

"Horizon Europe" Information Day Widening Participation & Spreading Excellence

"Experiences from Implementation of a Teaming-2 Project"

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EMME-CARE / CARE-C, The Cyprus Institute

with thanks to:

HELLENIC REPUBLIC MINISTRY OF DEVELOPMENT AND INVESTMENTS



RESEARCH AND INNOVATION





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 856612 and the Cyprus Government.







FOR CHEMISTRY

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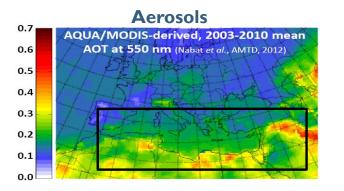


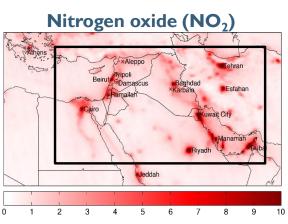
RESEARCH • TECHNOLOGY • INNOVATION

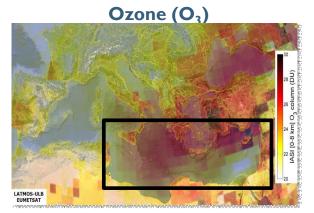
UNIVERSITY OF HELSINKI

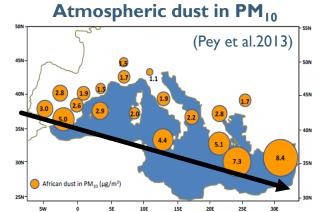
WHY SHOULD WE CARE ABOUT THE EMME?

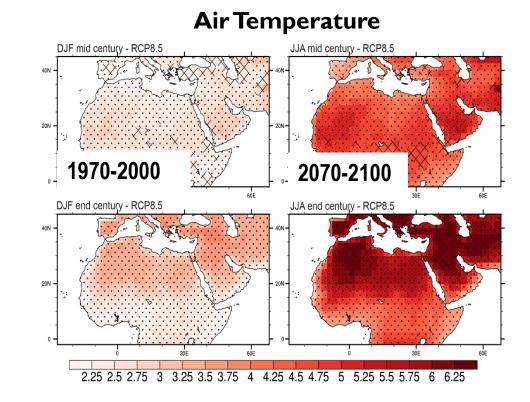
EMME IS AN AIR POLLUTION AND CLIMATE CHANGE HOT SPOT





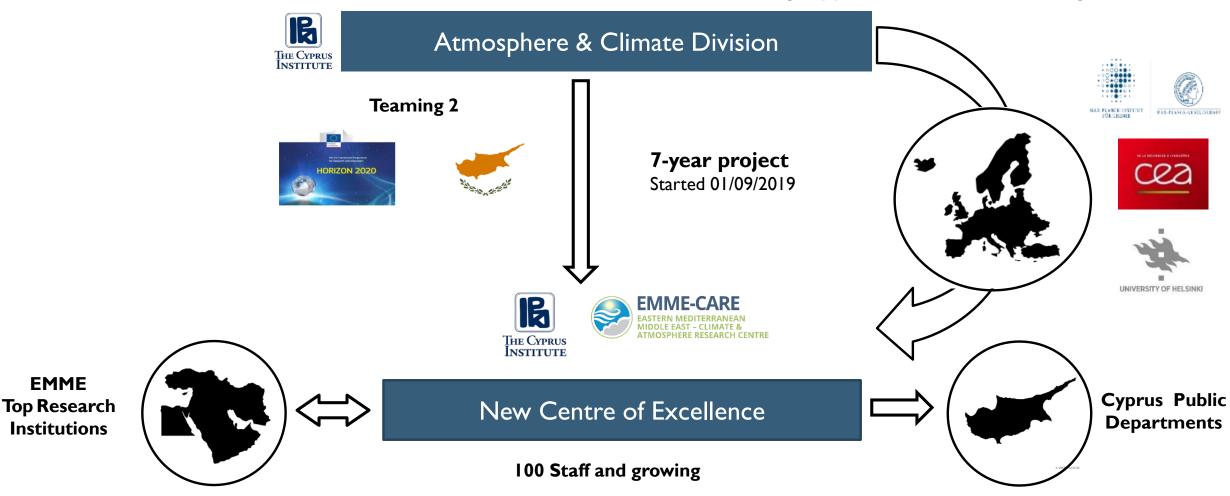








A knowledge hub for air pollution & climate change research, innovation and education aimed at creating sustainable solutions to address the climate impacts and societal challenges facing Cyprus and the EMME region



Cyprus Institute's overall Overview & Mission





A **Research** and **Educational** institution, established in 2005, and suited to a knowledge economy

A European institution for the Eastern Mediterranean based in Cyprus

A Non-Governmental, Non-Profit institution advancing peace and prosperity in the region using Science, Technology and Innovation.



Cyl Research Centers



- Energy, Environment & Water (EEWRC)
- Science & Technology in Archaeology and Culture (STARC)
- Computation-Based Science & Technology (CaSToRC)
- Climate and Atmosphere (CARE-C) \rightarrow <u>WIDESPREAD TEAMING Centre-of-Excellence</u>



Research Achievements



HORIZON 2020 SUCCESSES





A BRIDGE BETWEEN THE EU & THE MIDDLE EAST

CoE as a "Spreading Excellence" bridge between the EU & the Middle East

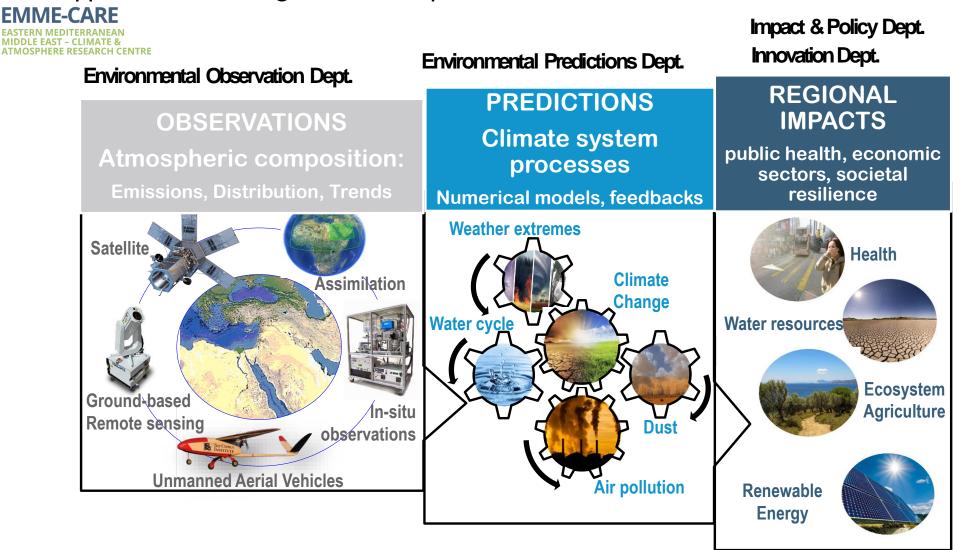
Leveraging the strategic location of Cyprus



EUROPEAN UNION Research Infrastructure EU SOLARIS **Competitive Funds** HORIZ N 2020 esa European Space Agen **MIDDLE EAST Regional Nodes & Clusters** futurerth MedEC MENACORDE and environmental Chan **Regional Research networks**

HOW EMME-CARE CREATES IMPACT

Fill the gap of **OBSERVATIONS** for a better **PREDICTION** of the **IMPACTS** of climate change in order to support national mitigation and adaption **POLICIES** with **INNOVATIVE** solutions.



IMPACT & POLICY

Regional impacts:

Energy – Water systems & Policy, public health, economic sectors, societal resilience



Energy



- Implementation of enabling technologies (e.g. remote sensing, digitalization)
- Health impact assessment (air quality,climate change)
- Impacts on key economic sectors (AgroforestryTourism,etc.)
- Impacts of mitigation scenarios with cost-benefit analyses
- Legal framework and policy aspects of (inter)national climate initiatives



June 2018. The President of the Republic announced National and Regional Climate Change Initiative to be Coordinated scientifically by the Cyprus Institute (P.I. C.N Papanicolas)

The Initiative of the Cyprus President for Climate Change in the EMME

- Purpose: To coordinate the concerted efforts of the countries of the Eastern Mediterranean and the Middle East to address the effects of climate change.
- The EMME countries to be engaged are Cyprus, Egypt, Greece, the United Arab Emirates, Jordan, Iraq, Iran, Israel, Qatar, Kuwait, Lebanon, Bahrain, Oman, Palestine, Saudi Arabia, Syria and Turkey.

INNOVATION



What are the two most important issues facing the EU?

in percent

Source: Eurobarometer

A Major Issue For Citizens

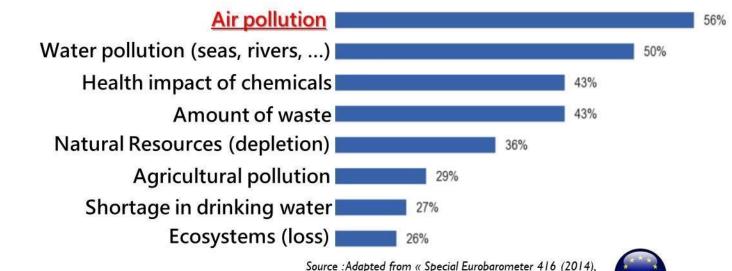
34 (-6) Immigration **22** (+6) Climate change 18 (=) Economic situation **18** (-1) State of public finances 18 (-2) Terrorism **34** (- 6) The environment **12** (-1) Unemployment **12** (+1) EU's influence worldwide **10** (+1) Cost of living **9** (=) Crime **5** (+1) Energy supply Pensions 📃 **4** (-1) Taxation 📃 4 (=) August 2018 August 2019

©DW

For EU (Cypriot) citizens, CLIMATE CHANGE comes as <u>second</u> of the two most important issues facing the EU ...

For EU (Cypriot) citizens, ENVIRONMENT comes as <u>sixth</u> of the two most important issues facing the EU . . .

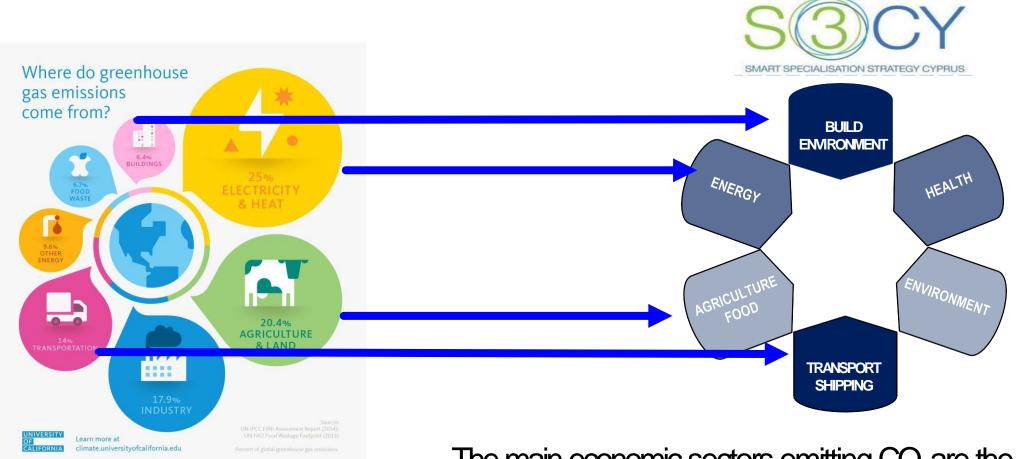
...and AIR POLLUTION comes as the first environmental concern



Adapted from « Special Europarometer 410 (2014 Attitudes of European citizens towards the environment »



ALIGNMENTWITH CYPRUS SMART SPECIALIZATION (S3CY)



The main economic sectors emitting CO₂ are the main priorities of the Cyprus Smart Specialization Strategy

CLIMATE ACTION IS A TOP PRIORITY FOR CYPRUS UN SUSTAINABLE DEVELOPMENT GOAL

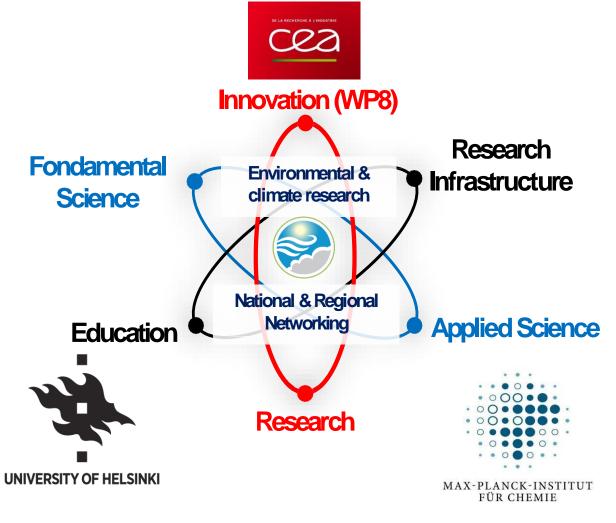




- > Cyprus is ranking last in the EU28 SDG Index
- > Climate Actions among the main challenges for Cyprus

CONTRIBUTION OF THE 3 (EU) ADVANCED PARTNERS : THE RECIPE OF SUCCESS

Perfect alignment between Expertise and EMIVE-CARE WPs



High complementarity in Research topics Air Greenhouse Pollution Gases Climate Image: Colspan="2">Image: Colspan="2">Image: Climate Image: Colspan: Climate Image: Climate

Strong collaboration between top world scientists



cea

MAX-PLANCK-INSTITU' FÜR CHEMIE Markku KULMALA, Academy Professor Director of Institute for Atmospheric and Earth System Research (INAR), Advanced Partner PI (UH)

Philippe CIAIS, Professor Academy of Science, Research Director at LSCE (CEA, CNRS, UVSQ), Advanced Partner PI (CEA)

Jos Direc Adva

CNRS, UVSQ), Advanced Partner PI (CEA) Jos LELIEVELD, Professor Director of Max Planck Institute for Chemistry

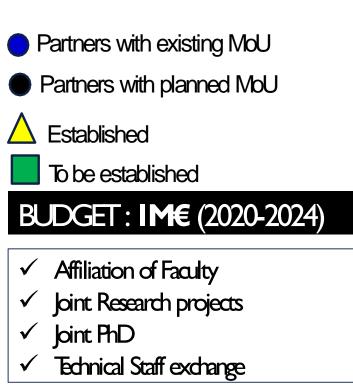
Advanced Partner PI (MPG)

NATIONAL CLUSTERS



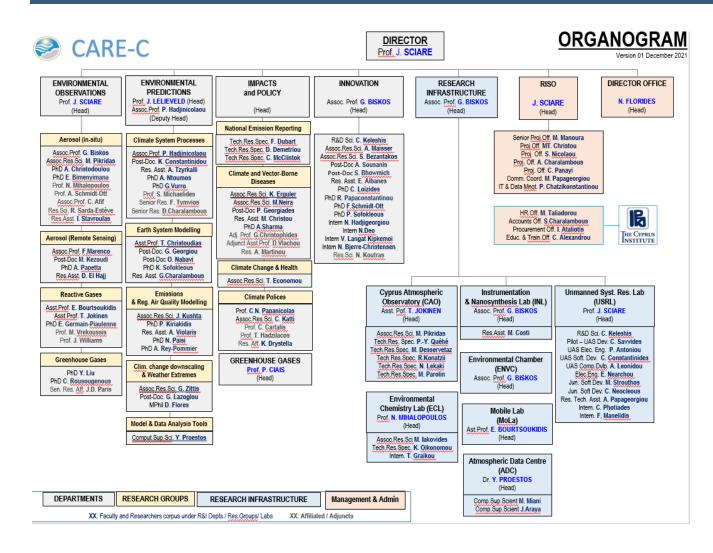
REGIONAL NETWORK







CONCRETE OPERATIONAL STRUCTURE & RESEARCH SUPPORT MECHANISM





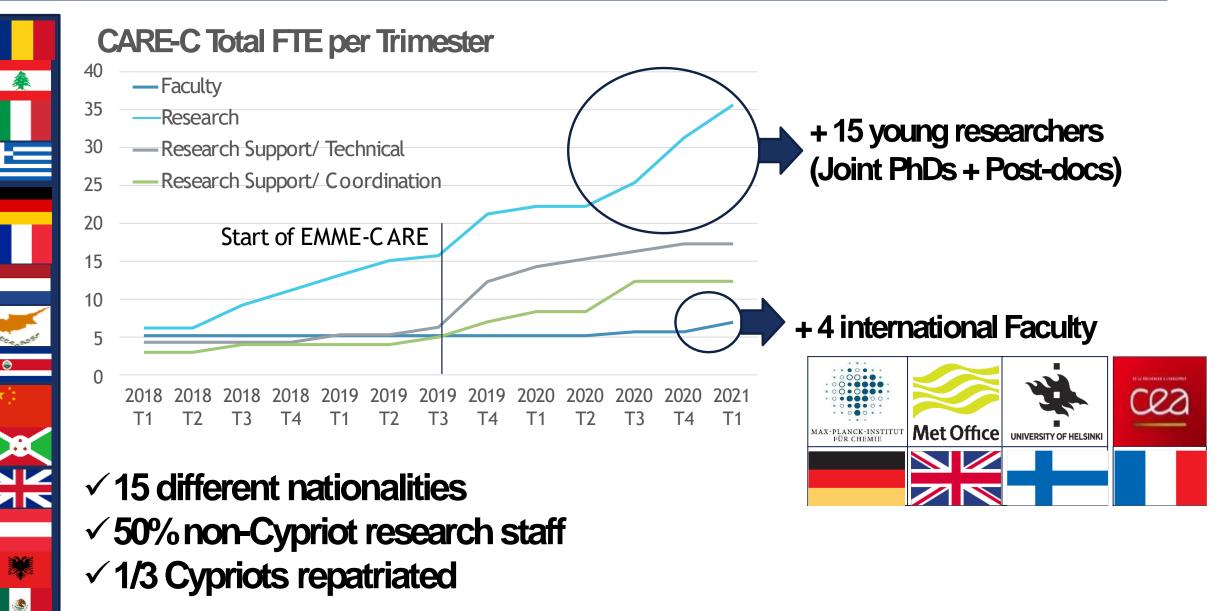
OBJECTIVE: 100 in 2026

Research & Innovation Support Operations (RISO) Unit

established to support the timely monitoring - management - administration - delivery of KPIs, Milestones, Deliverables.

- RISO operating at interface of CoE and the central Cyl. Thus contributing to:
- Autonomous, fast and efficient establishment of CoE, and
- Leveraging and facilitating workflow with Cyl
- Highly specialised Staff, as per Best Practices of Advanced Partners
- International Standards and Praxis of International Associations and Networks for Research Management & Admin (EARMA, NCURA, EURAXESS, EIPA, PMI)

ATTRACTIVE WORKING ENVIRONMENT



KPIs: CARE-C Major Achievements since its establishment (Jan. 2020)

Administration

MIDDLE EAST – CLIMATE & ATMOSPHERE RESEARCH CENTRE

Human	First EN			/ME-CARE		2.7 M€ soft funds			
Resources		P	Professor affi			raised in 2020 (new rec			
Research			reece)			,	,		
Innovation				2 M€ invested on			Successful recruitment		
Education				scientific Instrum.			of 4 international Faculty		
Start of Establishment of					10	00 staff	(France, Germany, UK, Finland)		
EMME-CARE	CARE-C		_		@	CARE-C			
		COVID lockdown					C	COVID locka	lown
Sept. 2019	Jan. 2020	Apr. 2020	Jul. 2020		Oct. 2020	Ja 20		Feb. 2021	
First field can the EMME (successfully a		mpaign in pro (Egypt) d	4 Research projects funded on airborne SARS-CoV-2		ects funded	74 peer-review publications in 2020 (new record) to establish the 2		recruited start of EN	D students since the /ME-CARE
EMME-CARE EASTERN MEDITERRANEAN		pin-off com			(3 join	t PhDs)			

SOME TAKE AWAY MESSAGES

- Inspiring Vision and Solid Mission
- Clear Objectives and path to impact
- Measurable KPIs & Detailed
 Work/Business Plan
- Engaged/Dedicated Advanced Partners
- Solid Structure and RMA-supportoperation

- Alignment and consistency with
 - Smart Specialization Strategy
 - Strategic Priorities and Needs and Documents of your Country, your Region and the EU added value (e.g. EU Green Deal, green transition...)
- Proposed impact at Pan-European level

Ambition to become a "Spreading Excellence" and "Widening Participation" "hub" for your country and region, with a clear path to impact

EMME-CARE, GRANT NO. 856612 | 9 DECEMBER 2021 | ONLINE





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