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# Vulnerability assessment of embankments and bridges exposed to flooding hazards

**Deliverable 7.1**

**Digital Newsletter 1**



## Project Information

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Project Acronym	oVERFLOW
Project Full Title	Vulnerability assessment of embankments and bridges exposed to flooding hazards
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Topic	UCPM-2019-PP-PREV-AG: Prevention in civil protection and marine pollution
Project Website	<a href="http://www.projectoverflow.eu">www.projectoverflow.eu</a>
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## Partner Information

Sveuciliste u Zagrebu Građevinski Fakultet	Croatia	
Infra Plan Konzalting	Croatia	
GEKOM - geofizikalno i ekološko modeliranje d.o.o.	Croatia	
VEILIGHEIDSGEBIED ZUID-HOLLAND ZUID	Netherlands	
INGEO BV	Netherlands	
ZAVOD ZA GRADBENISTVO SLOVENIJE	Slovenia	
Uprava Republike Slovenije za zaščito in reševanje	Slovenia	



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## Executive Summary

This report outlines the project activities performed in the first six months of the oVERFLOW project in accordance with Annex I of Grant Agreement no. 874421 for the period of 1<sup>st</sup> December 2019 to 31<sup>st</sup> May 2020. It is the first of four digital newsletters that will be published in regular intervals every six months until the end of the project. The content of this deliverable will be publically available and will be shared through the project website and social media publications.

*Keywords: Newsletter, project activities.*



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# 1 Abbreviations and Acronyms

Abbreviation / Acronym	Description
UNIZAG GF	SVEUČILIŠTE U ZAGREBU GRAĐEVINSKI FAKULTET
IPK	INFRA PLAN KONZALTING J.D.O.O.
INGEO	INGEO BV
GEKOM	GEKOM – GEOFIZIKALNO I EKOLOŠKO MODELIRANJE D.O.O.
VRZHZ	VEILIGHEIDSREGIO ZUID-HOLLAND ZUID
ZAG	ZAVOD ZA GRADBENISTVO SLOVENIJE
URSZR	UPRAVA REPUBLIKE SLOVENIJE ZA ZAŠČITO IN REŠEVANJE



## 2 Background

In accordance with Annex I of Grant Agreement no. 874421, ZAG is the lead beneficiary for preparing four six months project newsletters, which are aimed at giving regular updates on the performed project activities. This is the first of four foreseen newsletters and covers the project activities performed in the first six months of the project for the period of 1<sup>st</sup> December 2019 to 31<sup>st</sup> May 2020.



### 3 Overview

The oVERFLOW project is funded under the European Union Civil Protection Mechanism framework, according to the following call topic UCPM-2019-PP-PREV-AG: Prevention in civil protection and marine pollution.

The project commenced on 1<sup>st</sup> December 2019 and 6 months of project activities have been completed to date. The project activities are being carried out according to the Annex I of Grant Agreement no. 874421, which outlines that work plan, including the work packages and the associated tasks, deliverables and milestones.

Table 1 lists the deliverables that were produced during the period 1<sup>st</sup> December 2019 – 31<sup>st</sup> May 2020 of the project and Table 2 lists the milestones that have been achieved during this period.



Table 1. List of Deliverables

Deliverable Number	Deliverable Title	WP	Lead Beneficiary
D1.1	Kick-off meeting report	WP1	UNIZAG GF
D1.2	Project Handbook	WP1	UNIZAG GF
D1.3	6M Financial Report	WP1	UNIZAG GF
D7.1	Digital Newsletter 1	WP7	ZAG

Table 2. List of Milestones

Milestone Number	Milestone Title	WP	Lead Beneficiary
MS1	Kick-off meeting	WP1	UNIZAG GF
MS2	Financial database establishment	WP1	UNIZAG GF
MS3	Six-month progress report (technical and financial) from partners to the coordinator	WP1	UNIZAG GF
MS11	Meeting with CPAs, authorities and IMs in order to discuss the area covered with climate change downscaling and subsequent flood scenarios	WP2	GEKOM
MS12	Agreement on data standards for the IMP	WP2	ZAG
MS14	Agreement with CPAs, IMs and authorities on locations of trial investigation and monitoring activities, as well as on the case study implementation assets	WP3	VRZHZ
MS22	Development of website and opening of social media accounts	WP7	IPK



## 4 Report on the project activities

This report outlines the project activities performed in the first six months of the oVERFLOW project in accordance with Annex I of Grant Agreement no. 874421 for the period of 1<sup>st</sup> December 2019 to 31<sup>st</sup> May 2020. It is the first of four digital newsletters that will be published in regular intervals every six months until the end of the project. The content of this deliverable will be publically available and will be shared through the project website and social media publications.

In the project proposal, it was foreseen that part of the Digital Newsletter would be an article on the kick-off meeting and an article on the demonstration of embankments related activities. It should be noted that the progress of some project activities was somewhat delayed by the COVID-19 pandemic that struck Europe in the first half of 2020. This mainly affected activities related to field demonstration at trial test sites, agreement on data standards and submitting the D2.1 Historical flood events database. These activities will be performed in the following months and will be included in the Digital Newsletter 2 (M12).

The activities performed in the first 6 months of the project were the following:

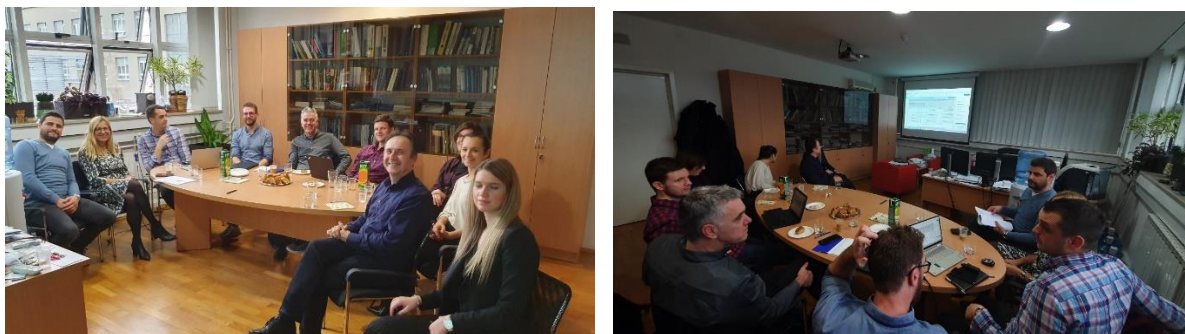
- oVERFLOW kick-off meeting – 5<sup>th</sup> December, 2019, Zagreb
- Joint kick-off meeting – 12<sup>th</sup> February, 2020, Brussels
- Project meeting – 18<sup>th</sup> and 19<sup>th</sup> February, 2020, Zagreb
- Meeting with Croatian Roads – 28<sup>th</sup> February, 2020, Zagreb
- Meeting with Waterboard Hollandse Delta – 3<sup>rd</sup> March, 2020, Dordrecht
- Meeting with Croatian Waters – 25<sup>th</sup> March, 2020, Zagreb
- oVERFLOW 1<sup>st</sup> consortium meeting – 5<sup>th</sup> June, 2020, Zagreb

These activities will be described in more detail in the following chapters.

### 4.1 oVERFLOW kick-off meeting – December, 2019, Zagreb

The kick-off meeting of the oVERFLOW project was organized at Faculty of Civil Engineering, University of Zagreb, on 5<sup>th</sup> December 2019. The meeting was held to discuss the obligations and tasks of each partner and the overall project workflow, as well as to define next steps in the project implementation.

At the meeting representatives of all partners were presented. Three main topics were discussed: project management, work plan and next steps. A report on the activities of the kick-off meeting was published in Deliverable D1.1, which was issued on 29<sup>th</sup> December 2019.



*Figure 1: oVERFLOW Kick- Off meeting*

## 4.2 Joint kick-off meeting – February, 2020, Brussels

A joint kick-off meeting for the representatives of all the projects selected under Call for Proposals UCPM-2019-PP-AG was held. The meeting took place at the European Commission – DG ECHO Auditorium of the Emergency Response Coordination Centre (ERCC) on 12<sup>th</sup> February 2020.

The aim of the meeting was to provide project leaders with practical information on administrative, financial and legal issues and to facilitate networking. oVEFLOW project was presented by the coordinator, Faculty of Civil Engineering University of Zagreb. The presentation can be found on:

[https://ec.europa.eu/echo/funding-evaluations/financing-civil-protection-europe/selected-projects/vulnerability-assessment\\_en](https://ec.europa.eu/echo/funding-evaluations/financing-civil-protection-europe/selected-projects/vulnerability-assessment_en)

## 4.3 Project meeting – February, 2020, Zagreb

oVERFLOW project meeting was organized as a two-day event at the Faculty of Civil Engineering, University of Zagreb on the 18<sup>th</sup> and 19<sup>th</sup> February 2020. The representatives of all consortium institutions attended the meeting. The focus of the meeting was the discussion of the area of climate change downscaling and development of subsequent flood scenarios. In addition, content of individual work packages was presented and the data transfer between work packages was discussed. Special attention was given to the debate regarding the two case study areas, i.e. Dordrecht (Netherlands) for embankments and Karlovac (Croatia) for bridges.



*Figure 2: oVERFLOW Project Meeting – February 2020*

#### 4.4 Meeting with Croatian Roads – February 2020, Zagreb

On the 28<sup>th</sup> February 2020, a meeting was held between the oVERFLOW consortium members and Croatian Roads, as a stakeholder responsible for the management of bridges in Karlovac case study area. The aim of the meeting was to present the project to the Croatian Roads, as well to discuss potential oVERFLOW case study bridges. The meeting resulted in letter of support from Croatian Roads, where an expert in bridges was nominated to collaborate closely with oVERFLOW consortium members.

#### 4.5 Meeting with Waterboard Hollandse Delta – March, 2020, Dordrecht

On the 3<sup>rd</sup> March 2020, a meeting was held between the oVERFLOW consortium members and Waterboard Hollandse Delta, Safety Region Zuid-Holland Zuid. The aim of the meeting was to present the project to the Waterboard, as well to discuss potential oVERFLOW case study location within the Safety Region Zuid-Holland Zuid. The meeting included site visit of flood protection systems of the area.



*Figure 3: Meeting with Waterboard Hollandse Delta – March 2020*

## 4.6 Meeting with Croatian Waters – March 2020, Zagreb

On the 25<sup>th</sup> March 2020, a meeting was held between the oVERFLOW consortium members and Croatian Waters, as a stakeholder responsible for the management of flood protection systems in Karlovac case study area. The aim of the meeting was to present the project to the Croatian Waters, as well to discuss potential oVERFLOW case study embankments. The meeting resulted in letter of support from Croatian Waters, where an expert in flood protection systems was nominated to collaborate closely with oVERFLOW consortium members.

## 4.7 oVERFLOW 1st consortium meeting – June, 2020, Zagreb

The 1<sup>st</sup> consortium meeting of the oVERFLOW project was organized at Faculty of Civil Engineering, University of Zagreb, on 5<sup>th</sup> June 2020. Despite the situation with COVID-19, representatives of all partner institutions attended the meeting, with the representative of VRZHZ being present on-line. The main objective of the meeting was to give an update on progress of the project activities after the period of disruption caused by the COVID-19 situation. The consortium partners reported that the pandemic affected the progress of some activities. However, it was concluded that the delay could be catch up in the following months. The consortium partners also gave update on the meetings held with the stakeholders.





*Figure 4: oVERFLOW 1st consortium meeting – June 2020*

The afternoon part of a meeting included visit to the case study area of city of Karlovac, in order to select the most vulnerable bridges crossing the Kupa river. A short meeting with representatives of Croatian Roads was held at their offices, followed by the visit to 4 bridges in the city centre.

After the inspection of the bridges, two of them were selected as potential candidates for being instrumented and tested in the following phase:

- road bridge on state road DC 1 ('prilaz Vjeceslava Holjevca')
- road bridge on local road ('Banijski bridge')

The two selected bridges are burdened by many problems, including foundation scouring, bad condition of deck, drainage issues etc. In addition, both bridges represent critical assets of the transportation infrastructure of the city of Karlovac.

The representatives of stakeholders agreed to send the project documentation for these bridges, which will serve as a starting point for the investigation activities.



*Figure 5: Consortium members next to the road bridge on state road DC 1 (left), and next to the Banijski road bridge (right)*



## 5 Conclusion

This report outlines the project activities performed in the first six months of the oVERFLOW project in accordance with Annex I of Grant Agreement no. 874421 for the period of 1<sup>st</sup> December 2019 to 31<sup>st</sup> May 2020. It is the first of four digital newsletters that will be published in regular intervals every six months until the end of the project. The content of this deliverable will be publically available and will be shared through the project website and social media publications.

The progress of the project oVERFLOW can be followed on our web page:

<https://projectoverflow.eu/>

and oVERFLOW project social media profiles:

Facebook: <https://www.facebook.com/OVERFLOW-project-108534450696939/>

Twitter: <https://twitter.com/oVERFLOWprojec1>

LinkedIn: <https://www.linkedin.com/in/overflow-project-541b101a0/>