# **Developing Teaching Competences** With Service-Learning Projects

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#### Abstract

Service-learning (SL) is an active methodology built onto reciprocal learning that combines social responsibility and academic learning. Changes in students' profiles and the evolving interaction between educational institutions and society have encouraged the use of similar participative methodologies in diverse contexts, including higher education. Although the focus of these projects usually centers on student learning, SL experiences enable a holistic construction of knowledge that also affects instructors. This study analyzes instructors' perceptions on developing teaching competences in SL projects and overcoming difficulties. The current research, based on a mixed paradigm, collected answers to a semistructured questionnaire from university instructors (n = 34) in 12 Ibero-American countries with experience in SL. The results show how instructors rate positively their acquisition of teaching competences (socioemotional, organizational, and technical competences) when organizing SL projects; however, they experience a lack of training in this specific methodology.

Keywords: service-learning, teaching competences, higher education

tion—see, for example, Sigmon (1979) features has not led to consensus. As Puig commitment, and solidarity (Tapia, 2006). et al. (2007, p. 17) pointed out, there is a varied collection of definitions, since their essential features are present in different methodologies, such as civic education, project-based learning, knowledge integration, or community services. These definitions share, however, the view of SL as a pedagogical approach that values learning in collaborative networks.

ervice-learning (SL) is, broadly, In Sigmon's (1979) words, SL focuses on an experiential education approach "those who served and were being served" built onto the concept of reciprocal (pp. 9-10). In this way, SL offers a comlearning. Despite calls that go back bined professional and social approach that decades for narrowing the defini- provides fresh nuances and meanings to academic knowledge and encourages the the lack of agreement on its indispensable acquisition of new values such as respect,

Given these benefits, SL practices have developed extensively within the Latin American context since its early adoption in the 1980s, especially in countries such as Argentina, Chile, and Uruguay. Furthermore, values like solidarity with the participating communities have been added to what was initially only a "service," that is, an intervention. "Service-learning" became On the whole, SL projects build upon a par- known as "solidarity service learning." ticipatory goal supported by students. The The creation in 2002 of the Latin American action must effectively meet the needs of the Center for Service Learning (CLAYSS, Centro community and, at the same time, integrate Latinoamericano de Aprendizaje y Servicio predefined learning objectives. Therefore, Solidario), based in Buenos Aires, was a SL projects simultaneously commit to com- decisive milestone in the establishment munity necessities and educational quality. of the methodology in Latin America. In et al., 2012; Marquès, 2014). This expansion for the community. has shown that, in higher education, the support and participation of institutions are decisive for the success of SL proposals and projects.

values (Priegue Caamaño & Sotelino Losada, taught (p. 25). 2016; Torney-Purta et al., 2015). Certainly, research has also tackled task design (Gerholz et al., 2018), the act of teaching, and the necessary teaching competences for making these types of projects happen (Meaney et al., 2008). However, beyond defining the teaching competences that this methodology requires—and there is general agreement on the need for specific competences—little research has been performed on how teachers perceive development of their own competences during SL projects. In this sense, this study pursues two goals: on the one hand, analyzing and describing how teachers perceive their own process of acquisition within the framework of SL projects in higher education; and, on the other, detecting the main difficulties encountered during this process.

# Theoretical Framework

communicative scenario (Rodrigues et al., 2002). A growing number of students com-2018) has permeated educational processes. bine studies and work or simply attend uni-The contents of this scenario have been versity courses, considering them lifelong

the European context, the first formal SL and participative pieces, with students initiatives were related to the organization demanding greater prominence in their of several forums and conferences, such education. Therefore, service-learning as the Civic-Educational Forum in Madrid resurfaces within a socioeducational conin 2005 or the international conferences text characterized by the desire to provide in SL for teacher training held in Belgium greater agency to students via projects that in 2007 and in Ireland in 2008 (Folgueiras enable them to acquire knowledge from Bertomeu et al., 2013). SL was encouraged various areas. SL is thus an active methin the early 21st century, as it helped ad- odological option that encourages the condress challenges posed by the creation of struction of collective knowledge with the the European Higher Education Area (Arco creation of a final product that is beneficial

This relationship between academia and civic development is attached to the paradigm of complexity (Morin, 2007), which considers that education transcends cur-Extensive research has been performed to ricular content and must integrate knowlunderstand the foundations and implica- edge from various areas. In this respect, SL tions of SL in higher education. Often, simultaneously addresses pedagogical and the focus of these projects has been on civic development of the involved particistudent learning (da Silva & Araújo, 2019; pants (Tapia, 2006; Zabalza, 2004; Zaitseva Deeley, 2010; Folgueiras Bertomeu et al., et al., 2017). As Furco (2005) stated, SL has 2013; Rusu et al., 2014), even on reluctant the capacity to integrate community and learners (Chan et al., 2019). However, SL academia and therefore the potential to be builds an overall knowledge that impacts key in effective learning. Service-learning the development of teaching competences seeks to engage individuals in activities that just as intensely as it does students' skills combine community service and academic acquisition (Rodríguez, 2014). In this sense, learning. Since service-learning programs universities can invest in the development are usually integrated into formal educaof civic and social competences of students tion, the ßservice activity is usually based and teachers to ensure education in life on the contents of the curriculum being

> In this way, education becomes a process of committing to a common good with altruistic intention. Proposals must combine projects that are designed to develop suitable dynamics in the host community and likewise foster social responsibility among participants. Thus, participants' work must address the real needs of the context of intervention with the key objective of improving it (Puig et al., 2007).

The profile of the higher educational community has also changed. Currently, institutions cater to a wider range of diverse and multicultural student populations. The development of technology has progressively enabled people to access a university education at different times in their lives. That is, a growing percentage of the population does not pursue their university studies right after graduating from secondary education, as was the rule in earlier decades, but after The transformation of the informative and a period in the job market (Barsky & Dávila, transformed into portable, personalized, continuous education. University students

ing ages. In this sense, higher education the hosting community as the fundamental institutions became ready to welcome this skills developed by instructors. Therefore, new student population, with their differ- participants emphasize the preservation and ent objectives and expectations (De Miguel, restoration of the working environment as a 2005; Schuurman et al., 2016). Academic necessary measure in this space of reciproproposals of SL in higher education respond cal collaboration. There is a wide range of to the new educational model of universi- possibilities, such as the recovery of cultural ties, which promotes the need to combine heritage, support from educational estabacademic learning, social responsibility, and lishments, collaboration with special needs training for the general public (Dolgon et al., social groups, or the promotion of aware-2017; Larrán-Jorge & Andrades-Peña, 2015; ness campaigns, among others (Gelmon et Rodríguez, 2014; Vallaeys, 2014). Knowledge al., 2018; Puig et al., 2007). and skills developed by SL projects respond to the competences established by the Latin American Tuning Project (González et al., 2004), which incorporates civic commitment, sociocultural safeguarding, and environmental preservation as the main bases for improving collaboration between higher education institutions.

These bases have been addressed extensive-SL projects are "an opportunity to train on to any given pedagogical situation. a holistic dimension, since they enable us to embrace sensitiveness and emotions, even achieving the same awareness of future graduates as eminently social beings" and therefore go beyond just "preparing students for effective democratic engagement" new knowledge (Bergsmann et al., 2015; (Wall et al., 2018, p. 166). Civic engagement favors social repercussion and impact at the community level (Kaye, 2004; Puig et al., 2007). The Latin American Tuning Project defends further benefits for higher education: SL also promotes quality development, effectiveness, and transparency (González et al., 2004). In general, people process. involved in SL projects see the service as a response to the real needs of a society they have already integrated into—and this apacquisition of civil-social skills and the participation in SL projects. We opted for

are now a wider representation of start- development of sensitivity to the needs of

The teaching staff is a key component of effective SL implementation. Marquès (2014) listed "implication and support of teaching staff" as Step 5 of 16 in a proposal for a framework of integration of SL in higher education (pp. 14-15). Undoubtedly, instructors play an active role in SL and thus develop teaching competences. Remarkably, competences are not just a set of knowlly within SL. For Santos Rego et al. (2018), edge, attitudes, and skills that relate to and SL projects are an opportunity for learning enable professional development but also in a controlled environment ("for a riskless hold a recurrent character with continuous change"; p. 7), although it requires com- growth; that is, nobody "is" competent promise from universities to address edu- forever (Cano, 2008, p. 6). In this regard, cational challenges, which are not just a few SL allows personal growth by addressing a in a connected world, but in a context where wider purpose: investing an academic, perin-depth learning will be key in social and sonal, and technical background in the conindividual transformation (p. 7). Social re- struction of more humane social structures sponsibility requires acting for the benefit (Villa & Poblete, 2008, p. 12). Navarro et al. of society at large, which, in turn, requires (2016) added that a good teacher is capable training in the emotional aspects of social of reflecting on their own performance relations: engagement and compromise, but and evaluating their level of integration of also empathy and belonging. In this sense, knowledge, attitudes, and skills to respond

> Teachers' analysis of their own performance and the identification of the competences acquired in their educational action establish bridges between existing and Canquiz, 2010). In the case of SL, teachers must be equally aware of the competences they develop as they are of the competences that students could acquire. Therefore, university professors' perception of the competences acquired during SL projects is a decisive aspect of the whole educational

# Methodology

plies to teachers as much as to the previ- The current research aims to understand ously mentioned new university student the beliefs of university professors regardpopulation. Incidentally, Priegue Caamaño ing the development of competences, and and Sotelino Losada (2016) identified the to identify the difficulties faced during their drive this study, a semistructured quesand reported difficulties.

Following the structural basis of the Latin America Tuning Project, the questionnaire initially addressed the following issues: (a) initial training field of lecturers; (b) previous knowledge or training in roles and work developed in SL projects; and (d) considerforeseen in SL projects.

The questionnaire content was validated by a professor from the area of teacher training and a professor from the area of research methodology. Both the Portuguese and Spanish versions were pretested. After reviewing and adjusting the design, we sought to define the sample. We proposed an open approach in order to reach an intercultural sample with a wide variety of profiles. This sample would provide contrasting points of view from different professional environments. Therefore, the population was selected on the basis of responses to a post on the LinkedIn social network, which sought teachers who (1) were active in higher education or (b) had participated in a SL project within a university environment.

A post with the survey and the definition of the target population was published in December 2018 on LinkedIn, in Spanish and Portuguese, with the aim of reaching professionals from all Latin American countries, Spain, and Portugal. The online questionnaire was built with Google forms, and it remained open from January to March 2019.

a descriptive research design with a mixed The sample consisted of 34 teaching staff: and ex post facto approach. In line with the 23 university professors from Spanishqualitative and quantitative aspects that speaking countries and 11 university professors from Portuguese-speaking countries. tionnaire was chosen for data gathering. Specifically, the research involved profes-The questionnaire included open-ended sors from Brazil (8), Ecuador (2), Honduras and closed-ended questions and sought to (1), Argentina (6), Peru (2), Paraguay (1), determine the profile of each of the par- Guatemala (1), Uruguay (4), Colombia (2), ticipating teachers and identify their be- Mexico (1), Spain (3), and Portugal (3). liefs about the competences acquired and Thematic categorization was chosen for the difficulties met in the SL project. The the treatment of information and analysis. questionnaire was therefore designed on a Content analysis (Bardin, 1991) was applied three-dimensional approach: acquired pro- to identify the respondents' discourse on fessional competences, population profile, those competences they believed they had acquired, as well as the difficulties encountered during their participation. Experts came from social science (10 participants, 30% of the total sample), arts and humanities (9, 26%), pure science (9, 26%), and health science (6, 18%).

distribution of SL projects; (c) competences The research used a hybrid work methodology based on a matrix survey that crossations on social responsibility, civic com- checked quantitative questions with open mitment, and environmental preservation questions, enabling more qualitative work contemplated in implemented SL projects. in the reading and interpretation of the These indicators helped design a 20-ques- answers (Creswell & Plano Clark, 2017). tion survey, which has been the main meth- We used Atlas-Ti (Version 8) software odological tool. The methodological pro- for this second stage of content analyposal includes dichotomous closed-ended sis. Quantitative data have been analyzed questions for the most defined topics on the based on frequencies and percentages. The developmental degree of the competences bottom-up analysis of the answers defines three main categories of competences developed by teachers during the execution of SL projects: technical, socioemotional, and organizational.

# **Results and Discussion**

The acquired competences were defined bottom-up following the responses of the participants. They fell into three categories: socioemotional competences (SC), organizational competences (OC), and technical competences (TC). In addition, each category was divided into further subcategories (see Table 1). The examples in the following subsections demonstrate how each category is interpreted. Participants' statements were originally in Spanish or Portuguese and have been translated by the authors.

If we break down the responses by field of specialization, we notice some differences in the reported competences (see Table 2).

Given the extent of the sample, we cannot talk about significance in diversity, but it is notable that all the respondents in the Social Science group stressed the importance of

Table 1. Reported Competences Acquired by Teaching Staff						
Category	SC		OC		TC	
Subcategory	Emotional competences Community	35% 12% 21%	Support and monitoring projects in general	41%	Development of theoretical- practical knowledge	15%
	awareness Empathy		Teamwork and leadership	21%	Specific technical knowledge	26%

Table 2. Reported Competences by Field of Specialization of Teaching Staff SC OC TC Social Science (n = 10) 100% 70% 20% Arts and Humanities (n = 9)67% 44% 56% Pure Science (n = 9)78% 56% 33% Health Science (n = 6)50% 50% 50%

SC, in comparison to only a third of participants in Pure Science. On the other hand, TC seems to be relevant to a low number of participants in the Social Science field in comparison to other fields. Finally, OC are key in Pure Science and Social Science alike. The results cannot address whether those competences are perceived as unnecessary within the field and therefore not acquired or necessary and thus acquired earlier in the training process.

#### Socioemotional Competences

Socioemotional competences encompass those that stress the importance of teacher involvement, the need to integrate several agents in the SL project, and interactions and problem-solving through ethical action (Goodman et al., 2015). Some 68% of the participants reported having acquired this type of competence. The following competences stand out in this category.

#### **Emotional Competences**

SL project work requires the teacher's involvement in the context and with the participants. Challenging and working with people beyond the classroom is highlighted as an acquired learning outcome by 35% of the participants. Moreover, as initiators of the process, or at least supervisors of a participant, teachers often have to take on the For 12% of the participants, the process role of coordinators. Not everyone is used to had modified the way they perceived their the emotional part of this role.

Creating the project tests us in every sense, both emotionally, theoretically, and in relation to others. Above all, one learns to overcome uncertainty and to build a shared goal together. (P12)

In addition, teachers confirm that the practical nature of the project triggers a significant change in perception of their direct connections (their own students and children) and a renewed responsibility toward them.

Preventing our children from becoming easy prey and so ending in the world of crime, in gangs, teenage pregnancy, and so on, since such is the environment in communities like ours. Violence has triggered a change in my vision and attitude toward teenagers in my center. (P3)

Visualizing students as part of the community leads to increasing perception of the situation of that given community.

# **Community Awareness**

Reflecting upon the needs of the community is the starting point for a SL project. communities and realities. Given the effort to start such a project, participants were al- proposal and interact with the community ready aware of community problems when through SL, leading to 21% stating that they started the project but not always of empathy was one of the developed compethe extent of the problems.

You think you know the center and the community. But it is not like that. When we started, I was not aware of the struggles my students were going through. When we began to work in the topic of oral hygiene, so many problems arose that it is impossible not to get involved. This was my first Service Learning project and, undoubtedly, the most striking. It moved me so much that, now, my main task is to seek support from institutions that can take part in the projects and contribute, at least a little bit, to this community. (P5)

Teaching staff also concurred in pointing Other participants specify changes in atout the high degree of personal satisfac- titude derived from their development of tion resulting from their participation in the empathy and emphasize how academics project. This aspect is directly related to the also become better perceived by the hosting benefits perceived to have been provided to community. the community and their institution.

I think it was very positive, especially because the teachers who participated acquired greater knowledge and awareness about the economic and social situation in rural communities. But also. because we were useful to the community and gained skills for the direct interaction with humble people from our region. (P17)

One of the benefits that I saw reflected in the community was the project's final product, with the tree planting carried out in conjunction with the families. The rest of the teaching staff became interested with this project, and I'm happy to have participated in this first step. (P<sub>2</sub>6)

In some cases, awareness led to empathy.

# Empathy

Contact and involvement with other Up to 41% of the participants claimed that shoes and understand what others represent communication. (Rockquemore & Harwell Schaffer, 2000). The teaching staff become involved in a

tences in the projects.

I already had sensitivity and social commitment before participating in this experience, but knowing the situation and the way of life of poor rural communities first hand. my intention of trying to solve their problems was reaffirmed; from then on, I've always tried to do the different works that I've been through, considering the social and economic context my country is living and trying to sensitize the people with whom I have interacted, so that together and from what each person does, we may contribute to the world's transformation. (P16)

The approach intends to understand people's perspectives, with mutual learning being a great apprenticeship during the process. (P30)

I felt like an agent in charge of transforming realities and I felt that the community also envisioned this. (P12)

#### Organizational Competences (OC)

Organizational competences refer to resource management (i.e., school resources), organization, and coordination (potential of human capital). Planning, organizing, managing, and leading are necessary actions in SL projects. Teaching staff recognize that they have performed organizational tasks within different periods of the project: In fact, 62% of the teaching staff believe they have acquired organizational competences in their experience with SL projects.

### General Project Monitoring and Support

people's problems can sometimes make they developed different competences reus imagine ourselves in somebody else's lated to organization and management, like

Knowledge, organization and

Pedagogical Guidance in nonconventional environments (Hospital Contexts—Hospital Pedagogy). (P16)

It has improved my skills in communication, organization, task assessment, teamwork or management. (P4)

The management, coordination, group guidance, research and the approach of the theoretical framework necessary to sustain the practice and rigor in the organization. All this I developed. (P9)

#### Teamwork and Leadership

Leadership, as a set of managerial skills to new learning is constructed by integrating influence a work group, is often different in existing learning (Villa & Poblete, 2008). a SL project than in a classroom. For these In our study, 41% of the teachers believed skills, 21% of the participants acquired they had developed technical competences competences related to people management. during SL projects.

Learning how to work with the communes, which are groups of neighborhoods in my country, understanding that they participate through their leaders, in decisions such as how the money assigned to them by the mayor's office for their projects is to be invested. (P20)

The main challenge (and acquired novel learning) for teaching staff is the involvement of other stakeholders, such as family members and community members, who hold different roles that have a direct impact on the project. Leadership is key. Community involvement stands out as a difference between a common thematic project and a SL project.

Working with people outside the school demanded much more from me, because they were not in my charge, but simply helped us with the garbage collection process around the school. I had to learn to manage not only the project planning, but the people at all times.

What I learned the most was how to manage different groups with the same objective. This is a lesson that I will take to other projects, because it cost me a lot at the beginning, and now I see myself more capable.

(P28)

Negotiations of agency and space helped teaching staff develop competences related to teamwork.

It's just that I had to get involved and direct and think about everyone involved. It went far beyond what I was used to doing in my classroom. Now I feel much more capable of working with groups. (P2)

# Technical Competences (TC)

Technical competences are those related to specific knowledge and skills for the development of the SL project. In SL projects, they have an outstanding importance, since

# Development of Theoretical-Practical Knowledge

Some participants (15%) highlighted having learned about the specific topics worked on in the projects. They especially emphasized the importance of experiencing practical outcomes of their theoretical knowledge.

I gained new knowledge, especially in social and nutritional commitment, because not only is the child taught to value what is produced in the community, but also how to promote the production and consumption of natural products to improve our health. In addition, they also teach marketing to children and how to improve the family economy. (P28)

I learnt about writing linkage projects and how to support agricultural producers, including training and encouraging productivity, topics I did not have personal experience in until the time. (P9)

# Specific Technical Knowledge

Other teachers (26%) emphasized some of the technical and pedagogical skills acquired, which are lessons that will facilitate their teacher's work in the future, although these are less related to the project itself.

The use of technological equipment in municipal tasks is also something brand new for me, since it was required by the subjects I was in charge of. (P7)

I have acquired competence in learning how to write student reports in a concise and accurate way, respecting students as they are, avoiding projecting myself onto them, and allowing them to be themselves. (P9)

# Reported Challenges

Participants identified three main challenges in the implementation of SL projects: first, lack of specific training for the development of SL projects; then, lack of support from their institution; last and to a lesser extent, challenging access to potential communities.

The lack of specific training has been iden- Likewise, working with communities also the participants. Although generally the participants. participation was branded as very positive, and there is wide reporting on developing new competences, participants wished they had had previous access to training.

If we had received some prior training on how to organize all the phases of the project, we would have finished earlier and with better results. I felt responsible for the stagnation I experienced with my students from nutrition. (P2)

The lack of training, since there is no school that prepares us as managers for the communities, our development is carried out by personal interest and student integration to an area that attracts the communities, where they can work as part of their social service. The university believes we are prepared to deal with these more organizational aspects, but that is not the case—it was difficult for me. (P21)

Because SL should be of great interest for universities in their role of integrating academic learning for the general population (Larrán-Jorge & Andrades-Peña, 2015), these institutions would be expected to This research aimed to identify the pershoulder the burden of promoting and sup- ception of university professors about the

participants reported a lack of institutional support, especially financial or logistical support. Often, participants felt that further support would have encouraged wider intervention.

Lack of resources for student transportation, sometimes lack of producer collaboration. Lack of technical teaching tutors. (P1)

The biggest problem was the lack of financial and logistical support on the part of the university to which we belonged. Project logistics and budget were limited, as everything was covered by the students' own economic resources and those of the local farming communities. It took more preparation in terms of teaching materials that could have been designed and brought to the farmers. (P33)

tified as a problem by more than 63% of offers challenges, as mentioned by 10% of

The contexts of intervention, in some cases, had restrictions of access. (P5)

Given the reported challenges, we could argue that universities had been expected to take over certain organizational aspects, but they did not. Therefore, teaching staff had to develop or felt they had developed OC. Those also would be necessary, to a certain extent, to access novel contexts, another reported challenge.

In general, the answers from the participants point to a greater acquisition of OC and SC. Both closely link to teamwork and project management and to developing empathy with the community (similarly reported as a necessary competence in Priegue Caamaño & Sotelino Losada, 2016). Overall, the acquisition of TC ranks lower in the report. This could be expected if we consider transmitting knowledge as one of the functions of higher education: Participants might believe that they had the theoretical and scientific knowledge covered.

#### **Conclusions**

porting SL projects. However, 57% of the acquired competences and the difficulties

resulting conclusions.

First, motivation and conscience about the benefits of applying SL in higher education were common positive results for all the participants. That is, in itself, reassuring and encourages working on or starting similar projects.

Participants also reported having developed socioemotional, organizational, and technical competences and having improved as teachers thanks to their participation in SL projects. We would like to note that this bottom-up categorization seems to be in line with other classifications for competences acquired by SL participants, though probably adapted to a different stage of personal development. That is, Rodriguez (2014) discussed curriculum-related learning, personal development, and social development as key competences; these competences parallel Folgueiras Bertomeu and Martinez Vivot's (2009) classification of learning as conceptual, personal, and civil learning; Priegue Caamaño and Sotelino Losada (2016) discussed the acquisition of academic and personal skills, All in all, participants recognized the lack of with the latter encompassing civil learning. In a wider vision, there is content learning and professional/emotional development. The collective responses indicate that for teaching staff, emotional development parallels that of participants; the acquisition of technical competences could be understood as content learning; and organizational competences that go beyond the previous all, divergence on what type of competences (before and after the training) could procompetences are necessary or have already been mastered.

However, participants highlighted the need for specific training in methodology, especially in the educational and organizational aspects. Although teaching staff possess technical knowledge in their specializations, they sometimes lack training in educational methodology to export it to a hands-on project with their students. Pedagogical educational and lifelong training is already In conclusion, SL projects must be conceived

found in service-learning projects. The but not all experts in higher education have results show a positive vision of acquired received training in didactics. Participants competences; participants also reported on perceived a lack of institutional support; institutional support. We now present the such support could extend to include involvement in the analysis of educational needs and the promotion of teaching skills for university staff. In this way, SL projects must be part of the university's educational mission, not just an isolated individual's proposal (as Torres Márquez, 2015 also concluded).

> Previous results reflect a widely reported lack of institutional support in similar projects. University social responsibility remains relevant in these types of initiatives, as Ramos-Monge et al. (2019), among others, confirmed. If the institution does not support a formative vision based on civic responsibility and social collaboration, this methodology becomes one of many sporadic individual innovations, limiting the spread of potential benefits to the community. These results indicate that this lack of support is a relevant obstacle during project fulfillment, so stakeholders need to be informed that institutional awareness and access to resource management are required for the projects to generate the expected results.

> specific training for planning and managing SL projects. Therefore, if the university wants to integrate this methodology (and, in general, other innovative methodologies), they must understand that training the staff is crucial. Universities must provide tools and resources that could be difficult for the staff to obtain or develop by themselves.

could be understood as specific professional Incidentally, this training could be develskills. Given teachers' involvement in the oped within a community of practice. A design of the proposals, their civic compe- controlled observation of the participants' tence is expected to have been high. All in self-reported efficacy in these competences had been acquired depending on the field vide valuable input for training design. We might relate to previous perceptions of what envision how some of the acquired competences and educational needs reported in this research might provide guidelines for designing training for teaching staff and other stakeholders. Systematic and indepth analysis of the statements collected in this research could be a starting point for developing a multi-item scale measuring these competences. Such a tool could enhance the potential for success of future SL projects.

a prerequisite for other educational levels, as an institutional proposal beyond the

actually encourage the knowledge transfer ing staff, and the university itself.

initial motivation of an individual (teacher integrated in its theoretical and methodor student). In this framework, interven- ological guidelines, and it would benefit all tions would be more successful, SL would stakeholders: community, students, teach-



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