

# Il progetto AdriaClim

AdriaClim | PP11 | ARPA FVG

Presentazione interna | Palmanova | 11 January 2021

# AdriaClim: progetto strategico INTERREG IT-HR

Strategic theme: 2 - **Climate change adaptation**

Specific objective: 2.1 - Improve the **climate change monitoring** and **planning of adaptation measures** tackling specific effects, in the cooperation area

<b>Project acronym</b>	AdriaClim
<b>Project title</b>	Climate change information, monitoring and management tools for adaptation strategies in Adriatic coastal areas
<b>Start date</b>	01/01/2020
<b>End date</b>	31/12/2022



SAFETY AND RESILIENCE

S.O. 2.1



# AdriaClim: obiettivo generale e principale

## Project overall objective

The main objective of AdriaClim is **to improve climate resilience in the cooperation area**, by increasing the capacity to develop new climate adaptation plans and update existing ones and develop mitigation strategies based on high resolution, more accurate and reliable climate information (**observations and integrated modeling**) focused on the coastal and marine areas (threatened by risks such as sea level rise, sea temperature and salinity anomalies, coastal erosion and salinization of freshwater) and related economic sectors and ecosystem services. AdriaClim aims at developing an Adriatic scale regional plus local scale for each Pilot **integrated information systems composed by hydro-meteo-marine climatological databases (model scenarios and observation) and knowledge-based tools (e.g indicators)** for advanced dynamical implementation of regional climate adaptation plans relevant and accessible for entire the Programme area and Countries.

# Sintesi dei risultati progettuali attesi

## Project results

AdriaClim will improve the knowledge on climate change and it will achieve the following results:

- ❑ To **improve and harmonize the access to observing and modelling tools and products** (data platform, distributed database, innovative access tools) by setting up crossborder methodologies/protocols;
- ❑ To **set up new and improve existing regional and coastal high-resolution integrated meteo-hydro-ocean and ecological climate monitoring systems (observations and models)**. 7 integrated monitoring systems each focusing of different variables will be put in place dealing with different typologies of data: sea level, temperature, salinity, sediment, carbon, nutrients, ecosystem variables, atmospheric and ocean variables
- ❑ To **assess the impacts, vulnerability and risks and develop maps and indexes for pilot case studies** on the blue economy (aquaculture, tourism); marine ecosystems services by Marine Protected Areas (MPA); coastal towns (population), and ports.
- ❑ To **design adaptation plans** (at least 3 in IT and 2 in HR) at different scale (e.g. local and regional) to be adopted by the relevant authorities in coastal territories
- ❑ To **organize workshops to present future climate conditions and impacts**
- ❑ To **organize trainings for public and private stakeholders** on adaptation measures, governance systems, monitoring of the actions, for the creation of new jobs in the field of adaptation and mitigation.
- ❑ To **set up a Transnational Expert Management Body (TEMB)**

# Continuità e portabilità dei risultati progettuali

## Outputs and results durability

AdriaClim will increase the capacity of climate change monitoring and of developing advanced climate adaptation planning increasing the level of resilience of the whole Adriatic Sea coastal areas. It will therefore increase the population benefiting from adaptation and mitigation actions planning. **The tangible outputs such as the monitoring systems will last after the project end since they are all based on present and future capacities and operational systems maintained by environmental protection agencies and national institutes.** Moreover, the **adaptation planning capacities will be developed with local, regional, and national authorities that will validate them and will have the interest in maintaining them also after the project end.**

## Outputs and results transferability

All monitoring (observations and models) products developed in AdriaClim will become part of the operational chains of the environmental protection agencies at regional and national level, municipalities and regional authorities present in the project. Furthermore **the adaptation plans and decision support tools developed will be used and adopted by the project relevant partners and shared with stakeholders also external to the project.** The **availability of the project outputs through a Web Portal information system will increase the potential of transferability of the project results to other national, regional agencies and municipalities around the Adriatic basin.**

# I due principali risultati progettuali

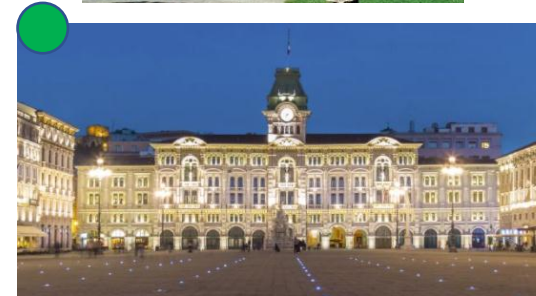
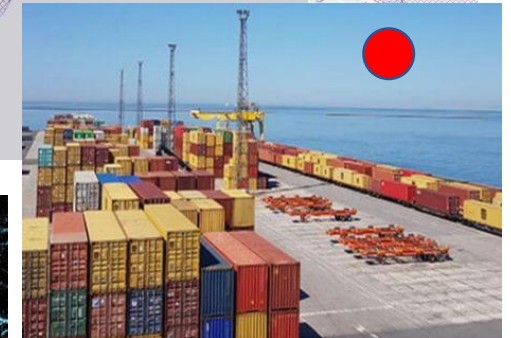
## Climate change monitoring (observation and modelling) systems

The project will foster collaboration among Croatian and Italian partners for improving and setting up cross-border methodologies/protocols on coastal/marine monitoring with a **focus on harmonizing and improving accessibility of observing and modeling tools and products**. It will contribute to **develop the Adriatic Sea regional integrated Monitoring Systems focus on hydro-meteo-marine climatological dimension**. **Integrated monitoring systems** will be put in place: 4 in Italy (EMR, Puglia, Veneto and FVG) and 4 in Croatia (Split, Neretva, Northern Adriatic, Slano bay) dealing **with different typologies of data (e.g. Sea level, sediments, nutrients, carbon dynamics, etc.)**. The **monitoring systems include also integrated modelling tools both at Adriatic Basin scale and high resolution coastal scale for pilots**. **Workshops and trainings addressed to stakeholders will be carried out at each *pilot*** also with the aim of optimal planning of the monitoring systems.

## Adaptation and mitigation plans/measures

**Climate change risks and vulnerability maps will be developed for each targeted *pilot* case study**. Workshops and trainings addressed to stakeholders together with **participatory actions will be carried out at each *pilot* in order to analyse requirements and present results**. At least 5 **local/regional adaptation plans/measures will be designed and adopted/updated by relevant authorities** in coastal territories. **Permanent cross-border Expert Management Body will be set up** and will help to foster the collaboration on adaptation planning and mitigation measurements among Italian, Croatian and International institutions.

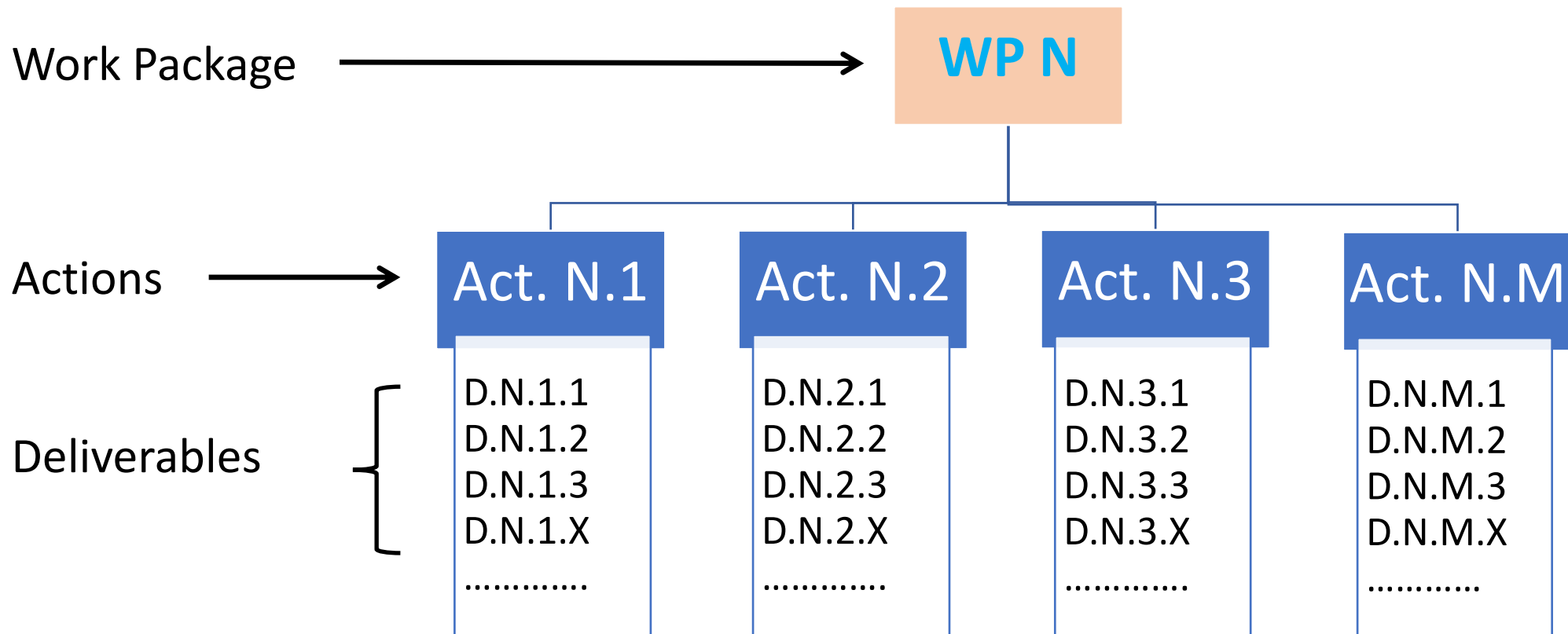
# La Pilot di PP11 – ARPA FVG



## Pilot area features

- Environment type: coastal areas, lagoon and open sea
- Relevant ecosystems: **Natura 2000 sites**
- Important anthropic activities: **harbors**, **tourism**, **historical sites**

# Work Packages – le actions e le deliverables



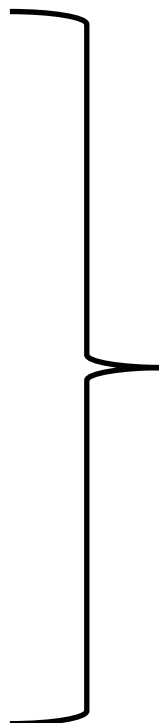


# Periodi progettuali

Reporting period    Timeframe    Deadline for submission of the Progress Reports/Final Report

M01-06	M07-12	M13-18	M19-24	M25-30	M31-36
P1	P2	P3	P4	P5	P6

1	[January-June 2020]	[30/09/2020]
2	[July-December 2020]	[31/03/2020]
3	[January-June 2021]	[30/09/2021]
4	[July-December 2021]	[31/03/2021]
5	[January-June 2022]	[30/09/2022]
6	[July-December 2022]	[31/03/2023]

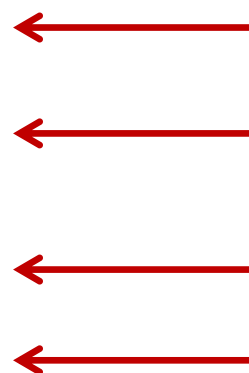


Sono le scadenze fondamentali sullo stato di avanzamento del progetto

Molte altre scadenze riguardano le specifiche deliverable

# WP1 Project Management

WP1	Project management	Timeframe
1.1	START-UP ACTIVITIES	M1-M6
1.2	DAY-TO-DAY PROJECT MANAGEMENT, COORDINATION AND INTERNAL COMMUNICATION	M1-M36
1.3	STEERING AND MONITORING OF THE PROJECT IMPLEMENTATION	M1-M36
1.4	FINANCIAL MANAGEMENT	M1-M36

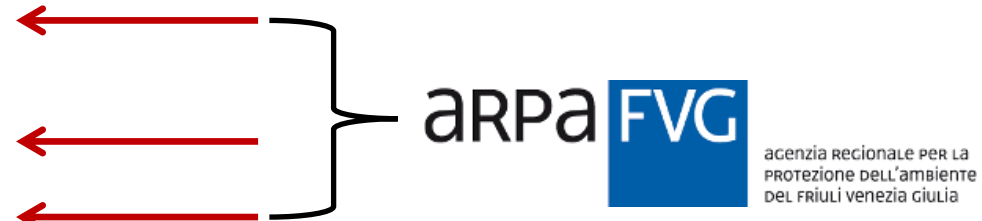


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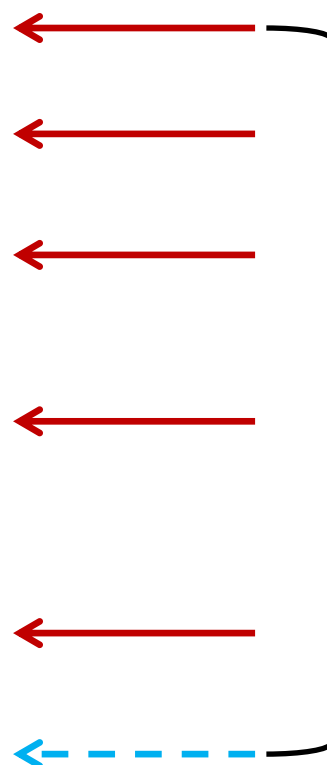
# WP2: Communication activities

WP2	Communication activities	Timeframe
2.1	<i>START-UP ACTIVITIES (incl. Communication and dissemination strategy)</i>	M1-M6
2.2	<i>WEBSITE, SOCIAL MEDIA AND DISSEMINATION MATERIAL</i>	M1-M24
2.3	<i>EVENTS, TRAINING AND WORKSHOPS</i>	M1-M36



# WP3: Climate change monitoring (observing and modelling) systems

WP3	WP3 Project Implementation	Timeframe
3.1	DESIGN AND IMPLEMENTATION OF THE OBSERVING SYSTEM UPDATES	M1-M36
3.2	DESIGN AND IMPLEMENTATION OF THE INTEGRATED MODELLING SYSTEMS	M1-M36
3.3	QUALITY CONTROL OF THE OBSERVATIONS AND VALIDATION OF THE MODELLING SYSTEMS	M6-M36
3.4	INTEGRATION AND ASSESSMENT OF MONITORING (OBSERVATIONS AND MODELS) COMPONENTS INFORMATION FOR EACH PILOT	M12-M36
3.5	ASSESSMENT OF VULNERABILITY, HAZARDS, IMPACTS ON SOCIO ECONOMIC AND ECOSYSTEM SERVICE	M1-M36
3.6	TRANSNATIONAL EXPERT MANAGEMENT BODY	M6-M36



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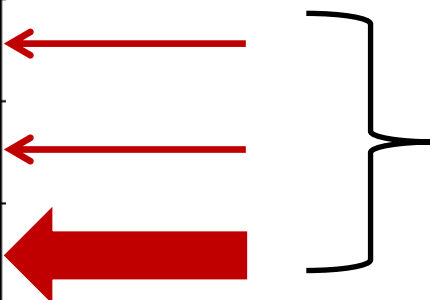
# WP4: Information system and products

WP4	WP4 Project Implementation	Timeframe
4.1	SYSTEM ARCHITECTURE DESIGN	M1-M25
4.2	DATA TRANSFORMATION AND CLIMATE IMPACT INDICATORS DEVELOPMENT	M12-M36
4.3	BIG DATA REPOSITORY AND NETWORK SERVICES	M6-M36
4.4	GEOPORTAL DEVELOPMENT	M6-M36
4.5	CLIMATE LITERACY TOOLKIT	M6-M36



# WP5: Adaptation Plans

WP5	WP5 Project Implementation	Timeframe
5.1	CRITICAL ANALYSIS OF EXISTING NATIONAL AND REGIONAL/LOCAL ADAPTATION PLANS	M1-M36
5.2	COORDINATED DESIGN OF ADAPTATION PLANS AND STAKEHOLDER ENGAGEMENT	M1-M36
5.3	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE FVG PILOT AREA	M4-M36
5.4	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE VENETO PILOT AREA	M4-M36
5.5	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE EMILIA-ROMAGNA PILOT AREA	M4-M36
5.6	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE APULIA PILOT AREA	M4-M36
5.7	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE DUBROVNIK NERETVA PILOT AREA	M4-M36
5.8	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE SPLIT – DALMATIA PILOT AREA	M4-M36
5.9	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE MARCHE PILOT AREA	M4-M36
5.10	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE MOLISE PILOT AREA	M4-M36
5.11	ADAPTATION PLAN/ MITIGATION PLAN / PLAN OF INTERVENTION / ON THE ZADAR PILOT AREA	M4-M36




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