



ERATOSTHENES:

Excellence Research Centre for Earth Surveillance
& Space-Based Monitoring of the Environment

The National Research and Innovation Strategy and EXCELSIOR

@excelsior2020eu



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The EXCELSIOR project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 857510.



The EXCELSIOR project has received funding from the Government of the Republic of Cyprus through the Directorate General for the European Programmes, Coordination and Development.

CONSORTIUM





More information

<https://chiefscientist.gov.cy/cyprus-research-innovation-strategy-framework-2019-2023-innovate-cyprus/>²



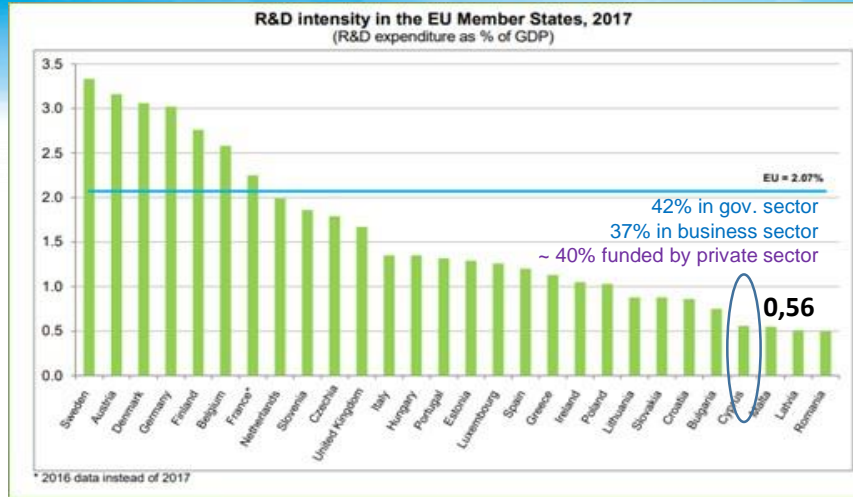
NATIONAL R&I STRATEGY

Adoption and implementation of a national strategy for technological, social and economic development of Cyprus, based on research and innovative entrepreneurship.

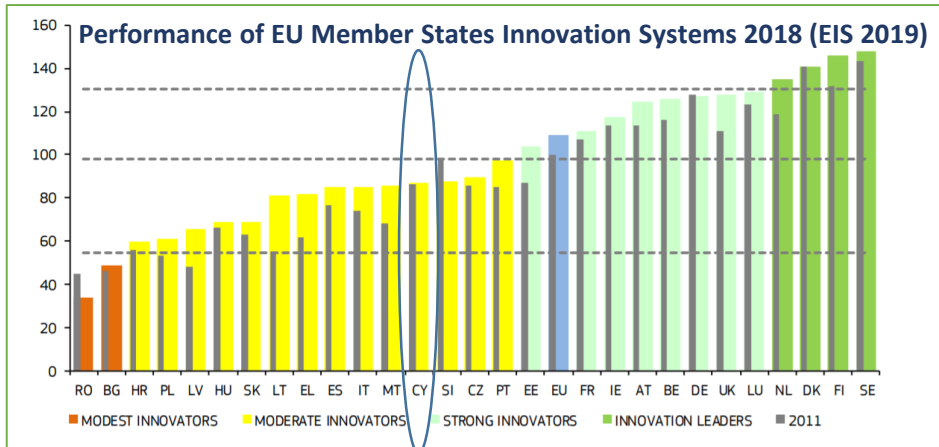
- **Ambitious targets** / National target for R&D investment (1,5% GDP by 2023, 50% from private sector)
- Establishment of a data-based policymaking framework on R&I
- Definition of Strategy for Smart Specialization of R&I Investments

R&I Performance – Setting Ambitious Targets

TARGET: 1,5% of GDP by 2023
50% funded by private sector
(~€400 Mil.)



Source: Eurostat



Source: European Innovation Scoreboard 2019, European Commission, Internal Market, Industry, Entrepreneurship and SMEs

TARGET:
Cyprus in the group of
“STRONG
INNOVATORS”



PILLARS OF NATIONAL R&I STRATEGY

- Research Excellence
- Knowledge Transfer and Commercial Exploitation
- Innovative Entrepreneurship
- Cultural Change
- International Dimension
- Communication
- Digital Transformation

Cyprus National Policy on Research and Innovation and the TEAMING Projects

What is expected from the TEAMING Projects and EXCELSIOR

- TEAMING projects will be a significant factor in the formation of the R&I landscape 2019-2023 based on the National strategy
- EXCELSIOR is expected to support the outlined measures especially:
 - Research Excellence
 - Knowledge Transfer and Commercial Exploitation
 - Innovative Entrepreneurship
 - International Dimension
 - R&D investment 1,5% of GDP by 2023 with 50% from private sector

Application areas

1. Energy
2. Environment
3. Water resources mgt.
4. Marine Safety & Security
5. Land applications
6. Agriculture
7. Geo-informatics
8. Archaeology

FINANCIAL SELF SUSTAINABILITY of the ECoE in 7 YRS BY DIVERSIFICATION IN 3 PILLARS

Funded Research and
Development Programs
(worldwide)

Income from services to
the Public and Private
Sector (worldwide)

Income from spinoffs
and IPR development

Attorney for drafting
and negotiating contracts

EXCELSIOR features:

1) Unique infrastructure



2) Unique Knowhow and expertise of the International Team in Earth Surveillance and Space Based monitoring of the Environment ERATOSTHENES, DLR, NOAA, TROPOS, DEC-MTCW, External Advisory Board

3) Excellent potential for Innovation (Services and Exploitation of: infrastructure - research results)

What is expected from the TEAMING Projects and EXCELSIOR

Research Excellence:

- 1) Hire high quality researchers and engineers
- 2) Collaborate with other academic and research institutions in Cyprus and the EU
- 3) Produce high IF publications and organize and participate in prestigious int. conferences

Knowledge Transfer and Commercial Exploitation:

- 1) Promote the utilization of the R&I facilities of the ECoE to businesses and the public sector
- 2) Promote the exploitation of the research results of the ECoE
- 3) Collaborate with enterprises/industry in R&D activities
- 4) Participate in mobility of researchers between research centers and enterprises
- 5) Provide high quality services to the industry and private sector

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What is expected from the TEAMING Projects and EXCELSIOR

Innovative Entrepreneurship:

- 1) Promote entrepreneurial innovation in the ECoE
- 2) Develop IPR based on the infrastructure and knowhow of the ECoE in the different application areas
- 3) Promote the creation of spin-off / spinout companies to exploit research results
- 4) Take advantage of Incentives for accelerators and incubators provided by the State

International Dimension:

- 1) Collaborate with foreign high-tech companies
- 2) Seek funding for programs supporting extroversion and international collaboration in R&I
- 3) Promote mobility of researchers between the consortium partners and other EU centers and enterprises

Digital Transformation:

- 1) Establish a Digital Innovation HUB in Earth Observation Technology and Space Based Monitoring

20% Industry & exploitation of services

- Services to the industry using alliances with key partners (CYTA, Cyric, Gravity, SignalGenerix)
- Leasing infrastructure to 3rd parties
- Licensing of IP
- Entrepreneurship (spin-offs - royalties)
- Consulting and digital services start-ups



30 % EC projects

- (1) H2020, H2030 (FP10), (2) MED: territorial cohesion and environmental protection, sustainable development. (3) LIFE+ (4) ECHO: Humanitarian Aid & Civil Protection (5) INTERREG EUROPE (6) PRIMA CALLS: from 2018 to 2028



20 % EMMENA projects

- Projects with EMMENA countries through local government and EC&IFIs funding (e.g. ENI, Euro-Mediterranean cooperation, IFIs rehabilitation activities and development projects)
- Privileged access to untapped market opportunities in EMMENA due to: Cyprus location, access to EMMENA EO network and action plans through GEO-CRADLE's market analysis in areas: Food, Energy, Climate Change, Access to Raw materials;



15 % National Projects

- Cyprus Research Promotion Foundation, Structural Funds, Ministry of Commerce, Public/Private sector in support to National Smart Specialisation Strategy in Cyprus

15 % ESA, GEO, Copernicus

- ESA: By 2022, Cyprus will become a full ESA member state, exploiting ESA funds.
- Copernicus cross-cutting & cross sector services (e.g. agriculture, energy)
- GEO, GEOSS and EUROGEOSS opportunities, UN SDGs & Sendai Framework actions



BASED ON THE BUSINESS PLAN WE HAVE A CLEAR IMPLEMENTATION STRATEGY HOW ECoE WILL BE SELF SUSTAINABLE IN 7 YEARS

- Detailed itemization of the previous slide with specific grants, service contracts and other sources of income
- Networking Team to promote the Center and search for customers.
- Members of the Executive Board (former ministers former commissioners as well partners and other EU contacts) identify possible stakeholders/customers in Cyprus, the EU but also EMMENA countries
- Approach strategy and chronology of actions for signing of MOUs, obtain commitments and sign contracts for services:
 - Ministries
 - Government Institutes/organizations/other entities
 - Private organizations/companies
 - Funding agencies(Cyprus, Greece, EU and EMMENA countries)

THANK YOU



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