



NATIONAL INSTITUTE OF CHEMISTRY

75<sup>years</sup>

**A scientifically excellent, established and breakthrough  
research institution based in Slovenia**

**Prof. dr. Gregor Anderluh, director**



HEALTH, ENVIRONMENTAL PROTECTION, CIRCULAR ECONOMY, SUSTAINABLE ENERGY, CLIMATE CHANGE, FOOD SAFETY

# NATIONAL INSTITUTE OF CHEMISTRY AT A GLANCE

With excellent research...

erc

Biotechnology

Life sciences research

Analytical chemistry

Nanotechnology

Food chemistry



Energetics

Theoretical and structural chemistry

Chemical engineering

Materials research

Highly qualified people

Health

Environmental protection

Societal challenges

Food safety

Circular economy






Climate change

Sustainable energy


...we create new knowledge and help solving societal challenges.



## International projects

Grant	Grant	Number of projects
 European Research Council	ERC	6
	Horizon 2020	45
	Horizon Europe	8
	Interreg	5
	M Era Net	6

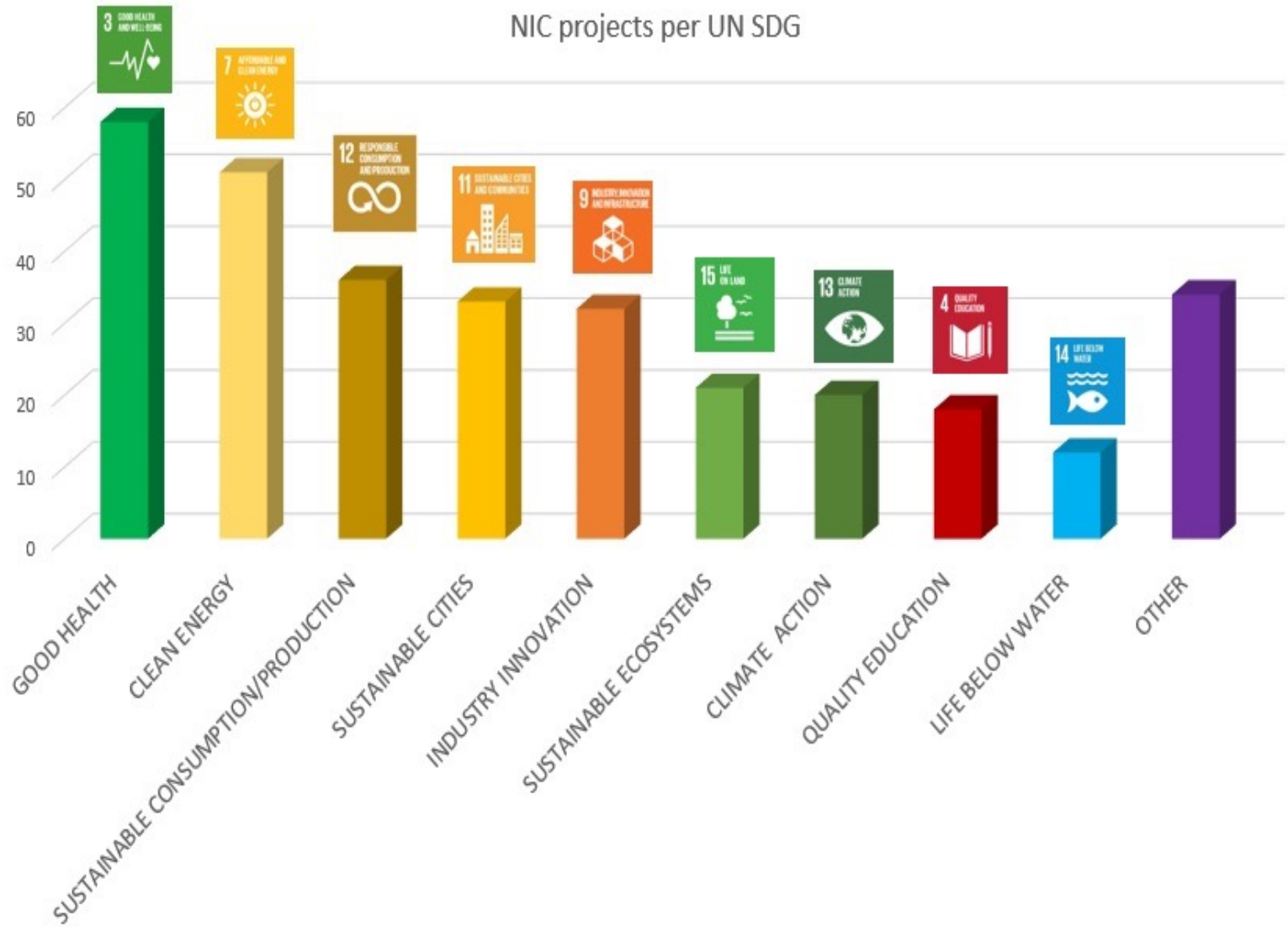
## National projects

	Basic and applicative projects	151
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<https://www.ki.si/o-institutu/projektna-pisarna/tekoci-projekti/>

# SUMMARY OF CURRENT INTERNATIONAL PROJECTS per UN SUSTAINABLE DEVELOPMENT GOALS



# Widening measures - Teaming

- Possibility to run really big infrastructure project ( 30 mio EUR)
- Opportunity to team up with excellent institution abroad
- Possibility to deliver excellent research and innovation results
- Impact on scientific society and society as a whole



# Drawbacks of the Teaming call

- Establishment of new CoE or upgrading existing one -> established institutions need reforms, why creating a new center is obligatory?
- High competition, it looks like in favour of areas where knowledge gap between partners is big -> excellent science?



# Benefits of Teaming proposal development

- Links between partners established
- Very detailed documentation in Phase 2 requires thoughtful thinking of each detail of implementation
- Huge impact on the region where Teaming is implemented



# Other measures of Widening

- ERA Chair – development of selected research field with the expertise of ERA Chair
- Discrepancy in request between managerial and research excellence -> we would require good operational research manager, this is not the valid wish for ERA Chair who must be excellent scientist





# Hop ON system

- Very welcome
- We propose more cut off dates



# Marie Skłodowska Curie Widening fellows

- Very welcome
- Very competitive
- Not having the same repute as normal MSCA grant among researchers
- Seal of Excellence – Slovenia offers complementary funding



# GOALS of National Institute of Chemistry FOR HORIZON EUROPE

National Institute of Chemistry (NIC) is seeking collaboration in

## HEALTH

and

## ZERO-CARBON

### PILLAR II- CLUSTER HEALTH

- Molecular Medicine
- Research on innovative pesticides and nutrients
- Protein research
- NMR facility
- Analytical chemistry
- Computer based prediction tools for medicines

### PILLAR II- CLUSTER CLIMATE, ENERGY & MOBILITY & RESILIENCE

- Hydrogen technology
- Advanced electrochemical techniques and electrocatalyst stability
- Biorefinery
- Multiscale modeling of reactive materials and processes
- Chemical engineering
- Polymer Chemistry and technology including recycling



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