



Research
Council of
Lithuania



European
Science
Advisors
Forum



European missions:

how to integrate national research and science-based innovation programs to realize the expectations and challenges on the European and National level.

Ričardas Rotomskis



Research Council of Lithuania

**Chairman of the Committee of Natural and Technical Sciences,
Research Council of Lithuania**

Gediminas ave. 3-207, LT-01103, Vilnius, Lithuania

Phone +370 676 16885; E mail: ricardas.rotomskis@lmt.lt

www.lmt.lt;



Research
Council of
Lithuania



European
Science
Advisors
Forum



HORIZON EUROPE



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

2021-2027 Horizon Europe 3 PILARS



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



Pillar III INNOVATIVE EUROPE

European Innovation
Council

European innovation
ecosystems

European Institute of
Innovation & Technology*

Pillar I: Excellent Science focuses on encouraging and funding frontier research. (European Research Council - ERC, Marie Skłodowska-Curie Actions - MSCA, Research Infrastructures)

Pillar II: Global Challenges and European Industrial Competitiveness develop a shared vision and support the uptake of innovative solutions in industry and society. (6 Clusters, Joint Research Centre)

Pillar III: Innovative Europe aims at funding research to produce European innovations. (European Innovation Council, European Innovation Ecosystems, European Institute of Innovation and Technology)



Research
Council of
Lithuania



European
Science
Advisors
Forum



HORIZON EUROPE



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

The three Horizon Europe Pillars are complemented by the addition of another horizontal Pillar, ***“Widening Participation and Strengthening the European Research Area”***



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



Pillar III INNOVATIVE EUROPE

European Innovation Council

European innovation ecosystems

European Institute of Innovation & Technology*

The Pillar II

“Cross-European collaborative projects that involve both industry and academia.”

will receive funding from European Partnerships to support



Research
Council of
Lithuania



European
Science
Advisors
Forum



Common vision

HORIZON EUROPE

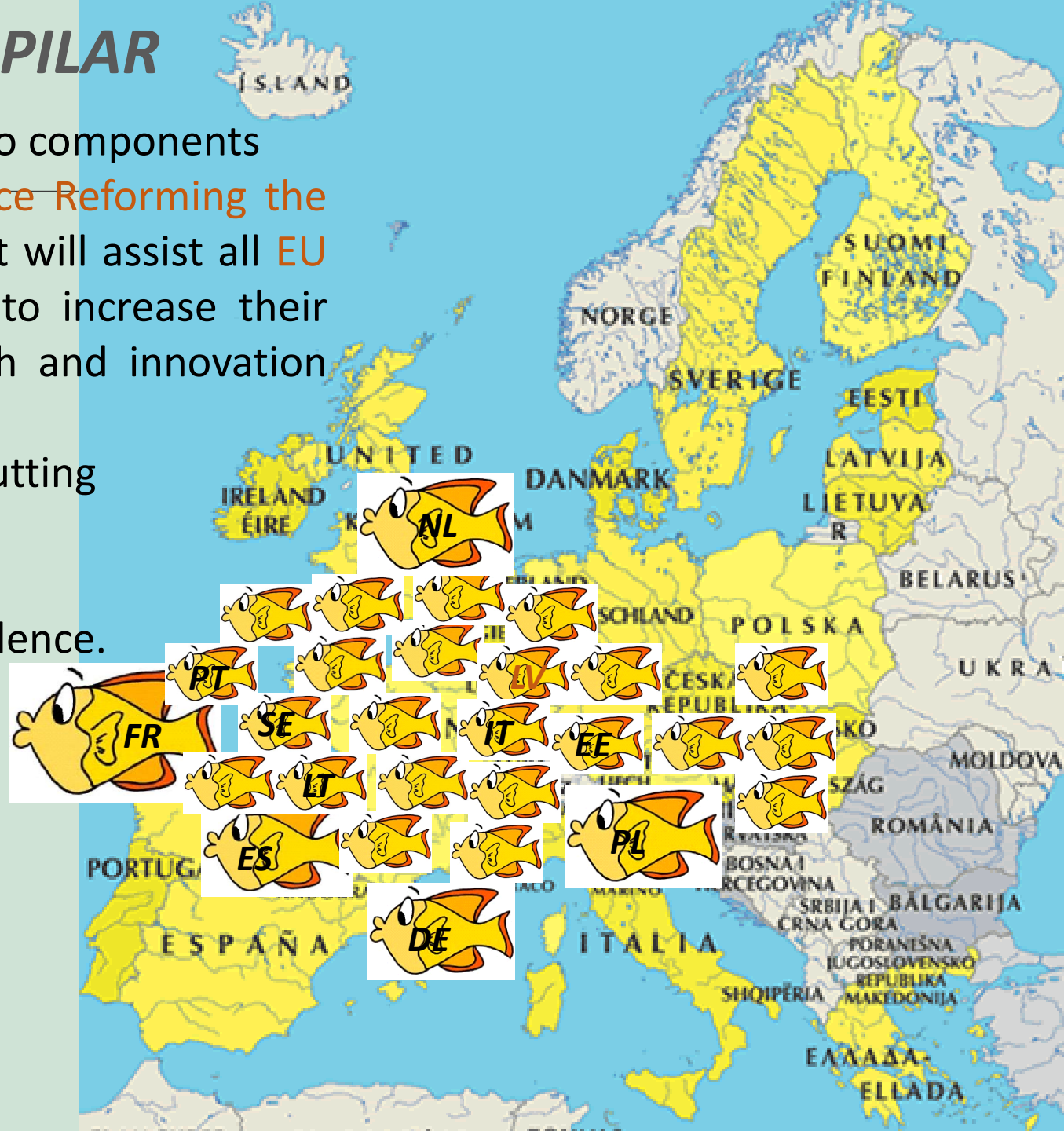


2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

Horizontal PILAR

Comprised of two components

Sharing Excellence Reforming the
R&I Systems that will assist all EU
Member States to increase their
national research and innovation
potential,
Promote cross-cutting
issues, foster
collaborations
and spread excellence.





Research
Council of
Lithuania



European
Science
Advisors
Forum



HORIZON EUROPE



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

New elements in Horizon Europe



European Innovation Council

Support for innovations with potential breakthrough and disruptive nature with scale-up potential that may be too risky for private investors. This is 70% of the budget earmarked for SMEs.



Missions

Sets of measures to achieve bold, inspirational, and measurable goals within a set timeframe. There are 5 main mission areas as part of Horizon Europe.



New Approach to Partnerships

Objective-driven and more ambitious partnerships with industry in support of EU policy objectives.



Open Science Policy

Mandatory open access to publications and open science principles are applied throughout the programme
Factsheet: Open science in Horizon Europe.



Research
Council of
Lithuania



European
Science
Advisors
Forum

The European Parliament and Council of the EU have mandated the Commission to introduce a new way of working across policy areas, fields of expertise and science, directly engaging with companies, local communities and the innovation community:

EU Missions



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

EU Missions

EU Missions start from the idea that complex societal challenges require a coordinated effort across Europe to deliver impact.

They support the ambitious priorities of this Commission and recognize that we need to go beyond the existing instruments.

Missions will deliver results through a new role for research and innovation under the Horizon Europe programme.



Adaptation to Climate Change: support at least 150 European regions and communities to become climate resilient by 2030.



Cancer: improving the lives of more than 3 million people by 2030 through prevention, cure and for those affected by cancer including their families, to live longer and better.



Restore our Ocean and Waters by 2030



100 Climate-Neutral and Smart Cities by 2030



A Soil Deal for Europe: 100 living labs and lighthouses to lead the transition towards healthy soils by 2030



Research
Council of
Lithuania

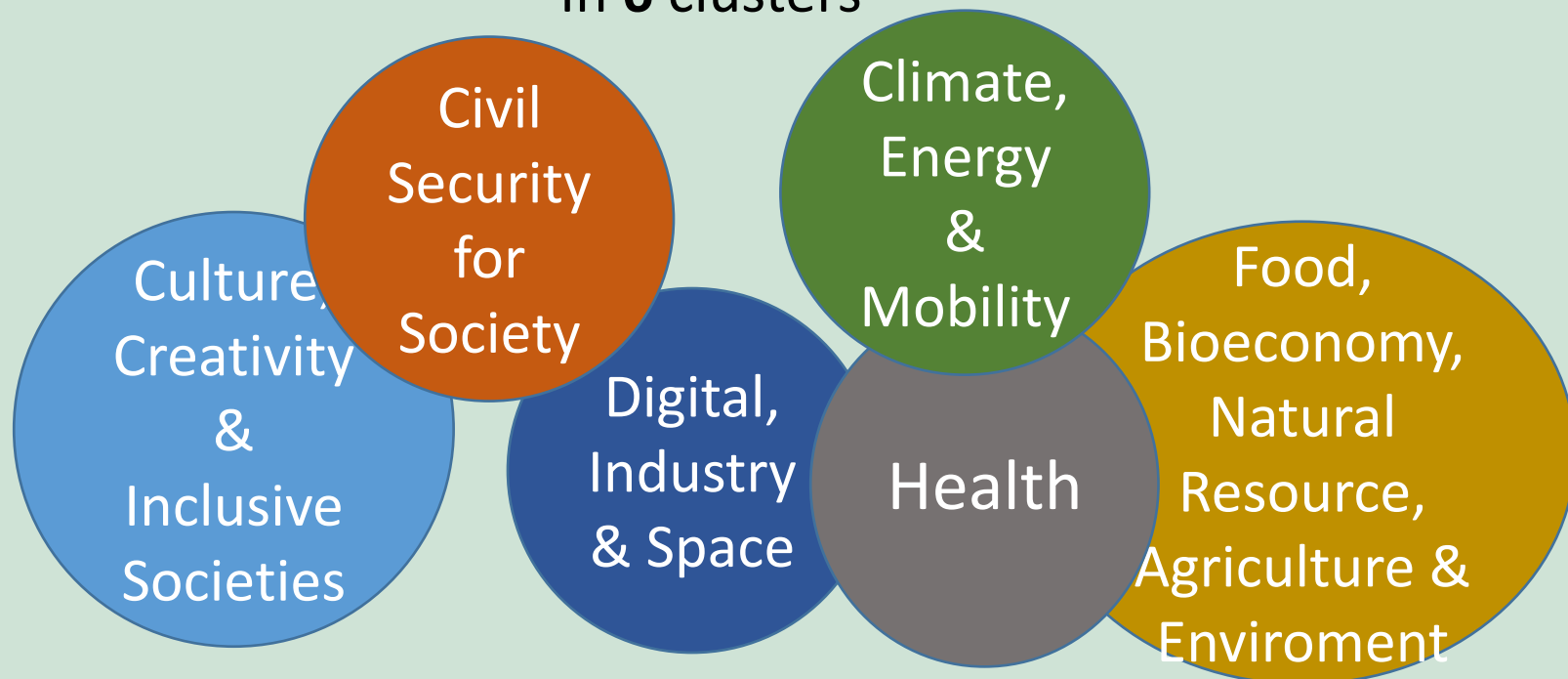


European
Science
Advisors
Forum

Horizon 2021-2027, Pillar II

Its research and innovation activities will be organized

In **6** clusters



Europe take a strategic position in Horizon Europe funding by shaping strong partnerships in and across the following topics:

- ☐ Innovation Support
- ☐ Health
- ☐ Digital Education
- ☐ Inclusive Society

- ☐ Digital Transformation
- ☐ Bioeconomy
- ☐ Cultural & Creativity
- ☐ Tourism

incentivize;:

- ☐ interdisciplinary,
- ☐ cross-sectoral,
- ☐ cross-policy,
- ☐ cross-border,
- ☐ international cooperation.



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania



Research
Council of
Lithuania



European
Science
Advisors
Forum



Missions

Overall approach

- Apply mission principles:
 - innovation & risk taking
 - citizen engagement
 - equitable access
 - MS commitment
- Underpinning and synergizing with Cancer Plan actions
- Joined up governance mission/cancer plan



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania



Mission Cancer



- ☐ understand cancer
- ☐ prevent what is preventable
- ☐ optimize diagnostic and treatment
- ☐ support quality of life
- ☐ ensure equitable access.





Research
Council of
Lithuania



European
Science
Advisors
Forum

Support
quality of life

Ensure
equitable
access

Optimize
diagnostic
and treatment

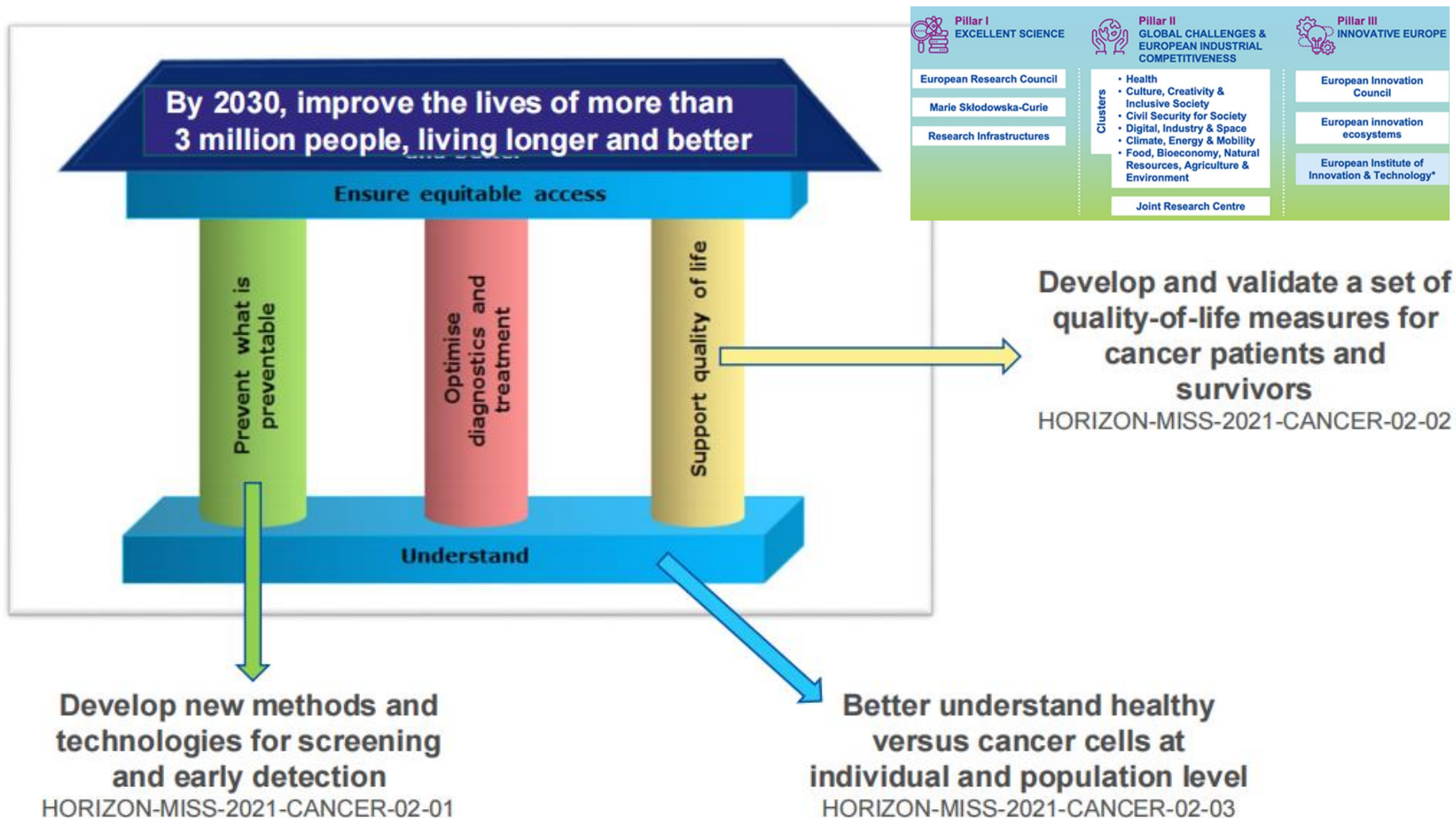
Prevent the
preventable

Understand
cancer

Mission on Cancer: topics in 2021

Overall approach

- Apply **mission principles**:
innovation & risk taking
citizen engagement
equitable access
MS commitment
- **Underpinning and synergising** with Cancer Plan actions
- Joined up **governance** mission/cancer plan
- total budget 2021: ~120 M€





Research
Council of
Lithuania



European
Science
Advisors
Forum

Model "National Mission"

Stakeholders, led by
industry,
come together
to agree a common
National Mission

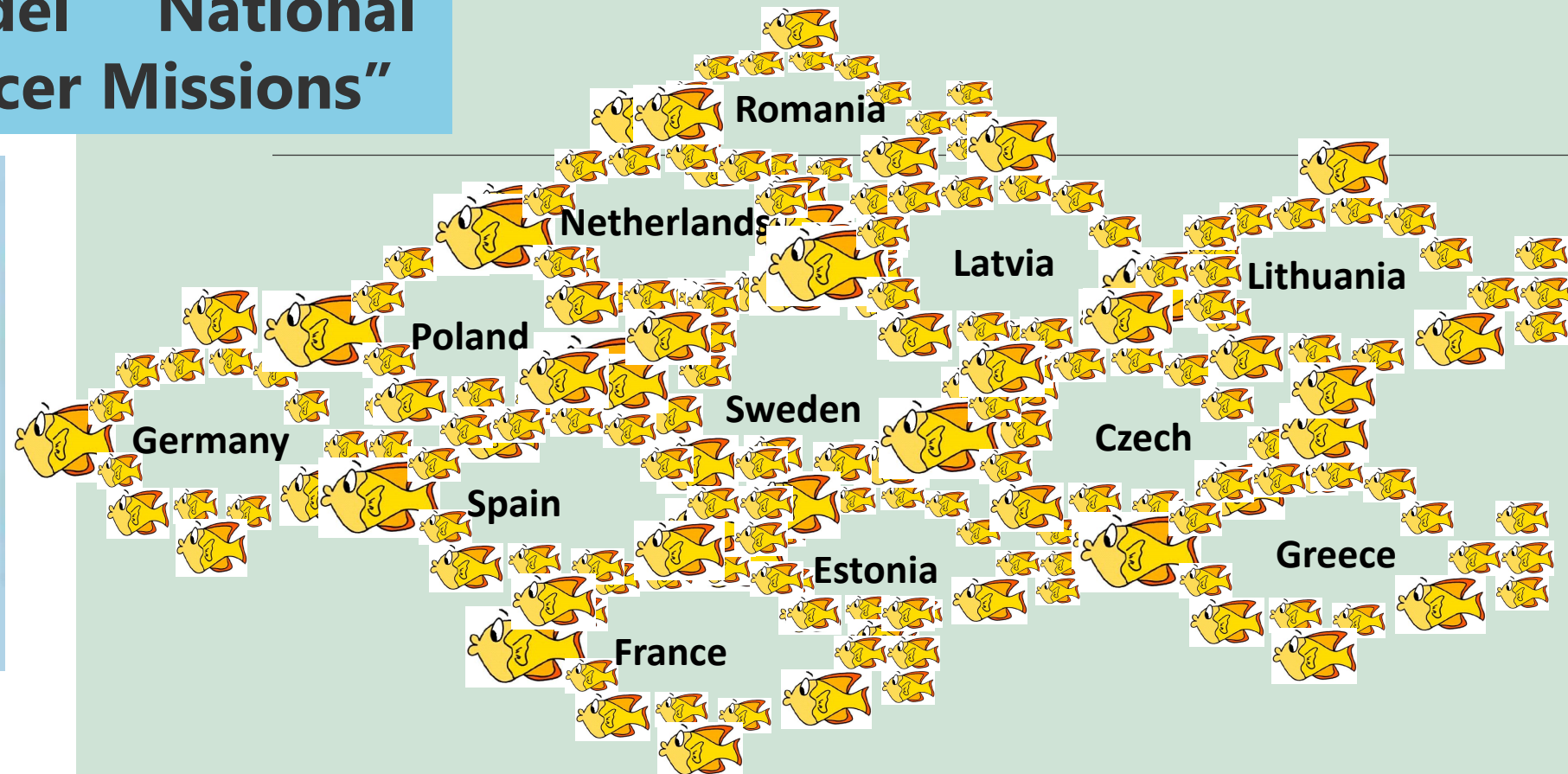
*Recommendations of EBPO
Organisation for Economic
Co-operation and Development*



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

Model "National Cancer Missions"

All countries accept EC "Cancer" mission and create "National Cancer Missions"



Support quality of life

Ensure equitable access

Optimize diagnostic and treatment

Prevent the preventable

Understand cancer



Research
Council of
Lithuania



European
Science
Advisors
Forum



Research Council of Lithuania



Mission on Cancer will help set common goals and implement actions aiming to reverse the frightening trends of this disease.



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

Model "EU Cancer Missions"



Mission Cancer

☐ Understand cancer

☐ Prevent the preventable

☐ Optimize diagnostic and treatment

☐ Ensure equitable access

☐ Support quality of life



Research
Council of
Lithuania



European
Science
Advisors
Forum

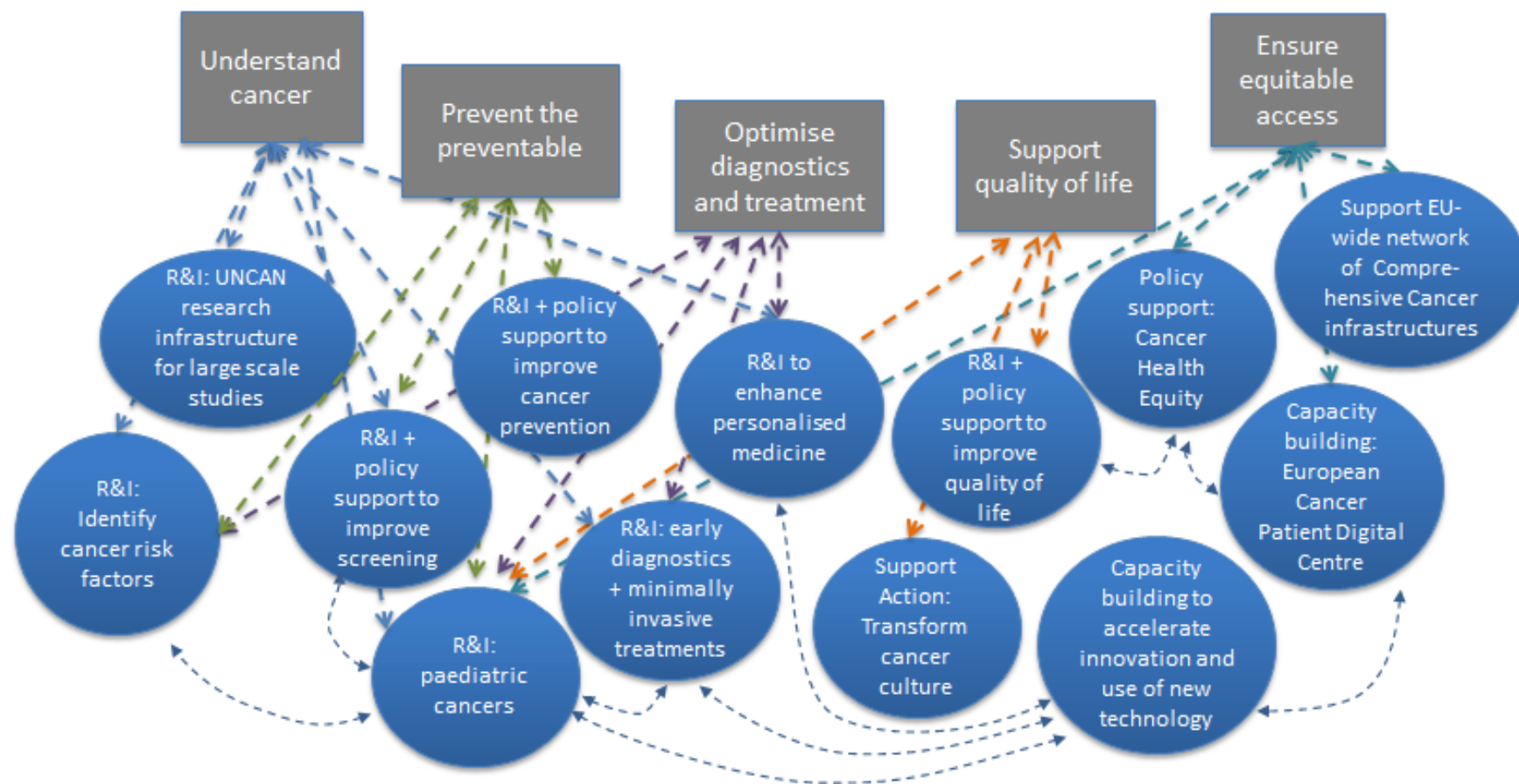


Research Council of Lithuania

Relationships between Mission's goal, areas of action and recommended actions

Conquer cancer: mission possible

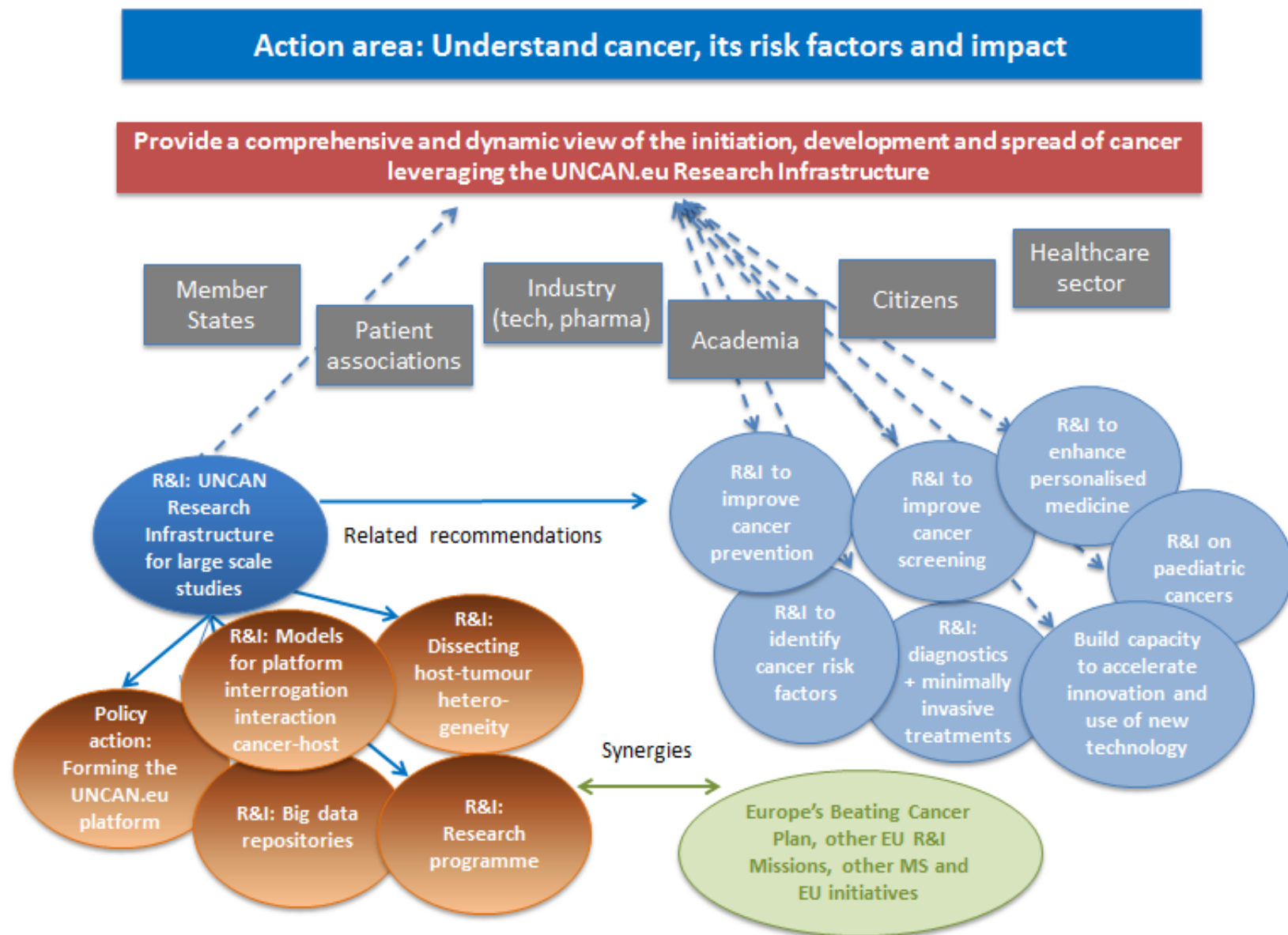
By 2030, more than 3 million lives saved, living longer and better



2014-2020 Operational
Programme for the
European Union Funds
Investments in Lithuania

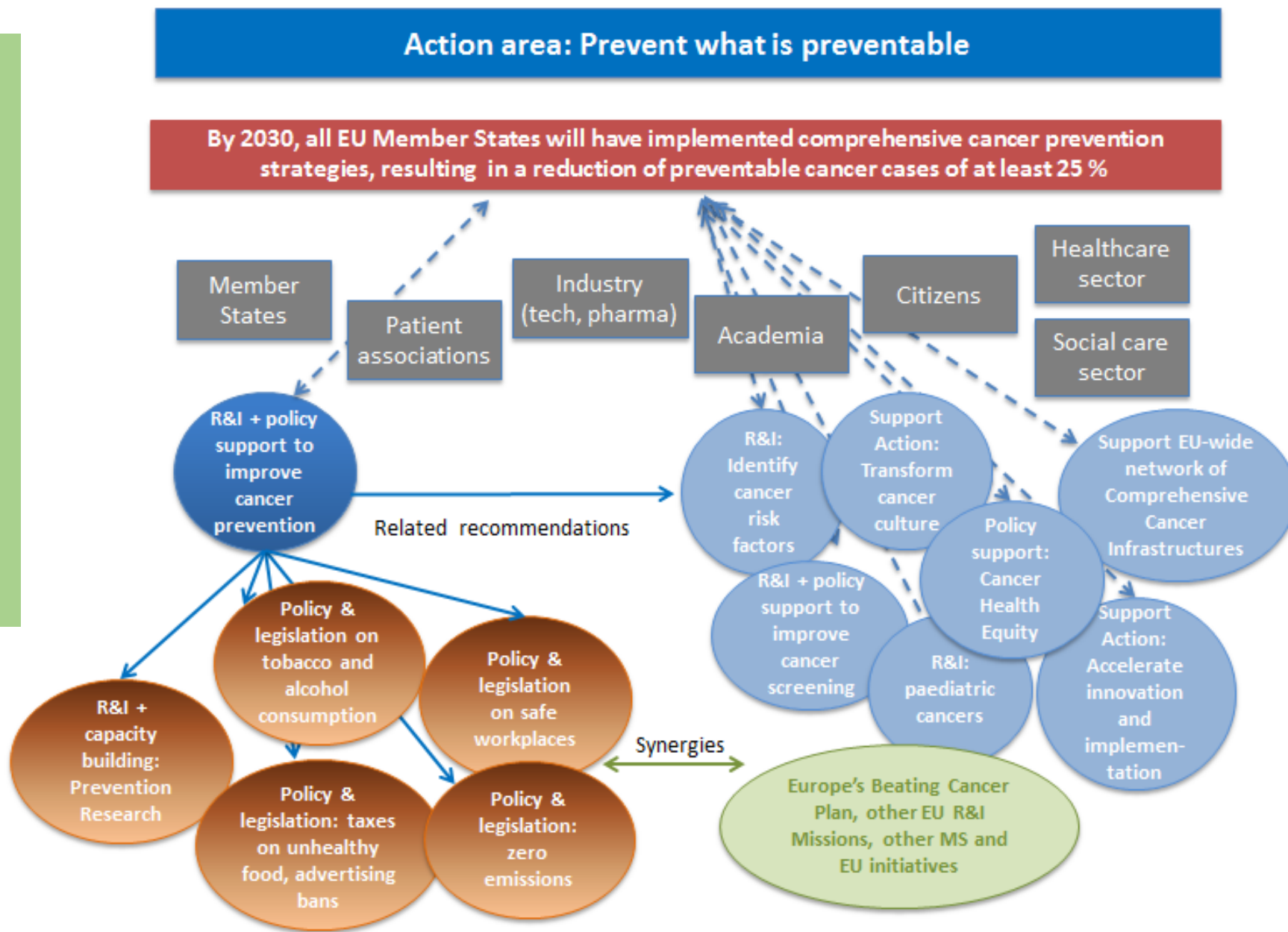
Example of action area 'Understand cancer, its risk factors and impact'

Figure highlight some examples of how the Board's recommendations could be further developed in specific actions with measurable objectives, identified actors and synergies with related initiatives.



Example of action area 'Prevent what is preventable'

Figure highlight some examples of how the Board's recommendations could be further developed in specific actions with measurable objectives, identified actors and synergies with related initiatives.





Research
Council of
Lithuania

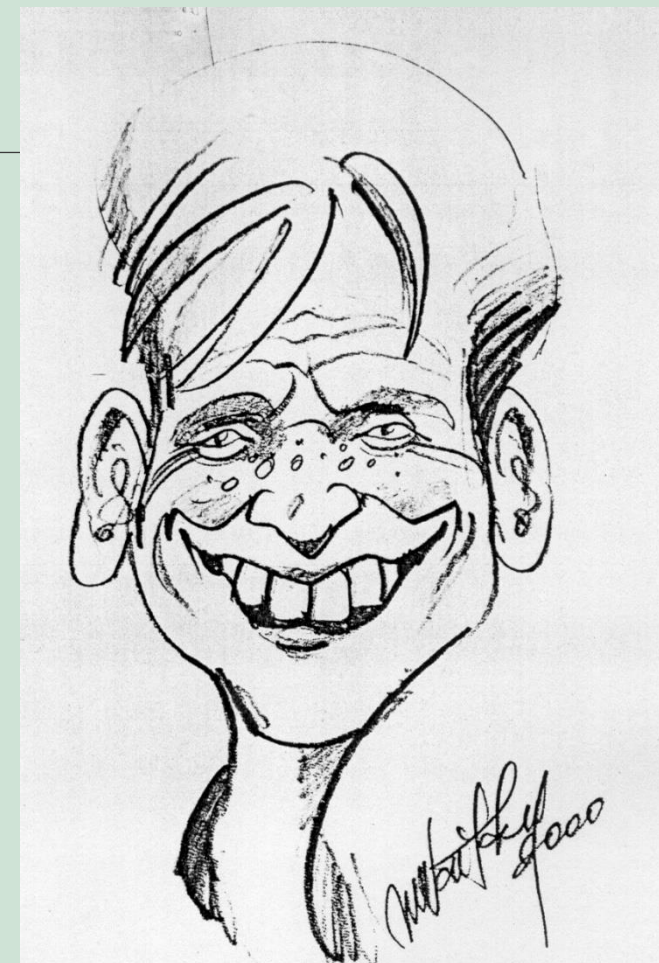


European
Science
Advisors
Forum



Thank you for your
attention

**Ričardas
Rotomskis**



**Chairman of the Committee of Natural and Technical Sciences,
Research Council of Lithuania**

Gediminas ave. 3-207, LT-01103, Vilnius, Lithuania

Phone +370 676 16885; E mail: ricardas.rotomskis@lmt.lt

www.lmt.lt;