Sustainable Climate Outcomes for People of Eastern Slovakia (SCOPE)

SCOPE team City of Košice– Zuzana Jarošová

The CLIMAAX project is funded by the European Union under Grant agreement ID 101093864.
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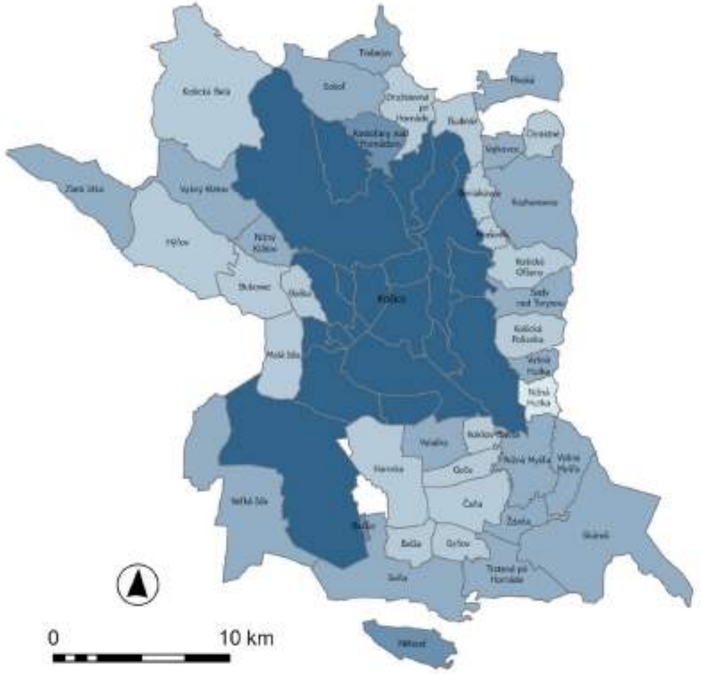
Basic information

- **SCOPE: Climate Outcomes for People of Eastern Slovakia**
- **Starting date: 01/10/2024**
- **Duration: 22 months**
- **The main objective of SCOPE project is detailed mapping and analysis of climate related risks specific to the Kosice region. By utilizing the advanced tools and methodologies provided by CLIMAAX, we will generate and regularly update localized climate risk data that is both accurate and actionable**
- **Total SCOPE budget €171,975**



- **SCOPE project is a CLIMAAX cascade project**
- **CLIMAAX: CLIMAte risk and vulnerability Assessment framework and toolbox is a 4-year Horizon Europe project that will provide financial, analytical, and practical support to improve regional climate and emergency risk management plans.**
- **CLIMAAX includes two Open Calls to fund selected beneficiaries**

CLIMAAX climate ready regions

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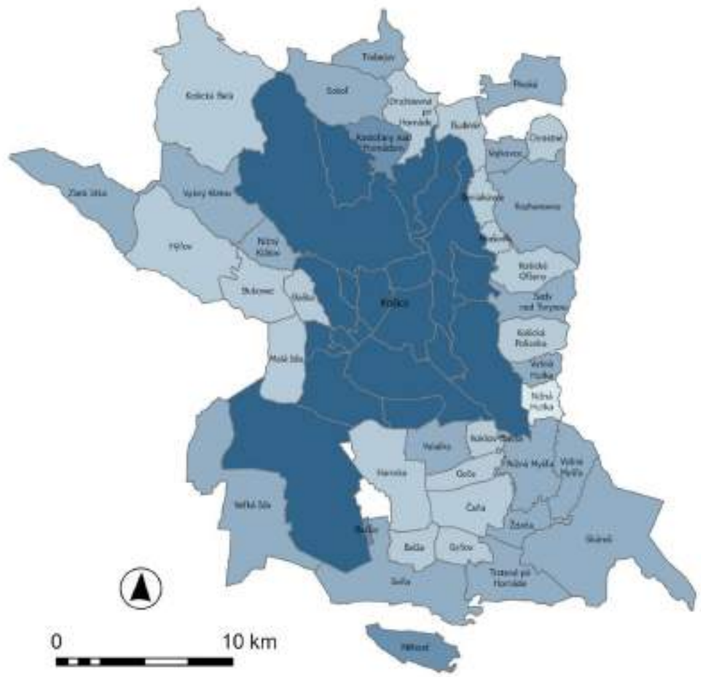
What we want to achieve

- **Moving forward in our climate mission – building climate resilience of the city and 40 surrounding municipalities**
- Detailed mapping and analysis of locally specific climate risks using new approaches – application of the CLIMAAX methodology and its advanced tools (toolboxes)
- Participation in the CLIMAAX European community/platform – same methodology for all, sharing experiences and stories

- Integration of identified results – climate risks – into city governance and planning:
- development of policy recommendations for spatial planning, civil protection, and climate-resilient infrastructure
- **Increasing the resilience of the population and territory to the impacts of climate change**



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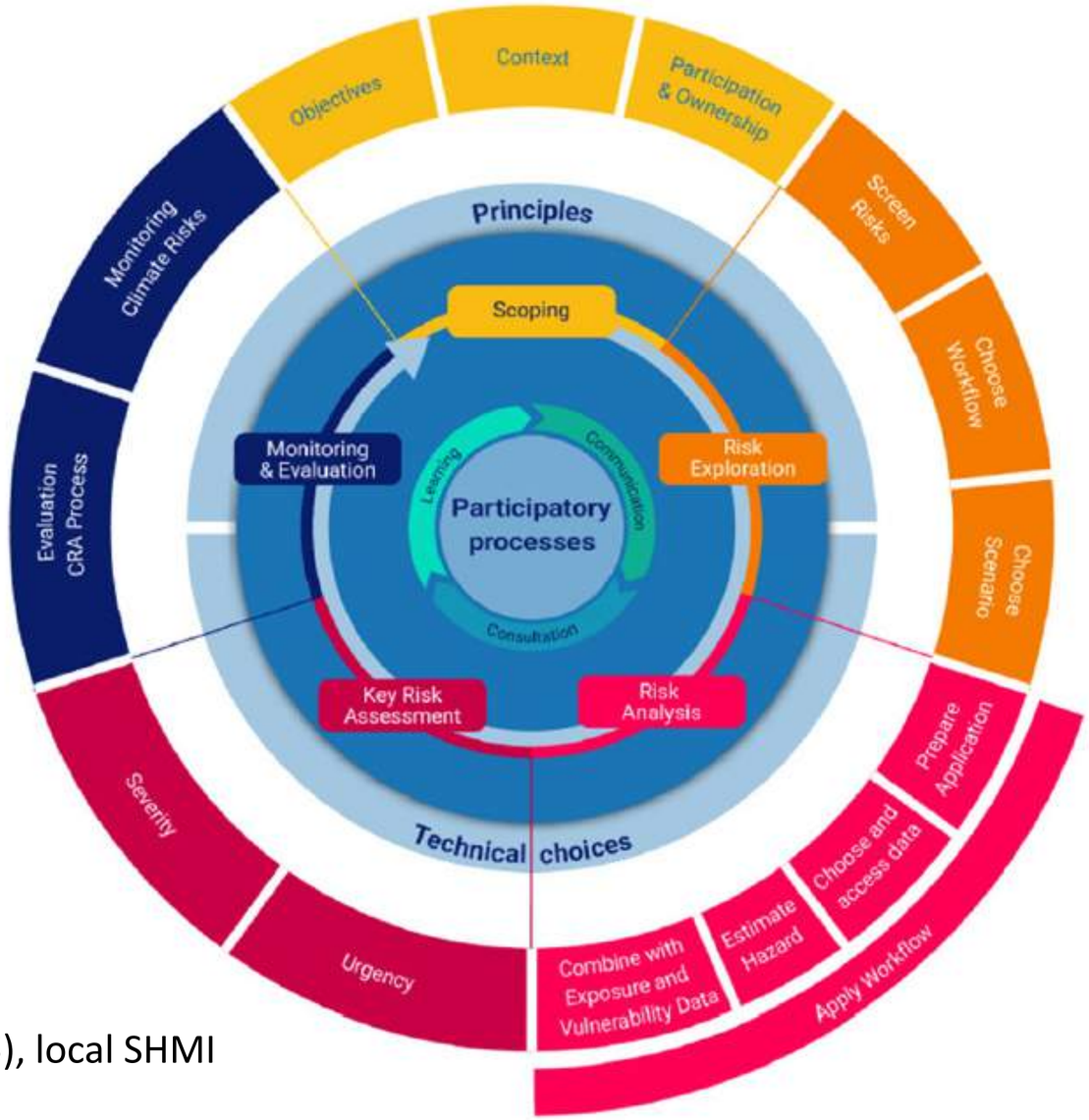
Metodology

- The project follows the CLIMAAX methodology, consisting of five steps: Scoping, Risk Exploration, Risk Analysis, Key Risk Assessment, and Monitoring.
- Focus on two main threats: extreme rainfall and heatwaves
- Data collection* and processing according to the CLIMAAX methodology
- Involvement of local stakeholders and partners
- Threat and risk analysis based on procedures – **toolboxes**



* Data sources include Euro-CORDEX simulations (RCP 8.5), local SHMI records, WorldPop data, and Landsat 8 satellite imagery..

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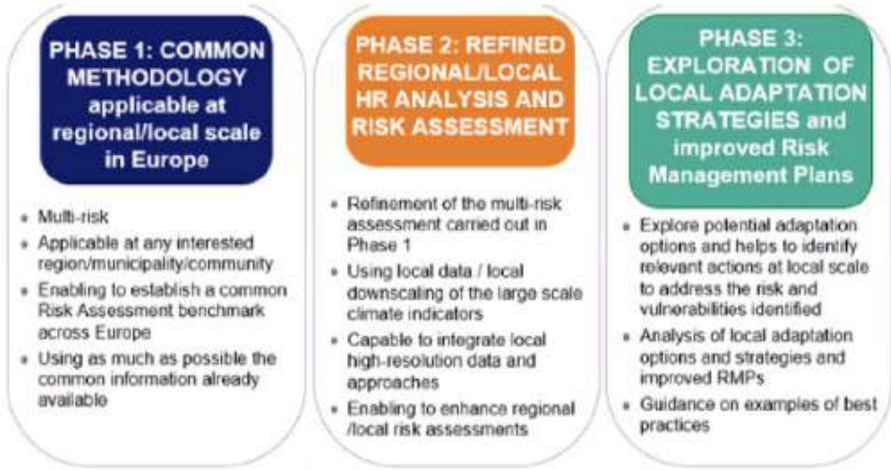
Where are we now

Projekt: SCOPE, program CLIMAAX
Termín realizácie 1.10.2024 - 28.2.2027

PHASE OF WORK (P-Phase)	DELIVERABLE	DATE (M-month)	Milestones (Mls)	KPIs	WORKPLAN
Phase 1 Multi-risk climate assessment	D1: Implementation of the CLIMAAX common methodology and Toolbox for multi-risk assessment and analysis of the results.	M1 -M6 (10/2024-3/2025)	**Mls1**: Stakeholder meeting in Phase 1 - done; **Mls2**: Phase 1 results presented	**2 of workflow** successfully applied on deliverable 1 (M5) (P1);	project management plan (10-11/2024) **Risk scoping phase** with the involvement of local authorities and sector representatives (10-12/2024) **Familiarisation with the CLIMAAX Toolbox**, data requirements and synergies with local specificities (data, policy, strategy) & Executing CLIMAAX Toolbox for selected (scoping phase) risks. (11/2024-2/2025) **Interpretation of results, presentation** to local stakeholders. Gaps and local needs assessment. (2/2025-3/2025)
Phase 2: Refined regional/local multirisk assessment.	D2: Refined regional/local high-resolution analysis and risk assessment and comparison of results.	M7- M16 (4/2025 - 1/2026)	**Mls3**: Stakeholders meeting and co-designe in Phase 2 - done; **Mls4**: Attend the CLIMAAX workshop held in Barcelona	**2 of workflow** successfully applied on deliverable 2 (M14) (P2); **12 stakeholders** involved in the activities of the project (M7-M21) (P2-P3); **12 communication** actions taken to share results with your stakeholders (M7-M21) (P2-P3)	**Local data gathering** and processing (4/2025-1/2026) **Stakeholders revision/co-design** of the local CRA workflow (5/2025-12/2025) **Adaptation** of the CLIMAAX workflows and toolbox & **Computation** of local CRA (6/2025-12/2025) **User-oriented Interpretation** of the results with key stakeholders(12/25-2/2026)
Phase 3: Climate Adaptation strategies and improved RMP.	D3: Contribution to local adaptation strategies and improved risk management	M17-M22 (2/2026-7/2026)	**Mls5**: Policy recommendations delivered; **Mls6**: Attend the CLIMAAX workshop held in Brussels	**4 publications** and dissemination actions (M6) (P1), (M15-M16) (P2), (M20-M22) (P3); **4 notes** for policy makers (M18-M22) (P3);	Build on ongoing **participatory approach** to define viable adaptation strategies communication and engagement campaign (2-6/2026) **Translate CRA results into actionable measures** at different levels city/region life (2-6/2026) Identify CLIMAAX driven **adaptation success stories** for replication in other regions/sectors (2-7/2026) **Policy recommendations** (adaptation strategy, civil protection, planning and building code) (3-7/2026)

- **We completed Phase 1 of the project: General climate risk assessment**
- **Now in phase 2 - refined regional/local high resolution analysis and risk assessment and the comparision of results**



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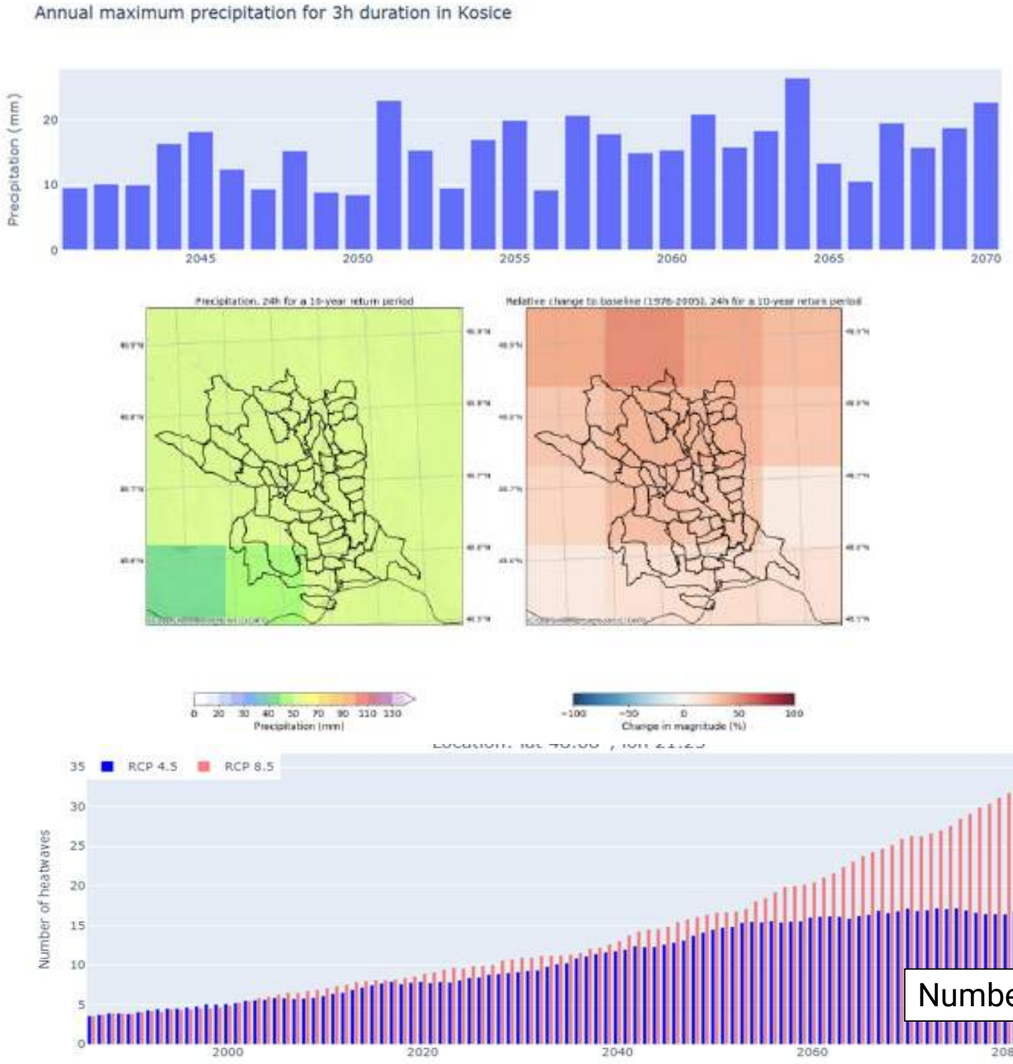
Results of the first phase



Number of heatwaves

Based on the results obtained through the workflows, focus on two major climate threats: extreme rainfall and heatwaves.

Climate projections indicate a significant increase in both the frequency and intensity of extreme precipitation and especially heat waves between 2041 and 2070.

For example, a rainfall event with a historical return period of 50 years could occur every 14 years.

Flood-prone zones have been identified near the Hornád River and in depressed urban areas with insufficient drainage.

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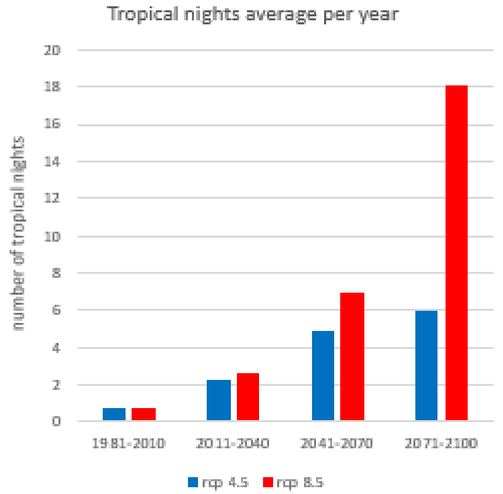

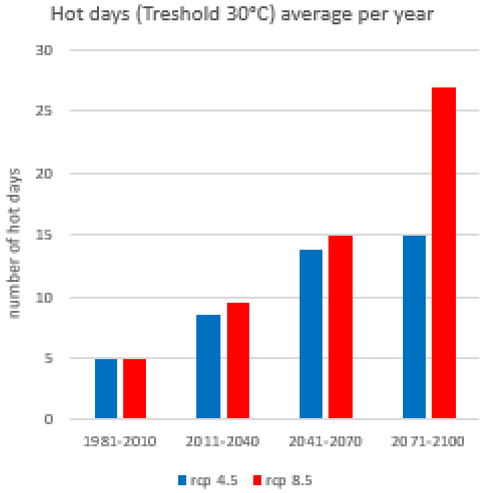

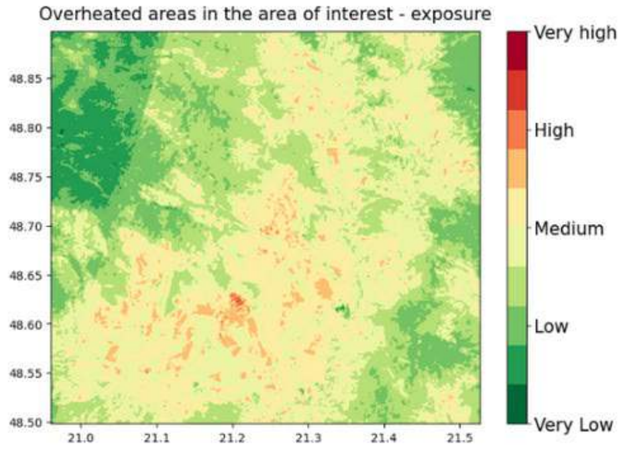

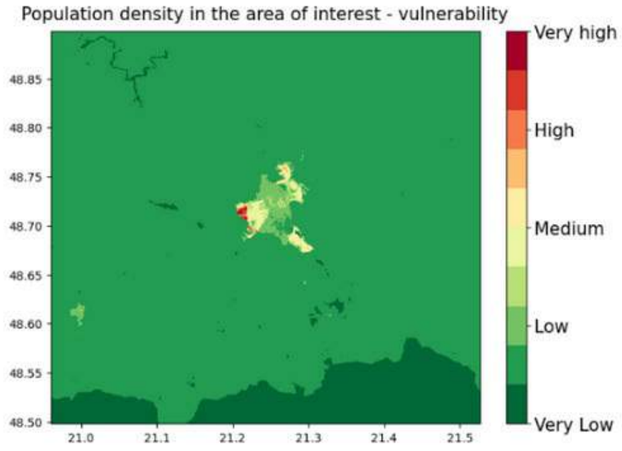

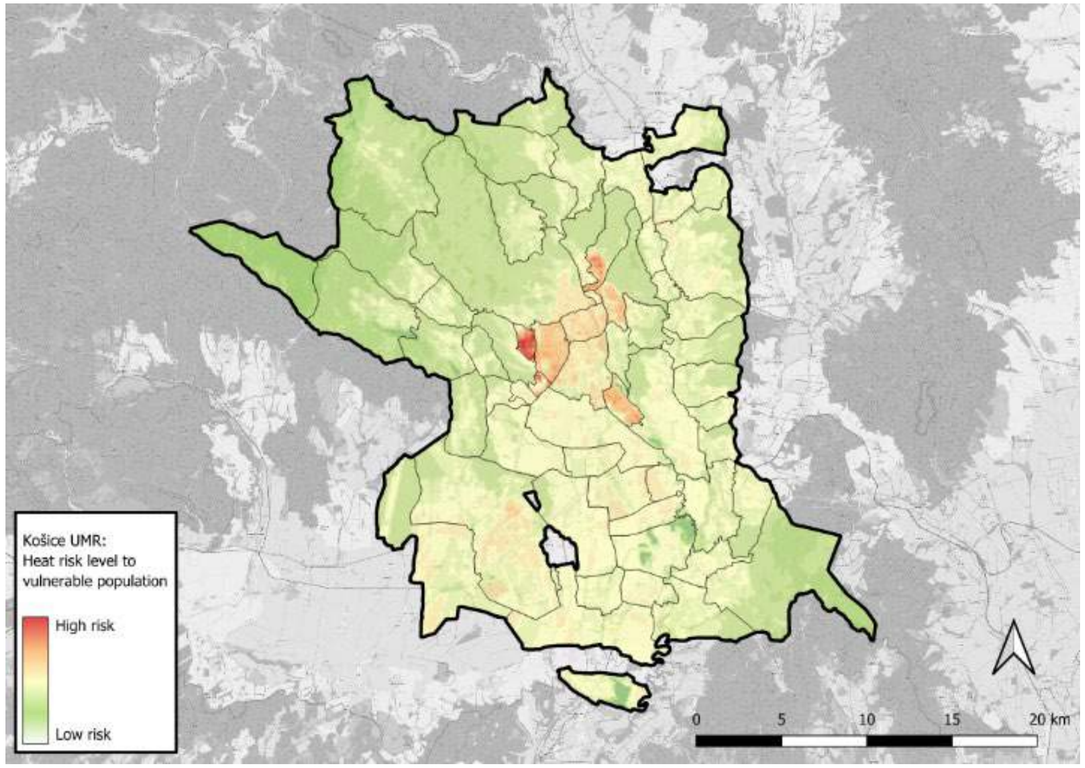

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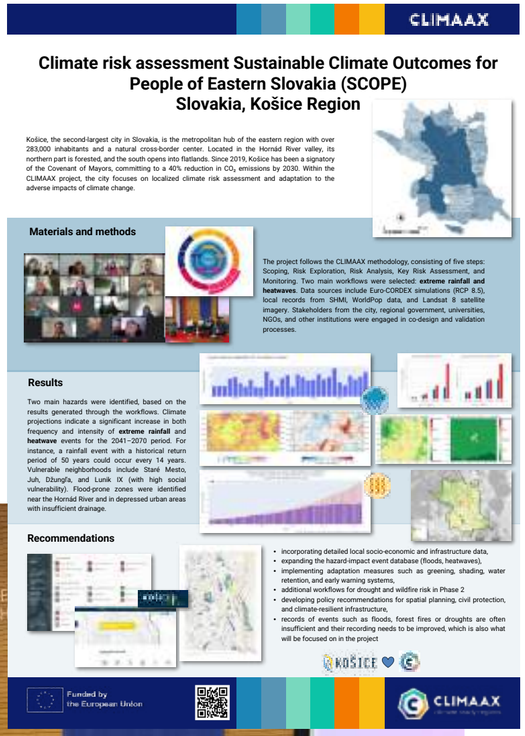

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What will happen in the next phase of the project?

specification - detailed analysis and assessment of risks in the area

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Incorporating detailed local socio-economic and infrastructure data

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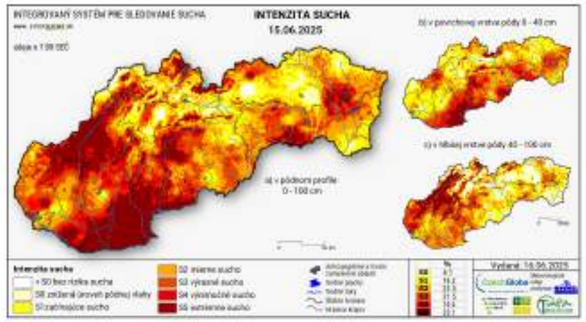
Database expansion, specification of local climate events (floods, heat waves, fires)

+

Expanding the risk assessment to include drought and forest fires



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New recommendations (or adaptation plan update) on how to adapt efectively, also showing positive stories of adaptation

Translate CRA results into actionable measures at different levels city/region life

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