

CLIMA.AML

Monitoring Network and Metropolitan Weather Alert



CLIMA.AML: the project



CLIMA.AML: o projeto

- Installation of 18 meteorological stations and nine meteorological micro-sensors in an urban context to monitor, in real time, meteorological data and ensure registration in a database with free access, by online platform;
- Possibility of creating a warning / information system in the event of an extreme event being reached;
- Training actions on climate monitoring, adaptation to climate change and urban planning, aimed at technicians from Lisbon Metropolitan Area (LMA) municipalities;
- Methodologies and information for the process of monitoring climate indicators in the context of municipal plans and strategies for adapting to climate change;
- Methodologies for local urban planning policies in places where “urban heat islands” are found; and,
- Training content addressed to the school community on climate change.



CLIMA.AML: activities



CLIMA.AML: activities

Activity 1: Network installation and CLIMA.AML platform

- Installation of 18 weather stations in the LMA municipalities.
- Programming of the online platform, for the provision of data from meteorological stations, open access that integrates information from the Portuguese Institute for Sea and Atmosphere (IPMA) platform "Portal do Clima" and "APIClima".
- Placement of nine micro-sensors, to collect information for the study of the phenomenon of Urban Heat Islands (ICU).



CLIMA.AML: activities

Activity 2: Methodologies for defining local climate indicators

- Preparation of a study on the occurrence of amplifiable meteorological phenomena in the context of climate change, (heat and cold waves, heavy rain, storms, etc.), identifying the conditions that gave rise to these events associated with the potential impacts of climate change (floods, fires, droughts, etc.).



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Activity 3: Study of urban heat islands in the LMA context

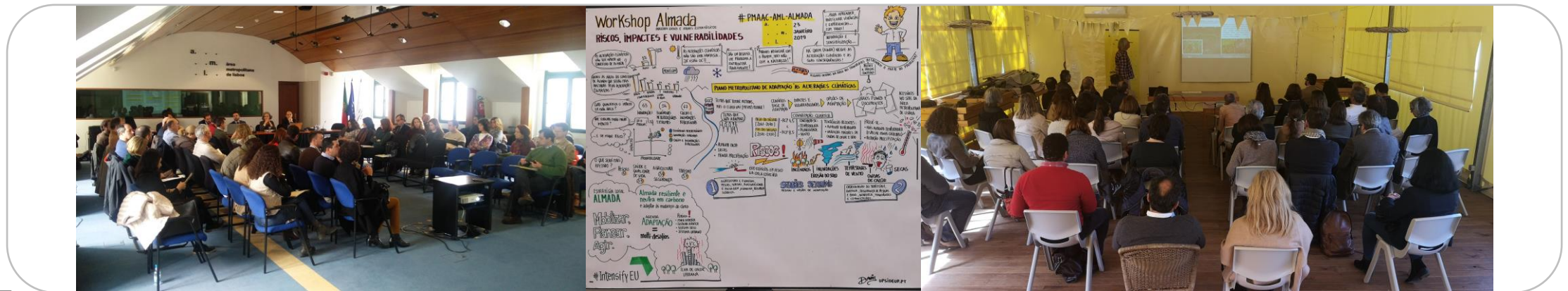
- Elaboration of a study on the phenomenon of Urban Heat Island (ICU) that allows to know the (replicable) methodologies to reduce the impact of heat waves in urban areas and, with this, reduce energy consumption, risks to human health and improve quality of life in urban centers in the metropolitan area



CLIMA.AML: activities

Activity 4: Capacity building and institutional cooperation

- Conducting workshops for technicians from the LMA 18 municipalities, with training actions for the use of the online platform and support for the definition of warning thresholds associated with the occurrence of extreme weather phenomena;
- Sharing good practices between Portuguese and Norwegian municipalities and partners with a workshop in Norway; and,
- Promotion and dissemination of results in three regional workshops in Portugal, aimed at technicians in the sector and other national municipalities.



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Activity 5: Awareness raising actions for local communities

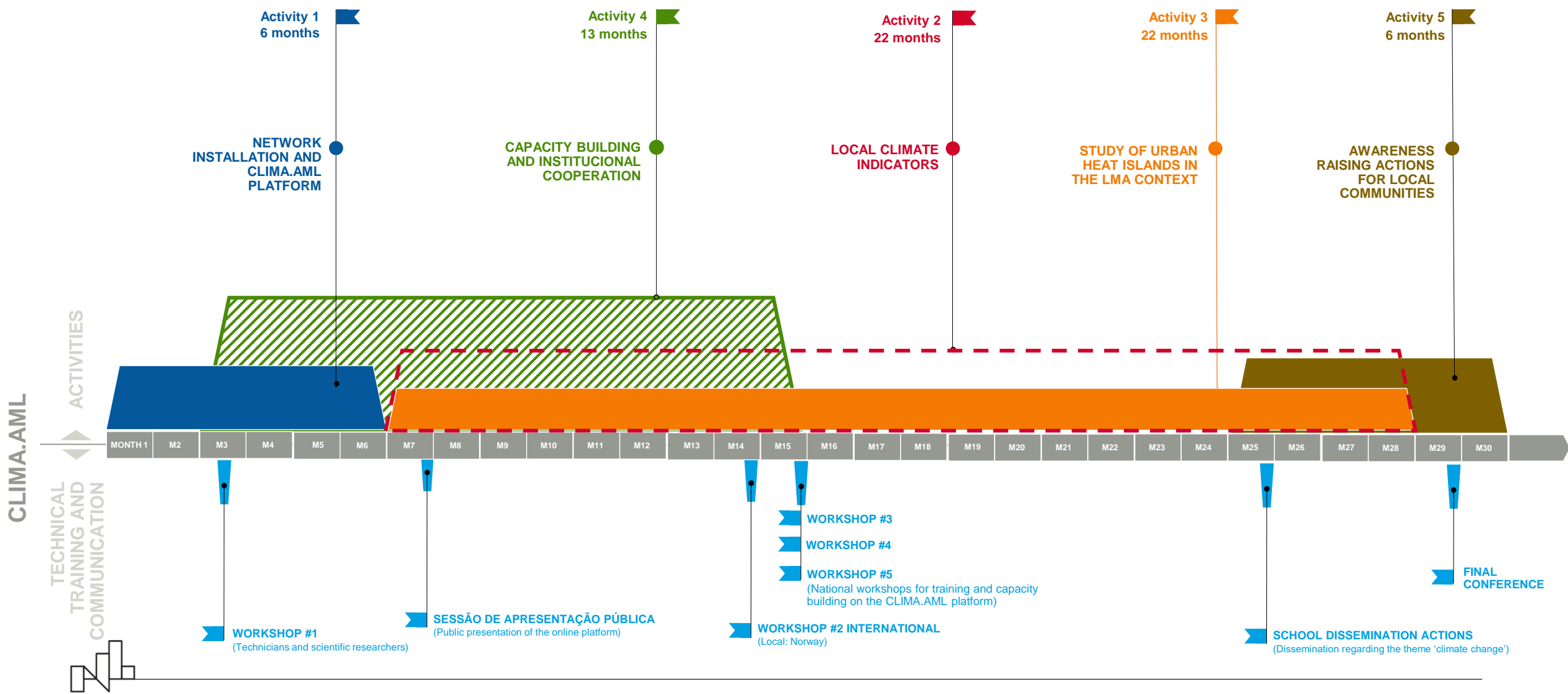
- Carrying out actions to raise awareness of climate change with the educational community in the Lisbon Metropolitan Area;
- International Conference held, integrating the contributions of international partners to adapt to climate change.



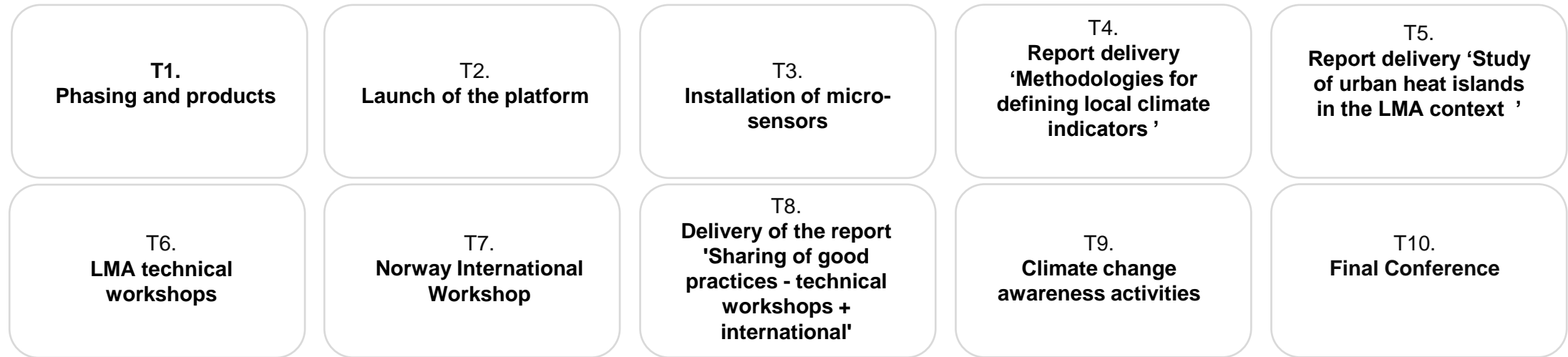
CLIMA.AML: phasing and products



CLIMA.AML: phasing



CLIMA.AML: products



CLIMA.AML: partnership and beneficiaries



CLIMA.AML: Partnership

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. . m. área
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 biotext

 CMA
CÂMARA MUNICIPAL DE ALMADA

 LISBOA
CÂMARA MUNICIPAL

 CASCAIS
AMBIENTE

 CEDRU
Centro de Estudos e Desenvolvimento
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Program operator :

 REPÚBLICA
PORTUGUESA
AMBIENTE E
AÇÃO CLIMÁTICA



CLIMA.AML: Beneficiaries



With institutional support from:



CLIMA.AML: expected results



CLIMA.AML: Expected results

- **Provide** AML municipalities with meteorological measurement equipment, one in each municipality, whose information is made available online free of charge, allowing a better understanding of the evolution of the climate;
- **To evaluate** with extreme accuracy the extreme weather phenomena (intense precipitation, heat waves, cold waves, climatic susceptibilities, strong wind) throughout the metropolitan territory, contributing to the adaptation to climate changes and to preventive actions by the local authorities (civil protection, safety and health);
- **Study** urban heat wave phenomena and enable the adoption of mitigation measures in urban centers in the local context;
- **Promote** scientific knowledge for technicians and the general public, enhancing replication by other municipalities at the national level in the context of adaptation to climate change; and,
- **Disseminate** good practices for adapting to climate change and raising awareness among the educational community.



CLIMA.AML

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Program operator :

Promoter:

Partners: