CLIMAAX Community of practice

Agricultural Drought Risk Assessment: Learning from regions

April 16, 2026
10:30-12 CET

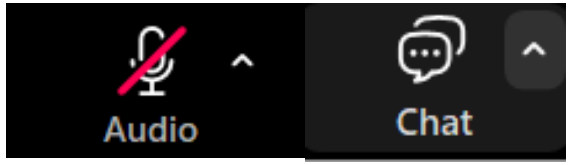
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

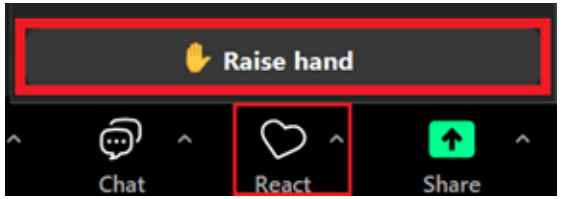
HOUSEKEEPING

- Please note that the meeting is being **recorded**.

- Please, keep your **mic off**.



- Feel free to post your **questions in the chat** (bottom of the screen) or raise your hand to talk



The CLIMAAX project is funded by the European Union under grant agreement No. 101093864.
This work was funded by the European Union. Its contents are the sole responsibility of the authors and do not necessarily reflect the views of the European Union.

MEETING AGENDA

- ✓ 10:30-10:35 **Welcome & introduction to the webinar**
- ✓ 10:35-10:45 **Introduction to the *Agriculture Drought workflow***
  - Speaker: Antonio Trabucco and Andrea Rivosecchi (CMCC)
- ✓ 10:45-11:30 **Regional experience**
  - Şanlıurfa Metropolitan Municipality, Turkey - Speakers: Mehmet Demir, Tamer Atalay, and Hakan Duman
  - Unione dei Comuni della Valcerrina, Italy - Speakers: Enrico Lucca, Maroussia Terrana
  - Autonomous Province of Vojvodina, Serbia - Speaker: *Teodora Subotić*
- ✓ 11:30-11:50 **Panel discussion and Q&A**
  - Moderators: Fulvio Biddau, Maria Katherina Dal Barco and Majid Niazkar (CMCC)
- ✓ 11:50-12:00 **Closing remarks**

NEW HAZARD- AND WORKFLOW-FOCUSED SERIES

Moving forward in CLIMAAX CoP from:

- **Thematic webinars** and workshops connecting science, policy and practice to support CRAs using the CLIMAAX Framework and Toolbox
- **Demo & co-design sessions** for refining and fostering usability of CLIMAAX outcomes

The CLIMAAX project is funded by the European Union under grant agreement No. 101093864.
This work was funded by the European Union. Its contents are the sole responsibility of the authors and do not necessarily reflect the views of the European Union.

Introduction to *Agricultural Drought* workflow

Antonio Trabucco
(CMCC)

Andrea Rivosecchi
(CMCC)

Agricultural Drought workflow

Community of Practice webinar

Andrea Rivosecchi, CMCC
Antonio Trabucco, CMCC

16 April 2026

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

Agricultural Drought

FAO defines it as “**insufficient soil moisture** to meet the needs of a particular **crop** at a particular time”.

Frequency and intensity will increase in Europe:

Southern Europe → more intense and prolonged drought periods creating water allocation conflicts between sectors.

⚠ **Water scarcity during droughts**

Central and Northern Europe → reduced precipitation rates hindering rainfed agricultural production.

⚠ **Absence of irrigation infrastructure**

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Contents

- Introduction to Agricultural Droughts
- Aim and Set up of the workflows
- Risk Assessment Methodology
- Hazard Workflow
- Risk Workflow

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Aim and Set-up

AIM

Estimate potential agricultural revenue losses from water scarcity.

→ Loss = irrigated vs rainfed revenue ('lost-opportunity cost').

SET-UP

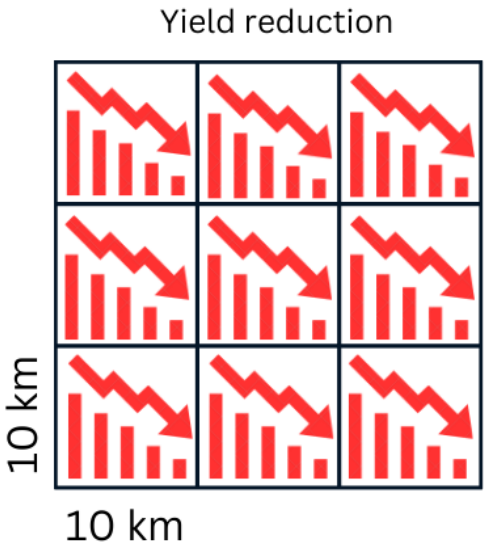
Workflows run at NUTS2 level and focus on crops cultivated across Europe. Input datasets are customisable and adaptable to the users' local needs.

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Risk Assessment Methodology

HAZARD WORKFLOW

HAZARD — EXPOSURE — VULNERABILITY → RISK



The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Hazard workflow

1st step:

Calculation of reference crop evapotranspiration (ET0) using Penman-Monteith equation

- Fully-irrigated evapotranspiration of idealised crop given climate conditions and elevation
- Data: Climate and elevation

2nd step:

Calculation of crop specific (ETC) and actual evapotranspiration (ETA) given local conditions

- For studied crop: ETC = maximum evap., ETA= actual evap. under rainfed conditions
- Data: Precipitation, soil available water capacity, crop parameters

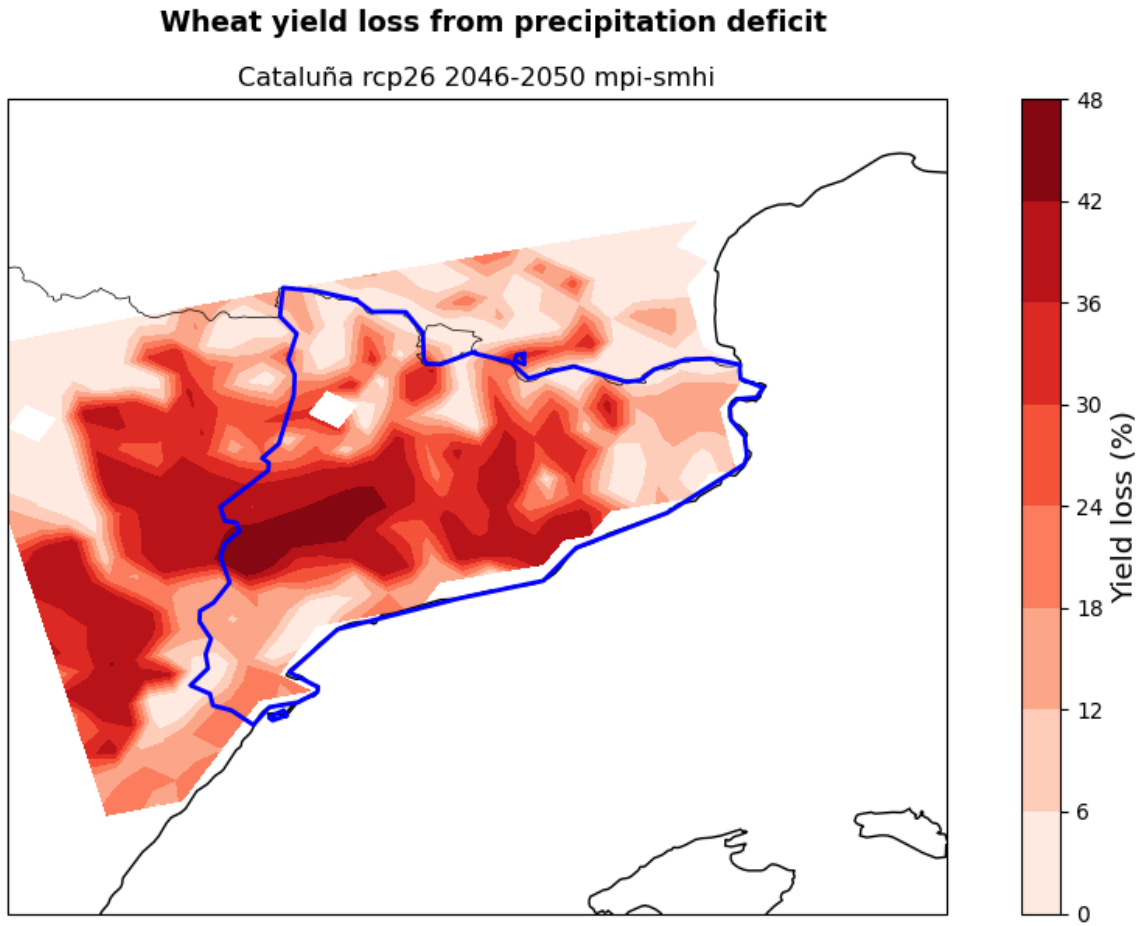
3rd step:

Calculation of potential yield reduction from evapotranspiration deficit

- Yield response to water deficit (Doorenbos et al., 1979)

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Example output



+ summary netcdf file with all the results

Identify areas prone to highest **hydro-climatic stress**

Guide **adaptation** and/or future cropland expansion towards a more **cost-effective** use of resources

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Risk workflow

1st step:

Calculation of current revenue (EUR) per ton of crop

- Crop production in region (ton) * value of production (EUR/ton)
- Value of production from FAO GAEZ (staple version) or EUROSTAT (non-staple version).

2nd step:

Calculate revenue loss per grid cell

- Rev loss = current rev (EUR) * yield loss (%, from Hazard)

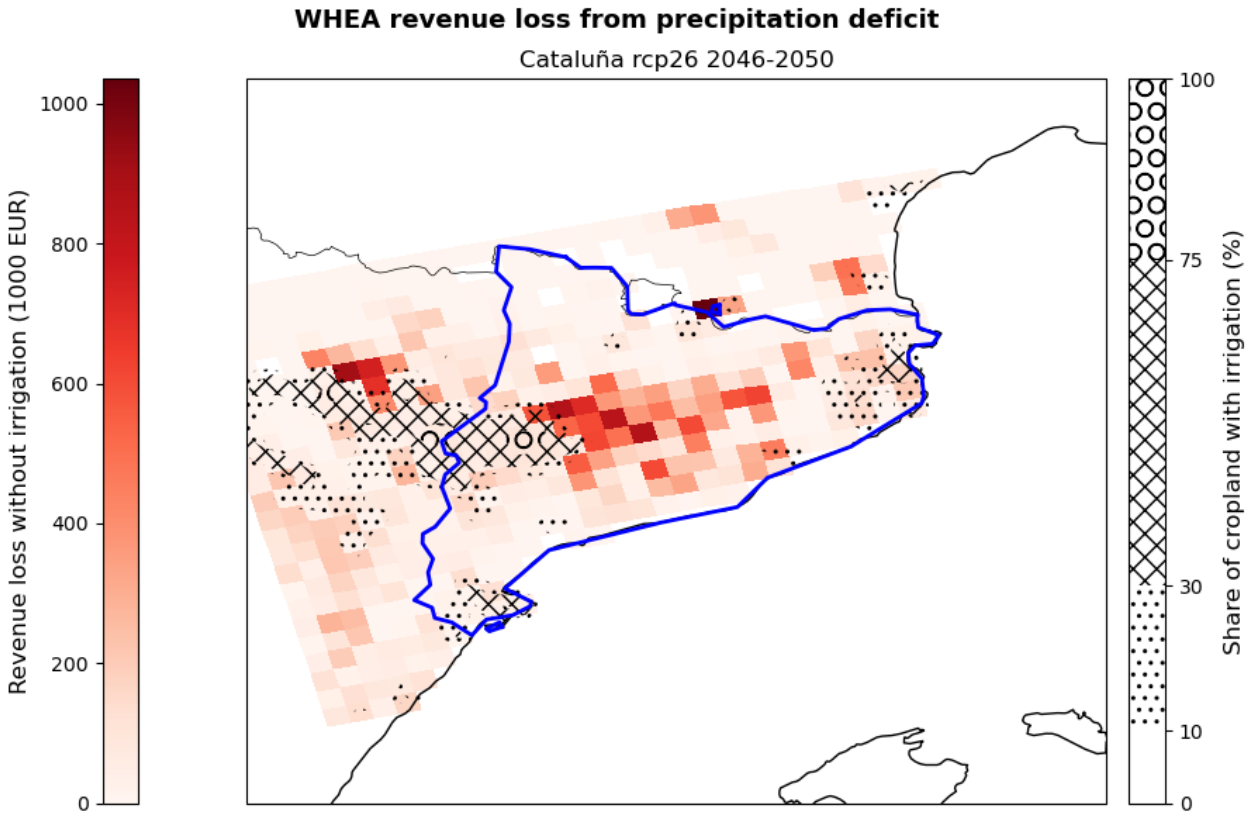
3rd step:

Integrate irrigation availability to map vulnerability

- % of cropland with irrigation infrastructure currently available

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Example output



Identify areas suffering the highest **lost opportunity cost** and **vulnerability**

Estimate **benefits** of investing in irrigation expansion for drought **adaptation**

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

www.climaax.eu

Thanks for your attention!

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

REGIONAL EXPERIENCES

Autonomous Province of Vojvodina

Teodora Subotić

Unione dei Comuni della Valcerrina

Enrico Lucca

Maroussia Terrana

Şanlıurfa Metropolitan Municipality

Mehmet Demir

Tamer Atalay

Hakan Duman

Agricultural Drought Risk Assessment in Şanlıurfa: *Adapting CLIMAAX Workflows with Regional Data*

CLIMAAX CoP Webinar – Learning from Regional Implementation

M. Demir, H. Duman, T. Atalay
Climate Change and Zero Waste Department

Şanlıurfa Metropolitan Municipality
Online (Zoom), 16 April 2026

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

Who are we?

Sanliurfa Metropolitan Municipality- City Profile

- Population : 2.300.000 inhabitants (2025)
- Area : 19.220 km^2
- Land Cover : 65% Cropland, 1% Forestland
- Urban Greenland : 4,3 m^2/cap (One of the lowest in Türkiye)
- Climate : Csa (Dry and very hot summer)
- GDP : <4.500 €/year (Main sector is Agriculture)
- Average Age : 21.1 (The youngest ave. pop. of Türkiye)

CLIMAAX- CRAS Project Team Profile

- Project manager : SMM Climate Change&Zero Waste Dept. Dir. (Env. Eng)
- Project Coordinator: E.E Eng. (PMI)
- Technical Lead : Env. Eng. (Atalay Climate Consulting)
- Team Members : 3 Env. Eng; 1 GIS Expert, 1 Python Developer

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Who are we?

Şanlıurfa: From Deep History to Today's Climate Challenge

- Göbekli Tepe (Şanlıurfa) — one of the oldest ritual sites (≈ 11–12k years).
- Upper Mesopotamia, between the Euphrates & Tigris — people lived here for millennia thanks to water and fertile land.
- In recent decades (especially the last 10–20 years), the effects we feel from heat and drought are more visible, and awareness is higher.

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Past Activities

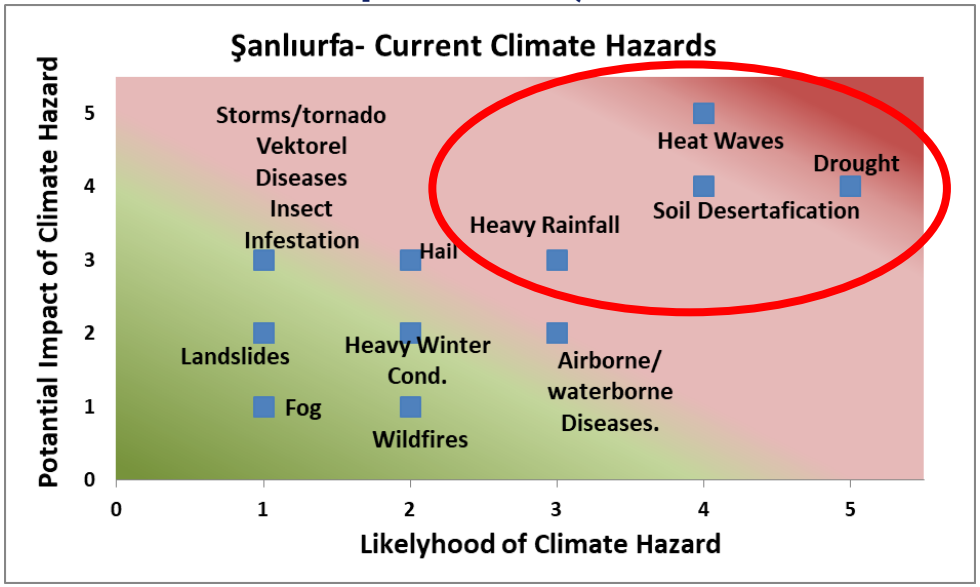
- **Commitment** to GCoM: «Net-Zero and Climate Resilient Şanlıurfa by 2050»
- **GHG Inventory** by means of GPC/CIRIS (2018-2025)
- **Qualitative Risk and Vulnerability Assessment**
  - Survey #1 Hazard Assessment
  - Survey #2: Vulnerable Sectors
  - Survey #3: Adaptive Capacity
- Quantitative Risk Assessment by means of **CLIMAAX**
- **Stakeholder Engagement** Meetings
- **Climate Change Action Plan**
  - SECAP2022, SECAP2024Rev
  - CDP Reporting (CDP Score: A-)
- P2R Project Beneficiery

GLOBAL COVENANT of MAYORS for CLIMATE & ENERGY

CDP
DISCLOSURE INSIGHT ACTION

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Climate Risk Exploration (Qualitative Assessment)



(Survey #1 Hazard Assessment)

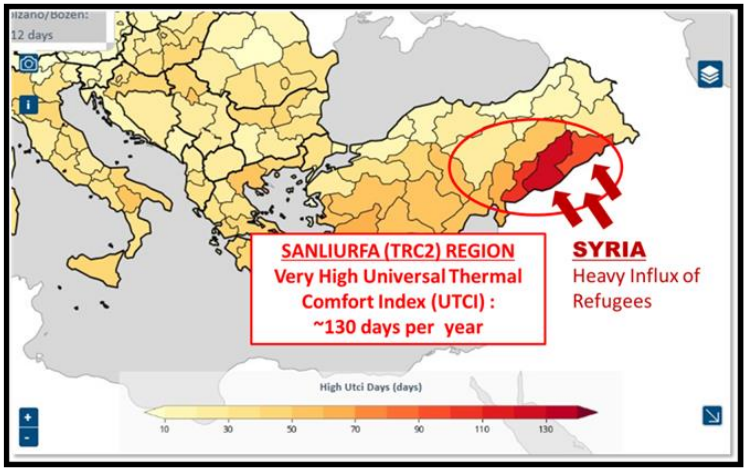
#1 : Heatwaves
#2 : Agricultural Drought
#3 : Soil Salination/Desertification
#4 : Heavy Rainfall and Surface Floods

Climate Hazards	Current Impact	Severity (m: 1-5)	Probability (p: 1-5)	Risk (m x p)
· Heavy Rainfalls and Floods	Currently affecting the city	3 - Moderate	3 - Moderate	(9) Significant/Moderate
· Heatwaves	Currently affecting the city	4 - High	5 - Very high	(20) Very Serious/High
· Drought	Currently affecting the city	5 - Very high	4 - High	(20) Very Serious/High
.....				

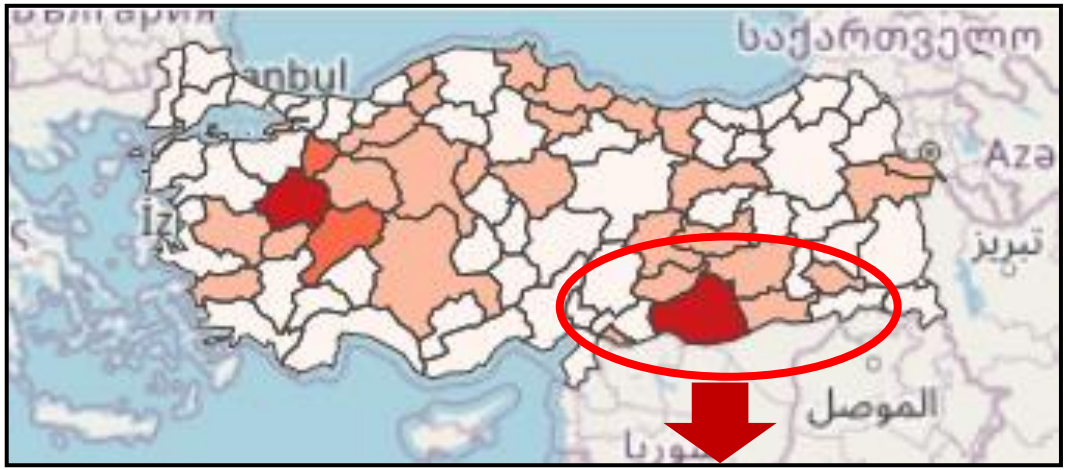
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Climate Risk Exploration (Qualitative Assessment)

Extreme Heat Waves



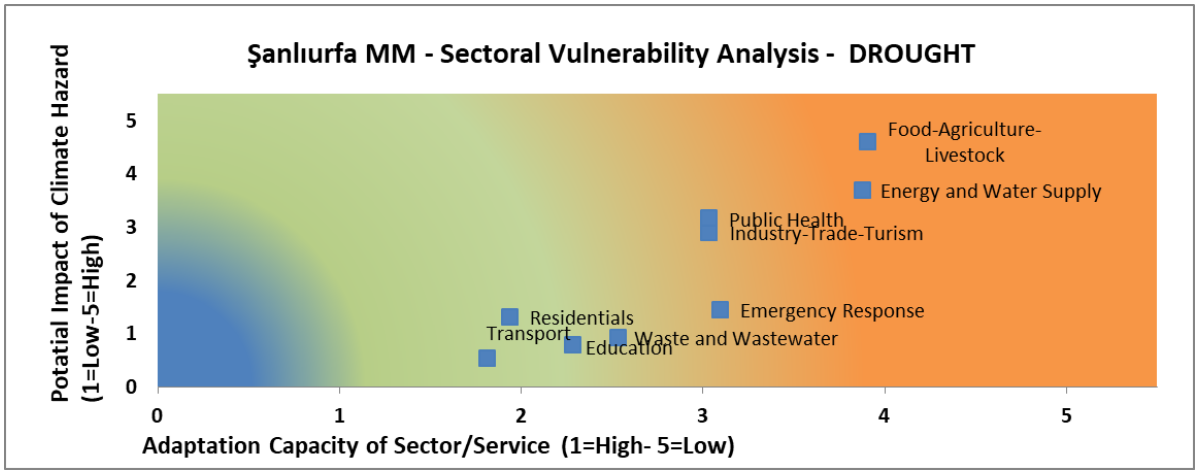
High (Relative) Drought Risk



RISK = 4 / 5

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Climate Risk Exploration (Qualitative Assessment)



Survey #2: Vulnerable Sectors

Survey #3: Adaptive Capacity

Climate Hazards	Most Affected 5 Sector	Potential Impact on Sector PI1 - PI5 (Low-High)	Adaptive Capacity AC1 - AC5 (High–Low)
Drought	Food-Agriculture-Livestock	PI1 - Very Low: Sector/Service is Not Affected.	AC1 - Very High: No Improvement Needed for Adaptation.
	Energy and Water Supply	PI2 - Low: Sector/Service May interrupt Temporarily	AC2 - High: Additional Improvement May Be Necessary.
	Public Health	PI3 - Medium: Sector/Service Shows Tendency to Deteriorate	AC3 - Medium: Additional Investment Required for Adaptation.
	Industry-Trade-Tourism	PI4 - High: Sector/Service Disrupt.	AC4 - Very Low: High Investment Required for Adaptation.
	Emergency Response	PI5 - Very High: Collapse. Unmanageable	AC5 - None: Very High Investment Required for Adaptation

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

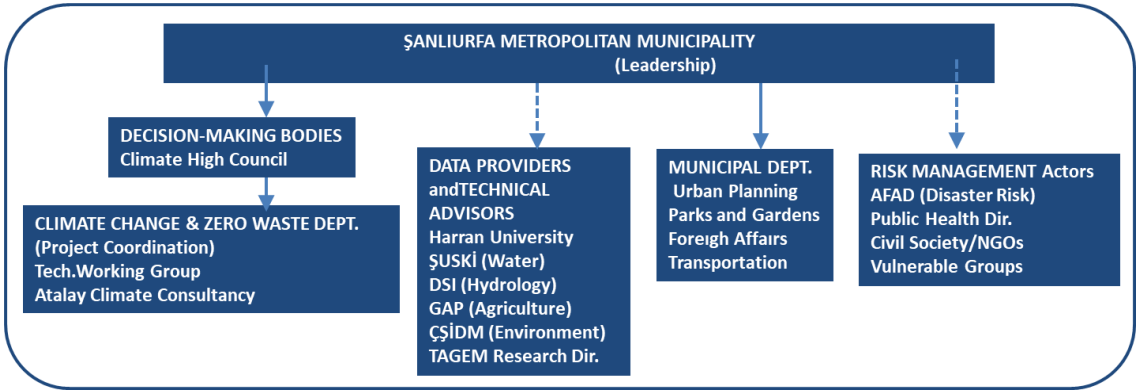
Climate Risk Management - Engagement, Governance, Institutional set up

Advantages:

- Top management committment
- Implemented « Sustainable Energy and Climate Action Plan-SECAP»
- Annual Climate Risk Management review and response trough CDP

Challanges:

- High Risk, Limited Capacity
- New climate organizations
- Fragmented risk ownership
- Need for structured, comparable methodology



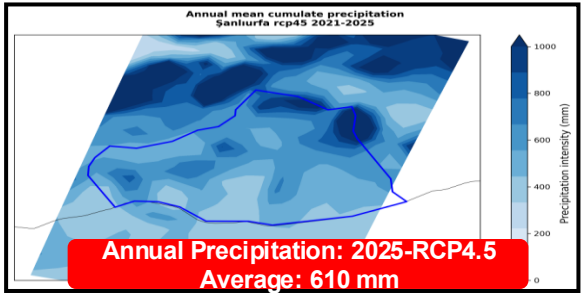
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

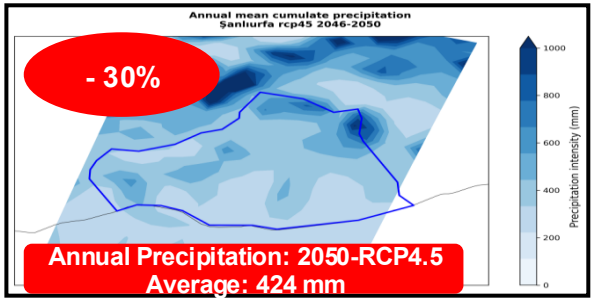
Drought Risk Analysis – Regional Interventions in CLIMAAX Workflows

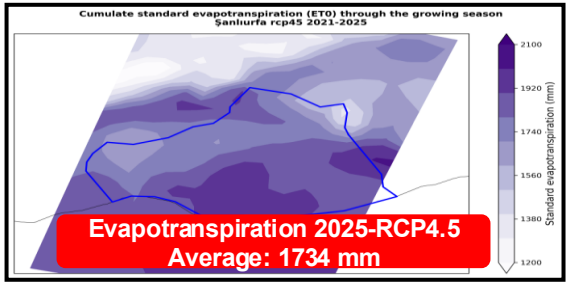
1. **Comperable Hazard and Risk Analysis:** For RCP4.5 /RCP 8.5 scenario covering the temporal periods of both 2021-2025 and 2041–2045 for comparison

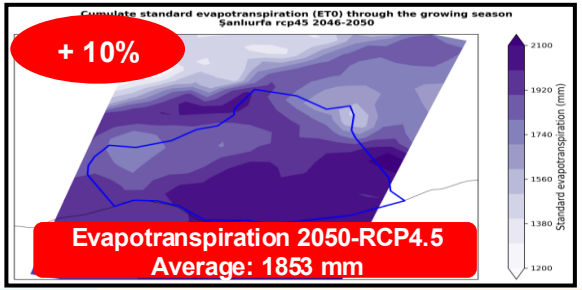
- RCP 4.5 vs RCP 8.5
- 2021-2025 vs 2041–2045
- Winter Crops vs Summer Crops

Lower Precipitatipn +
Higher Evapotranspiration =
Higher artificial irrigation needs









The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – Regional Interventions in CLIMAAX workflows

2. Modified «Regional_Crop_Table»The regional main crops of the TRC21 region (Cotton, Maize, Wheat, Pistachios, Lentil, and Chickpea) parameterized in the regional crop coefficients instead of FAO's more generalndinsufficient crop table

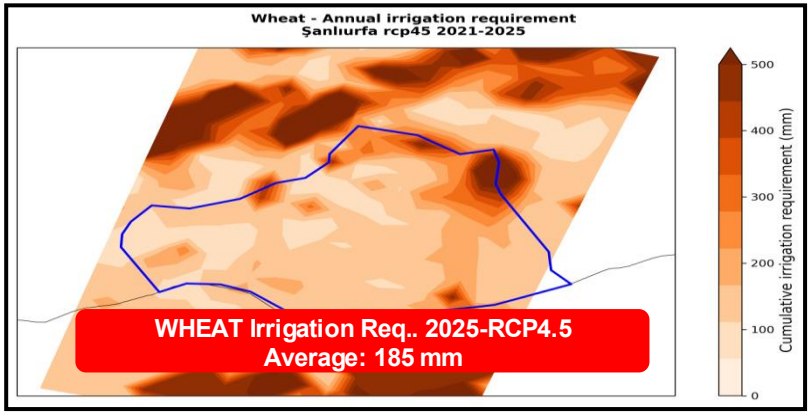
FAO Code	Crop	Clim	Kc_in	Kc_mid	Kc_end	lgp_f1	lgp_f2	lgp_f3	lgp_f4	Season start	Season End	RD1	RD2	DF	Type	Ky
111	wheat	Regional	0.66	1.14	0.26	0.137	0.522	0.183	0.137	286	139	0.2	1.25	0.55	1	1
112	maize	Regional	0.29	1.25	0.37	0.177	0.25	0.339	0.234	141	281	0.2	1	0.55	1	1.25
9211	Cotton	Regional	0.32	1.25	0.62	0.166	0.274	0.31	0.25	120	301	0.2	1.35	0.65	1	0.85
365	Pistachio	Regional	0.4	1.1	0.45	0.089	0.292	0.354	0.266	71	297	1.25	1.25	0.4	0	0.85
201	Lentil	Regional	0.67	1.09	0.31	0.143	0.524	0.19	0.143	310	155	0.2	0.7	0.5	1	1
191	Chickpea	Regional	0.86	0.97	0.34	0.193	0.387	0.29	0.129	317	107	0.2	0.8	0.5	1	0.6

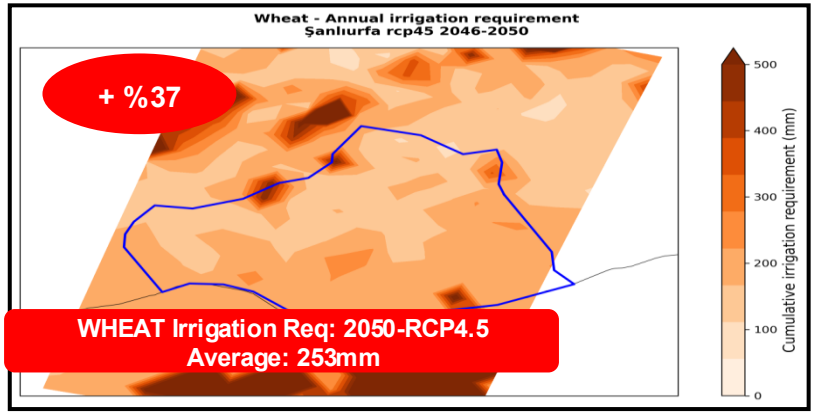
Source: The Ministry of Agriculture and Forestry- Turkish Agricultural Research Center (TAGEM)
https://www.tarimorman.gov.tr/TAGEM/Belgeler/yayin/Tu%CC%88rkiyede%20Sulanan%20Bitkilerin%20Bitki%20Su%20Tu%CC%88ketimleri.pdf

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – Regional Interventions in CLIMAAX workflows

3. Visualization of regional irrigation water needs: Besides, yield loss maps, artificial irrigation requirements for current and future temporal periods were also visualised.





The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

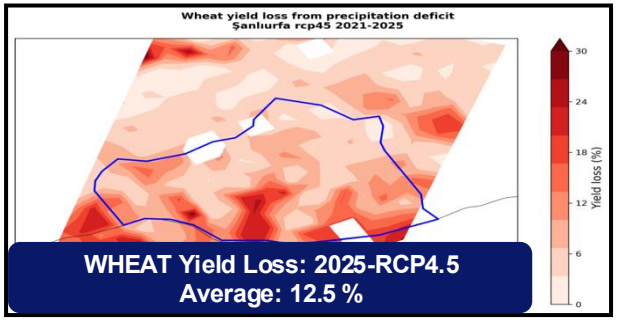
Drought Risk Analysis – Regional Interventions in CLIMAAX workflows

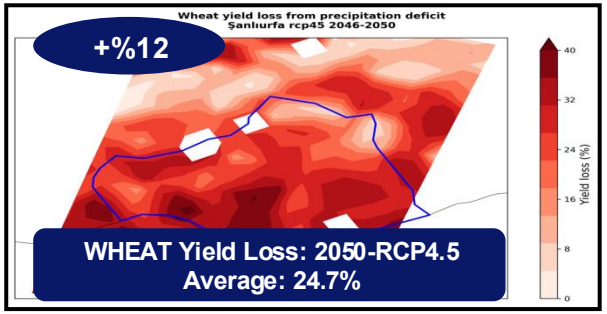
4. Comparison of winter and summer crops with respect to change in yield loss and irrigation requirements between current and near future:

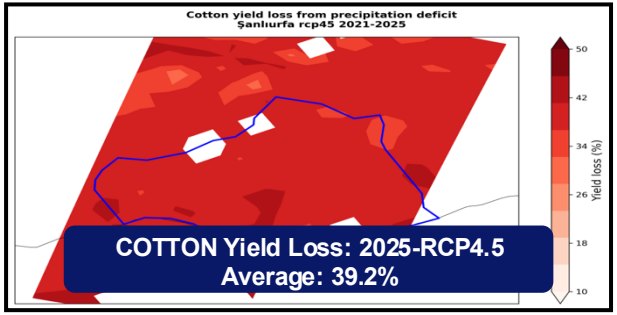
Relative change in current and near future

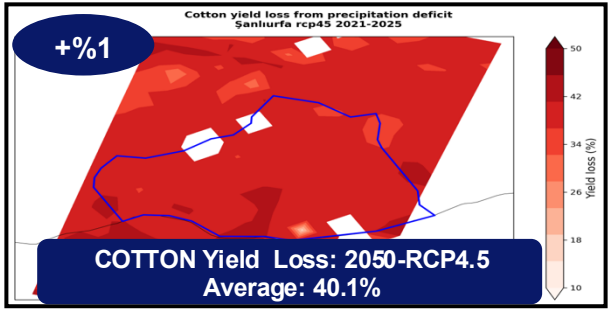
Winter Crops:
Rainfed dependent
35-40% more irrigation water req.
10-15% Increase in yield loss

Summer Crops:
Artificial irrigation dependent
The same irrigation water req.
1% increase in yield loss









The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – Regional Interventions in CLIMAAX workflows

5. Integration of local crop productions and local unit prices instead of rough mapSPAM and GAEZ Aggregated values:

Regional_Unit_Prices.csv

Crop_ID	WHEA	MAIZ	COTT	LENT	CHIC
Unit_Price_USD_per_ton	343	288	789	738	1018

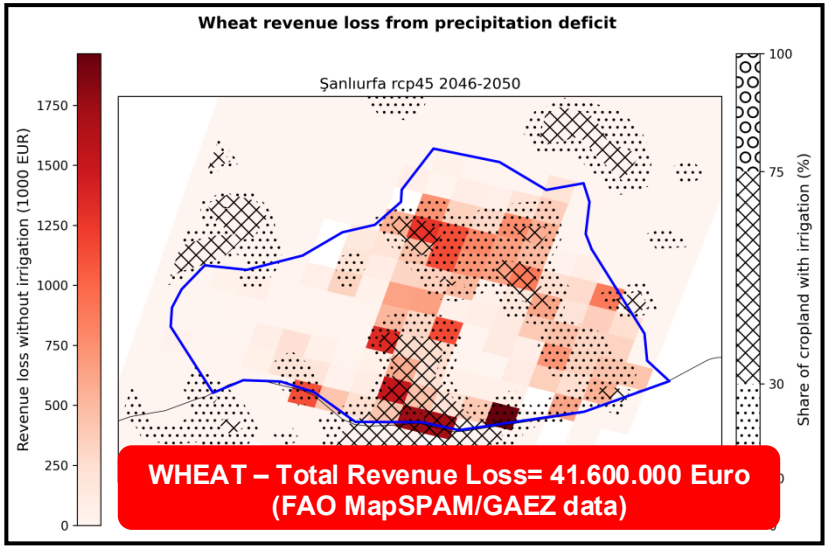
Revenue Loss = Yield_Loss_perc * Regional_crop_productions_2024 * Regional_unit_price

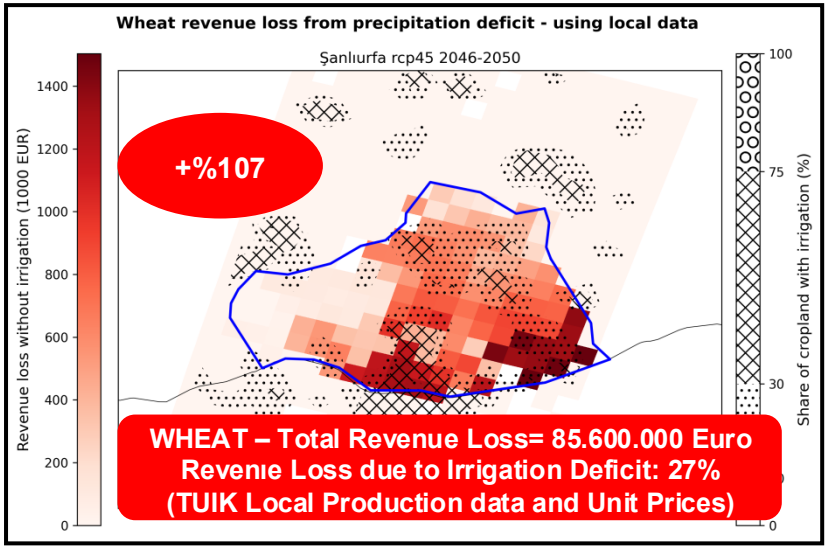
Yearly «Regional_Crop_Productions» data sets were downlodad from Turkish Statistical Agency (TurkStat-TÜİK) in district basis.
FAO's Crop_mapSPAM.tif files were modified and replaced into workflow.

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – Regional Interventions in CLIMAAX workflows

5. Integration of local 2024 crop productions and local unit prices instead of rough mapSPAM and GAEZ Aggregated values:





Risk evaluation and management

“CLIMAAX enabled us to move from analysis to action.”

Lessons Learned :

- High resolution local data is critical for correct analysis.
- Global tools need continual improvements and adaptation for regional needs.
- Institutional coordination is essential especially for risk ownership

Next Steps:

- Integration into adaptation planning
- Revision of existing SECAP (Sustainable Energy and Climate Action Plan)
- Link to investment planning (Pathways to Resilience - P2R)
- Continued stakeholder engagement

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

www.climaax.eu

Thanks

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Implementing the Drougth Risk Workflow in Valcerrina

Enrico Lucca, TR2
Maroussia Terrana, TR2
Fabio Olivero, Unione dei Comuni della Valcerrina

16/04/2026

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

Who are we?

Unione dei Comuni Valcerrina

LEADING INSTITUTION COORDINATOR

Coordinates project – drives stakeholder involvement.

- Technical officers from the 13 municipalities.
- Lead technical analysis towards civil protection and urban planning needs
- Provide guidance and expertise in project execution
- Ensure alignment with local needs and overarching goals for sustainability.

URBY et ORBIT

GEOSPATIAL SERVICES PROVIDER

Supports CRA – WebGIS platform development.

- Geospatial analysis
- Gather and interpret data crucial for understanding land use patterns and environmental impacts in Valcerrina.

TR2 In Motion Insight

AI & ENVIRONMENTAL DATA

Environmental data analysis – CRA & monitoring technologies.

- Artificial intelligence and data management
- Deliver solutions for data processing and analysis to enhance project outcomes and decision-making processes.

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Unione dei Comum
Valcerrina

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Valcerrina regional profile and context

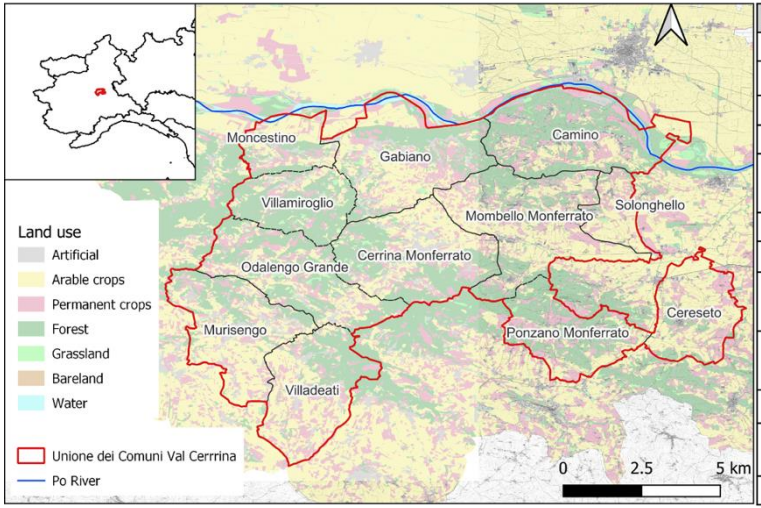
13
member municipalities

~ 7500
total population

162 km²
territorial area

100-400m
elevation a.s.l.

LAND USE



Municipality	Population
Camino	730
Cereseto	372
Cerrina	1290
Gabiano	1021
Mombello Monferrato	919
Moncestino	190
Murisengo	1269
Odalengo Grande	407
Ponzano Monferrato	328
Villadeati	461
Villamiroglio	292
Solonghello	193

Location: SE Piedmont, Nothern Italy · Between Po plain and Monferrato hills · Part of Langhe-Roero-Monferrato UNESCO site

KEY ECONOMY

Agriculture & agri-food (viticulture & hazelnut), Agri-tourism ·

DEMOGRAPHIC & SOCIO-ECONOMIC CONTEXT

~25% of population over 65 · Land abandonment · Low population density · High agri-food sector dependence · Limited irrigation infrastructure

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Valcerrina climate-related hazard

36% of land is forested

der Grant
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Valcerrina climate risk preparedness

CIVAL

Italy

MINISTERO DELL'AMBIENTE
E DELLA SICUREZZA ENERGETICA

National Plan for Climate Adaptation - 2025

Piedmont Region

PIEMONTE
verso un presente sostenibile

STRATEGIA REGIONALE
SUL CAMBIAMENTO
CLIMATICO DEL PIEMONTE
- 1° stralcio -

Municipalities

Civil Protection Service

Hydrological Risk Plan

Forest Fires Risk Plan

X Drough Risk Plan

Municipal Civil Protection Plans (developed collectively for the Union)

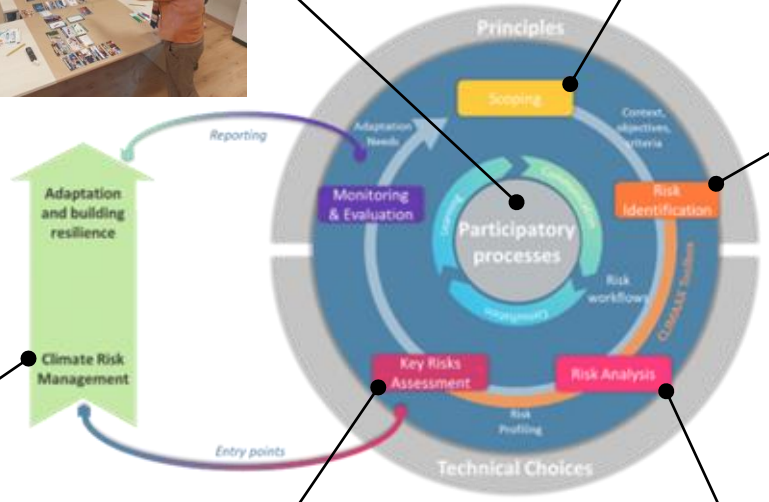
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CIVAL Clima ment Framew

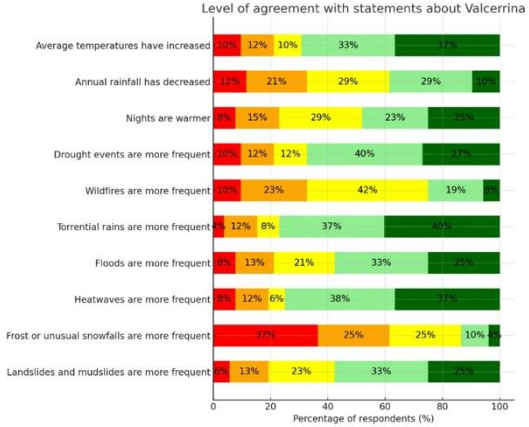
July 2025

January 2026

- Context and objectives defined
- Stakeholders mapped



Hazard screening together with the community – survey on perceived climate risks



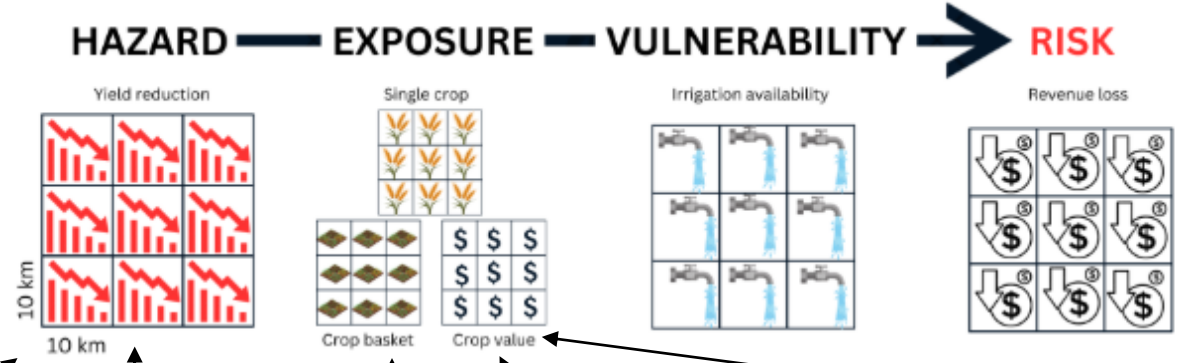
Explore integration of CRA results in Municipal Civil Protection Plans

Participatory assessment of severity, urgency and capacity at end of Phase I and Phase II

- 3 workflows selected in Phase I
- 2 prioritised and expanded in Phase II

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – refining to local context



Local soil maps

Local crops and crop growth parameters

Municipality and parcel level crop distribution

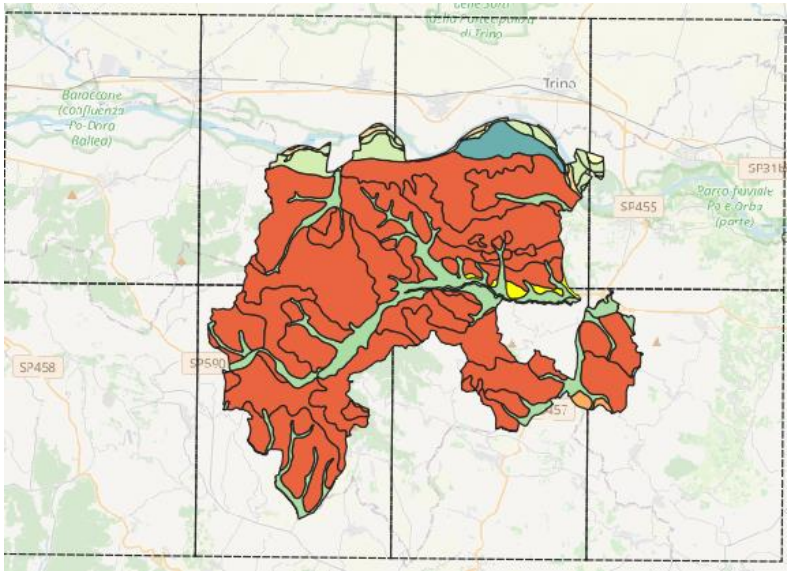
Sub-regional average crop yield (q/ha)

Regional crop price (€/q)

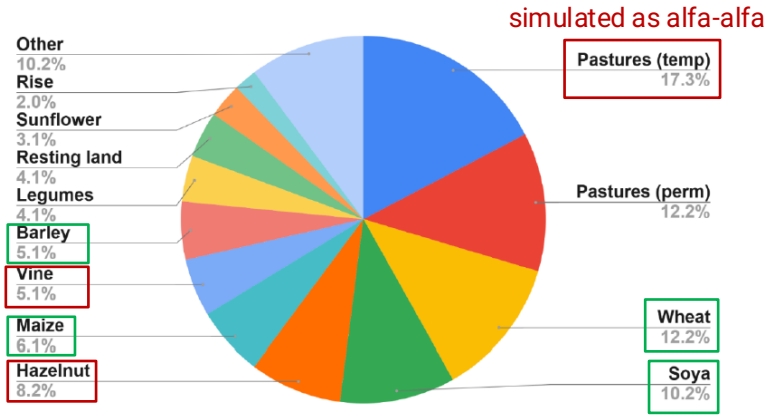
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – refining to local context

Local soil maps



Local crops and characteristics



Crops already in crop table but parameters adjusted

New crop introduced

Alfa-alfa: five growing cycles simulated in a year

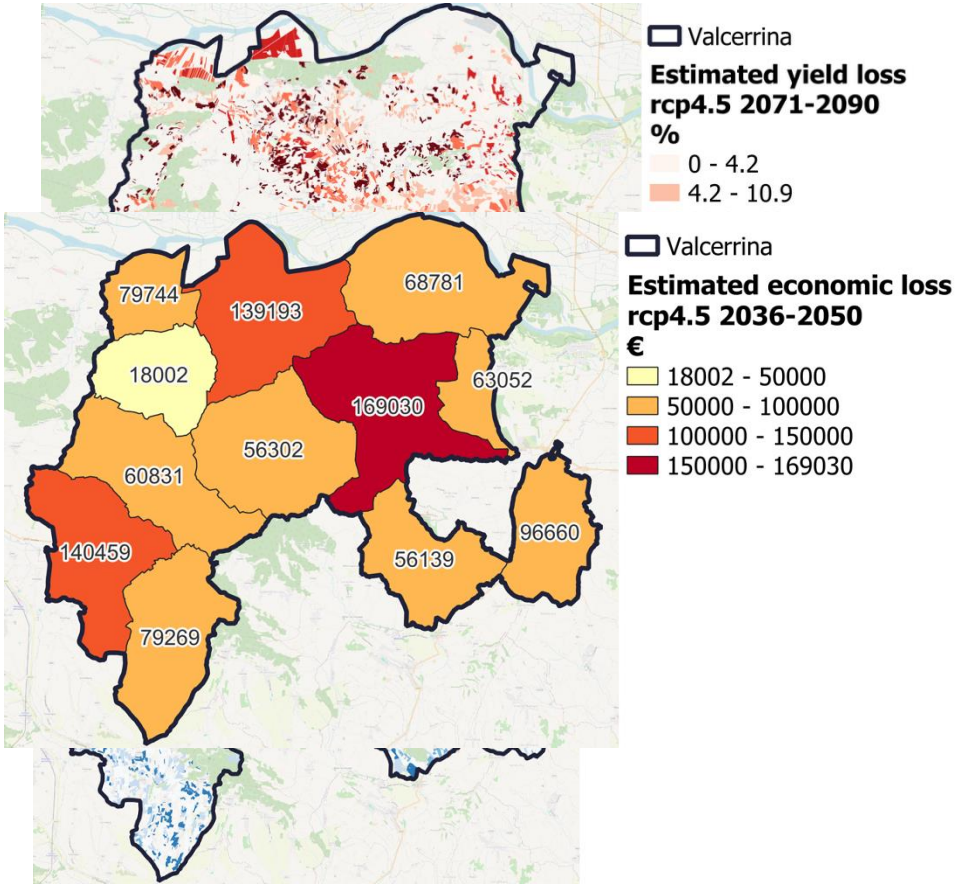
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Drought Risk Analysis – results

2 spatial scales for the representation of results:

- **Parcel scale** showing spatial variation of estimated yield reduction and max. daily irrigation deficit

- **Municipality scale** indicating estimated economic loss

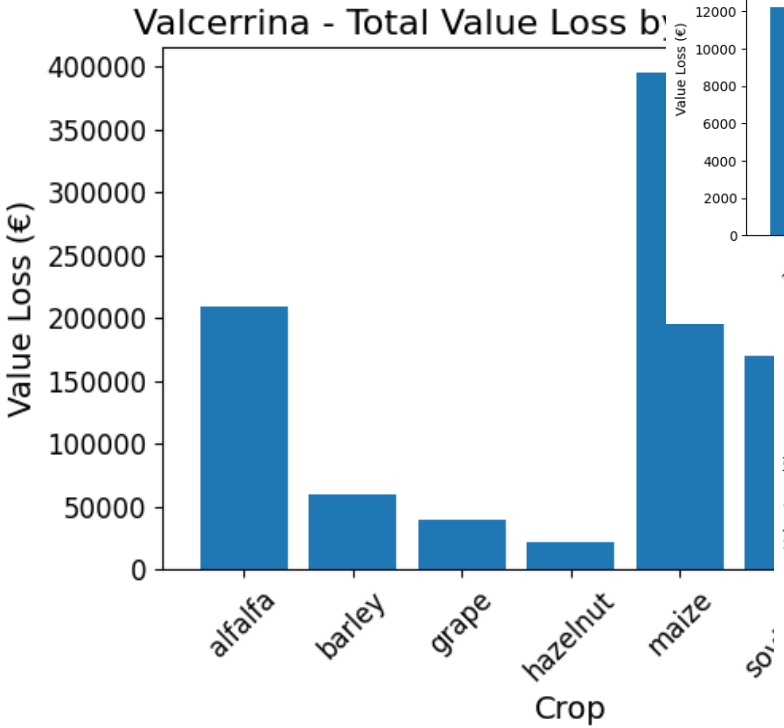


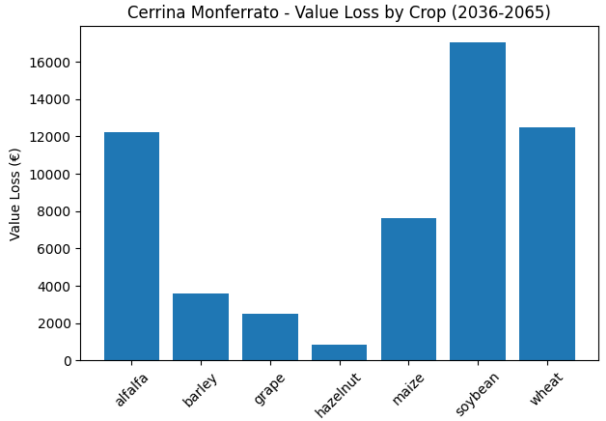
The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

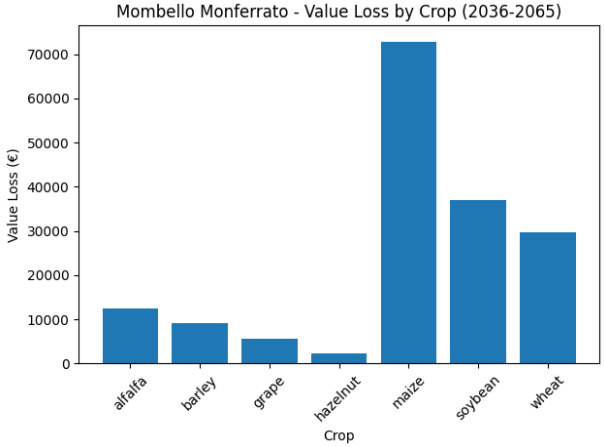
Drought Risk Analysis – results

2036 – 2065
€ 1 027 462

2071 – 2090
€ 1 020 654







The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Risk evaluation and management – next steps

Review of the Key Risk Assessment
3° workshop end of April 2026

Risk Workflow	Severity		Urgency	Capacity	Risk Priority
	C	F		Resilience/ CRM	
River flooding					Moderate
Drought					High
Fire					Low

WebGIS platform and integration into **Municipal Protection Plans**

- Provide local authorithies with a tool to visualise climate risk data
- Explore how results can feed into a Union-level drought management plan and an irrigation feasibility study

Exploring adaptation options

- Assess adaptation options: cropping pattern, irrigation infrastructure, agricultural practices

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

Risk evaluation and management – lessons learnt

- The flexibility of the drought risk workflow allows integration of local data and the use of the single building «blocks»
- Estimates of seasonal irrigation requirement could inform infrastructure planning and cost-benefit analysis
- **Next step:** integration of the results into formal decision-making processes. Guidance from the consortium on the governance of climate risks?

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

www.climaax.eu

Thanks

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union. Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.

UPCOMING EVENTS

- **14 May 2026 10.30 CET**
  Relative drought

The CLIMAAX project is funded by the European Union under grant agreement No. 101093864.
This work was funded by the European Union. Its contents are the sole responsibility of the authors and do not necessarily reflect the views of the European Union.

TRANSCEND 3RD WEBSTIVAL (APRIL 27–29)

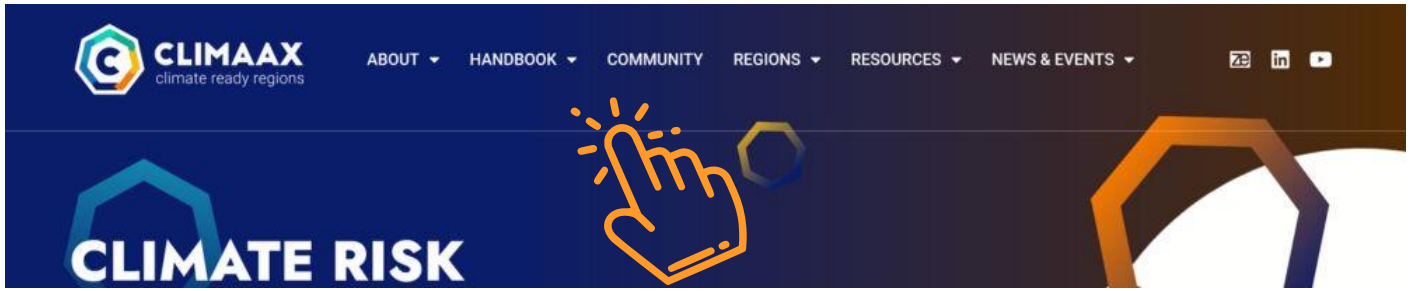
Enabling Transformation through Financial, Technical and Institutional Adaptation

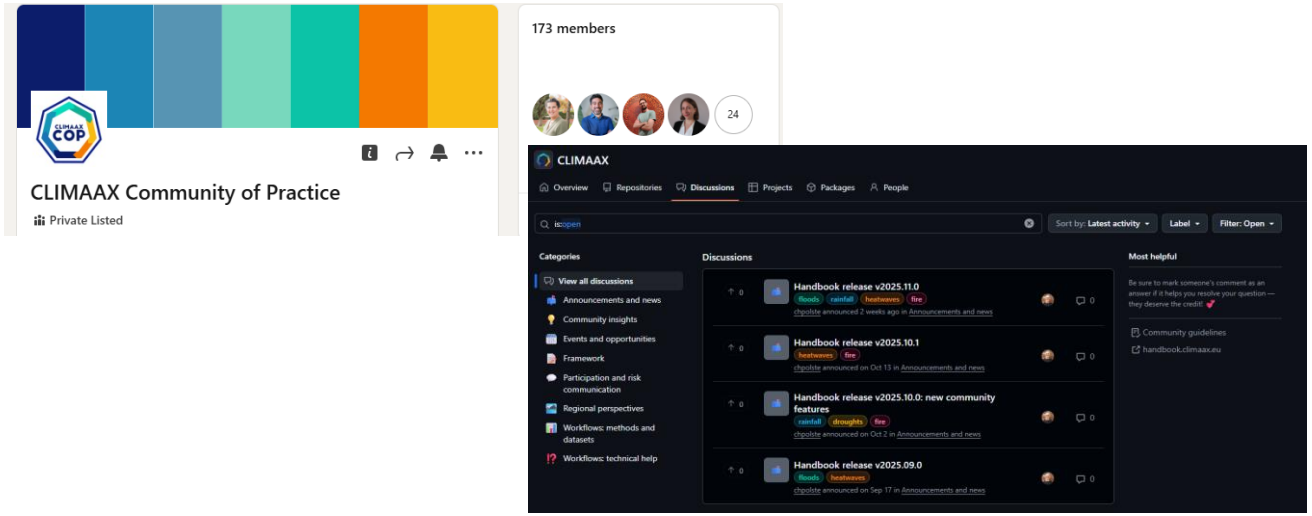
The CLIMAAX project is funded by the European Union under grant agreement No. 101093864.
This work was funded by the European Union. Its contents are the sole responsibility of the authors and do not necessarily reflect the views of the European Union.

HOW TO ENGAGE IN THE COMMUNITY OF PRACTICE

- Join our LinkedIn group and community forum
- Take our surveys
- Subscribe to the CoP to receive communication of further updates

https://www.climaax.eu/community-of-practice/





!! SCAN THIS !!

The CLIMAAX project is funded by the European Union under grant agreement No. 101093864.
This work was funded by the European Union. Its contents are the sole responsibility of the authors and do not necessarily reflect the views of the European Union.

CLIMAAX
climate ready regions

www.climaax.eu

Thank you and see you next time!

cop@climaax.eu

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864. This publication was funded by the European Union.
Its contents are the sole responsibility of the author(s) and do not necessarily reflect the views of the European Union.