ULUSLARARASI KIBRIS ÜNİVERSİTESİ
CYPRUS INTERNATIONAL UNIVERSITY

THE IMPACT RANKINGS

TIMES HIGHER EDUCATION / IMPACT RANKINGS EVIDENCE FACT FILE

SDG 13 / INDICATOR 13.3.4
Climate Risk Information and Early Warning Support

Cyprus International University • North Cyprus – Türkiye • www.ciu.edu.tr



SDG 13	13.3.4	3
Climate Action	Informing and supporting government on climate risk	Projects with government bodies named: heat, drought, coastal flood

Purpose of this evidence file

This fact file answers THE Impact Rankings SDG 13 measure 13.3.4: “Does your university as a body inform and support local or regional government in local climate change disaster/risk early warning and monitoring?” It sets out the projects CIU names with government bodies, the dated events and expert contributions, and a drafted programme for CIU to adopt.

INDICATOR 13.3.4

Climate risk information and early warning at a glance

CIU's Climate Risk Monitoring and Early Warning Support document sets out hazard mapping, data analysis, early warning data integration, training, policy briefs and quarterly risk briefs for local and regional government. It names three projects with government bodies: urban heat with the Nicosia Turkish Municipality (ongoing), drought early warning with the Ministry of Agriculture and Natural Resources (initiation) and coastal flood with the Department of Town Planning and Housing (planned). CIU's Sustainable Energy Research Center advises the Economy and Energy Ministry and has consulted for the Civil Defense Organization. CIU experts speak publicly on heat, drought, wildfire and flood.

3	10
Projects named with government bodies; one ongoing, one initiating, one planned	Dated expert contributions and events on ciu.edu.tr, 2021 to 2026

Headline result

CIU has the expertise, a stated programme and named government partners.

Evidence scope

No.	Evidence item	Where
1	What CIU states it provides to government	Page 3
2	The three government projects and the expertise behind them	Page 4
3	Drafted Climate Risk Information and Early Warning Programme (proposal)	Page 5
4	Dated events and expert contributions found on ciu.edu.tr	Page 6
5	Proposed delivery plan and briefing log	Page 7
7	Evidence: CIU's Climate Risk Monitoring document, 2025	Pages 9–12

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WHAT CIU STATES

Support offered to government

Service	What CIU states	Evidence
Hazard mapping	Departments of Civil and Environmental Engineering develop high-resolution flood, wildfire and heat vulnerability maps for Nicosia and Famagusta.	**Evidence A, pages 9–11**
Data analysis	Historical climate data and future projections to help government prioritise adaptation spending.	**Evidence A, pages 9–11**
GIS support	A Geospatial Research Lab gives local authorities mapping and spatial analysis.	**Evidence A, pages 9–11**
Early warning data	Platforms that combine meteorological data, satellite imagery and social vulnerability indicators.	**Evidence A, pages 9–11**
Community alerts	Design and test public alerts by SMS, mobile apps and sirens.	**Evidence A, pages 9–11**
Training and drills	Workshops for municipal staff and emergency responders; flash flood and extreme heat drills.	**Evidence A, pages 9–11**
Policy briefs and forums	White papers for the ministry; multi-stakeholder public forums.	**Evidence A, pages 9–11**
Governance	A Climate Resilience Coordination Office as single contact; quarterly climate risk briefs; all shared data public.	**Evidence A, pages 9–11**

PROJECTS WITH GOVERNMENT AND THE EXPERTISE BEHIND THEM

Three named projects

Project	Government partner	CIU's role (stated)	Status	What CIU pages add
Nicosia Urban Heat Island Mitigation	Nicosia Turkish Municipality	Data collection, thermal mapping, green infrastructure proposals	**Ongoing**	Seminar "Urban Heat Island Phenomena", 16 January 2025, room GE 140
Mesaoria Plain Drought Early Warning	Ministry of Agriculture and Natural Resources	Soil moisture monitoring and crop-water stress modelling	**Initiation**	Agriculture dean's drought alerts: risk of 50% to 90% over most of the country (4 January 2023); interview on heat-tolerant crops (22 August 2025).
Coastal Flood Risk Assessment	Department of Town Planning and Housing	Sea-level rise modelling and vulnerability mapping	**Planned 2025**	Interview on the 9 December 2025 flood (232 kg of rain per square metre) calls for flood early warning systems and public-university cooperation (6 February 2026).

Expertise and standing links

Who or what	What the sources state
Air Pollution and Climate Change Research Group	Assoc. Prof. Dr. Sedef Çakır, Asst. Prof. Dr. Ceyhan Kahya and Prof. Dr. Filiz Bektaş Balçık; work on land cover change and climate, emission inventories, and remote sensing of drought.
Environmental Research Center	Led by Prof. Dr. Rana Kıdak; identifies environmental problems in the TRNC, tests soil, water and gas samples, organises seminars and offers environmental consultancy.
Sustainable Energy Research Center	"Advises the Economy and Energy Ministry of Northern Cyprus on renewable energy policy and has consulted for the Civil Defense Organization" (CIU sustainability page).
Professional chambers	Membership letters in the appendix: Chamber of Environmental Engineers (renewed 2024), Chamber of Meteorology Engineers (elected for 2024–2026) and Chamber of Geoscience Engineers (valid to 31 December 2024).

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DRAFTED PROGRAMME: PROPOSAL FOR ADOPTION

CIU Climate Risk Information and Early Warning Programme

Purpose and scope

Cyprus International University informs local and regional government about the climate hazards that matter most in Nicosia, Famagusta and the Mesaoria Plain (extreme heat, drought, wildfire, flash flood and coastal flood), and supports the monitoring and early warning that government runs. CIU provides science, data and training; government keeps the responsibility for issuing warnings.

What CIU delivers

Product	Content	Audience	When	Owner
Quarterly climate risk brief	Current conditions, hazard watch for heat, drought, flood and wildfire, indicators, and recommended actions.	Municipality, ministries, civil defence	Each quarter	Environmental Research Center
Heat island data pack	Thermal maps of central Nicosia, hot spots and tree-planting options.	Nicosia Turkish Municipality	Each summer	Environmental Engineering
Drought bulletin	Soil moisture and crop-water stress for the Mesaoria Plain.	Ministry of Agriculture and Natural Resources	Monthly in season	Agriculture; Environmental Engineering
Flood vulnerability maps	Sea-level rise and low-lying areas of the coast.	Department of Town Planning and Housing	Yearly	Civil Engineering
Training	Short courses for municipal staff and responders on reading forecasts and warning data.	Municipalities; civil defence	Twice a year	Continuing Education Center
Drill	Flash flood or extreme heat exercise co-run with the Civil Defense Organization.	Civil defence; municipality	Once a year	Emergency planning group

EVENTS AND CONTRIBUTIONS FOUND ON CIU.EDU.TR

Dated events and expert contributions

Ref.	Date	Event or contribution	Reach shown on the page	Evidence
V1	16 Jan 2025	Seminar “Urban Heat Island Phenomena”, GE 140, 11:00.	General public	CIU event page
V2	12 Dec 2021	Drought article by Asst. Prof. Dr. Hüseyin Ok: water saving, rainwater harvesting, planning of the 75 million m³ water supply for farmers.	General public	CIU news, Dec 2021
V3	4 Jan 2023	“Drought alert in the country”: Prof. Dr. Mustafa Erayman gives 50% to 90% drought risk, a possible 30% yield loss, and 13 aquifers (about 750 km²).	Farmers and public	CIU news, Jan 2023
V4	14 Oct 2023	Workshop “The Road to Sustainability: From Campuses to the World”; earlier cooperation with Gönyeli Municipality named.	Outside guests; municipalities named	CIU news, Oct 2023
V5	8 Dec 2023	GreenMetric news credits cooperation with Gönyeli-Alayköy Municipality with raising awareness.	Municipality	CIU news, Dec 2023
V6	15 May 2025	World Climate Change Day interview by Assoc. Prof. Dr. Sedef Çakır: local action, Eastern Mediterranean vulnerability, seminars by Environmental Engineering.	General public	CIU news, May 2025
V7	24 Jul 2025	Wildfire article by Prof. Dr. Rana Kıdak: fire risk maps, satellite and drone monitoring, early warning, buffer zones.	General public; governing bodies	CIU news, Jul 2025
V8	22 Aug 2025	Agriculture interview by Prof. Dr. Mustafa Erayman: names the Ministry of Agriculture’s breeding programmes and suggests that State Hydraulic Works fund aquifer studies.	Ministry and State Hydraulic Works named as actors	CIU news, Aug 2025
V9	6 Feb 2026	Interview by Prof. Dr. Rana Kıdak after the 9 Dec 2025 flood: calls public-university cooperation “critical” and lists flood early warning systems.	General public	CIU news, Feb 2026
V10	Jun to Jul 2026	CIU students at the USAR Games 2026 of the Civil Defense Organization (7th of 22 universities).	Civil Defense Organization	CIU news, Jul 2026

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PROPOSED DELIVERY PLAN AND BRIEFING LOG

How CIU can show it informs government

A proposed plan

Recipient	Proposed action	When	Record to keep
Nicosia Turkish Municipality	Send the heat island data pack and present it at a meeting with the mayor's office.	Before summer 2027	Cover email, slides, minutes
Ministry of Agriculture and Natural Resources	Send the first drought bulletin and agree the monthly date.	Spring 2027	Bulletin, reply
Department of Town Planning and Housing	Hand over the flood vulnerability map and the 2025 plan update.	2027	Map, receipt
Civil Defense Organization	Share the quarterly brief; agree a first joint drill, building on the 2026 USAR Games.	2027	Brief, minutes, drill report
All recipients	Post each brief on the CIU Climate Action page and tell recipients.	Each quarter	Page link, email

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THE IMPACT RANKINGS

EVIDENCE A, PAGE 1 OF 3

Climate Risk Monitoring and Early Warning Support

CIU document “Climate risk monitoring, 2025”, as supplied by CIU: purpose, risk assessment and early warning.

Evidence for THE Impact Rankings Questionnaire

University: Cyprus International University
Country :North Cyprus- Türkiye
Web Address : www.ciu.edu.tr

[13]

[13.3.4]

Climate Risk Monitoring and Early Warning Support

Cyprus International University (CIU) recognizes its critical role as a knowledge partner in strengthening regional climate resilience. Through our academic expertise and technical capabilities, we actively inform and support local and regional government in climate change disaster risk assessment, early warning systems, and monitoring initiatives. This document outlines our structured approach to providing scientific support that enhances local adaptive capacity and safeguards communities against climate-related hazards.

CIU is dedicated to bridging the gap between academic research and public policy. We provide evidence-based insights and technical assistance to help government bodies better understand, monitor, and respond to climate-related risks such as extreme heat, droughts, floods, and wildfires.

Key Support Initiatives

Climate Risk Assessment and Data Modeling

- **Hazard Mapping:** Our Departments of Civil and Environmental Engineering develop high-resolution flood, wildfire, and heat vulnerability maps for the Nicosia and Famagusta regions.
- **Data Analysis:** We analyze historical climate data and future projections to identify emerging risks and support government in prioritizing adaptation investments.
- **GIS Support:** CIU’s Geospatial Research Lab provides local authorities with spatial analysis and mapping services to improve land-use planning and disaster preparedness.

Early Warning System Development

- **Data Integration:** CIU supports the development of integrated platforms that combine meteorological data, satellite imagery, and social vulnerability indicators to improve early warning accuracy and dissemination.
- **Community Alert Protocols:** We assist in designing and testing public alert mechanisms (SMS, mobile apps, sirens) to ensure timely and accessible warnings for at-risk populations.

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EVIDENCE A, PAGE 2 OF 3

Training, policy support, projects and governance

Capacity Building and Training

- **Technical Workshops:** We organize training sessions for municipal staff and emergency responders on using climate models, interpreting early warning data, and implementing response protocols.
- **Simulation Exercises:** CIU co-designs and hosts scenario-based simulation drills (e.g., flash flood response, extreme heat planning) to enhance coordination between university, government, and community actors.

Policy and Planning Support

- **White Papers and Briefs:** We prepare science-based policy recommendations on climate adaptation, disaster risk reduction, and resilient infrastructure for the Ministry of Environment and Urbanization.
- **Public Forum Hosting:** CIU facilitates multi-stakeholder dialogues that bring together policymakers, researchers, and civil society to co-develop localized climate action strategies.

Ongoing and Planned Collaborative Projects

Project Name	Government Partner	CIU's Role	Status
Nicosia Urban Heat Island Mitigation	Nicosia Turkish Municipality	Data collection, thermal mapping, and green infrastructure proposal development	Ongoing
Mesaoria Plain Drought Early Warning	Ministry of Agriculture and Natural Resources	Soil moisture monitoring and crop-water stress modeling	Initiation Phase
Coastal Flood Risk Assessment	Department of Town Planning and Housing	Sea-level rise modeling and vulnerability mapping	Planned (2025)

Governance and Implementation

- A dedicated **Climate Resilience Coordination Office** at CIU serves as the single point of contact for government agencies seeking collaboration, see Appendix for more information.
- We commit to providing **quarterly climate risk briefs** to relevant local and regional government departments.
- All shared data, tools, and reports will be publicly accessible

Climate risk monitoring, 2025, page 2 of 5.

EVIDENCE A, PAGE 3 OF 3

Call to action and appendix

Call to Action

We invite local and regional government bodies to leverage CIU's technical resources, research expertise, and committed personnel. By working together, we can build a science-informed, proactive, and resilient approach to climate change adaptation and disaster risk management.

Appendix:

KTMMOB 1960

KIBRIS TÜRK MÜHENDİS VE MİMAR ODALARI BİRLİĞİ
UNION OF THE CHAMBERS OF CYPRUS TURKISH ENGINEERS AND ARCHITECTS
ÇEVRE MÜHENDİSLERİ ODASI
CHAMBER OF ENVIRONMENTAL ENGINEERS

ÇEVRE MÜHENDİSLERİ ODASI

08.01.2024

To Whom It May Concern,

Ms İme Akanyeti Hançerli (ID No.: [redacted] is an active member of CEE (Chamber of Environmental Engineers) and renewed her membership in 2024 which is valid for one year.

I respectfully request your knowledge.

Sayın İlgili,

[redacted]imlik hamili İme Akanyeti Hançerli Çevre Mühendisleri Odası'nın faal üyesidir ve üyeliğini 2024 yılı için 1 sene geçerli olacak şekilde yenilemiştir.

Saygılarımla bilgilerinize sunarım.

KTMMOB Chamber of Environmental Engineers / Çevre Mühendisleri Odası
Board of Directors (on behalf of) / Yönetim Kurulu (a)
Sibel Paralik
President / Başkan

Climate risk monitoring, 2024, page 3 of 5.

EVIDENCE B

Professional chamber membership: meteorology and geoscience



K.T.M.M.O.B.
KIBRIS TÜRK METEOROLOJİ MÜHENDİSLERİ ODASI (1977)
KTMMO

TARİH: 13 Ekim 2025

İlgili Makama,

13 Sicil Numaralı Sn. Doç. Dr. Sedef Çakır, Odamızın 26 Mart 2024 tarihinde yapılan genel kurulunda 2024-2026 dönemi için faal üye olarak seçilmiştir ve aktif olarak görevlerini bir tamam yerine getirmektedir.

Bu belge, kişinin isteği üzerine hazırlanmıştır.

Saygılarımla,

Mediha Orun SARP
Yönetim Kurulu (a)
MMO Yazmanı

Page 4 of 5.



KIBRIS TÜRK MÜHENDİS VE MİMAR ODALARI BİRLİĞİ
YERBİLİM MÜHENDİSLERİ ODASI
KTMMOB

Geçerlilik Tarihi: 31/12/2024

ÜYELİK BELGESİ

ADI- SOYAD	:	HİLMİ DİNDAR
MESLEK	:	JEOFİZİK MÜHENDİSİ
ÜNİVERSİTE	:	DOKUZ EYLÜL ÜNİVERSİTESİ

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