

University of Belgrade Faculty of Architecture in between Initiatives and Educational projects dealing with climate change: 2014 till today

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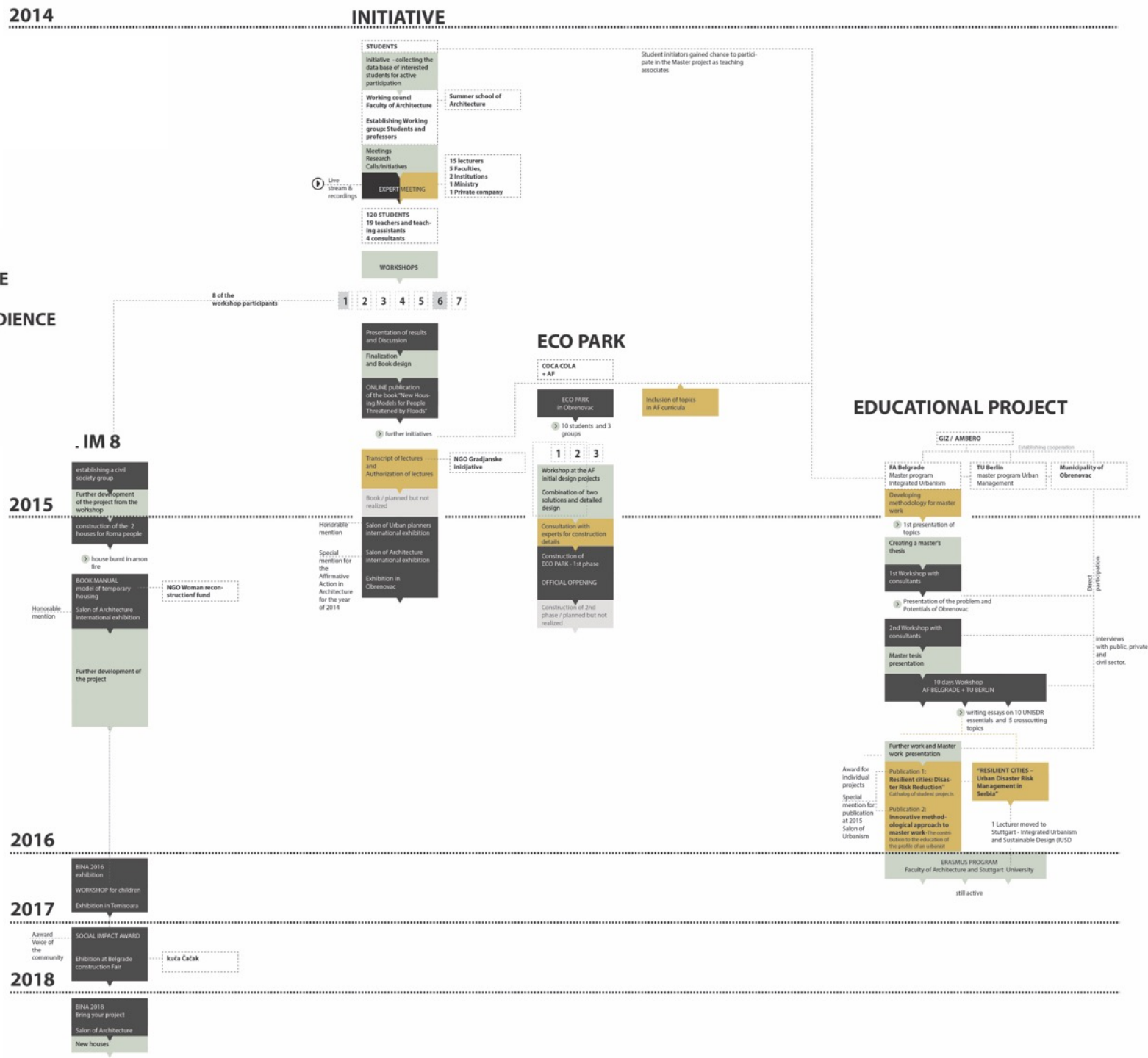
Faculty of Architecture, University of Belgrade

“Connecting Co-Creation and Climate Action – How people can have an impact on
climate adaptation and mitigation”

22nd May 2019

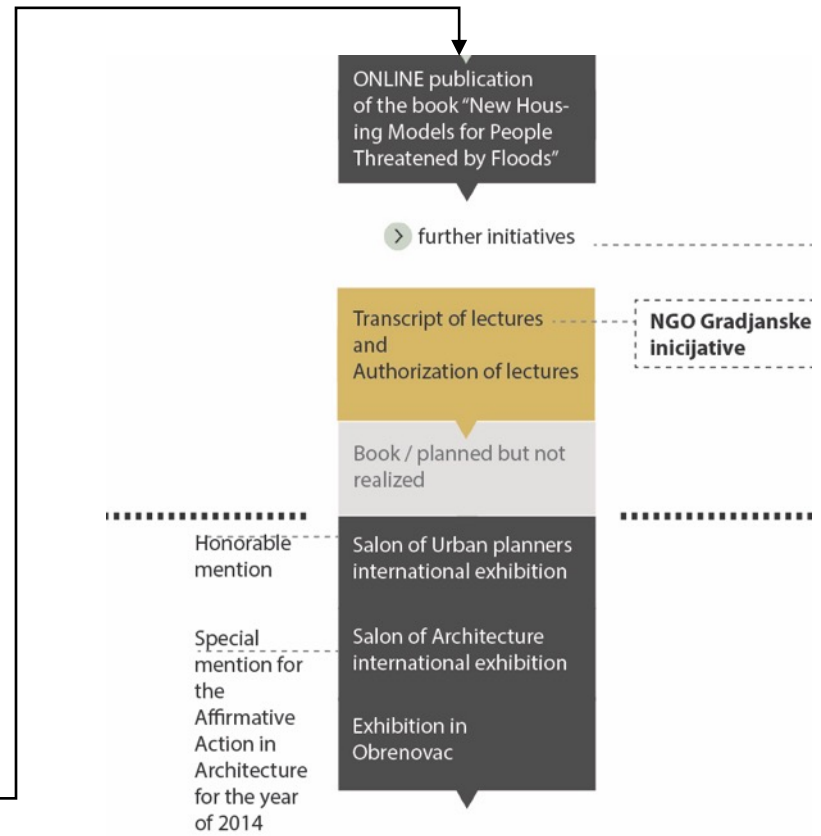
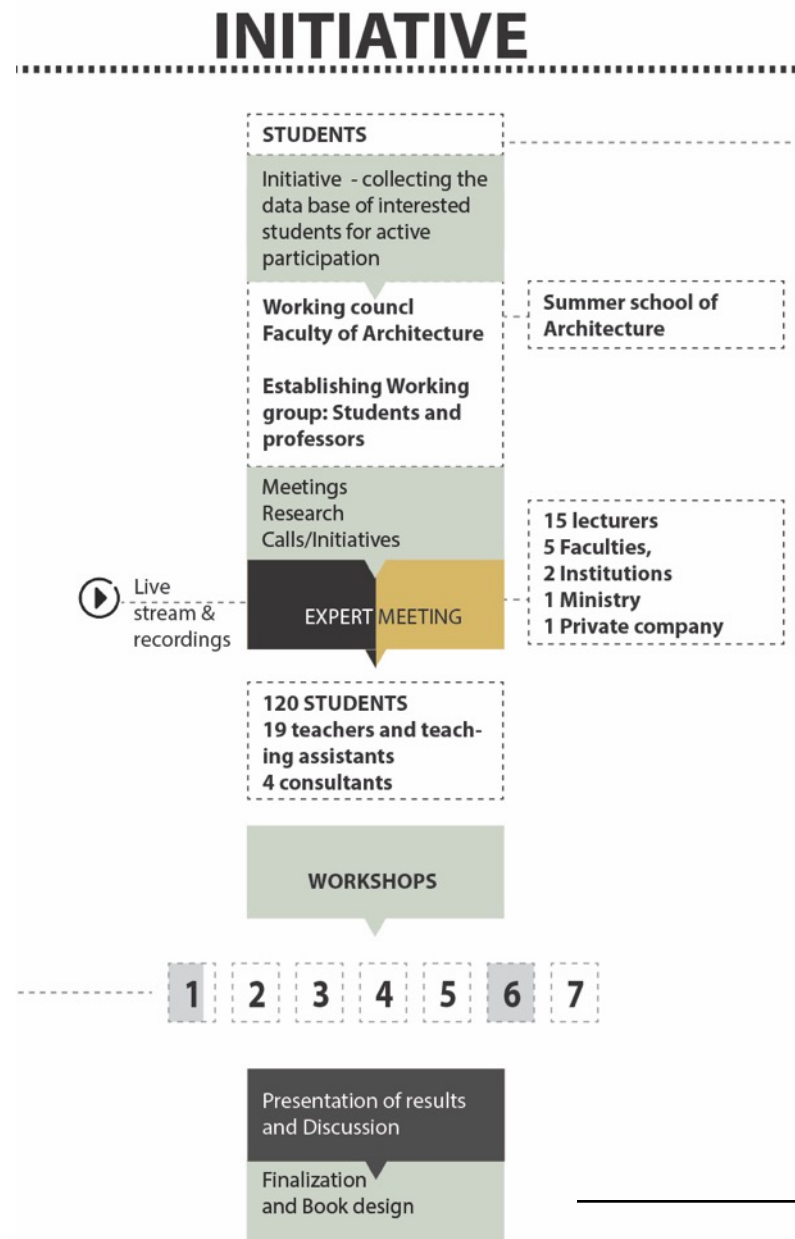
Systematic presentation of projects

- OPEN FOR PUBLIC AUDIENCE
- EDUCATION / INTERNAL AUDIENCE
- SCIENTIFIC AUDIENCE
- ACTORS / INSTITUTIONS



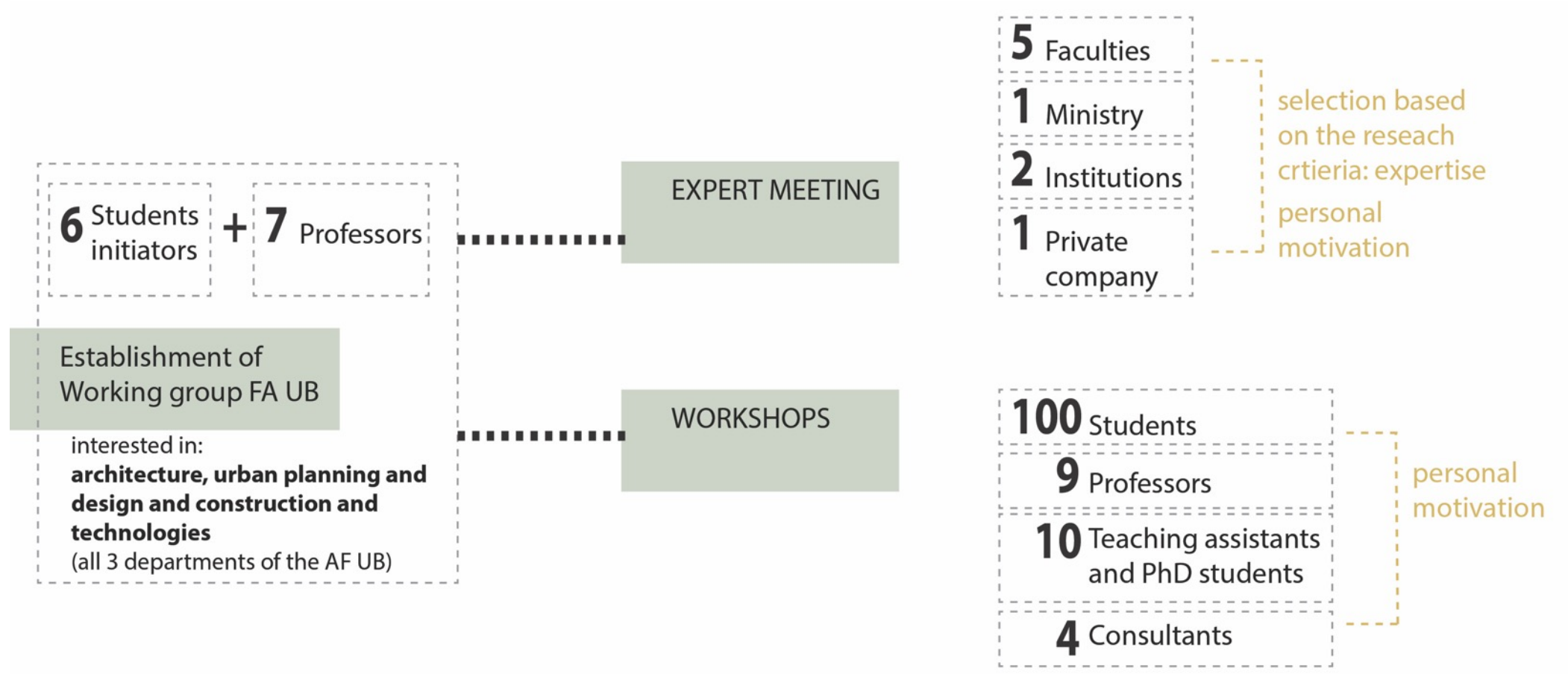
Systematic presentation of project

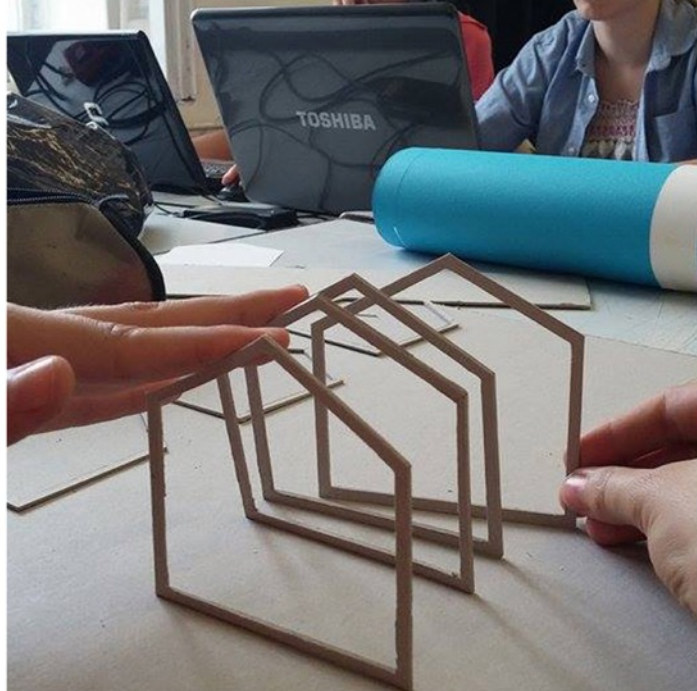
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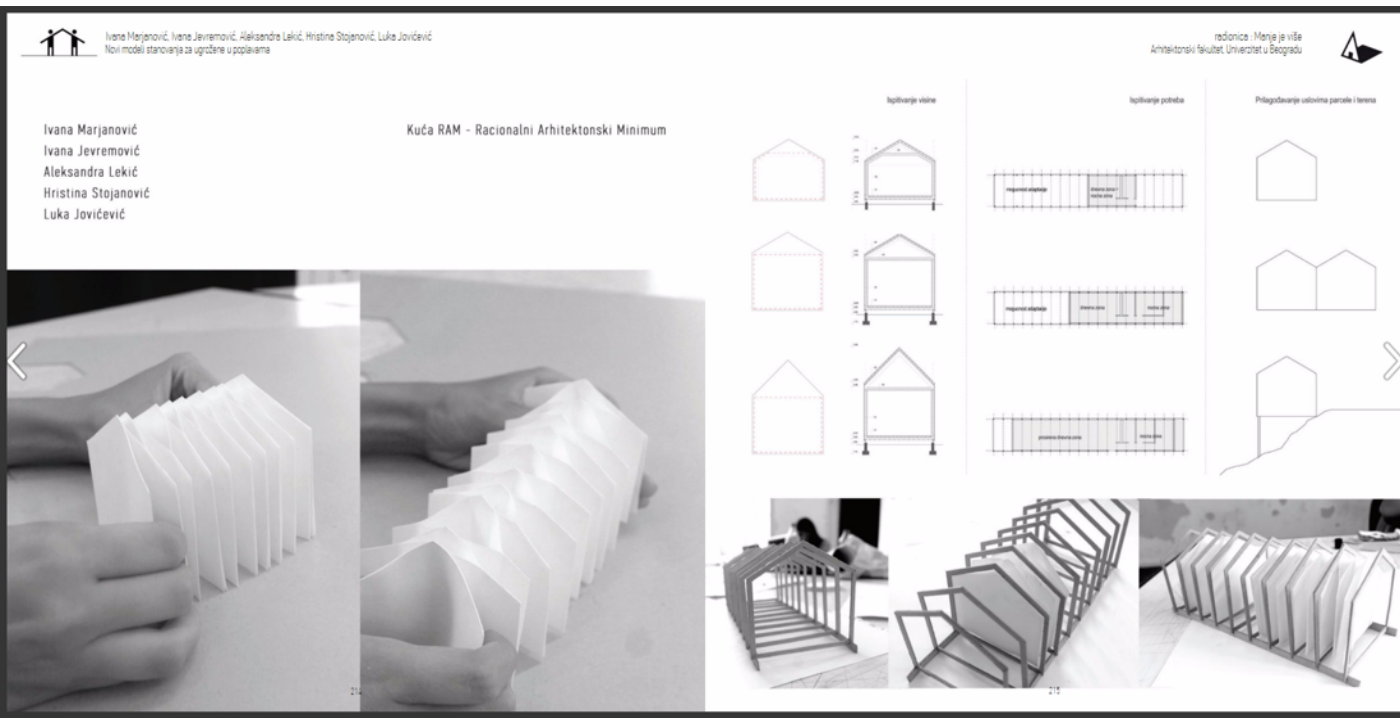
The co-creation team

Stakeholders / Selection and motivation









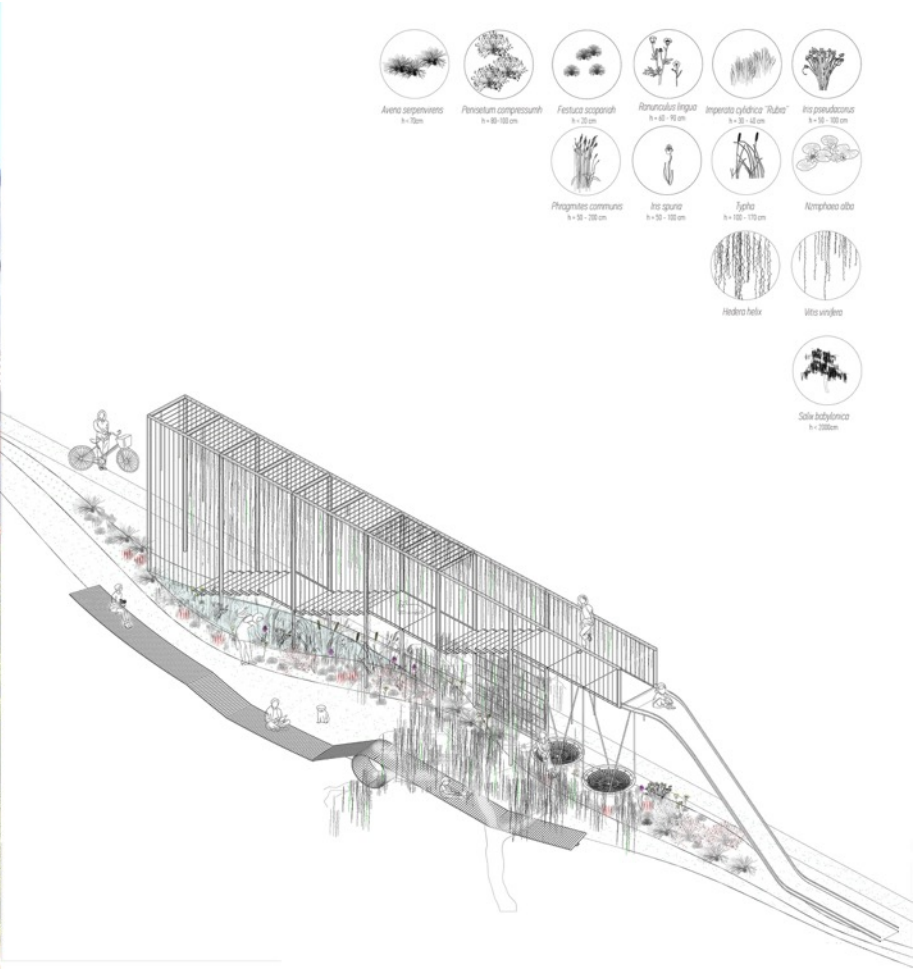
Tim 8

Further work on book, new houses and workshop mentoring)

Group of students

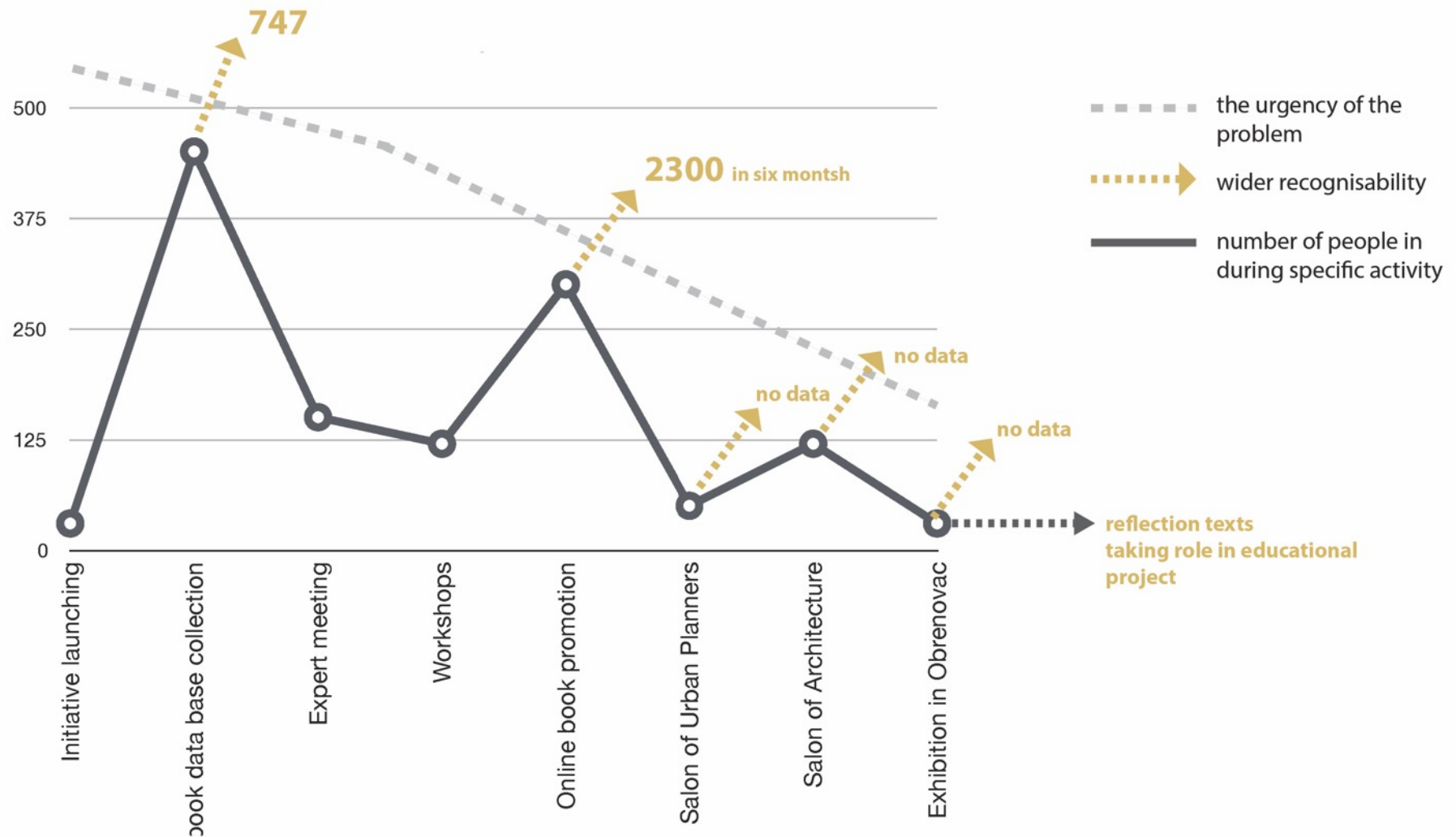
Eco park

Photos by Tim 8



■ Participation and number of people in initiative

Participants / Motivation, Active involvement



Goals

Level of achievement

- **Encourage active participation of architects** (students as future professionals) in helping people in need
- **Dissemination of knowledge and opening of a multidisciplinary theoretical discourse** as a starting point for developing a methodology in the process of reconstruction of areas threatened by natural disasters
- **Raising awareness of the importance of cooperation between different professions**
- **Promoting research and development of alternative solutions** (projects) for people threatened by floods
- **Demonstrating the possibility of students' contribution to the restoration of flooded areas**



Realization of Initiative



The book with transcripts haven't been published yet



Included in student projects, live stream of lectures, inclusion of topics in Faculty curricula



Realization of Eco park, Realization of projects done by TIM 8



Continuation of educational projects, professional recognitions



■ The main challenges

- **Enable continuity of keeping people motivated during the project**
- **The importance of acting fast in a period of two weeks** - the challenges of communication and organization for people with no experience (students) / professors and FA's help in this step was crucial for the success
- **Challenges to avoid any abuse of student initiative in other purpose accept one concerning humanitarianism**
- **Lack of financial resources** – all the cost of materials, refreshments and food during two whole days of workshops, printing for the exhibitions were completely funded by students



■ Good practices - identified to ensure the co- creation process

- **the importance of collective action and engagement** – it can enable the generation of creative ideas and solutions
- **The significance of personal and humanitarian intentions** – they are of great importance for the success of the project
- **The importance of understanding the power of young people and what they could do in a short period of time with the great support of professors and faculties and yet without financial support**



Systematic presentation of project

- Master's program „Integrated Urbanism“, Faculty of Architecture, University of Belgrade
- GIZ / AMBERO-ICON Project „Strengthening of Local Land Management in Serbia”
- Master's program „Urban Management“, TU Berlin
- Municipality of Obrenovac

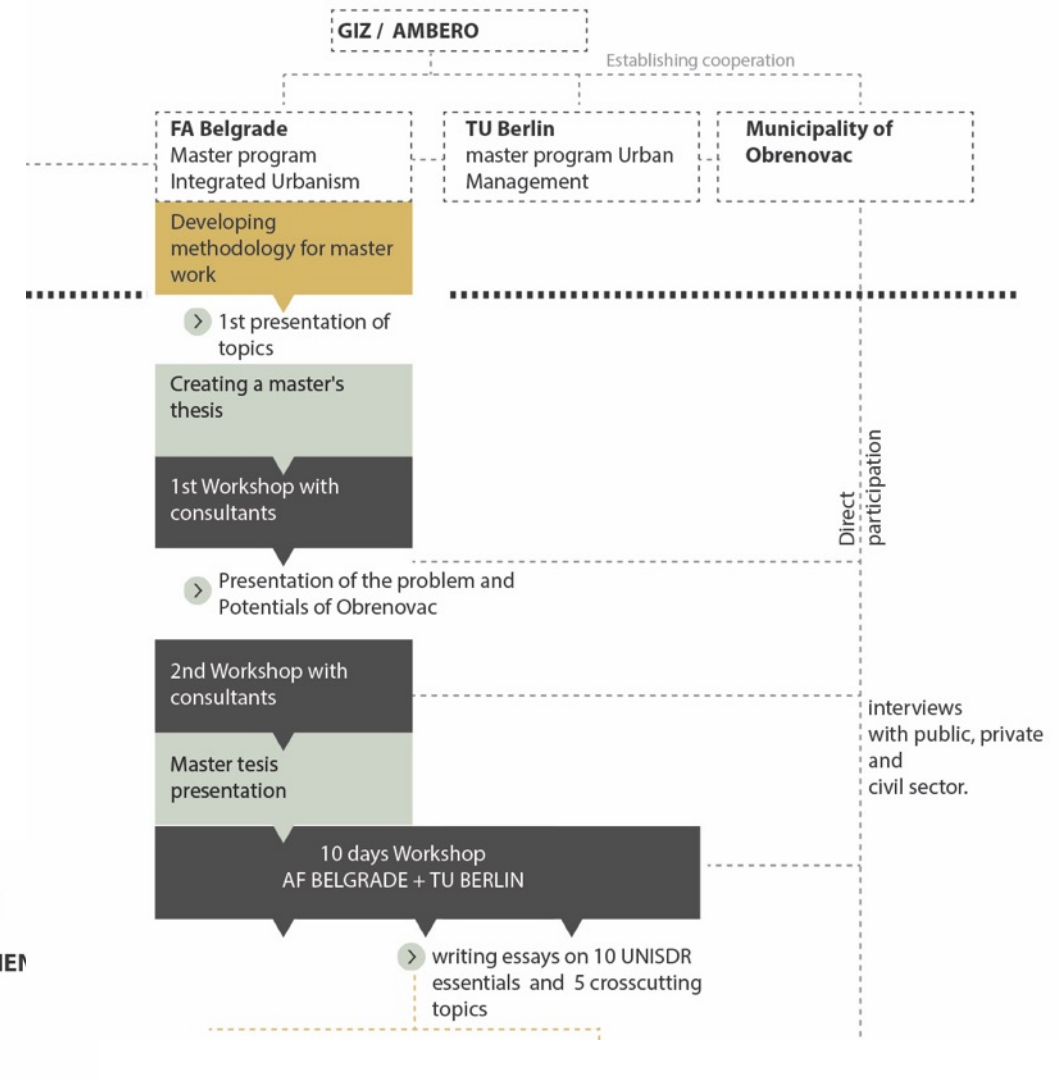
Joint workshop (+field work, interviews, observations, surveys)

April 17th and 29th 2015

at the Faculty of Architecture and in Municipality of Obrenovac

Result - **Concept Action plan for risk disaster management in Obrenovac**

EDUCATIONAL PROJECT



CONCEPT ACTION PLAN FOR RISK DISASTER MANAGEMENT IN OBRENOVAC

The co-creation team

Stakeholders

Mentoring team:
 4 Serbian and 2 German teachers, 3 junior mentors

37 students - 11 Serbian and 26 international (18 nations), with different degrees (bachelor's and/or master's degree) and professional backgrounds (architects, landscape architects, designers, urban planners, civil engineers, geographers, economists, political scientists, managers, journalists and public health professionals)

Master's committee



participants/ actors

Students

group: group 1/topic 1

 Adele Vosper
 Parham Mortazavian
 Katarina Kozović
 Anelina Lučić





group 2/topic 2

 Sara Dević
 Shan Gao
 Evandro Holz
 Hicham Sader





group 3/topic 3

 Rashid Kairuz
 Kurt Steffens
 Eliana Silva
 Olivera Šanta

group 4/topic 4

 Aram Lee
 Dolo Mayorra Cebrian
 Nawid Royae
 Ivana Mačkić

group 5/topic 5

 Mohd Farhan
 QI Yahya
 Sheryta Arsallia
 Boško Drobnjak

>

group 6/topic 6

 Anastasia Maragdoul
 Achmad Faris Saffan Sunarya
 Yaqi Zui
 Mila Madžarević

group 7/topic 7

 Hoda Aminian
 Aline Peres
 Ivan Živadinović

group 8/topic 8

 Cecilia Sampaio
 Jelena Spasojević
 Shane O'Hanlon

group 9/topic 9

 Roni Susman
 Javier del Río
 Aruho Tinka
 Filip Trgovčević

group 10/topic 10

 Eunyoung Lee
 Yan Liang
 Bojana Antić

Professors and teaching associates

PROFESSORS AF, UB
 v.prof dr Marija Maruna
 v.prof. dr Ksenija Lalović
 doc. dr Ratka Čolić
 doc. dr Danijela Milovanović Rodić

PROFESSORS TU, BERLIN
 Josefine Fokdal
 Karsten Zehner

TEACHING ASSOCIATES
 m.arh. Jelena Radosavljević
 m.arh. Jovana Bugarski
 m.arh. Ana Dušmanović
 m.arh. Aleksandra Đorđević

members of mentoring committees

DEPARTMENT OF URBANISM
 prof. mr Rajko Korica
 prof. dr Vladan Đokić
 v.prof. dr Aleksandra Stupar
 doc. dr Uroš Radosavljević
 doc. arh Zoran Đukanović
 doc. mr Biserka Mitrović

DEPARTMENT OF ARCHITECTURE
 v.prof. Vesna Milošević Cagić
 v.prof. Ivan Rašković
 v.prof. Milan Đurić
 doc. dr Ana Nikezić

DEPARTMAN FOR ARCHITECTURAL TECHNOLOGIES
 doc. Dušan Ignjatović
 doc. dr Miloš Gašić



The co-creation team

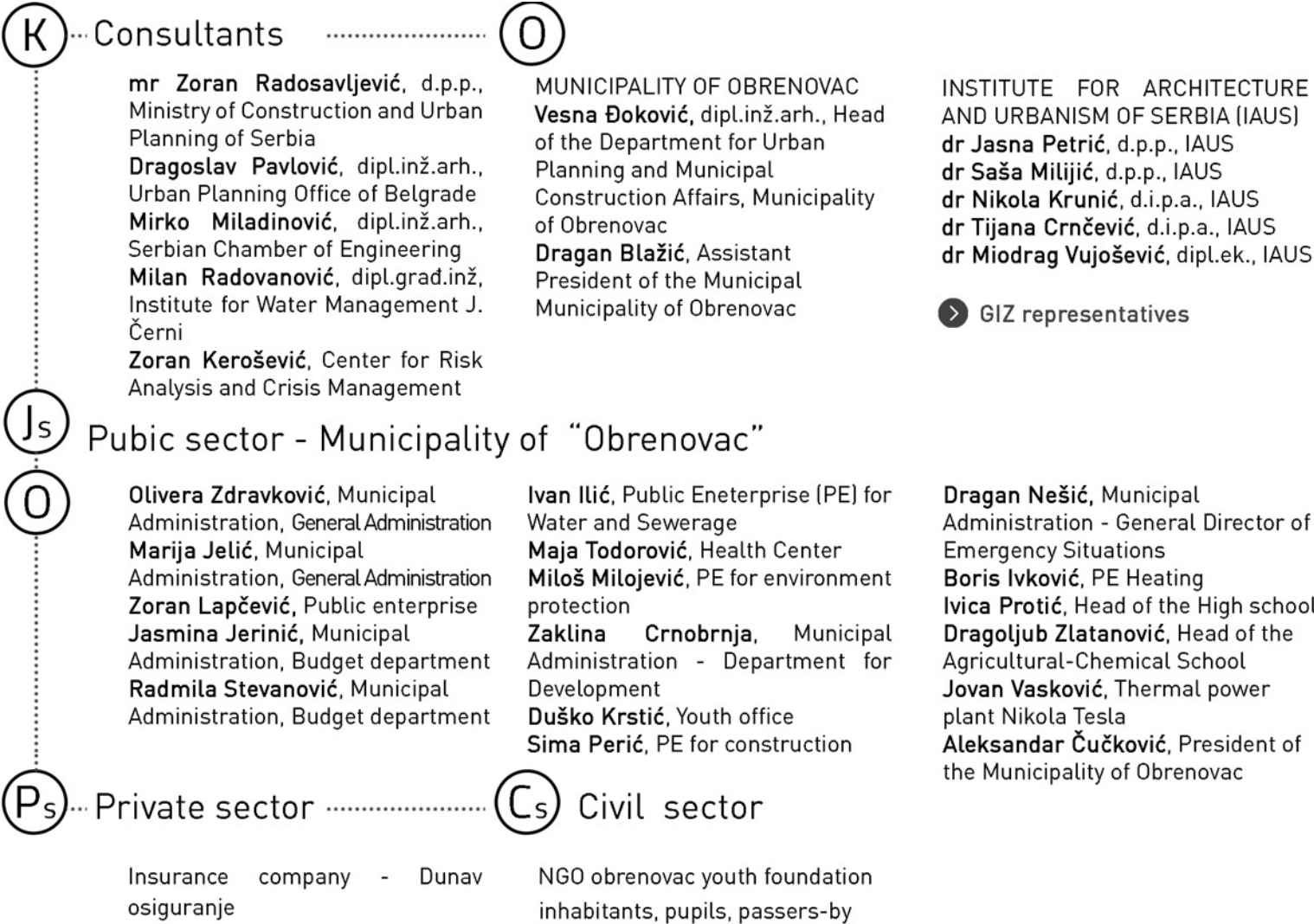
Stakeholders / Selection and motivation

External consultants and visiting practitioners

(Ministry of Construction, Traffic and Infrastructure, Belgrade Urban Planning Institute, Engineering Chamber, Serbian Institute for Architecture and Urbanism , Faculty of Security Studies, President of the Risk and Crisis Management Centre)

Local representatives

(Mayor, Vice mayor, Head of Urban Planning Department, Public enterprises, NGOs, citizens)





CONCEPT ACTION PLAN FOR RISK DISASTER MANAGEMENT IN OBRENOVAC

FROM ESSENTIALS TO CONCEPTS

- THE UNISDR (2012) 10 ESSENTIALS OF RESILIENCE - ANALYSIS

- 1) Institutional and Administrative Framework
- 2) Financing and Resources,
- 3) Multi-hazard Risk Assessment
- 4) Infrastructure Protection, Upgrading and Resilience
- 5) Protect Vital Facilities: Education and Health
- 6) Building Regulations and Land Use Planning
- 7) Training, Education and Public Awareness
- 8) Environmental Protection and Strengthening of Ecosystems
- 9) Effective Preparedness, Early Warning and Response
- 10) Recovery and Rebuilding Communities

- CONCEPTS FOR RESILIENT OBRENOVAC

- 1) Institutional framework
- 2) Resilient open space
- 3) Resilient infrastructure
- 4) Resilient vital facilities
- 5) Resilient housing

Joint workshop





Presentation



**CONCEPT ACTION PLAN FOR RISK DISASTER MANAGEMENT IN
OBRENOVAC**

11 IUPS – ENHANCING RESILIENCE THROUGH DRM

Development and diversification of green areas,

Reducing housing vulnerability,

GIS flood management databases,

Resilience of health facilities and schools,

Integration of vital functions into the National Early Warning System,

Improvement of residential construction,

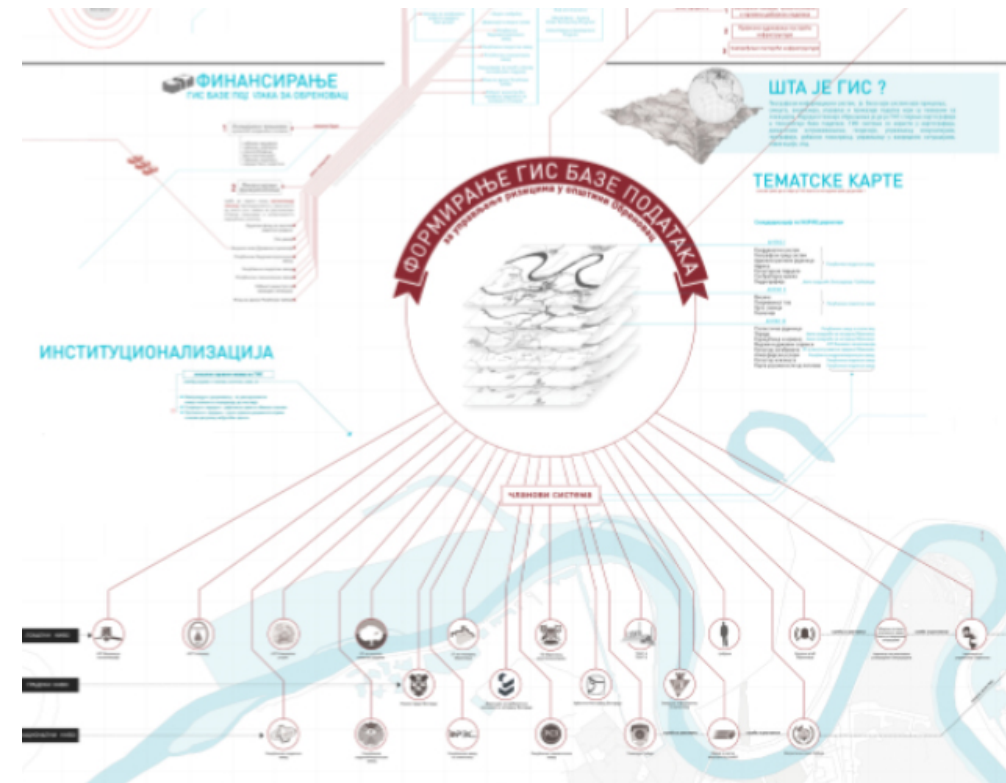
Green infrastructure for regulation of storm water discharges,

Complex multifunctional flood defense systems-ecotone model,

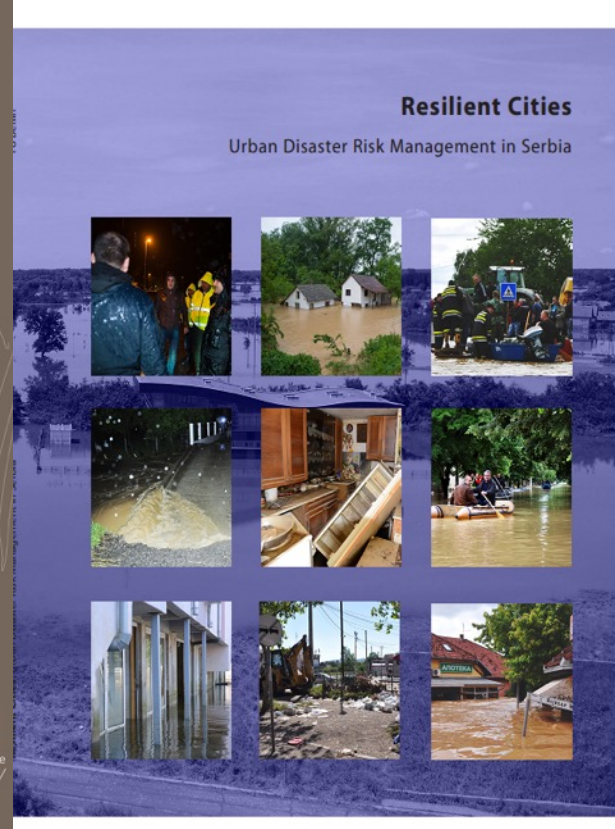
Trainings and awareness raising,

Communication in emergency situations using a mobile app,

Educational android app for mitigating the consequences of natural disasters



Exhibitions, publications, cv improvement



CONCEPT ACTION PLAN FOR RISK DISASTER MANAGEMENT IN OBRENOVAC

The last activity by Faculty of Architecture University of Belgrade



World cities Day / Exhibition