RIVIERADE

Kick-off meeting

Trieste 16-18 Feb 2026

PARTNER INTRO

[Project Partner Representative]

This project has received funding from Horizon Europe RIA under Grant Number 101181983

Please give some information about researchers involved in the Team (pictures welcome)

Partner Team: IHE Delft, Netherlands

Rosh Ranasinghe

- Professor at IHE Delft/Univ of Twente
- Senior Specialist at Deltares
- Lead Author, IPCC AR7 WGI.
- Expert Scoping Team, IPCC AR6 WGI.
- Coordinating Lead Author, IPCC AR6 WGI.

Trang Duong

- Senior Lecturer at IHE Delft/University of Twente
- Coastal climatic impact modelling specialist.
- Review Editor, IPCC AR7 WGII.

Ali Dastgheib

- Associate Professor at IHE Delft
- Innovation manager at IMDC
- Coastal hazard and risk modelling specialist

Johan Reyns

- Lecturer at IHE Delft
- Senior Researcher at Deltares
- Coastal numerical modelling specialist
- Contributing Author, IPCC AR6 WGI

PhD student
(starts Jan 2027)

Please give some brief overview about how the Partner will contribute to different WPs

IHE Delft: Contributions to WP5 (M18-M44)

Rivierade *downscaled* Relative Sea Level Rise (RSLR) and Extreme Sea Levels (ESL) for the 3 target basins (~12 km along-coast resolution)

- present-day conditions (hindcast 1961-2020)
- Multi-decadal RSLR and ESL* projections (2020-2100; 10yr blocks: SSP1-2.6 and SSP3-7.0)
- Decadal RSLR and ESL** projections
- Uncertainty quantification by comparing multi-decadal and decadal ESLs

**Multi-decadal ESLs at a number of return periods (1, 5, 10, 20, 50, 100, 200, 500, 1000)*
** *Decadal ESL at 100 yr RP only?*

Please give some brief overview about how the Partner will contribute to different WPs

IHE Delft: Contributions to WP6 (M36-M44)

Basin scale: *Coastal flooding* (all RPs) and *Shoreline change* for the 3 target basins (~1 km along-coast resolution)

- **Present-day** conditions (baseline)
- **Multi-decadal** projections (2030, 2050, 2100 for SSP1-2.6 and SSP 3-7.0)
- EAPA and EAD for coastal flooding (2030, 2050, 2100 for SSP1-2.6 and SSP 3-7.0)
- Assets and Population at risk, Perception of safety from coastal erosion?

Local scale

- High res **Coastal flood risk** (baseline and projections) in Trieste Port area, EAPA, EAD (10m res, same SSPs and time periods as above),
- High res **coastal erosion risk** (baseline and projections) in selected locations in the Grado-Rimini area, EAPA, EAD (10m cross-shore, same SSPs and time periods as above)

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