



RESEARCH  
& INNOVATION  
FOUNDATION

**DRIVING  
GROWTH**

# FROM VISION *to impact*

Building a Competitive, Knowledge-Driven Economy

**RIF FIVE-YEAR REVIEW (1/1/2021 – 31/12/2025)**



**Key Achievements,  
Investments & Success Stories**



**Theodoros Loukaidis**

Director General



**Demetris Skourides**

Chairman of the BoD

It is with great pride that we present this publication, showcasing the transformative work made possible through the Research and Innovation Foundation's support.

Over the past five years, our funding programmes and support services have fuelled breakthroughs in research, accelerated technological advancement, and turned bold ideas into game-changing products and services that delivered measurable impact for our society and our economy.

This publication demonstrates how Cyprus' researchers and innovators, empowered by the RIF, are turning vision into impact. Their achievements reflect a growing culture of collaboration, ambition, and excellence across our research, innovation, and business communities.

As the nation's catalyst for research and innovation, we will continue driving this momentum, backing the people and the projects that push boundaries, pave new pathways, and create opportunities.

This publication stands as proof of what our ecosystem can achieve and as a clear sign that Cyprus' innovation future is already taking shape.

*The future is ours to build*

# THE CYPRUS R&I ECOSYSTEM

## Climbing Rankings

## Raising Standards



Global  
Innovation  
Index 2025  
Innovation at  
a Crossroads



**25th** position worldwide  
up from **29th** in 2020

**16th Globally**  
for Innovation Outputs

Ranked as an  
**Innovation Leader**

**Fastest Growing EU startup ecosystem**  
for the 2nd year running

 StartupBlink

**Global  
Startup Ecosystem  
Index 2025**

**Top 40 Global Ecosystem**  
Up 15 positions from 2020

**2nd Best ecosystem**  
for small nations (<2m pop)

# KEY RIF FIGURES



Available Budget for Funding

**€206.8m**



Number of Calls for Proposals

**142**

# KEY RIF FIGURES



Total Contracts Value

**€153m**



Contracts Signed

**797**



New Jobs created

**1 330**

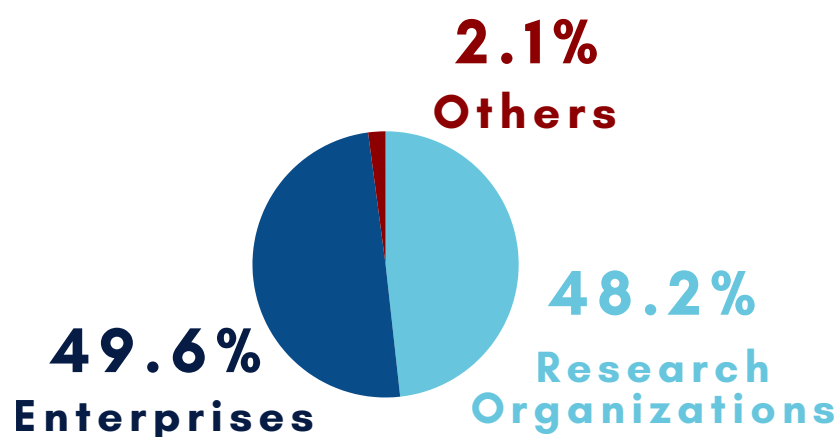


Private Investments  
leveraged

**€47.2m**

Every **€10** RIF public money mobilizes **€3.1** of private money

## Budget Allocation 2021 - 2025



Enterprises supported

**649**

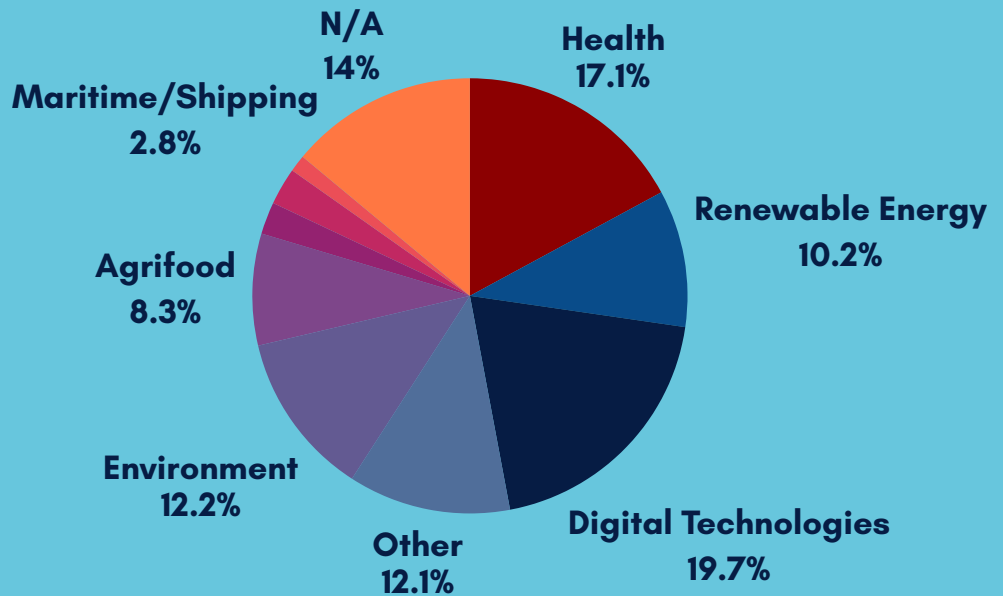
# FUNDING ALLOCATION KEY INSIGHTS

## Signed Contracts per Smart Specialization Strategy Priority Area



Contracts Signed

# 797



## TOP 5 Beneficiaries per Category

### Research Organisations

A/A	Organisation	Total Requested Funding (€)
1	University of Cyprus	€ 28,48m
2	Cyprus University of Technology	€ 8,74m
3	The Cyprus Institute	€ 8,14m
4	Frederick Research Center	€ 8,00m
5	CMMI	€ 3,84m

### Enterprises

A/A	Organisation	Total Requested Funding (€)
1	CY.R.I.C.	€ 3,02m
2	Sk EMBIO Diagnostics Ltd	€ 2,79m
3	NIPD GENETICS BIOTECH LIMITED	€ 1,98m
4	AMDM	€ 1,90m
5	EnergyIntel Services Ltd	€ 1,70m

# R&D: A COLLABORATIVE GAME



**Average Number of  
Partners Per  
Collaboration  
Network**



**Unique National  
Collaboration  
Networks**

**278**



**Partners in National  
Collaboration  
Networks**

**751**



**Foreign Research  
Organizations (FROs) in  
RIF funded projects**

**127**



**Enterprise-Research  
Organization links  
within Collaboration  
Networks**

**266**

# ECOSYSTEM BUILDING

37

Events **Organized**

12

Local Knowledge Transfer Offices (KTOs) **Supported**

9

Investors **Co-Funded** companies with RIF

5

Innovative Support Structures **Funded**

## ENGAGING THE PUBLIC

**61 349** Adults Participated in RIF funded events

### Nurturing Talent

### Shaping the Future

17 869

School Students **Participated**  
in RIF events & partners' events

349

University  
Students

placed in

since 2022

289

Enterprises



## PROMOTING OUR ECOSYSTEM TO THE WORLD



Led **18** national delegations abroad

# THE RIF INTRODUCED

## FIRST-OF-THEIR-KIND FUNDING PROGRAMMES

### DISRUPT

Blending RIF Public Money with VC investments to scale up

### STEP

Production Lines for Innovative Products

### AI IN GOVERNMENT

Use AI to tackle Public Sector Key Challenges

### BOOST

De-risk equity-based investments in innovative companies

### FAST TRACK INNOVATION

Speeding up the development and market entry of innovations

### CO-DEVELOP

Enterprises and research organizations co-developing innovative solutions

### COMMERCIAL PROOF OF CONCEPT – ENERGY

Accelerating the commercialization of energy technologies

### RESEARCH IN ENTERPRISES -EAC

Address Challenges in the electricity grid

### INNOVATION SUPPORT STRUCTURES

Supporting Incubators/Accelerators and other Support Structures

### FUTURE FOUNDERS ACADEMY

Where first time founders get training, funding and the confidence to built a better future

### NCC-CYBERSECURITY

Cybersecurity funding for SMEs

### PHD IN INDUSTRY

Industry-based PhD research funding

### VISION ERC

Supporting researchers targeting European Research Council grants

### BRIDGE2HORIZON

Helping organizations prepare competitive Horizon Europe proposals

### OPEN ACCESS RESEARCH INFRASTRUCTURES

Providing advanced research facilities accessible to the entire ecosystem

# THE RIF INTRODUCED

## CKTO SERVICES

Specialised services that help organizations protect and commercialize research results

## SUPPORT TOOLS

### MEET INVESTORS

Connecting startups with potential investors

### PARTNER SEARCH TOOL

Facilitating collaboration between research organizations and industry

### ERC MENTORING

Supporting researchers preparing ERC proposals

### R&I INTERNSHIPS

R&I internship placements for students

### SPONSORSHIPS

Funding support for events & initiatives

### INNOVATION FACTORY

Research & Innovation skills development

### CHATBOT DIANA

24/7 intelligent support for specialised queries

## ECOSYSTEM NETWORKING INITIATIVES

### THE BASH

Flagship networking events bringing together enterprises, researchers, policy makers and investors

### PARTNER DAY

### OPEN DAY



*More than Just a Funding Agency...*

# POWERED BY ITS PEOPLE... PROVEN BY RESULTS

## RIF IN NUMBERS



**58 Professionals** (69% Women)

And **9 BoD** Members



Payments to the Ecosystem

**€151m** in 2021-2025 **VS** **€57.8m** in 2016-2020

## SCALING UP: DOING MORE WITH LESS



**2.6x MORE** paid to the ecosystem

**48% LESS** cost per million (€) Paid

# POWERED BY ITS PEOPLE... PROVEN BY RESULTS

## 4X OPERATIONAL IMPROVEMENT



Time-to-Evaluate: **3-4 months**



Time-to-Contract: **3 months Max**



Time-to-Audit & Pay: **60-70 days**



## TRUSTED RELIABLE PARTNER



- Timely Delivery of RRF & ESIF targets
- Evidence-based design & policy advice to Government
- Forged strong partnerships with international partners

*More! Better!*

# TABLE OF CONTENTS



Research



Knowledge Transfer  
& Collaboration



Innovation



Internationalization



Infrastructures



Trainings



Community Engagement



# RESEARCH



**Calls for Proposals**

**8**



**Total Contracts Budget**

**€26.8m**



# RESEARCH

## Life Sciences



**E.U.C. Research Centre Ltd**

**EXCELLENCE HUBS**

### Science-Based Strategies to Unlock Immunotherapy in Pancreatic Cancer

Immunotherapy is largely ineffective on Pancreatic ductal adenocarcinoma (PDAC). The project investigates a new approach that improves immunotherapy delivery and efficacy, offering new strategies to address a major unmet need in pancreatic cancer care.

**Partners:** Center for the Study of Haematological Malignancies, University of Cyprus

**Frederick Research Center**

**EXCELLENCE HUBS**

### Targeted Nanocarrier Systems for Enhanced Melanoma Therapy



Melanoma is an aggressive cancer with limited effective treatment options due to its metastatic nature and resistance to drugs. This project aims to improve melanoma therapy through advanced nanoparticle-based drug delivery systems that enhance targeting while minimizing side effects.

**Partners:** The Cyprus Foundation for Muscular Dystrophy Research, University of Cyprus



**Anabiosi-Data Ltd**

**POST-DOC**

### AI-Driven Imaging Biomarkers for Personalized Cancer Therapy Prediction

The project integrates machine learning with ultrasound systems to develop deep learning-based imaging biomarkers that help predict and monitor patient responses to chemotherapy and immunotherapy and improve cancer treatment decisions. It enables personalized and optimized cancer therapies.

**Partners:** Bank of Cyprus Oncology Centre, CYENS - CENTRE OF EXCELLENCE



# RESEARCH

## Life Sciences



**European University - Cyprus Ltd**

**EXCELLENCE HUBS**

### **Boosting Cancer Treatment with Tumor Normalization and Light Therapy**

This project explores combining drugs that normalize the tumor environment with photodynamic therapy (light-activated treatment) to make cancer therapy more effective. Using advanced imaging and mechanical analysis in mouse models, the team aims to improve drug delivery and treatment outcomes, paving the way for safer, clinically adoptable therapies.

**Partners:** Lumoscribe LTD, University of Cyprus

**Erevnitiko Idryma P. L.**

**EXCELLENCE HUBS**

### **Early Detection of Liver Cancer**



The project studies how fatty liver can lead to liver cancer, focusing on a molecule called histone H4 that helps the liver make fat. By tracking changes in this molecule and related enzymes, researchers aim to spot liver cancer early. This could lead to better tests and treatments for patients worldwide.

**Partners:** LINAC-PET SCAN OPCO LTD, University of Cyprus



**Simlead Ltd**

**PHD IN INDUSTRY**

### **Custom Auxetic Materials for Advanced Engineering**

The project develops 3D-printed auxetic materials that become thicker when stretched and thinner when compressed, giving them unique strength and flexibility. Using simulation and testing, researchers will create materials tailored for orthopedic devices and other engineering applications. This approach helps make lighter, stronger, and more reliable products.

**Partner:** Frederick University



# RESEARCH Engineering



**CYENS - CENTRE OF EXCELLENCE** **EXCELLENCE HUBS**

## Making AI Systems Fairer Through Human Insight

Algorithmic systems can unintentionally reinforce social biases tied to gender, race, and socio-economic background. This project uses human oversight to detect social stereotypes hidden in AI training data and outputs. By focusing on computer vision tools it aims to build fairer and safer AI, particularly for high-risk applications.

**Partner:** [Algolysis Ltd](#)

**The Cyprus Institute** **EXCELLENCE HUBS**

## Smart Surfaces for Faster and More Reliable Wireless Networks



This project tackles a key limitation of today's 5G networks: high-frequency signals struggle to work reliably on mobile devices due to signal loss. It explores how smart, reconfigurable surfaces can be used to control and redirect wireless signals, improving coverage and performance at higher frequencies. The goal is to make future mobile networks faster and more reliable by overcoming current technical barriers in signal propagation.



**University of Cyprus** **POST-DOC**

## Understanding the Building Blocks of Matter

This project uses advanced computer simulations to study the internal structure of protons and related particles that make up most of the visible universe. Its results will support major experiments on neutrinos, dark matter, and matter-antimatter imbalance, helping to test and improve our understanding of fundamental physics.



# RESEARCH

## Social & Humanities



**Cyprus University of Technology**

**EXCELLENCE HUBS**

### Rapid On-Farm Detection for Safer Dairy Supply Chains

The project develops a fast, reliable, and cost-effective system for detecting harmful milk contaminants directly at the farm level. By enabling laboratory-quality analysis in under 10 minutes, the technology helps prevent food safety risks, reduce waste, and limit economic losses across the dairy supply chain. Its outcomes support safer food production, stronger quality control, and greater sustainability in the agri-food sector.

**Partners:** CY.R.I.C CYPRUS RESEARCH AND INNOVATION CENTER LTD, Frederick Research Center

**Open University of Cyprus**

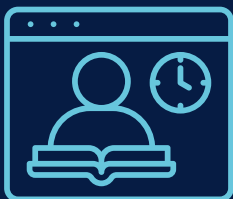
**EXCELLENCE HUBS**

### Fostering Critical Thinking and Reducing Prejudice in Education



This project develops innovative educational tools that promote dialogue, reflection, and critical thinking among young students. Through structured discussions on controversial social issues, it supports evidence-based reasoning, empathy, and openness to multiple perspectives and contributes to inclusive education practices that strengthen democratic values by addressing prejudice from an early age.

**Partners:** Center of Interdisciplinary Science Promotion and Innovative Research Exploration (InSPIRE), Ministry of Education, Culture, Sport and Youth



**G.M. POWERSOFT COMPUTER SOLUTIONS**

**PHD IN INDUSTRY**

### Democratising Business Intelligence for Dynamic Businesses

The project develops an AI-driven Business Intelligence platform that helps companies in fast-moving industries make better data-based decisions. By combining client data with real-time open data, it improves demand forecasting, customer segmentation, inventory and pricing strategies, and sentiment analysis. Using hybrid machine-learning methods designed for volatile, short-cycle markets, it delivers actionable insights across complex global supply chains.

**Partner:** Frederick University

# KNOWLEDGE TRANSFER & COLLABORATION



Total Contracts Budget

**€47.5m**

# CENTRAL KNOWLEDGE TRANSFER OFFICE (CKTO) + INNOVATION FACTORY



The Cyprus Knowledge Transfer Office (CKTO) started its operations in **March 2023** to support the effective transfer of research results into marketable innovations and strengthen collaboration between research organisations and industry.

The CKTO services include:

**IP Ownership Assessment**

**Patent Landscaping**

**IP Protection Strategy**

**Commercial Opportunity Assessment**

**Technology Marketing**

**Support in Deal Making**

## CKTO Services at a Glance



Since its launch, the Cyprus Knowledge Transfer Office (CKTO) has supported the national innovation ecosystem by providing specialized intellectual property and technology transfer services to **31** enterprises and **9** research organizations.

To date, **104** CKTO services have been completed, contributing to **10** patent filings and strengthening the pathway from research to market.

## Innovation Factory Training



# 172

**professionals** have received  
specialised training

# CENTRAL KNOWLEDGE TRANSFER OFFICE (CKTO) + INNOVATION FACTORY



## Local Knowledge Transfer Offices (KTOs)

# 12

Research organizations have been approved as local Knowledge Transfer Offices (KTOs), reinforcing institutional capacity for knowledge transfer and research commercialization across Cyprus.



## CKTO Services List of Beneficiaries

- EUNDO Ltd
- University of Cyprus
- EMBIO Diagnostics
- Dcentric Health Ltd
- Cyprus University of Technology
- Frederick Research Center (FRC)
- Frederick University
- European University
- ERATOSTHENIS CENTRE OF EXCELLENCE
- CARDET Ltd
- Periopsis
- Hyperion Systems Engineering Ltd
- E.U.C. Research Center Ltd
- Istognosis LTD
- Advanced Materials Design and Manufacturing Ltd
- The Cyprus Institute
- EFEVRE TECH LTD
- 3AE HEALTH LTD
- InSPIRE
- CMMI
- InoMob LTD
- Hystore Tech Limited
- VET EX MACHINA LTD
- EFEVRE TECH LTD
- CYENS
- Blendapp Software Ltd
- PODISENSE Ltd
- Evaporativa Technologies Ltd
- DW Dynamic Works Ltd
- Rinnoco Ltd
- Intellar InnovativeSolutions LTD
- Metaforge Labs LTD
- Charakis Research & Consulting Ltd
- ALGOLYSIS LTD
- Suite5 Data Intelligence SolutionsLimited
- LINAC-PET SCAN OPCO LTD
- CF CAPITAL FRESH
- Lumoscribe
- CY.R.I.C Cyprus Research and Innovation Center LTD
- PHOEBE
- Infocredit Group Ltd
- EnergyIntel Services Ltd
- NEEMALABS Ltd
- HYDRO-COMP. ENTERPRISES Ltd
- KYAMOS LTD
- Center for the Study of Haematological Malignancies
- The Cyprus Foundation for Muscular Dystrophy Research (The Cyprus Institute of Neurology and Genetics)



# KNOWLEDGE TRANSFER & COLLABORATION



**NovaMechanics Ltd**

**DUAL USE**

## **Intelligent Counter-UAV System for Critical Infrastructure Protection**

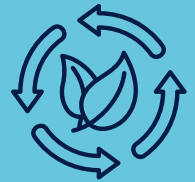
This project develops and demonstrates an intelligent system for the detection, localization, and neutralization of malicious commercial UAVs threatening critical infrastructure. By integrating distributed sensing technologies, including radar and signal intelligence, with active electronic countermeasures, the system enables coordinated, real-time protection of high-value assets.

**Partners:** FRACTAL NETWORKX LIMITED, Frederick Research Center, Open University of Cyprus, RF AND MICROWAVE SOLUTIONS LTD

**Elysee Irrigation Ltd**

**CO-DEVELOP**

## **Sustainable Polymer Materials from Biochar**



The project develops new, environmentally friendly high-performance polymer materials with improved strength and durability. By combining recycled and virgin plastics with sustainable fillers, the project supports greener manufacturing and better use of resources, promoting circular economy practices.

**Partners:** Agrotech Innovations Ltd, KTV GREEN ENTERPRISES LTD, The Cyprus Institute, University of Cyprus



**Algolysis Ltd**

**CO-DEVELOP**

## **AI-Driven Intelligence for Sustainable Poultry Farming**

Development of a next-generation, affordable farm intelligence platform that combines hardware and software powered by AI and machine learning. By analysing environmental conditions and farm management practices, the platform enables poultry farmers to optimise productivity, production quality, and animal welfare while also enabling public authorities to more effectively oversee and manage the sector, creating benefits for all stakeholders on the entire value chain.

**Partner:** CYENS - CENTRE OF EXCELLENCE



# KNOWLEDGE TRANSFER & COLLABORATION



ECORBIO LTD

CO-DEVELOP

## Sustainable Biochemicals for the Maritime Industry

The project creates new, eco-friendly materials to replace harmful chemicals used to build and maintain ships. By leveraging waste-based feedstocks, the project reduces reliance on petroleum and high-impact biomass, promoting greener, safer, and more sustainable maritime operations enabling the transition to a circular bioeconomy in the maritime sector.

**Partners:** CY.R.I.C CYPRUS RESEARCH AND INNOVATION CENTER LTD, Cyprus University of Technology, Frederick Research Center

The Cyprus Institute

CO-DEVELOP

## Advancing Concentrated Solar Thermal Energy



This project develops a “smart modular heliostat” to improve concentrated solar thermal (CST) technology, which uses mirrors to focus sunlight and generate heat and electricity. By increasing efficiency and lowering costs, it enables wider use of reliable, clean, and dispatchable solar energy.

**Partners:** Nicolaides & Kountouris Metal Company Ltd, Novatex Solutions Ltd



InoMob LTD

CO-DEVELOP

## Clean Floating Power for Zero-Emission Shipping

This project will create a floating power station that runs on environmentally friendly fuel made from animal waste. This barge will provide clean electricity to ships while docked or anchored, reducing pollution and helping the maritime industry become greener and more sustainable.

**Partners:** CMMI CYPRUS MARINE AND MARITIME INSTITUTE, Cyprus University of Technology, PetroNav Ship Management LIMITED



# KNOWLEDGE TRANSFER & COLLABORATION



University of Cyprus

CO-DEVELOP

## Biodegradable Nursery Bags for Sustainable Seedling Growth

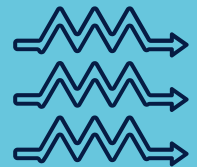
This project develops biodegradable plant nursery bags enriched with growth promoters. These bags reduce plastic waste and support healthier seedling growth, combining environmental protection with improved agricultural practices.

**Partners:** AMDM – Advanced Materials Design & Manufacturing Limited, Cyprus University of Technology, Elysee Irrigation Ltd

UBITECH LIMITED

CO-DEVELOP

## Holographic Ising Machines for Solving Complex Problems



This project develops and improves a special computer system that uses holography to solve very complex problems that regular computers struggle with. The system will also be accessible via the cloud, allowing companies and researchers to use it to find fast and smart solutions for large-scale challenges.

**Partner:** University of Cyprus



AMDM

CO-DEVELOP

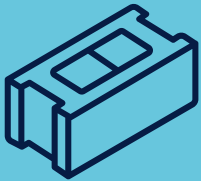
## Circular Biochar Solutions for Agriculture and Air Quality

This project develops practical solutions for more sustainable farming. It turns municipal woody waste into activated biochar for agricultural use, controls odorous gases from manure, and improves soil and air monitoring with smart systems. The project brings together a research company, two universities, and the Idalion Municipality to implement these solutions.

**Partner:** The Cyprus Institute



# KNOWLEDGE TRANSFER & COLLABORATION



**DOMIKA YLIKA LEDRA LTD** Research in Enterprises

## Sustainable Green Concrete Blocks

The project develops eco-friendly concrete blocks by reusing industrial by-products like cement dust, fly ash, and silica fume. These green blocks reduce raw material use, lower CO2 emissions, and promote a circular economy in construction. The blocks will be tested and produced at industrial scale, offering a sustainable alternative to conventional building materials.

**Partner:** University of Cyprus

**KEAN SOFT DRINKS LIMITED** Research in Enterprises

## Citrus Waste to Valuable Products



The project transforms citrus industry waste into useful products like essential oils, pectin, bioactive compounds, and biomaterials using innovative biotechnologies. It creates a near zero-waste process that reduces environmental impact, adds value for producers, and can be applied to other agro-industries. The goal is to produce high-quality products at pilot scale and develop a sustainable, commercially viable plan.

**Partner:** Cyprus University of Technology



**LINAC-PET SCAN OPCO LTD** Research in Enterprises

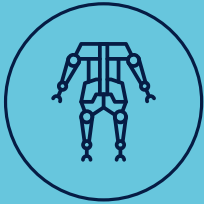
## MRI-Guided Robotic Ultrasound for Cancer

The project develops a robotic system using MRI-guided focused ultrasound to treat brain cancer non-invasively, with no side effects. The system is fast, portable to standard MRI machines, and may eventually treat other cancers like liver, thyroid, and breast. With further funding, the prototype will be converted into a commercial product for hospitals worldwide.

**Partner:** Cyprus University of Technology



# KNOWLEDGE TRANSFER & COLLABORATION



**IREROBOT LTD**

**PROOF OF CONCEPT**

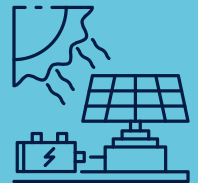
## **Next-Generation Industrial Exoskeletons for Safer and Easier Work**

This project focuses on developing industrial exoskeletons that help workers move more easily, reduce fatigue, and prevent injuries. Current devices face challenges like heavy weight and poor joint alignment, so the goal is to create lighter, more practical, and effective exoskeletons for real-world use.

**EnergyIntel Services Ltd**

**PROOF OF CONCEPT**

## **Smart Energy Storage and Power for Industry**



This project develops a smart energy system that stores excess solar power and uses it to provide electricity and heat when needed. It helps stabilize the grid, reduces energy waste, and ensures reliable power for industrial use.



**Vlasides Winery Ltd**

**PROOF OF CONCEPT**

## **Optimizing Quality and Character of Cypriot Yiannoudi Wine**

This study investigates how vineyard conditions, vintage, and cork type affect the chemical composition and quality of wines made from the unique Cypriot grape 'Yiannoudi'. By analyzing key compounds like phenolics, flavonoids, sugars, and acidity, the project aims to help winemakers optimize their techniques to highlight the grape's distinctive character.



# INNOVATION



**Calls for Proposals**

**14**



**Total Contracts Budget**

**€31m**



# INNOVATION



**NIPD GENETICS BIOTECH LIMITED**

**INNOVATE**

**Liquid Biopsy for Early Cancer Relapse Detection**

This project develops a non-invasive blood test that can detect tiny amounts of remaining cancer cells after treatment. By identifying cancer DNA circulating in the blood at a very early stage, the test can warn doctors of a possible relapse before it becomes visible in scans. This will help doctors decide sooner which patients need additional treatment and improve survival and quality of life.

**Sk EMBIO Diagnostics Ltd**

**DISRUPT**

**Smart Air Quality for Sustainable Buildings**



This project upgrades an existing air quality platform to make buildings smarter and healthier. It will connect air sensors with building energy systems, automatically adjust sensor accuracy, and detect harmful air events in real time. This will help schools, offices, and hospitals improve indoor air quality, save energy, and protect occupants' health.



**Odyssey Consultants Ltd**

**DISRUPT**

**Advanced DNS Cyber Protection**

The project delivers a new cloud-based security solution that detects and blocks cyber threats by monitoring internet traffic in real time. By integrating it into an existing cybersecurity platform, it offers businesses faster, smarter, and more complete protection against online attacks.



# INNOVATION



**Nodes & Links Labs LTD** **SEED**

## Redefining Project Management in Construction

This project delivers a smart digital platform that helps large construction projects stay on time and on budget by managing complexity more effectively. Developed by Nodes & Links Labs with the University of Cyprus, it targets fast global growth and strong market adoption.

**Partner:** University of Cyprus

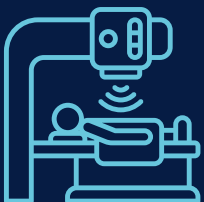
**Mirror3D Lab Ltd** **SEED**

## Revolutionizing Cycling Performance



SmartCyclo is a smart training platform that helps cyclists improve performance by monitoring and correcting their riding posture in real time using wearable sensors and intelligent algorithms. Combined with a mobile app and coach access, it offers data-driven training for athletes through a subscription-based digital service.

**Partner:** CYENS - CENTRE OF EXCELLENCE



**RSL Revolutionary Labs LTD** **SEED**

## Innovative Skincare Solutions for Cancer Patients

Cancer treatments often cause serious skin problems that affect patients' comfort and treatment success. This project develops advanced medical-grade collagen skincare products to protect, heal and improve the quality of life of cancer patients worldwide.

**Partners:** Cyprus University of Technology, LINAC-PET SCAN OPCO LTD, Promed Bioscience Ltd, Theramir Ltd



# INNOVATION



**Wire Services Ltd** **BOOST**

**Smarter, Transparent Real Estate Markets in SEE/CEE**

Ask Wire is a digital platform that makes property data in Cyprus, Greece, and Romania easy to access and understand. Using AI and reliable data, it helps buyers, banks, insurers, and authorities make better decisions, plan smarter, and create more transparent and sustainable real estate markets.

**ENGINO - NET LIMITED** **INNOVATE**

**Expandable Educational Robot for Future STEM Skills**



This project develops a new expandable educational robot that helps primary and secondary students learn coding and STEM in a simple and engaging way. It adapts to different ages, skills and school curricula, offering an affordable and flexible solution for modern classrooms worldwide.

**Partner:** University of Cyprus



**Columbia Shipmanagement Ltd** **INNOVATE**

**Smarter Shipping for Safer, Greener, and More Efficient Voyages**

This service helps shipping companies reduce fuel costs, emissions, and maintenance expenses while improving crew and passenger safety. By combining real-time data, AI-powered analysis, and expert input, it optimizes vessel performance across all stages of a voyage and brings Columbia Shipmanagement's proven solution to the global market.

**Partners:** Blue Dynamics Ltd, CMMI CYPRUS MARINE AND MARITIME INSTITUTE



# INNOVATION



**Medochemie**

**INNOVATE**

## **Innovative Rifaximin Nanoparticle Therapy for Inflammatory Bowel Disease**

This project aims to develop and bring to market a new Rifaximin 400mg medicine in nanoparticle form for treating inflammatory bowel diseases like Crohn's and ulcerative colitis. The innovative formulation ensures the drug reaches the colon more effectively, and the product will be produced and tested in collaboration between Medochemie and Biogen.

**Partner:** Biogen API Ltd

**Geofem Limited**

**INNOVATE**

## **Smart Platform for Multi-Geohazard Assessment**



The project will create an innovative platform to assess multiple geohazards—like landslides, sinkholes, coastal erosion, and landfills—using a single scoring system. By combining satellite data, geotechnical studies, and advanced computing, the platform will help users make informed decisions.



**RADIACODE LTD**

**DISRUPT**

## **Next-Generation Radiation Detection**

Radiacode develops innovative, portable radiation detectors for both consumers and professionals. Consumer devices focus on safety and education, while professional tools offer fast detection, isotope identification, and advanced data analysis, setting new standards in radiation safety technology.

# INNOVATION



**SOULA**

**DISRUPT**

**AI Support for Modern Maternity Care**

Soula is an innovative digital maternity care solution that uses artificial intelligence to provide personalised support to women during pregnancy and motherhood. With more than 40,000 users already on iOS and Android, the platform has shown strong market traction, combining smart features such as mental health tracking and guided support tools to improve the maternity care experience.

**DW Dynamic Works Ltd**

**DISRUPT**

**Advancing FinTech with Smarter and Safer CRM Solutions**



Dynamic Works is enhancing its award-winning Syntellicore CRM into a next-generation FinTech solution for the global financial sector. Through advanced security features, AI-powered behavioural analysis and a unified KYC platform, the project strengthens compliance, improves customer onboarding and supports safer, more efficient financial services.



**MALLOC**

**PRE-SEED**

**AI-Powered Protection for Personal Data**

This project aims to develop and commercialize an innovative AI-powered cybersecurity solution for smart devices that detects and prevents unauthorized or unattended data transmissions. The technology will help users better protect their personal data, giving them greater control over how their information is recorded, shared, and used.



# INTERNATIONALIZATION + HORIZON EUROPE



Total Contracts Budget

**€20.8m**

# INTERNATIONALIZATION

Research



**University of Cyprus**

**BILATERAL**

**Cyprus RIF - Israel MOST**

## **Early Detection of Colon Cancer Through Microbiome and Data Science**

This project studies samples from Cypriot people who have undergone routine colonoscopy, in order to better understand how gut bacteria and human cells are linked to colon cancer risk. Participants are grouped as cancer-prone, possibly healthy, or healthy.

Using advanced DNA analysis and artificial intelligence, the project compares Cypriot data with large international databases to identify patterns that can help predict cancer risk earlier and more accurately.

**Partner:** Weizmann Institute of Science - Israel

**Cyprus University of Technology**

**CONCERT-JAPAN**

## **Enabling International Cooperation in Digital Agriculture**



This project helps researchers and startups in digital agriculture test and promote their technologies in different countries. Universities and research institutes from Europe and Japan will exchange experts and support real-life demonstrations of digital farming solutions.

By sharing knowledge, training innovators, and testing technologies across borders, the project strengthens cooperation between Europe and Japan and helps modern digital tools reach farmers more easily.

**Partners:** Okinawa Institute of Science and Technology - Japan, Tecnova Technology Centre - Spain

# INTERNATIONALIZATION

Innovation



**INTERSHIP NAVIGATION COMPANY**

**EUROSTARS**

## **Onboard Carbon Capture for Maritime Decarbonisation**

This project develops a system that captures carbon dioxide from ship exhaust and turns it into limestone instead of releasing it into the air.

It will be tested on a real cargo ship to show that vessels can reduce up to 95% of their emissions.

The project supports cleaner shipping and helps companies meet future environmental regulations.

**Partner:** CMMI CYPRUS MARINE AND MARITIME INSTITUTE

**Stremble Ventures LTD**

**BRIDGE2HORIZON**

## **Smart Technology for Early Detection of Crop Diseases**



The project will deliver a working prototype that combines technologies into one automated detection system, while two Cypriot companies collaborate to further advance the innovation and prepare for future international partnerships.

**Partner:** AMP Scientific Ltd.



**E.U.C. Research Centre Ltd**

**VISION ERC**

## **MechanoOptical Biomarkers for Early Detection of Non-Communicable Diseases**

This project develops new ways to detect and monitor diseases like cancer and lung fibrosis by measuring the physical and mechanical properties of tissues and cells. Using advanced imaging techniques, it aims to identify unique “mechanical fingerprints” of diseased tissue for earlier and more accurate diagnosis. The goal is to support personalised medicine and improve how non-communicable diseases are diagnosed and treated.

# INTERNATIONALIZATION

There is more on the Horizon

## HORIZON EUROPE

€351.8m

NET EU Contribution



246

Unique Participants

University of Cyprus

Targeting Mechanoresistance to Improve Pancreatic Cancer Therapy



This project studies why pancreatic cancer cells become resistant to chemotherapy because of physical pressure inside tumors.

By understanding how this resistance works, the project aims to find new ways to make cancer treatments more effective, alone or combined with immunotherapy.

The goal is to improve treatment results for patients with one of the most difficult types of cancer.



# INTERNATIONALIZATION

There is more on the Horizon

## NOTABLE SUCCESSES

### **ERC Synergy Grant**

CYPRUS CANCER RESEARCH INSTITUTE

Personalized molecular reprogramming of the tumor immune microenvironment and engineered adoptive cell transfer in synergy with ion-beam radiotherapy for next-generation curative cancer treatments  
Nanoscale Engineering with Tiny nanoparticles

### **EIC Pathfinder**

THE CYPRUS INSTITUTE

PhotoniX: PHOTOconversion for Novel Integrated X-systems

### **MSCA Doctoral Network**

University of Cyprus

Young researcher network for security and resilience of critical cyber-physical systems

### **ERC Proof of Concept**

University of Cyprus

Quantum Annealing for Fluid Antenna MIMO Systems

# INFRASTRUCTURES



Space

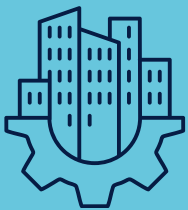
Shipping

Health

Environment

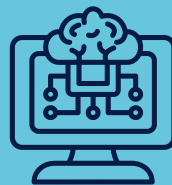
Agrotechnology

5



Strategic  
Infrastructures

10



Small Scale  
Infrastructures

17



Open Access  
Infrastructures

€25m



Total RIF Investment

+ 140



High-Skilled Jobs

# INFRASTRUCTURES

STRATEGIC



## Cyprus Space Exploration Organisation (CSEO)

### Building Cyprus as a Regional Space-Tech Hub

Space weather (solar storms) can seriously damage power grids, airplanes and satellites, and could cost the global economy over \$1 trillion if we are not prepared. This project will create the Cyprus Space Research and Innovation Centre (C-SpaRC), a new facility for building and testing small satellites and monitoring space weather. It will support research, innovation and open access for scientists and companies, helping Cyprus create high-tech jobs, attract experts, and become a regional hub for space technology.

**Partners:** CMMI CYPRUS MARINE AND MARITIME INSTITUTE, ARETAEIO IATRIKO KENTRO LTD., CYENS - CENTRE OF EXCELLENCE, The Cyprus Institute of Neurology and Genetics, Space Systems Solutions (S3) Ltd, University of Cyprus

## CMMI CYPRUS MARINE AND MARITIME INSTITUTE

### Advancing Maritime Digitalization and Smart Shipping



This project will create a new research and innovation center focused on digital technologies for shipping and marine transport. Its goal is to improve safety, efficiency, and environmental performance in maritime operations. The center will provide laboratories, equipment and expertise to develop and test technologies such as smart sensors, artificial intelligence, and digital platforms for ships and ports. It will support researchers and companies in creating practical solutions and aims to become a leading hub for maritime digital innovation.

**Partners:** A.T. Delevant Business Solutions Ltd, Columbia Shipmanagement Ltd, Cyprus Ports Authority, CYPRUS SHIPPING ASSOCIATION, Cyprus University of Technology, Electi Consulting Ltd, M.M. MAKRONISOS MARINA LTD, Marinefields Holdings Limited



## LINAC-PET SCAN OPCO LTD

### Driving Innovation in Personalized Healthcare

Agora 3.0 is a healthcare innovation hub that brings together researchers, doctors, and engineers to safely share data and use advanced medical tools. It helps develop and test new digital solutions, like AI-based imaging and patient apps, to improve personalized care and treatment outcomes.

**Partners:** ClinBAY Ltd, Cyprus University of Technology, Dcentric Health Ltd, European University - Cyprus Ltd The Cyprus Institute, University of Cyprus

# INFRASTRUCTURES

STRATEGIC



## Frederick Research Center

### Enhancing Meteorological Capabilities in Cyprus

This project will create a new meteorology hub in Cyprus, CyMETEO, to improve weather monitoring and short-term forecasts. Using advanced sensors, radar, and satellite data, it will better predict severe storms and support scientific research and international collaborations in the region.

**Partners:** CLOUDWATER LTD, Ministry of Agriculture, Rural Development and Environment, Nicosia Development Agency

## University of Cyprus

### Advancing Sustainable Agriculture Through Plant Phenotyping



PHENOTYPOS establishes a state-of-the-art plant phenotyping center in Cyprus, enabling precise evaluation of crop traits under diverse environmental conditions. By supporting stress-adapted cultivar development, accelerating plant research, and fostering smart agricultural technologies, the project enhances local food security, promotes sustainable agriculture, and strengthens resilience against climate change impacts in the Eastern Mediterranean.

**Partners:** Ministry of Agriculture, Rural Development and Environment, Frederick Research Center, Cyprus University of Technology, ATLANTIS Perivallon kai Kainotomia LIMITED, Alion Vegetables & Fruits Co Ltd, CY.R.I.C CYPRUS RESEARCH AND INNOVATION CENTER LTD

# INFRASTRUCTURES

OPEN ACCESS



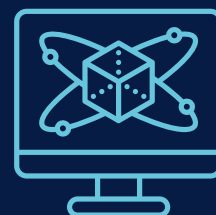
**CMMI CYPRUS MARINE AND MARITIME INSTITUTE**

## **Advanced Microplastic Detection for a Cleaner Marine Environment**

This project will set up a cutting-edge system in Cyprus to detect and study microplastics in the sea and coastal environments. It will support researchers, industry, and authorities in tracking pollution, improving marine protection, and guiding sustainable policies in the Eastern Mediterranean.

**University of Cyprus**

## **Spatial Proteomics Platform for Precision Medicine and Cancer Research**



The project will create a state-of-the-art spatial proteomics platform at the University of Cyprus, enabling detailed analysis of proteins in tissue samples. This will support cancer and biomedical research, help develop personalized treatments, and foster collaboration between researchers, clinicians, and bioinformaticians.



**Cyprus University of Technology**

## **New Research Infrastructure for Advanced Magnetic Materials**

With this new infrastructure, researchers, students, and industry partners will be able to test and develop innovative materials used in technologies such as electronics, energy systems, and nanotechnology, strengthening research capacity and collaboration in Cyprus.

**E.U.C. Research Centre Ltd**

## **Advanced Centre for Drug Research and Medical Imaging**



Using advanced imaging and laboratory technologies, researchers can analyse how potential drugs bind to specific targets in the body. This helps accelerate the early stages of drug development and supports both academic research and collaboration with industry, strengthening biomedical research and innovation in Cyprus.

# INFRASTRUCTURES

SMALL SCALE



## Cyprus University of Technology

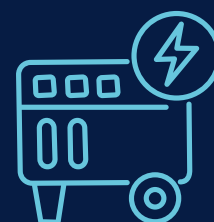
### Next-Generation Electron Microscopy Hub for Advanced Materials Research

The University of Cyprus will host a cutting-edge electron microscope for ultra-high-resolution imaging and chemical analysis of materials. Open to researchers and industry, it will become a key hub for advanced materials research, supporting innovation, collaboration, and new scientific discoveries in Cyprus.

**Partners:** Ministry of Transport, Communications and Works, Infralabs Ltd, University of Cyprus

## The Cyprus Foundation for Muscular Dystrophy Research (CING)

### Advanced Electrophysiology Hub for Neuroscience and Therapeutic Research



The Experimental Electrophysiology Unit (EEU) at the University of Cyprus will provide advanced tools to study brain and nerve function in pre-clinical models. Open to researchers and industry, it will accelerate the development of new therapies for neurological disorders and foster innovative collaborations.

**Partners:** Cyprus University of Technology, Erevnitiko Idryma P. L., CYENS - CENTRE OF EXCELLENCE, Sk EMBIO Diagnostics Ltd



## University of Cyprus

### Mapping Ground Movements with Drone Technology

This project will introduce advanced drone technology to monitor and map ground movements across Cyprus. Using high-precision sensors, researchers will be able to detect changes in the ground caused by landslides, soil movement, construction works, or changes in water levels.

**Partners:** Ministry of Agriculture, Rural Development and Environment, GEOIMAGING LTD, N. A. MAMAS & ASSOCIATES ENGINEERING FIRM LTD

# TRAININGS & CAPACITY BUILDING



**RIF targeted trainings  
strengthen skills and  
innovation capacity**



**349 students**

supported through the

**R&I Internships programme**

Training delivered to

**18 companies**

in **New Product Development**



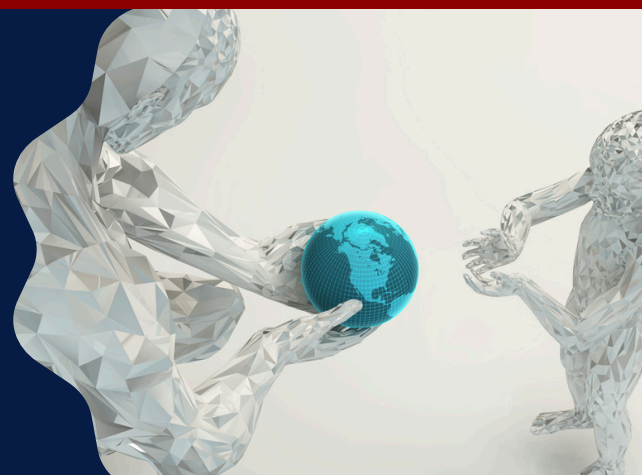
**5**

**Innovation Support Structures Funded**



**104**

**CKTO Services Completed**





# COMMUNITY ENGAGEMENT



General Public Engaged  
through targeted events

**61 349**



School Students Engaged  
through student competitions &  
the European Researchers' Night

**17 869**

# COMMUNITY ENGAGEMENT

## GROWING PARTICIPATION IN INTERNATIONAL EVENTS

RIF leads national delegations of startups and scale-ups.



## STRONG PRESENCE IN NATIONAL EVENTS

Attracting thousands of founders, investors, researchers, and students.



## “THE BASH” RIF’S FLAGSHIP NETWORKING EVENT

Demonstrating rapid growth in participation and strengthening connections across the innovation ecosystem.



# COMMUNITY ENGAGEMENT

## EUROPEAN RESEARCHERS NIGHT

Engaging the public, showcasing the ecosystem, welcoming 6,000 visitors annually.



## CELEBRATING EXCELLENCE Through the nation's most prestigious R&I Awards.

- 15** Young Researcher
- 6** Distinguished Researcher
- 3** Newly Introduced Commercial Exploitation



## PARTNER DAY

Brought together government stakeholders, entrepreneurs and researchers, laying the foundations for new collaborations between the research and business communities to accelerate the commercialization of research and innovation in Cyprus.



# COMMUNITY ENGAGEMENT



# COMMUNITY ENGAGEMENT



# COMMUNITY ENGAGEMENT



# COMMUNITY ENGAGEMENT



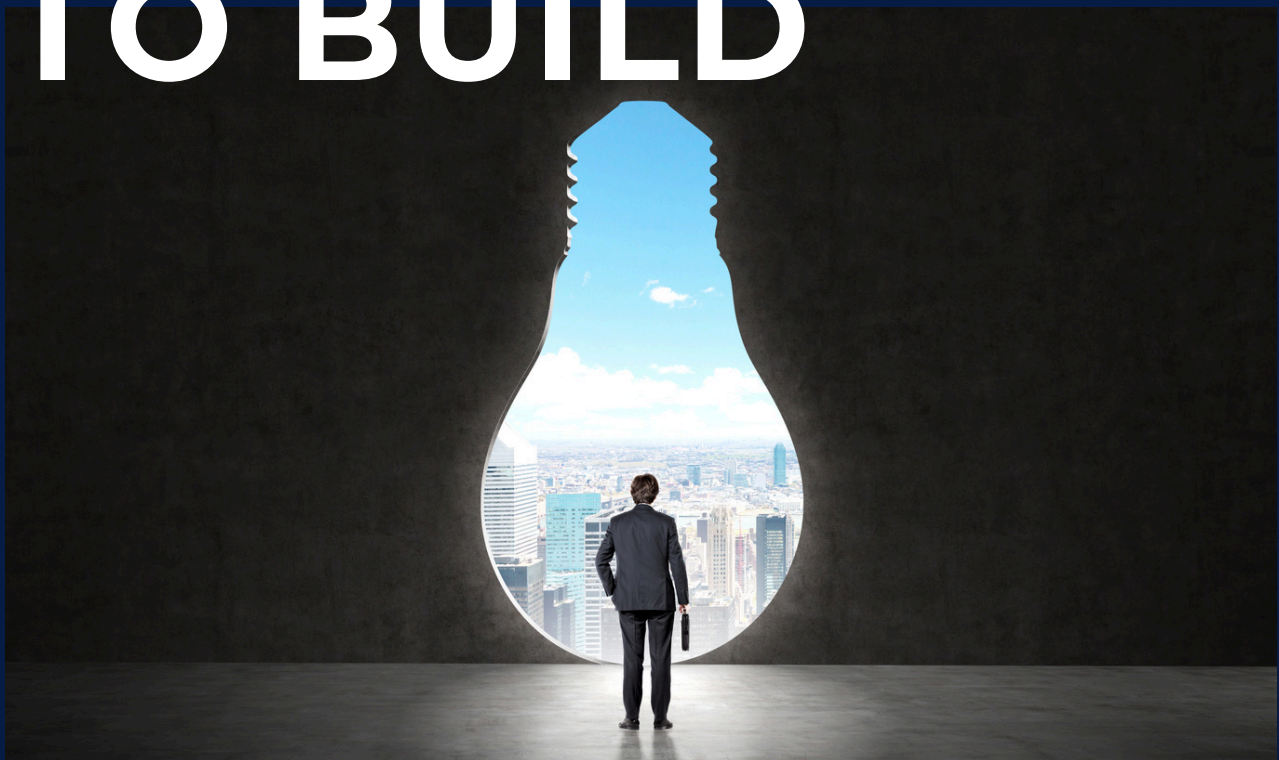
A large, busy networking event. People are gathered around tables, some holding drinks. The atmosphere is lively and professional. In the background, there are banners and a sign that says "The BAS".





RESEARCH  
& INNOVATION  
FOUNDATION

# THE FUTURE *is Ours* TO BUILD



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