**EO- PERSIST: Team Meeting Report #01**

**Project:** EO-PERSIST **Document\_Type:** Team Meeting Report **Meeting Number:** 01

**Meeting Purpose:** Definition of Individual Research Contributions and Project Workflow

**Date:** December 19, 2024

**Authors:** Alexandros Liaskos, Eleni Achmakidou, Konstantina Lymperopoulou

# Table of Contents

1. Meeting Objectives
2. Team Members
3. Team Goals and Deliverables
4. Contribution of Alexandros Liaskos
5. Contribution of Eleni Achmakidou
6. Contribution of Konstantina Lymperopoulou

# Meeting Objectives

This initial team meeting was convened to:

* Establish clear roles and responsibilities for each team member
* Define individual research contributions and expected outcomes
* Outline publication strategy and research papers
* Determine team's project structure and workflow
* Align team understanding of project goals

# Team Members

|  |  |  |
| --- | --- | --- |
| **SUPERVISORS** | **BENEFICIARY RESEARCHERS** | **SUPPORT** |
| Prof. George Petropoulos | Alexandros Liaskos | Dr. Eleana Karkani |
| Prof. Niki Evelpidou | Eleni Achmakidou | Nektarios Tselos |
|  | Konstantina Lymperopoulou | Spyros Detsikas |
|  |  | Prof. Petropoulos's research team |
|  |  | Prof. Evelpidou's research team |

**Team Goals and Deliverables**

**Focus Area:** Arctic coastal evolution and modelling

**Team Goal:** Contributing to the project's "Coastal monitoring and modeling (UC3)".

## Deliverables:

* Automated vulnerability assessment system (Software Development) [LIASKOS]
* Software deployment to an existing platform (Software Deployment) [LIASKOS]
* Development of a new European revised CVI [LYMPEROUPOULOU]
* SEVI adaptation (SEVI) [LYMPEROUPOULOU]
* CVA Case Studies

Alternative and additional Deliverables:

* + CVA of Swedish coastlines at risk
  + Review Paper

# Contribution of Alexandros Liaskos

## Primary Responsibilities:

* Development of an automated CVA assessment system
* Software deployment and platform integration

## Deliverables:

* Automated vulnerability assessment software
* Technical documentation
* Research papers

## Technical Background for potential advancements:

* Coastal Research Experience:

o Published paper: "Coastal erosion: the future of sandy beaches" (2021)

* Thesis: CVA automation framework in ArcGIS Pro with ArcPy and custom Python
* Automated acquisition and processing of CVI parameters from Sentinel-2 images
* Coastline and coastal features extraction through Spectral Analysis and ML from Sentinel-2 images

o Satellite image acquisition and batch image set-topology analysis in Google Earth Engine and with Copernicus OData API in custom web platforms

* Relative Programming Experience:
* Python in ArcGIS Pro + ArcPy
* Data Science with Python's Data Structures and Algorithms
* GeoPandas, Shapely, Rasterio, NumPy, GOAL, PyTorch, TensorFlow, SciPy, scikit-learn
* Google Earth Engine

o Turf.js

o Copernicus OData API

o ArcGIS API

## Project Experience:

* Personal projects
* Freelance development projects for clients
* Development of geospatial analysis solutions personal business
* Projects with the research team of Prof. Evelpidou Additionally I have experience and knowledge in:
  + Web development (React-based, MD-based Documentations)
  + Business organization and project management (Archimedes)
  + Professional documentation and technical writing (Github)

# Contribution of Eleni Achmakidou

## Potential Primary Responsibilities:

* CVA of Swedish coastlines at risk
* Review Paper

## Potential Deliverables:

* CVA Case Study in Sweden
* Research Papers
* Review Paper

## Technical Background for potential advancements:

* Fieldwork experience
* Mapping, Sampling, and Geoprocesses Identification
* Laboratory Analysis
* Vulnerability assessment
* ArcGIS Pro
* Surfer

## Relative Experience:

* CIVIS-BIP: "Coastal Zone Geomorphological Interactions: Natural vs Human-induced Factors"
* CIVIS-BIP: "TRANSMOUNT - Transitions in Mountain Environments"
* Projects with the research team of Prof. Evelpidou
* Communication of Geology to the general public and local

# Contribution of Konstantina Lymperopoulou

## Primary Responsibilities:

* Development of a new European revised CVI
* SEVI adaptation (SEVI)
* CVA Case Studies

## Deliverables:

* Research Papers

## Technical Background for potential advancements:

* Data Analysis
* Geomorphological Identification and Evaluation
* Sampling and Laboratory Analysis
* ArcGIS Pro
* DSAS
* GNSS RTK
* Surfer

## Relative Experience:

* Thesis: "Tidal Notches in the Mediterranean Sea: Spatial Analysis and Sea Level Changes"
* CIVIS-BIP: "Climate Change and Landscape Evolution in the Mediterranean context"
* Project for coastal erosion in Greece with application of CVI
* Projects with the research team of Prof. Evelpidou

*Report prepared by: Alexandros Liaskos, Eleni Achmakidou, Konstantina Lymperopoulou Date: December 19, 2024*