

Iceland  
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## Oeste Adapta

PLANNING MUNICIPAL CLIMATE ADAPTATION IN  
THE OESTE REGION

PRESENTATION OF THE PROJECT CANDIDATE TO THE 'ENVIRONMENT, CLIMATE  
CHANGE AND LOW CARBON ECONOMY' PROGRAMME

Programme Operator



Project Promoters



# Oeste Adapta

## PLANNING MUNICIPAL CLIMATE ADAPTATION IN THE OESTE REGION



## Project ID

### Name of the project

- Oeste Adapta – Planning Municipal Climate Adaptation in the Oeste Region

### Project promoter

- OesteCIM - Comunidade Intermunicipal da Região Oeste

### Project partners

- Centro de Estudos e Desenvolvimento Regional e Urbano, Lda
- Western Norway Research Institute - Vestlandsforskning

### Budget

- Total budget: 233.640€
- Project grant: 198.594€ (85%)

### Duration

- 24 months

### Territorial scope

- Municipalities of Alcobaça, Alenquer, Arruda dos Vinhos, Bombarral, Cadaval, Caldas da Rainha, Lourinhã, Nazaré, Óbidos, Peniche, Sobral de Monte Agraço and Torres Vedras

# Partnership

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## OesteCIM

The Intermunicipal Community is a public entity with an associative nature, that pursues interests common to the municipalities of the Oeste region.

It is the project's leading entity ensuring general coordination, the management of the articulation process with the 12 partner municipalities, the operational management of the training programme for local adaptation to climate change and the institutional communication program.



## CEDRU

CEDRU is a consulting company with extensive experience in planning adaptation to climate change, having coordinated the Intermunicipal Plan for Climate Change Adaptation in the Oeste Region

It is the entity responsible for the technical-scientific coordination of the processes for the preparation of Municipal Plans and the technical training programme for local adaptation to climate change.



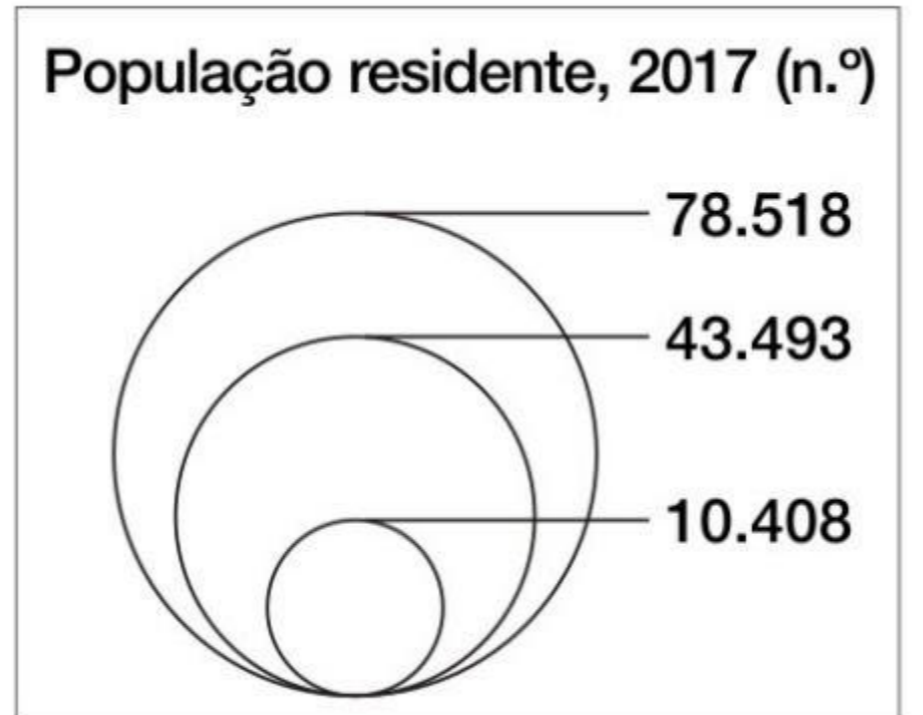
## Western Norway Research Institute (WNRI) - Vestlandsforskning

WNRI (Vestlandsforskning in Norge) is a research institute created in 1985.

Amongst other roles, it guarantees technical assistance in the training programme and knowledge transfer in climate change adaptation and community awareness.

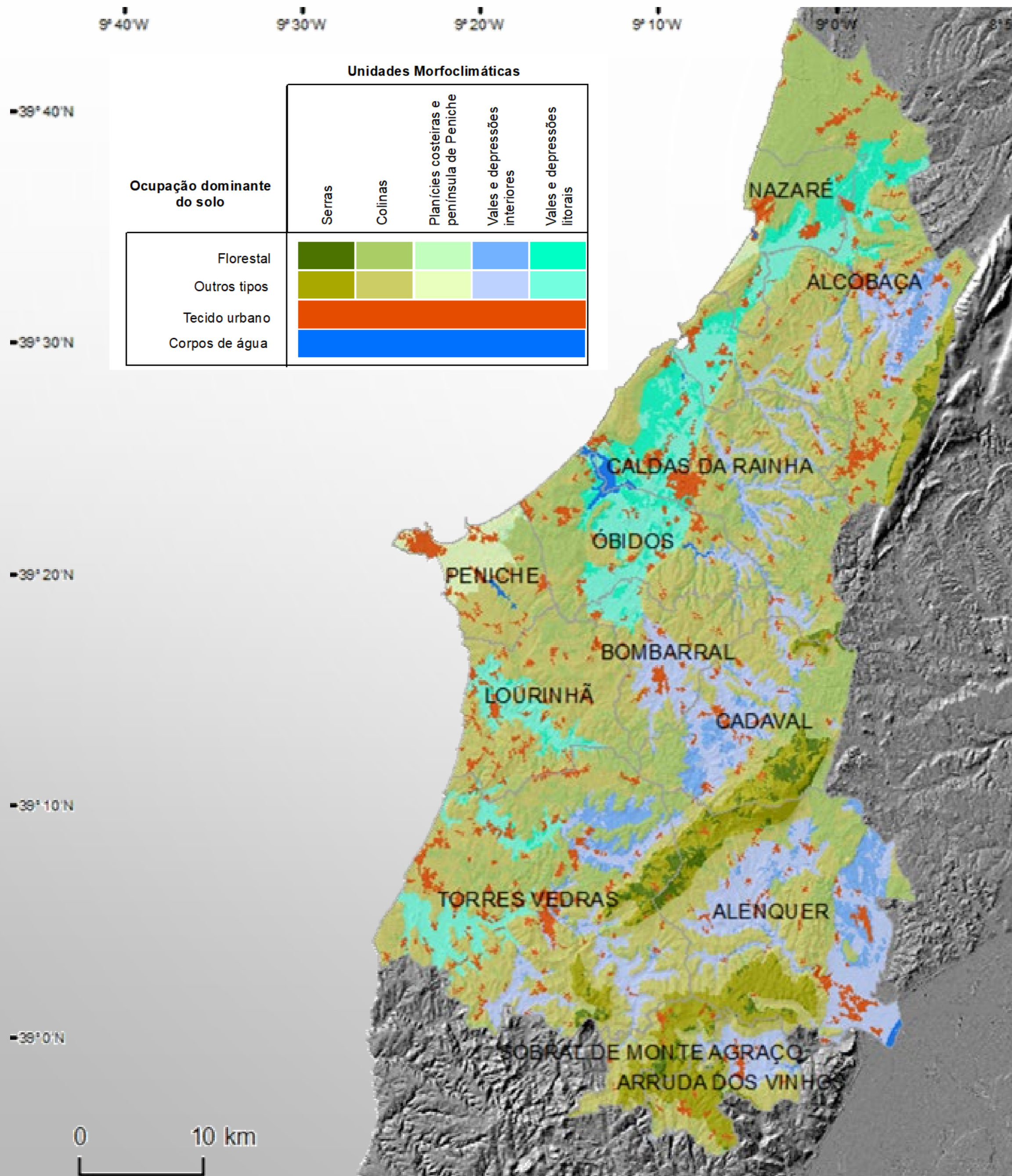


# Other partners



## Oeste Municipalities

The 12 Municipalities of the Oeste region will also be partners in this project, collaborating in the development of their Municipal Plans for Climate Change Adaptation, involving their staff in the training process and mobilizing local stakeholders and their organizations to participate in the planning and action processes for local adaptation to climate change.



# Changing climate

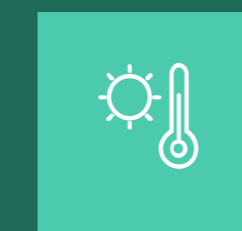
## Evolution and scenarios

The analysis of climate evolution between 1971 and 2016 and the climate scenarios for 2071 and 2100, elaborated in OestePIAAC, show a climate marked by rising temperatures, worsening of extreme heat events, reduction of precipitation and rising sea levels.



### Temperature

Increase of the average annual temperature between +1,6 °C and + 3,1°C



### Heat waves

Increase of the number of days in heat wave between +7 and +13 days



### Precipitation

Reduction of average annual precipitation between -5% and -16%



### Sea level

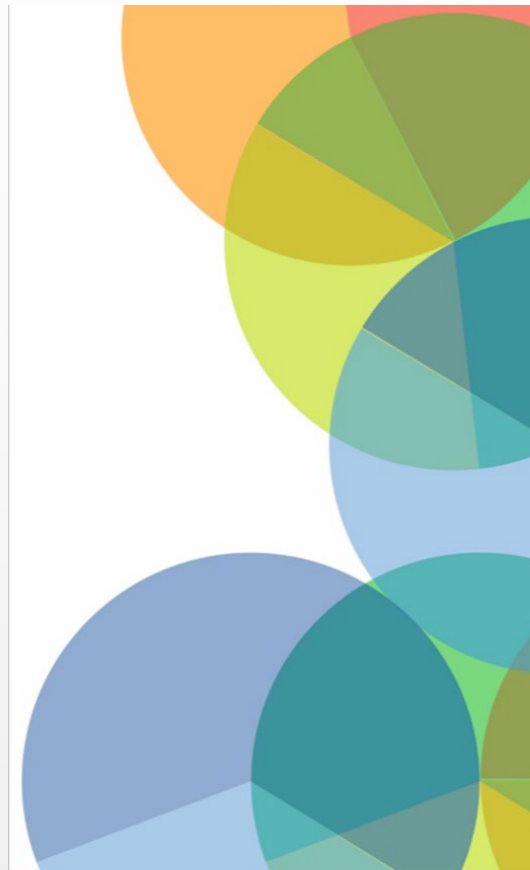
Rise of mean sea level up to 1,2 m



# Project mission

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## Oeste Adapta PLANNING MUNICIPAL CLIMATE ADAPTATION IN THE OESTE REGION



Climate change is the greatest global challenge in terms of sustainable development and the greatest environmental threat of the 21st century. Its impacts will be complex, disruptive and demanding for communities, activities and public policies, with profound and transversal consequences in the environmental, social and economic systems.

The answer to this challenge of Humanity is made at all scales and in all places. Through decarbonization, but also by adapting societies, the economy and territories to a new climate.

Preparing the municipalities of the Oeste region for climate change is an urgent challenge. A planning, training and mobilization challenge for climate action with social and territorial justice that guarantees intergenerational equity.

“

*We are in a race against time to adapt to a rapidly changing climate. Adaptation must not be the forgotten component of climate action. We need to move to large-scale, preventive and systematic adaptation support.*

”

UN Secretary-General, António Guterres (December 2020)

# Objectives

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## downscaling

Integrate the Intermunicipal Plan for Climate Change Adaptation in Oeste at a municipal scale.



## planning

Provide municipalities with an instrument for planning adaptation to climate change that increases local resilience.



## training

Train municipal staff in the field of local climate adaptation.



## mainstreaming

Integrate adaptation to climate change into municipal policies, plans and strategies.



## operationalize

Define the operational framework for adapting to climate change by 2030.



## raise awareness

Increase the awareness of stakeholders and the population in general, to the challenges of climate change.



# Background

## Planning local adaptation to climate change

Since the National Adaptation Strategy (ENAAC, 2009), the local scale has been recognized as central to adapting to climate change in Portugal given the eminently territorial nature of climate vulnerabilities.

2016

## Torres Vedras Municipal Strategy for Climate Change Adaptation

Developed within the scope of the ClimAdaPT.local project with funding from EEA Grants, it is one of the first municipal experiences of strategic planning for adaptation to climate change. It constitutes an inspiring experience for the project.

2018

## Oeste Intermunicipal Climate Change Adaptation Plan

Prepared by OesteCIM with EU funding from POSEUR, OestePIAAC aimed to increase knowledge about the phenomenon of climate change and to point out sub-regional and sectoral lines of intervention to reduce climate vulnerability. It constitutes an essential information base for municipal planning.





# Project components

## Municipal plans for climate change adaptation



- Develop Climate Change Adaptation Plans in municipalities without a local planning instrument for adapting to climate change.
- Elaborate a Municipal Plan for Adaptation to Climate Change in a municipality (Torres Vedras) with a Municipal Strategy for Adaptation to Climate Change.

## Training programme in planning and assembling climate change adaptation operations



- Conducting workshops and webinars for training municipal staff in the departments of urbanism, environment and civil protection.
- Conducting municipal training meetings with elected officials and staff from the departments of urbanism, environment and civil protection.

## Regional and local awareness for climate change



- Conducting local adaptation councils, with the participation of local stakeholders and entities, to raise awareness and share knowledge about the challenges and measures related with climate adaptation.
- Regional seminars on local adaptation to climate change.

# Municipal plans for climate change adaptation

## MANAGEMENT AND MONITORING

- Management and accompaniment model
- Monitoring and evaluation system

6

## MAINSTREAMING

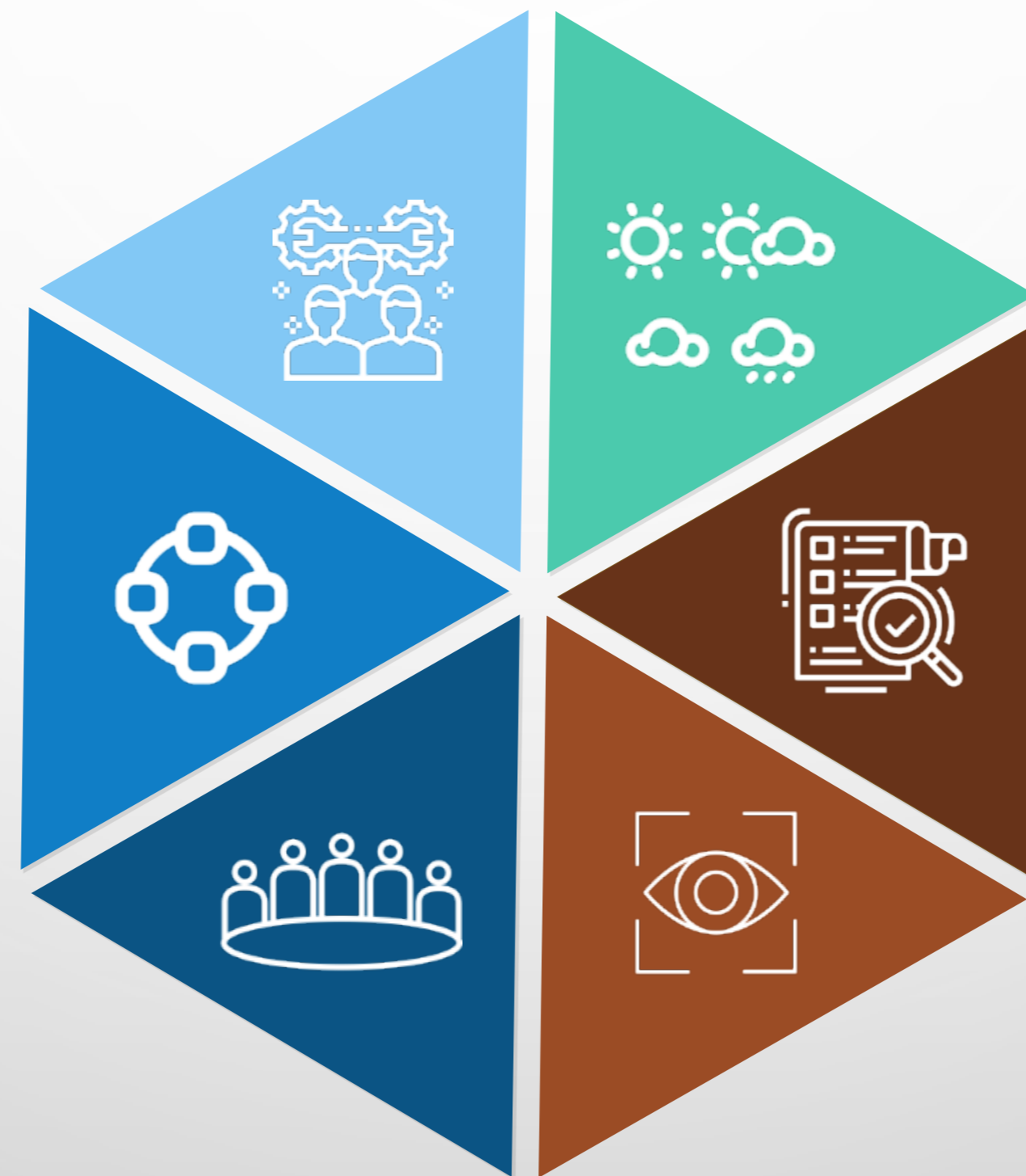
- Integrating adaptation in municipal land use planning
- Local mainstreaming of adaptation

5

## OPERACIONAL STRATEGY

- Local strategy for climate change adaptation
- Local adaptation action plan

4



## REFERENCE FRAMEWORK

- Reference framework in climate change adaptation
- Climatic characterization of the municipality
- Climatic scenarization of the municipality

1

## EVALUATION

- Climate risks
- Present climate impacts
- Climate sensitivity
- Adaptive capacity
- Present climate vulnerabilites

2

## PROSPECTIVE

- Future climate impacts
- Future climate vulnerabilites
- Priority vulnerable territories

3

PHASE 1 [3 MONTHS]

Bioclimatic characterization and climate change scenarization

PHASE 2 [9 MONTHS]

Evaluation of presente and future climate impacts and vulnerabilites

PHASE 3 [12 MONTHS]

Adaptation strategy and action plan

# Training programme in climate change adaptation

## MANAGEMENT AND MONITORING

- Webinar #6 Management, accompaniment and monitoring of local adaptation

WB 6

## MAINSTREAMING

- Webinar #5 Integration of adaptation in local planning and adaptation mainstreaming

WB 5

## OPERACIONAL STRATEGY

- Workshop #3 Local adaptation strategy and planning
- Technical municipal meetings

WS 3

RT 1

## REFERENCE FRAMEWORK

- Workshop #1 Methodology to develop municipal adaptation plans

WS 1

## EVALUATION

- Workshop #2 Climate scenarios, risks and impacts
- Webinar #1 Evaluation of climate sensitivity
- Webinar #2 Evaluation of adaptive capacity

WS 2

WB 1

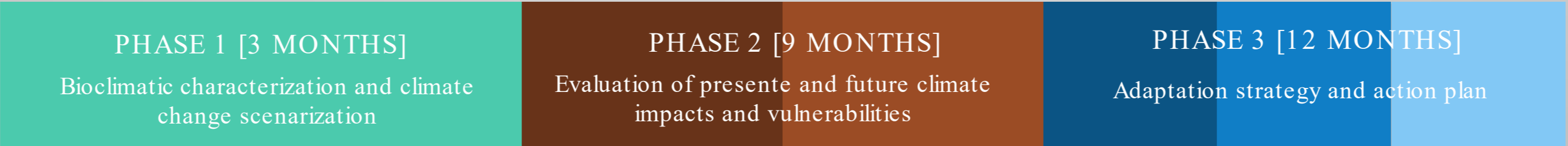
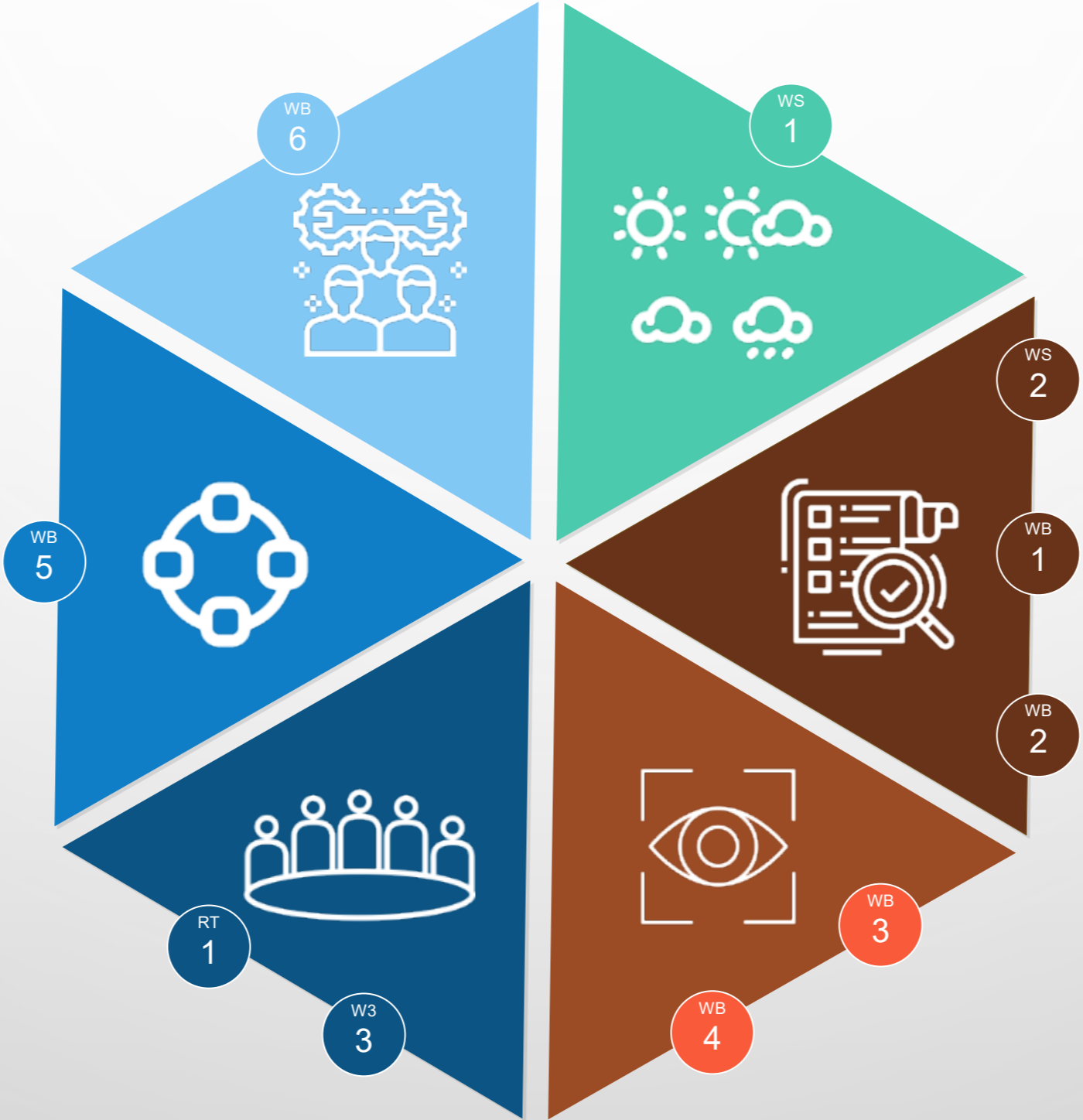
WB 2

## PROSPECTIVE

- Webinar #3 Evaluation of future climate impacts and vulnerabilities
- Webinar #4 Identification of priority vulnerable territories

WB 3

WB 4





# Regional and local awareness for climate change

- **Closing Seminar – Local adaptation in the Oeste region.** Presentation of municipal adaptation plans and action programs for 2030.

4

- **Local Adaptation Councils.** 12 sessions with local civil society organizations to raise awareness of the impacts of climate change and discuss local adaptation measures and actions to be adopted.

3



- 1 • **Project website.** Platform for permanent communication of the project and dissemination of information on the impacts and vulnerabilities of climate change in the Oeste region and the measures and actions to be adopted.
- 2 • **Launch seminar.** Presentation of the project and planning practices and adaptive climate action at the local level.

PHASE 1 [3 MONTHS]

Bioclimatic characterization and climate change scenarization

PHASE 2 [9 MONTHS]

Evaluation of presente and future climate impacts and vulnerabilities

PHASE 3 [12 MONTHS]

Adaptation strategy and action plan

# Vestlandsforskning participation

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1

## Launch Seminar (June 15<sup>th</sup> 2021)

- Presentation of Vestlandsforskning mission, activities and experience
- Presentation of project 'Survey to norwegian municipalities about climate change adaption'

2

## Local adaptation councils (September 2022)

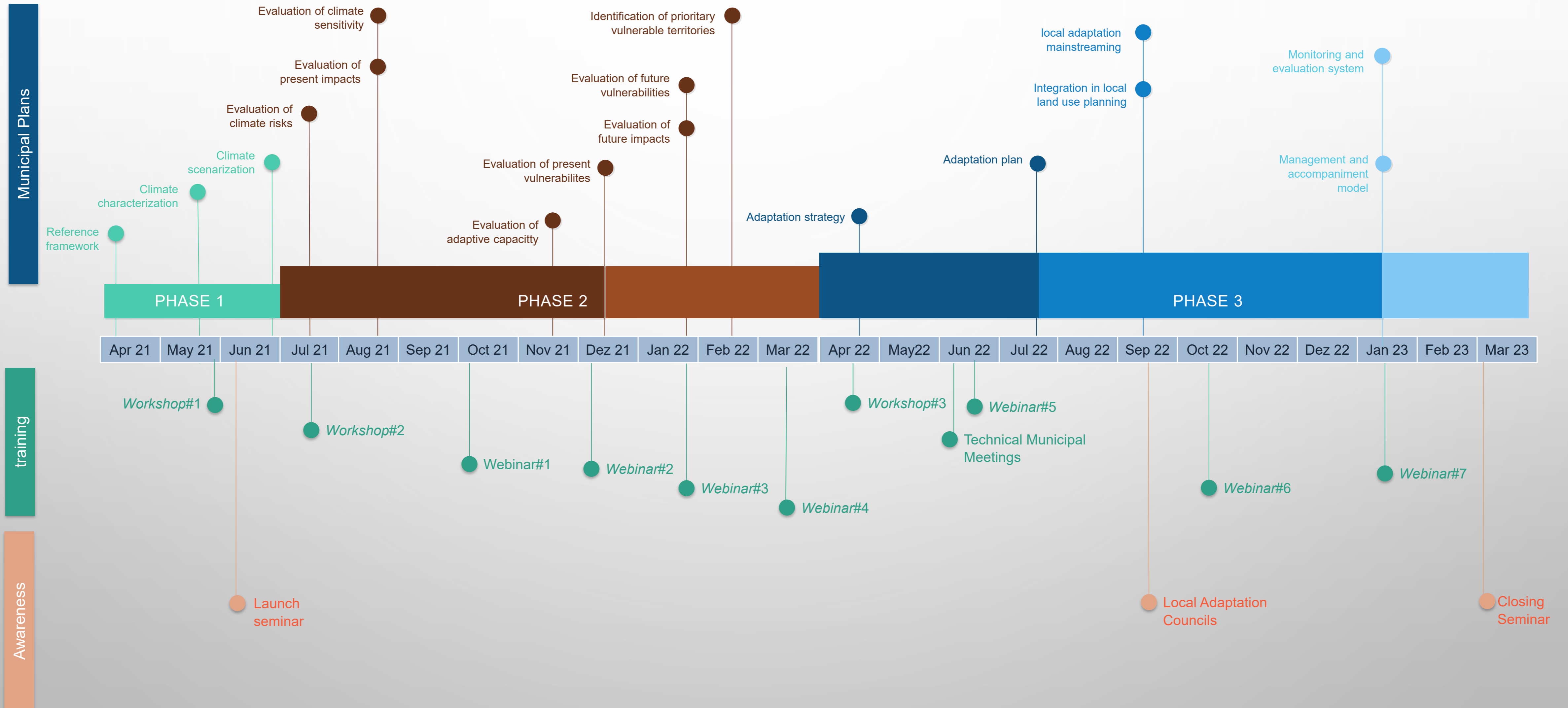
- Benchmarking of global examples of climate adaptation projects that can inspire the adoption of similar adaptation actions in Oeste
- Preparation of a short video (15 min) presenting the benchmarking of adaptation projects, directed to stakeholders – to be screened in the 12 local adaptation councils (presential or online)

3

## Closing Seminar (March 2023)

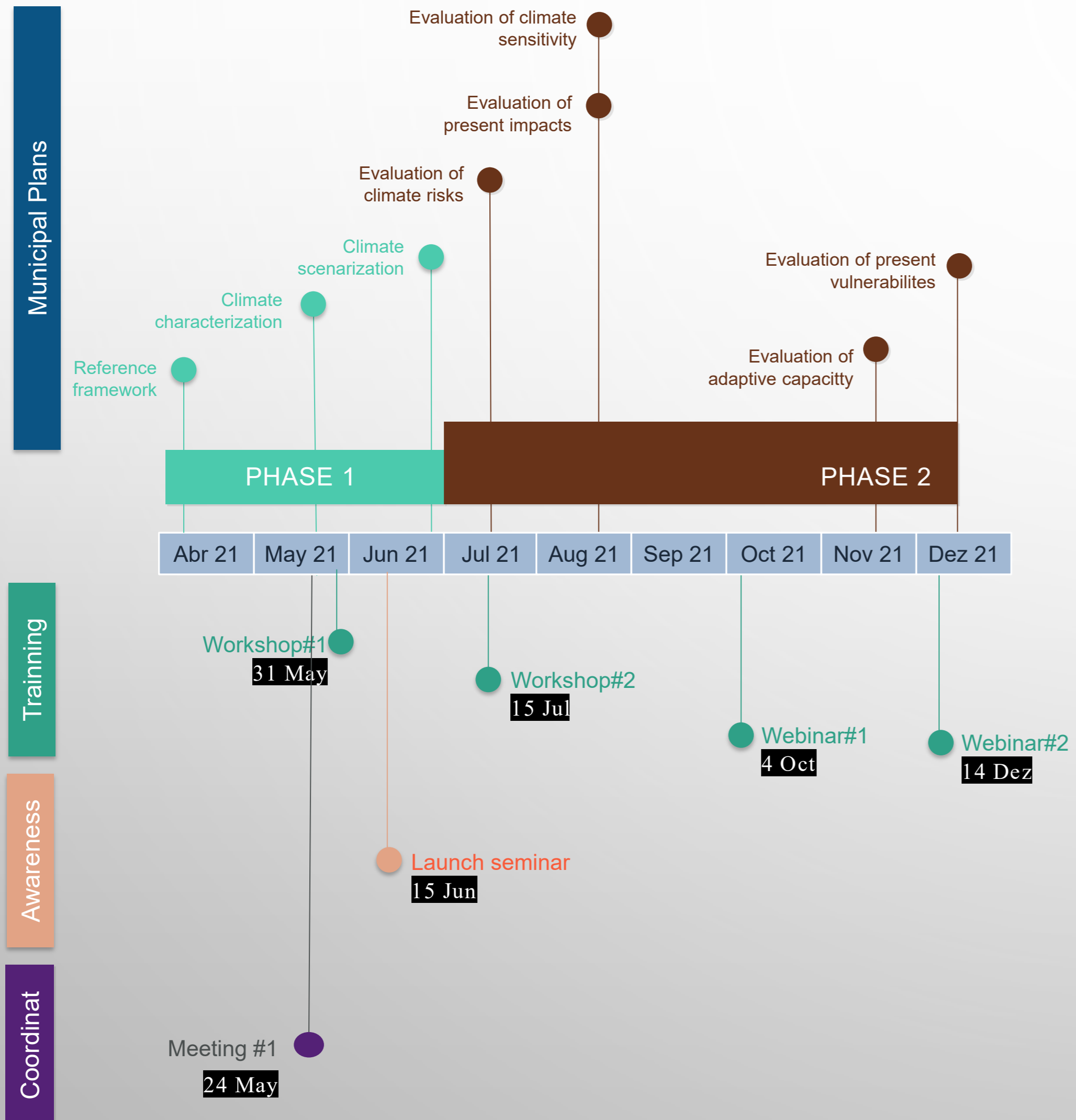
- Presentation of project results and reflection on next steps (implementation), weighing in on the Norwegian experience in climate change adaptation

# Implementation programme





# Implementation programme



# Results

## Planning



Municipalities  
with Adaptation Plan

12



People  
beneficiaries of  
adaptation plans

360.090

## Training



Workshops  
of technical training

3



Meetings  
with municipal staff

12



Staff  
with training in  
adaptation

36



Staff  
Involved in the planning  
process

72

## Awareness



Councils  
on local adaptation

12



Seminars  
on adaptation  
(regional)

2



Participants  
In Local Adaptation  
Councils

480

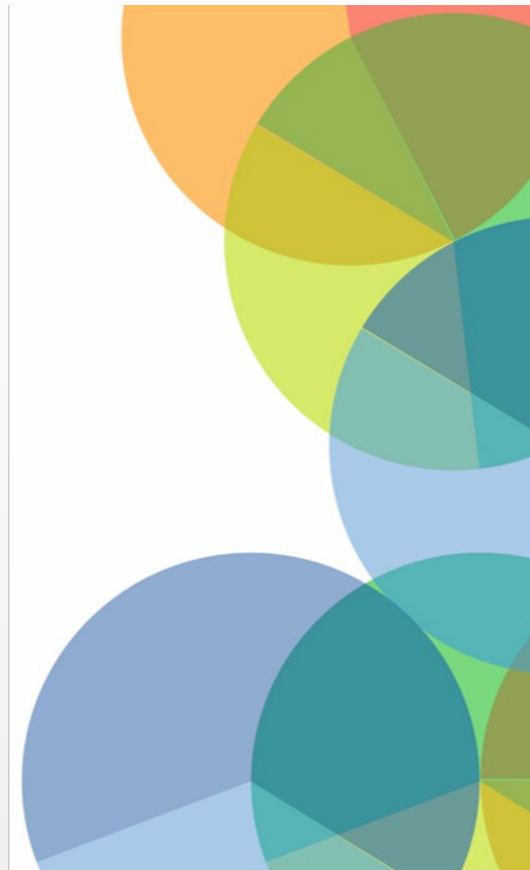


Participants  
In Regional Adaptation  
Seminars

200

# Administrative and Financial Issues

## Oeste Adapta PLANNING MUNICIPAL CLIMATE ADAPTATION IN THE OESTE REGION



**OesteCIM is responsible for these responsibilities before the Secretary General for Environment:**

- Submission and prior validation of all documents and information
- Centralisation of all communication, in particular with regard to the technical and financial monitoring of the Project
- Submission of the schedule for carrying out work and the respective financial programming, as well as the Communication Plan
- Good organisation of the Project Dossier

### **Payment:**

Advances, interim payments and payment of the final balance

### **Budget by Partner (total):**

OesteCIM: 23.880 €  
CEDRU: 192.480 €  
Vestlandsforskning: 17.280 €

### **Budget by year (financing):**

2021: 102.077,32 €  
2022: 93.934,96 €  
2023: 2.581,72 €



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## Oeste Adapta

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Operador do Programa



Promotores do Projeto

