

TEMPLATE FOR THE DESIGN OF A SERVICE-LEARNING PROJECT*

1.- PROJECT TITLE

Adaptive Reuse of Industrial Heritage for the Community

2. PROJECT SUMMARY *(brief description 300 to 500 words)*

This serving-learning project proposal aims to provide students from Territorial Planning Specialization within Faculty of Geography (University of Bucharest) an experiential learning by involving them in the activity of evaluating ways to reuse elements of industrial heritage to serve the fulfilment of the socio-cultural needs of the local community.

From a scientific point of view, industrial heritage received special attention with the intensification of the deindustrialization process since the late 1960s in Western European countries, a process that determined the closure of a large number of old industrial units. Later, the deindustrialization process also marked the economy of Central and Eastern European countries. In this context, the preservation of industrial heritage elements has become a priority to limit the loss of valuable industrial buildings and sites. An approach carried out for the preservation of industrial heritage elements was their inclusion in the sphere of cultural heritage due to the plurivalences associated to them: historical, architectural, technological, cultural, social, scientific, symbolic. In the context of deindustrialization, the cultural or tourist reuses are considered as forms of conservation of industrial heritage assets. Also, the reuse of industrial heritage buildings is thought as solutions to prolong their existence, as well as to maintain their authenticity and integrity. In Romania, commercial reuses of abandoned industrial heritage buildings are predominant.

Students will receive information about the importance of industrial heritage on the basis of lectures, they will learn to assess the industrial heritage buildings and sites from the perspective of functional conversion during meetings with experts in the field of cultural heritage, they will learn to listen the local community's voice regarding its preferences for the reuse of local industrial heritage correlated with their socio-cultural needs; they will elaborate proposals related to adaptive reuse of industrial heritage taking into account the connection between the principles of conservation of heritage assets and the social needs of the community. Thus, a territorial planning issue related to the ways of superior valorization of abandoned industrial heritage buildings will be correlated with the community's options from the perspective of satisfying its social and cultural needs.

The proposal project is dedicated to the identification of appropriate reuses of industrial heritage buildings taking into account the opinion of the community in order to determine a better urban planning intervention and the consolidation of the role of community from the perspective of the capacity to make decisions. At the same time, the involvement of the community in the reuse of historical industrial buildings will tie it more strongly to the heritage elements to which the community feels attached.

3.- TECHNICAL DATA

Higher Education Institution or responsible entity:	University of Bucharest, Faculty of Geography
Person in charge of the project in the HE Institution:	Merciu Cristina
Number of students participating in the project:	30
Course/age/gender of the participating students:	Courses: economic geography and Introduction in Territorial Planning; 14 male and 16 female students, year: 20
Number of final beneficiaries of the service:	Local community from the Filaret and Rahova neighborhoods from municipality of Bucharest
Project type: (face-to-face, virtual, mixed and/or international):	Face-to-face
Do the students work with social entities or with final beneficiaries of the service?	Yes

4.- BACKGROUND (context in which it arises, if it has been carried out previously, if it is part of a project that already exists or the previous experience from the people involved)

The proposal project is developed as a previous experience in order to offer students from Territorial Planning Specialization the opportunity to carry out practical activities related to the identification and inventory of industrial heritage as a subtype of cultural heritage.

5.- GENERAL SOCIAL NEED FOR THE PROJECT (S-L addresses real needs in the community, it is significant and relevant for both students and community partners. Relevant topics related to civic, cultural, economic and political society are explored through the project.)

The proposal project is built to respond to the satisfaction of social and cultural needs of the local community through proposals for the reuse of the abandoned historical industrial buildings, especially as previously other industrial monuments were predominantly reuse as commercial spaces.
At the same time, the local community is attached to the abandoned industrial

heritage and they prefer that these valuable buildings be reused to host cultural and social activities. By considering the needs expressed by community, students will learn how to evaluate a heritage building from the perspective of adaptive reuse process in order to contribute to its conservation while meeting the needs of the community. Furthermore, they will learn to use several criteria in order to propose better solution for adaptive reuse.

Implication of local population is very important as community is a beneficiary of cultural heritage and its participation in decision-making process contributes to social cohesion through civic participation.

6.- SERVICE OBJECTIVES (what is the purpose of the project, what service will be provided to address the social need)

The purpose of the serving-learning project proposal is to provide students from Territorial Planning Specialization within Faculty of Geography (University of Bucharest) an experiential learning by involving them in the activity of evaluating ways to reuse industrial heritage buildings and sites to serve for a better living of the local community. So, the proposals related to the adaptive reuse of abandoned industrial buildings are meant to meet the socio-cultural needs of the local community.

-the adaptive reuse of obsolete industrial heritage buildings changes the shape of the urban fabric: it is a positive aspect from the perspective of a better environment for the population which is living in the proximity of a former industrial area;

-the adaptive reuse of industrial monuments can provide different social and cultural services for community: for residential scope (high demand for residential spaces in Bucharest), investments for the improvement of the general and cultural infrastructure, diversifying or increasing participation in cultural events of the local community;

-the adaptive reuse of abandoned industrial heritage buildings and sites contributes to the social re-appropriation of urban spaces and the preservation of the collective memory of the industrial past and, thus, of the neighborhood's history.

7.- LEARNING OBJECTIVES (Specific contents and competences of academic subjects or academic degree, and/or transversal (generic) competences.

Objectives:

O1: students will acquire fundamental knowledge for explaining and interpret the main processes and phenomena in territorial planning;

O2: after completing the course and carrying out practical work, students must be able to analyse the perception of cultural resources as an essential factor in the evolution of the society.

Specific competences:

C1: the capacity to elaborate territorial diagnosis based on research and substantiation of territorial planning policies;

C2: understanding strategic planning through proposals for the adaptive reuse of industrial heritage as part of the urban regeneration process.

C3: knowledge of recent practices and models applied in territorial planning.

Transversal competencies:

-the capacity for objective self-assessment, mediation and negotiation, teamwork;
-critical spirit and constructive ability to approach issues related to territorial development;

-the formation of an open conception of change, as well as the ability to understand the meaning of change, in order to adopt an appropriate community attitude.

8.- SUBJECTS/CURRICULAR AREAS INVOLVED (curricular subjects/courses?, a specific S-L course?, program?, etc.)

The Service Learning project proposal will be implemented during one academic year within two courses: **Economic Geography** (first semester) and **Introduction in Territorial Planning** (second semester).

-curricular subjects are:

-Economic Geography: factors and stages of industrialisation and urbanization, deindustrialisation process and local social and economic transformation: industrial abandonment, functional reconversion of former industrial units, pollution.

- Introduction in Territorial Planning: strategic planning and urban regeneration process: the functional reconversion of obsolete industrial heritage buildings and sites as catalyst for achieving sustainable development objectives.

9.- ACTIVITIES TO BE CARRIED OUT IN ORDER TO ACHIEVE THE PROJECT OBJECTIVES (both inside and outside the classroom. Activities that deal with the preparation, implementation, closing and evaluation of the project.)

The project proposal will be implemented in three stages.

The **first stage** will be focused on presenting the concept of industrial heritage to students with the aim of making them aware of its meaning, the context in which it appeared, its role as resource for territorial planning.

Activity 1 consists in providing information to students regarding the importance of industrial heritage, the criteria for classifying it as a subtype of cultural heritage (historical, architectural, cultural, social, aesthetic values), the presentation of most efficient data-processing/management methods, the criteria used for functional conversion of industrial heritage buildings.

In this framework, lectures will be given by the teachers. Moreover, a meeting will be arranged for the students to receive additional information from representatives of organizations (NGOs) focused on the preservation of industrial heritage and

experts from the National Institute of Heritage and Bucharest City Hall (Directorate of Urban Planning). During the meeting the experts will present to students adaptive reuse models of industrial heritage buildings and sites from Romania and abroad.

The **second stage** will involve the realization of field trips (**Activity 2**) where students will learn to inventory and evaluate the industrial heritage buildings and sites; they will learn to fill in or to update a cultural heritage sheet for the heritage building they have to evaluate. The group of students will be divided into five teams of six people each and they will make the field trips in two neighborhoods from Bucharest (Filaret and Rahova) where there are valuable industrial heritage buildings and sites. The students will work under the coordination of the professors.

The inventory process of the industrial heritage building /site selected as case study for each team will involve a description of the building/site:

- ✓ location in the neighborhood;
- ✓ its state of conservation;
- ✓ a description of its aspect/configuration;
- ✓ its original function;
- ✓ current form of utilization of the building: temporary use, abandonment.

All these information will be necessary to make the evaluation of the industrial heritage building/site from the perspective of functional conversion. The students will create a photographic archive and they will include several photos in the project description to highlight the actual characteristics of the industrial heritage building/site selected as case study.

Field campaigns will be used for applying questionnaires to members of community in order to find out their socio-cultural needs and their preferences regarding the reuses of industrial heritage buildings and sites located in their neighborhood.

The **third stage** will be focused on formulating proposals for adaptive reuse of abandoned industrial heritage buildings and sites (**Activity 3**). Students will formulate a proposal for functional conversion solution using an in-depth assessment of the data collected in the second stage in accordance with social and cultural needs of the local population. Each student team will develop a proposal for an adaptive reuse solution that will be synthetically justified by referring to the principles of territorial planning and highlighting how each proposal responds to the satisfaction of at least one social need of the community. The principles of territorial planning related to the functional conversion of industrial heritage buildings and sites are:

- the principle of territorial balance or the principle of structural and functional stability of the territory;
- the principle of satisfying basic human needs;
- the principle of optimal functional-territorial integration of all components (natural and anthropic), according to the intentions of organizing the space.

During the third stage other activities will be made:

Activity 4: the evaluation of each proposal of adaptive reuse elaborated by the

students.

Activity 5: the celebration of the project: a workshop will be organized to mark the end of the Service-Learning Project. During the workshop the results of the projects will be presented: e.g. the scope of the project, the period of implementation, the proposals of students related to the adaptive reuse solutions: moreover, a brochure focused on a short description of the project will be distributed to participants (e.g. members of the social organizations and NGOs, representatives of the National Institute of Heritage and Bucharest City Hall - Directorate of Urban Planning, members of community from Filaret and Rahova neighborhoods from Bucharest. The workshop will be hosted by the National Railway Museum, one of the most important Technical Museum from Romania.

Activity 6: the dissemination of the information by participation to the conferences (including participation of students to symposiums dedicated to them organized in different university centers from Romania); a brochure will be elaborated (both in printed form and electronic format) conceived as a didactic guide focused on the social impact of adaptive reuse of industrial heritage buildings, including the description of the project proposals made by students as positive models for reusing industrial heritage buildings.

10.- LINK TO THE SUSTAINABLE DEVELOPMENT GOALS AND TARGETS (Go to: <http://sdg.humanrights.dk/es/goals-and-targets>)

SDG	TARGETS
<p>1. By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries.</p> <p>By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries</p>	<p>1.1. proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically</p> <p>1.1. proportion of cities with a direct participation structure of civil society in urban planning and management that operate regularly and democratically</p>
<p>2. Strengthen efforts to protect and safeguard the world's cultural and natural heritage</p>	<p>2.1.Total per capita expenditure on the preservation, protection and conservation of all cultural and natural heritage, by source of funding (public, private), type of heritage (cultural, natural) and level of government (national, regional, and local/municipal)</p>

3. By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities.

3.1. Average share of the built-up area of cities that is open space for public use for all, by sex, age and persons with disabilities

11.- HOW IS THE GENDER PERSPECTIVE INCORPORATED INTO THIS SERVICE-LEARNING EXPERIENCE (Equitable distribution of tasks among man and women; use of non-sexist language and images; recognizing and value the existence of multiple gender identities)

The distribution of tasks among male and female students will be equitable during the implementation of the project proposal avoiding gender stereo-typing related to distribution of tasks, and encourage girls to engage in practical activities related to current territorial planning issues.

Within this project proposal the tasks distributed to students is aiming to stimulate the attitude of female students in involving in the process of conservation of cultural / industrial heritage and to facilitate their access and visibility in the professions related to the preservation and promotion of cultural heritage.

The equitable distribution of tasks is also related to the fact that different components of heritage (curation, management, representation) are influence by differentiating male and female perception.

12.- ENTITIES PARTICIPATING IN THE PROJECT (social entities, Public Administrations, educational centers, etc.)

Entities participating in the project:

- members of social organizations or NGOs focused on the preservation of industrial heritage: Asociation for Industrial Archaeology from Romania, Asociation Make Better
- experts from the National Institute of Heritage;
- representatives from Bucharest City Hall (Directorate of Urban Planning);
- National Railway Museum from Romania
- National Technical Museum "Engineer Dimitrie Leonida"
- members of community from Filaret and Rahova neighborhoods from Bucharest

13.- REFLECTION ACTIVITIES (Outline how reflection will be carried out with S-L participants: Reflection about what; when and through what means the reflection will take place. Analysis of different perspectives related to the problem that is being faced, and link of the S-L experiences to the theoretical and methodological framework of the academic subject/curriculum)

Reflection activities are related to:

-individual reflection made by the students regarding the analysis of the problem how to reuse the abandoned industrial heritage buildings /sites selected as case studies in order to find a solution from the perspective of urban planning and sustainable urban development (the proposal of reusing the former industrial building in order to ensure a new use of the heritage property taking into account the characteristics of the building correlated with the social needs of the community);

-reflection from the perspective of teachers focusing on improving student participation processes: an examination of students' attitude during the project and identification of the motivations and expectations of students to get involved in the Service-Learning project.

14.- EVALUATION (who evaluates, what is to be evaluated, when will the evaluation take place, and through what means will the evaluation be conducted)

The evaluation will be made by the 3 professors involved from the Faculty of Geography and two experts from the National Institute of Heritage taking into consideration three aspects:

-(1) meeting the functional urban needs (35 points): urbanistic solution/ the specific design solution(s) that add value to the particularities of the former industrial building or site; the integration of the adaptive reuse project within the protected urban built area, maintaining the historic monument character;

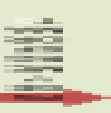
-(2) meeting the social and cultural needs of the community (35 points): justifying the adaptive reuse solution in order to meet the social or cultural needs of the community;

-(3) the manner of presentation of the project including a Power Point document: quality and clarity of ideas representation (30 points).

Three proposals of adaptive reuse which will receive the highest scores will be selected by the expert from the National Institute of Heritage to be presented to the members of the commission of the historical monuments who decide on the validation of the proposals for the adaptive reuse of heritage buildings; these proposals will be analysed in order to be selected as solutions for the reuse of heritage buildings in the Filaret area that are selected to be included in the process or urban regeneration.

To these is added self-evaluation of the teacher coordinator which should focused on the preparation of the first stage related to the explanations regarding the topic of the reuse of industrial heritage buildings, to involve more social partners in the future project.

Project future actions: to motivate students to get more involved in the project in order to respond better through their work to the social needs of the community and to develop the attitude of civic participation. To this is added the identification of the resources it needs (which are missing in the current project) to elaborate a



better Learning-Service Project.	
Indicators of impact on learning	Indicators of social impact
Number of skills and knowledge content acquired by students	Number of members of community involved in the process of decision-making
Tasks that challenge and stretch students cognitively and developmentally (e.g. evaluation of abandoned industrial buildings for functional reconversion taking into consideration the principle of territorial planning and social need of the community, students use multiple methods that encourage critical thinking)	Increasing the number of members of community who will be able to participate in socio-cultural activities through the possibility of reusing heritage buildings
15.- CELEBRATION OF THE PROJECT AND ITS RESULTS (diploma award ceremony, party, meetings, etc.)	
<p>The celebration of the project will be made during a workshop with the participation of representatives of social organizations and NGOs involved as partners in the projects, representatives of the public entities and members of the community; during the workshop the students will present their project proposals focused on the solutions of the adaptive reuse of industrial heritage building or site selected as case study. The workshop will be an opportunity for debate the project proposals of adaptive reuse elaborated by students receiving feedback from the representatives of social organizations and NGOs involved as partners in the projects, representatives from the National Institute of Heritage and Bucharest City Hall (Directorate of Urban Planning) and members of the community.</p>	
16.- COMMUNICATION AND DISSEMINATION ACTIVITIES (use of social media, internet, YouTube, publications, conference presentation, etc.)	
<p>For communication and dissemination activities, we will plan to use:</p> <ul style="list-style-type: none">-the website of the Faculty of Geography;-the social media platforms: LinkedIn, ResearchGate, Twitter, Facebook;-publications: the brochure, other articles-conference presentations: the three professors involved in the project will disseminate the results of the project to different conferences (e.g. Annual Conference of the Faculty of Geography, other conferences focused on topics regarding: industrial heritage, urban planning); students involved in the project will attend symposiums dedicated to them organized by our faculty (National Student Symposium on Human Geography and Tourism,	

National Symposium of Geography Students) or by other university centers from Romania.

17.- CALENDAR (timeline of the project activities)

The project proposal will be developed during one academic year as it follows:

First stage

Activity 1: Providing information to students regarding the importance of industrial heritage, the criteria for classifying it as a subtype of cultural heritage (historical, architectural, cultural, social, aesthetic values), the criteria used for functional conversion of industrial heritage buildings: lectures and meeting with experts
October - November 2023.

Second stage:

Activity 2: Field campaigns where students will learn to inventory and evaluate the industrial heritage buildings and sites and for applying questionnaires to community:
February- March 2024.

Third stage:

Activity 3: Proposals for adaptive reuse of industrial heritage building / site selected as case study by in-depth assessment of the data collected in the second stage by the students: April-May 2024

Activity 4: Evaluation of each proposal of adaptive reuse elaborated by the students: June 2024

Activity 5: Celebration of the project: during a workshop with the participation of representatives of social organizations and NGOs involved as partners in the projects, experts from the public entities and members of the community (September 2024); the brochure will be a proper tool to disseminate the results of the project.

Activity 6: Dissemination of the information by:

- participation to the conferences, including participation of students to symposiums dedicated to them: April-September 2024.

- a brochure will be elaborated (both in printed form and electronic format between July - August 2024) including the description of the project proposals made by students in order to disseminate the services offered to members of the community by the proposals of adaptive reuse of the industrial heritage buildings.

18.- HUMAN AND MATERIAL RESOURCES NEEDED TO CARRY OUT THE PROJECT

(teachers, students, administrative staff; teaching resources, furniture, etc.)

The team from the University of Bucharest, Faculty of Geography will be formed by lecturer Merciu Cristina (initiator), associate professor Bogdan Suditu and lecturer Camelia Teodorescu. The Service-Learning project proposal will be presented to the Dean and the Department Director for approval.

For the implementation of project proposal will be used the infrastructure of the department (photocopying, classrooms).

19.- BUDGET (income, expenses and co-financing)

The proposal project is not built to generate income.

Several expenses will be related to:

- the printing form of the brochure as main tool for disseminating the result of the project (estimative cost: 4,900 ron approximately 1,000 euro) and
- the cost for protocol during the workshop which will mark the end of the project (estimative cost: 3,500 ron approximately 650 euro).

We expect to get co-financing.

*Designed by Pilar Aramburuzabala and Rosario Cerrillo. Autonomous University of Madrid.

*Reviewed by the Subcommittee of the Technical Commission of S-L in the Public Universities and the City Council of Madrid.