than personal information). IRB approval for the needs of university students was secured through the Ethics committee of the Faculty of Humanities and Social Sciences, as described in the paper Domains of Rural Development that analyzes those needs (Josić & Mikelić Preradović, 2019). IRB approval for the needs of the beneficiaries of LAG 5 was not necessary, as this was not a research project but a service-learning educational program conducted following institutional procedures for quality improvement projects.

Needs of Community Organizations

The questionnaire about the needs of community organizations (LAGs and rural NGOs) was completed online, resulting in 20 responses. LAGs and rural NGOs were asked for general information about their organizations, such as the type of organization and target group. They were asked to describe their biggest challenges for the coming years and how students could help to address them. As described below, they had to choose their organization's rural development focus area, domain, rural development priorities that they would like to support through university-community collaboration, as well as study fields of university students that would be helpful to cope with their challenges.

Rural Development Focus Areas Defined by the European Network for Rural Development (ENRD)

- Innovation and cooperation
- Links with research and innovation
- · Lifelong learning and vocational training
- · Farm's performance, restructuring, and modernization
- Entry of skilled/younger farmers
- · Agri-food chain integration and quality
- · Biodiversity restoration, preservation, & enhancement
- Water management
- Soil erosion and soil management
- Water use efficiency
- Energy use efficiency

- Renewable sources and waste management
- Carbon conservation and sequestra-
- Diversification & job creation
- Local development
- Information and communication technologies

- Elderly
- Market development
- Migrants
- · Mountain area
- Natural resource
- Nature conservation
- Networking
- Organic farming
- Producer groups
- Product quality
- · Protected areas
- Public goods
- Renewable energy
- Renewables
- Risk management
- Rural business
- · Rural proofing
- Rural services
- Rural SMEs
- Short supply chains & local markets
- **Smart Villages**
- Social inclusion
- · Social services
- Soil management
- Stakeholder involvement
- Sustainability
- Tourism
- Vocational training and skills acquisition
- Water management
- Women
- Young Farmers
- Youth

Rural Development Priorities Defined by the ENRD

- · Knowledge transfer and information actions
- Consultancy (advisory services, farm management and farm relief services)

- · Quality schemes for agricultural products and foodstuffs
- Investments in physical assets
- Restoring agricultural production potential damaged by natural disasters and catastrophic events and introduction of appropriate prevention actions
- · Farm and business development
- Basic services and village renewal in rural areas
- · Investments in forest area development and improvement of the viability of forests
- · Setting up of producer groups and organizations
- · Agri-environment-climate
- Organic farming
- · Natura 2000 and Water Framework Directive payments
- · Payments to areas facing natural or other specific constraints
- · Animal welfare
- Forest–environmental and climatic services and forest conservation
- Cooperation
- Risk management
- · Financing of complementary national direct payments
- · Support for LEADER local development (CLLD—community-led local development)
- · Technical assistance

Study Fields Represented in More Than 10% of the LAGs/Rural NGOs Surveyed

to cope with LAGs' challenges are listed in alphabetical order and not in order of importance.

- · Accounting and taxation
- · Architecture and town planning
- · Audiovisual techniques and media production
- Biochemistry
- Biology
- · Business administration
- · Computer use
- · Database and network design and administration
- Economics
- · Education science
- Electronics and automation

- Environmental protection technol-
- · Environmental sciences
- Fashion, interior, and industrial
- Finance, banking, and insurance
- **Fisheries**
- Food processing
- **Forestry**
- Handicrafts
- · History and archaeology
- Horticulture
- Hotels, restaurants, and catering
- · Journalism and reporting
- · Language acquisition
- Law
- Management and administration
- Marketing and advertising
- Mathematics
- · Natural environments and wildlife
- · Political sciences and civics
- · Secretarial and office work
- · Sociology and cultural studies
- · Software and applications development and analysis
- Sports
- · Teacher training with subject specialization
- Travel, tourism, and leisure
- Veterinary
- · Work skills

Needs of Rural Beneficiaries

The survey of needs among rural beneficia-The list of study fields that would be helpful ries was conducted as face-to-face interviews in the activity area of LAG 5. The LAG 5 area belongs to the southernmost region of Croatia, Dubrovnik-Neretva County, and includes the Pelješac peninsula and three islands: Korčula, Mljet, and Lastovo. Most of the area is coastal, and all parts have the same or very similar geomorphological and climatic characteristics as well as economic, social, cultural, and historical features. The LAG 5 area has a land surface of 790.71 km with 25,203 inhabitants (Figure 1).

> Apart from the general information about themselves, their neighborhood, and engagement in the local community, the rural residents were asked to define ways in which LAG 5 can help improve their living and ways in which university students can help them satisfy their needs.

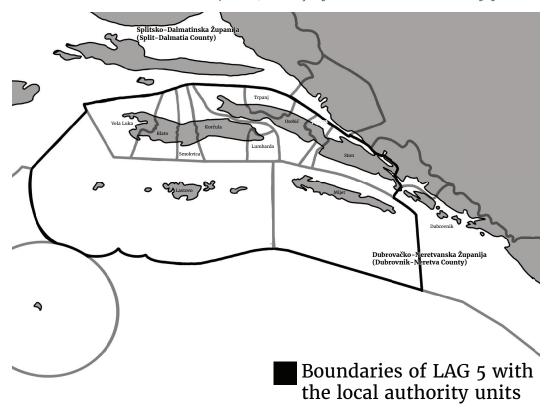


Figure 1. Area of LAG 5

Data collection resulted in both quantitative and qualitative data. Through face-to-face interviews with rural beneficiaries of LAG 5, responses from 32 participants were collected. Most of them were local farmers (15), homemakers (5), and tourist workers (4). The results of these interviews were merged to summarize and systematize the stakeholder needs.

Needs and Competencies of **University Students**

A survey of students' needs and competencies was conducted in four Croatian public universities: University of Zagreb (the largest public university in Croatia), University of Zadar, University of Osijek, LAGs in Croatia face three main challenges: and University of Rijeka. A questionnaire for higher education institution students was based on the Entrecomp conceptual model (Bacigalupo et al., 2016) and aimed to research the attitudes of students toward study, the level and frequency of students' Mikelić Preradović, 2019).

Results and Discussion

The implementation of the LEADER approach in the Republic of Croatia through LAGs is an important instrument that can contribute to rural areas' development. LAGs and rural NGOs covered by this research come from different parts of the Republic of Croatia and have different experiences in cooperation with higher education institutions This cooperation is based mostly on the implementation of joint projects from different fields of applied science where LAGs provide local support for higher education institutions. Many LAGs carry out education or work assignments at local primary or secondary schools.

(1) insufficient human capacities, which are mostly attributable to (2) difficulty in obtaining funding, leading to (3) the suboptimal development and implementation of new service-learning projects. Croatian acquiring entrepreneurial skills during their LAGs have shown interest in servicelearning where students could participate in community engagement, and the relevant day-to-day activities, from general affairs set of skills required to implement the to the preparation and implementation of change in the local community (Josić & various development projects. Inclusion of students into the work of the association

is more than welcomed, and each LAG can age group of respondents—mostly people offer good working conditions and several older than 50 years. In addition, the rural hours of mentoring.

Although originating from different rural areas in different parts of the country, the needs of Croatian LAGs' rural beneficiaries are, in their essence, very similar. The system for knowledge transfer that would acquaint beneficiaries with the best and latest solutions to foster the uptake of innovation is still insufficiently developed. Digital and financial illiteracy are reflected in the mismanagement of short-term and long-term assets, poor financial management, and investment risk increase. However, universities are rarely recognized as a force for rural social innovation with highly skilled manpower that can help speed up rural development.

In the area of LAG 5, most of the population lives near the Adriatic coast and is oriented toward fishing and mariculture, as well as olive and vine growing. The area has a long tradition of dealing with tourism, which has been a growing sector during the last decade, although the development of infrastructure and local production has not kept pace with tourism-related demands. In this isolated area, the difficulty of transporting goods and managing water, energy, and wastes has led to a higher cost of living, resulting in migration or abandonment of rural areas, especially by the younger population (LRS LAG 5, 2020).

The local population covered by this research had no experience with servicelearning. Respondents were mostly farmers, retirees, and homemakers over 50 years old. Their interest in service-learning is largely tied to meeting basic living needs and closely related everyday activities such as primary and specialist health care or education and help with agricultural work. Younger respondents (less than 50 years old) come from the cultural and tourism sectors that reflect their needs. The results obtained through interviews with the local population (mainly from the Pelješac peninsula and the island of Mljet) are presented in Table 1. Respondents have highlighted many services that could be improved in their community, but the most significant are singled out in Table 1.

The most important needs highlighted by The RURASL project will set up a common responses) and crop and livestock produc- level to stimulate rural social entrepreneurtion (18 responses). Such needs reflect the ship, the development of rural residents'

community lacks common activities and public events, so they pointed out music and performing arts (15 responses) as two of the important needs. The analysis of the needs and gaps of rural organizations (LAGs and rural NGOs) and their beneficiaries (rural residents) revealed both a wide range of rural challenges and recognition that available fields of study will enable students to contribute to the solution of several challenges through service-learning projects or programs. LAGs, NGOs, and their rural partners could implement service-learning programs and use the students' services to ensure more economically sustainable development of local partnerships and improve the living conditions of rural beneficiaries through service-learning.

The results of the survey conducted in four Croatian public universities (Josić & Mikelić Preradović, 2019) revealed that students lack opportunities for service-learning and community engagement during their study, especially at the undergraduate level. All surveyed students were very motivated for rural service-learning and eager for increasing competencies for entrepreneurship. The results also show that there is a need for an undergraduate course that will link servicelearning and (social) entrepreneurship and enable students to acquire skills that they perceive as relevant for their future careers, as well as community engagement.

From the perspective of the LAGs, engaging students already living in the rural area would bring them closer to an entrepreneurial perspective in the local community, which could encourage younger people to remain in rural areas in the future. Also, as Davis et al. (2020) pointed out, servicelearning might be used to ameliorate rural personnel shortages. Doing so, however, would require engaging community organizations (e.g., LAGs) to nurture connections between all stakeholders (students, rural community organizations, university instructors) through the entire duration of the project and to provide a sustainable plan when the project ends.

Next Steps

most rural beneficiaries are medical care (15) framework and online space at the European

Table 1. Rural Population Needs for Service-Learning and Social Entrepreneurship Implementation (N = 32)	
Occupation of respondents (Contribution %)	Stakeholder needs
Public bodies (3.1%)	Public services do not have enough capacity to improve the work and functioning of their organizations themselves and require domestic services, sustainability of electricity and energy, and work skills.
	They expect support from local associations and the LAG in reviving entertainment in the community such as music and performing arts, sports, and leisure.
Farmers (46.9%)	Farmers pointed out a problem of fulfilling obligations related to business administration, as well as a lack of knowledge regarding marketing and advertising. They have shown great interest in assistance with crop and livestock production.
	They expect help from the LAG with applications for EU funds for rural development to improve their businesses.
Homemakers (15.6%)	Homemakers spend a lot of time taking care of their family and food production. Areas of interest for the implementation of service-learning are mostly related to their daily activities such as domestic services, crop and livestock production or horticulture, but also medical care that includes nursing and midwifery, medical diagnostic, therapy, and rehabilitation.
	They expect the local LAG and NGOs to organize informal education for rural children in music and performing arts or handicrafts and foreign language acquisition.
Cultural workers (9.4%)	The cultural sector wants to involve students in the activities in the field of audiovisual, technical, and media production or music and performing arts. They need support from the LAG with business administration, marketing, and advertising, as well as teacher training in art specialization.
Retirees (9.4%)	Retirees mostly need company and fulfillment of free time. They would like to acquire basic computer skills and get domestic services but also need increased availability of medical diagnostics, nursing, therapy, and rehabilitation.
	They need support from the LAG to learn foreign languages and organize activities in their leisure time.
Tourist workers (12.5%)	Tourism employees need to improve their knowledge and work skills in the hotel, restaurant, and catering business; business administration; and marketing and advertising, as well as horticultural skills.
	They need support from the LAG for better positioning and promotion of locally grown food and beverages in tourism.
Teachers (3.1%)	Teachers in rural areas seek better working conditions and more training in subject specialization, as well as to improve their skills in psychology, sociology, and cultural science.
	They expect support from the LAG for applying to educational programs and funds, primarily the EU education and training program ERASMUS+.

core skills, and university students' re- networks among the national rural netsponsiveness to the needs of rural areas so works that are part of the European Network they will work with rural communities to for Rural Development (ENRD) hub in many develop sustainable economic, social, and EU countries. environmental solutions.

Based upon the results of our needs assessment for all three groups (students, rural knowledge on how to effectively utilize stu-LAGs and NGOs, and rural residents), the dents, and education on the possibilities of following steps are planned:

- Develop academic courses with a service-learning component targeting specific student skills and rural needs.
- Establish community training based on the analysis of rural needs in Table 1.

As enterprises that foster rural development, the LAGs and their partners provide twofold contributions: They will develop their skills in funding rural development needs in a financially self-sustainable way, reducing their reliance on subsidies; at the same time, they will disseminate skills and practices of social entrepreneurship to tackle the gap between available social services and access to publicly funded social services.

Also, the RURASL project will address the following national strategic objectives in higher education:

- improve key competencies of students, particularly in the less developed areas with lower levels of education;
- b. improve the quality, relevance, and effectiveness of higher education; and
- community.

RURASL results will be disseminated to a broad network of stakeholders, including academic and rural communities. This network will achieve sustainability through promotion of community-university rural

In the short term, LAGs and rural residents should benefit from the student services, social entrepreneurship to provide income for funding a broad array of public services in rural areas that lack finances. LAGs will bring together rural beneficiaries to choose the issues to address and direct the abilities of universities to access knowledge about those issues.

In the long run, LAGs and rural residents should benefit from the community-university partnerships. These partnerships will leverage local assets to increase the social capital in the community, create more independent models for funding, and implement innovative projects that will bring a new layer of grassroots empowerment to the existing LEADER approach.

Conclusion

Not a single Croatian university currently offers a curriculum that includes rural service-learning because such a curriculum would require collaboration between different (and sometimes remote) stakeholders and would involve a teaching and learning context much more demanding than the urban context. Higher education should respond to these challenges.

improve the collaboration of higher In all Croatian rural areas, the potential education institutions and community exists to support innovation in educaorganizations, educating socially re- tion and strengthening of social capital. sponsible citizens and thereby contrib- Partnerships with universities could prouting to the overall development of the vide skills and innovation that would enable LAGs to foster innovative development in rural areas to bolster scant human resources and entrepreneurial skills and provide support for rural beneficiaries before and after the students' civic engagement period.



Acknowledgment

The results presented are output from ERASMUS* KA2 research project 599382-EPP-1-2018-1-PT-EPPKA2-KA "Rural 3.0: Service-Learning for the Rural Development— RURASL."

About the Authors

Nives Mikelić Preradović is a full professor and head of the Chair for Knowledge Organization at the Faculty of Humanities and Social Sciences, University of Zagreb.

Marijeta Čalić has a Ph.D in natural science and works as a project manager in Local Action Group "LAG 5" in Korčula.

Philine S. M. van Overbeeke is an academic researcher and teacher at Rotterdam School of Management, Erasmus University.

References

- Bacigalupo, M., Kampylis, P., Punie, Y., & Van den Brande, G. (2016). EntreComp: The entrepreneurship competence framework. Publication Office of the European Union. https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/entrecomp-entrepreneurship-competence-framework
- Billig, S. H., Root, S., & Jesse, D. (2005). The relationship between quality indicators of service-learning and student outcomes: Testing professional wisdom. In S. Root, J. Callahan, & S. H. Billig (Eds.), *Improving service-learning practice: Research on models to enhance impacts* (pp. 97–115). Information Age Publishing.
- Bringle, R., & Hatcher, J. (2002). Campus-community partnerships: The terms of engagement. *Journal of Social Issues*, 58(3), 503-516. https://doi.org/10.1111/1540-4560.00273
- Brown, D. L., & Swanson, L. E. (2003). Introduction: Rural America enters the new millennium. In D. L. Brown & L. E. Swanson (Eds.), *Challenges for rural America in the twenty-first century* (pp. 1–15). Pennsylvania State University Press.
- Buchanan, J., Major, J., Harbon, L., & Kearney, S. P. (2017). Preparing teachers through international experience: A collaborative critical analysis of four Australian programs. In C. Reid & J. Major (Eds.), *Global teaching: Southern perspectives on working with diversity* (pp. 167–188). Palgrave Macmillan.
- Campus Compact. (2008). Service Statistics 2008: Highlights and Trends from Campus Compact's Annual Membership Survey. https://digitalcommons.unomaha.edu/cgi/viewcontent.cgi?article=1160&context=slcehighered
- Davis, S. C., Pogrund, R. L., & Griffin-Shirley, N. (2020). Project SASI: A community engagement project to increase recruitment and retention of professionals working with students with sensory impairments in rural and remote schools. *Journal of Higher Education Outreach and Engagement*, 24(1), 97–112. https://openjournals.libs.uga.edu/jheoe/article/view/1556
- Daring to succeed: Unlocking the potential of rural entrepreneurship. (2011). EU Rural Review, No. 10, pp. 7–9. https://enrd.ec.europa.eu/sites/enrd/files/ED5808AC-994A-47AD-928F-0D3088716910.pdf
- Directorate for Communication. (2017). The need for a white paper on rurality from a local and regional perspective for a European rural agenda after 2020. European Committee of the Regions. https://cor.europa.eu/en/engage/brochures/Documents/The%20Need%20 for%20a%20White%20Paper%20on%20Rurality/3135-NAT-brochureLR EN.pdf
- Eurostat. (2018). Eurostat regional yearbook—2018 edition. Publications Office of the European Union. https://ec.europa.eu/eurostat/web/products-statistical-books/-/KS-HA-18-001
- Goodman, H. P. (2014). The tie that binds: Leadership and liberal arts institutions' civic engagement commitment in rural communities. *Journal of Higher Education Outreach and Engagement*, 18(3), 119–126. https://openjournals.libs.uga.edu/jheoe/article/view/1141
- Josić, H., & Mikelić Preradović, N. (2019). Entrepreneurship and service learning of students of information sciences and informatics. In P. Bago, I. Hebrang Grgić, T. Ivanjko, V. Juričić, Ž. Miklošević, & H. Stublić (Eds.), InFuture 2019: Knowledge in the digital age (pp. 166-173). FF Press. https://rural.ffzg.unizg.hr/wp-content/ uploads/2020/03/Josi%C4%87-and-Mikeli%C4%87-Preradovi%C4%87-2019-INFuture-2019-Proceedings.pdf
- LRS LAG 5. (2020). Lokalna razvojna strategija LAG-a 5 za razdoblje 2014-2020, V4_I3, 2020. http://www.lag5.hr/component/phocadownload/category/5-strateski-do-kumenti.html?download=185:lokalna-razvojna-strategija-lag-a-5-za-razdoblje-2014-2020-v3
- Maakrun, J. (2016). International service-learning: Benefits to African teachers. *Journal of Service-Learning in Higher Education*, 5(1), 1–10. https://journals.sfu.ca/jslhe/index.php/jslhe/article/view/80
- Mikelić Preradović, N. (2015). Service-learning. In M. Peters (Ed.), *Encyclopedia of educational philosophy and theory* (pp. 1–6). Springer Singapore.

- Mikelić Preradović, N., & Mažeikienė, N. (2019). Service-learning in post-communist countries. In P. Aramburuzabala, L. McIlrath, & H. Opazo (Eds.), Embedding service learning in European higher education (pp. 180–195). Routledge.
- Ministry of Agriculture. (2019). Rural development programme of the Republic of Croatia for the Period 2014-2020 (Version 7.0). Ministry of Agriculture, Directorate for Rural Development. https://ruralnirazvoj.hr/files/documents/Program-ruralnog-razvoja-Republike-Hrvatske-za-razdoblje-2014.-2020.-odobrena-ina%C4%8Dica-ENverzija-7.0.pdf
- Perpina Castillo, C., Kavalov, B., Ribeiro Barranco, R., Diogo, V., Jacobs-Crisioni, C., Batista e Silva, F., Baranzelli, C., & Lavalle, C. (2018). Territorial fact and trends in the EU Rural Areas within 2015–2030 (JRC Working Papers No. JRC114016). Joint Research Centre (Seville site). https://EconPapers.repec.org/RePEc:ipt:iptwpa:jrc114016
- Sanchez Ramirez, A. (2011). The role of universities in promoting rural innovation in Latin America. University of Twente Student Theses. http://purl.utwente.nl/essays/60165/
- Stoecker, R., & Schmidt, C. (2017). Geographic disparities in access to higher education service-learning. In R. Stoecker, N. Holton, & C. Ganzert (Eds.), The landscape of rural service learning, and what it teaches us all (pp. 29–40). Michigan State University Press.
- Tirziu, A. M., & Vrabie, C. (2017). Living labs—instruments of social innovation in rural areas (MPRA Paper No. 79868). Munich Personal RePEc Archive. https://mpra.ub.unimuenchen.de/79868/1/MPRA_paper_79868.pdf (Reprinted from "Living labs-instruments of social innovation in rural areas," 2017, May, Proceedings of the Central and Eastern European e|Dem and e|Gov (CEEEGov) Days 2017, pp. 511-523)
- Watson, J. B., Jr., Church, C., Darville, R., & Darville, S. (1997). University-community college partnership development for eldercare service-learning: A model for rural community impact. Expanding Boundaries: Building Civic Responsibility in Higher Education, 2, 59–64.
- Zavratnik, V., Superina, A., & Stojmenova Duh, E. (2019). Living labs for rural areas: Contextualization of living lab frameworks, concepts and practices. Sustainability, 11, 1–17. https://doi.org/10.3390/su11143797