FTMC – Research and Technology Organisation

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FTMC (CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY) is:

- The largest scientific research institution in Baltic States.

- State owned, academically independent organisation.

- **Main goal**: to nurture deep tech industry by combining fundamental research with technology development.

- Cooperation with industry and other RTO's are top priority.

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Together with spin-off incubator:

FIZIKOS INSTITUTO
MOKSLO
IR TECHNOLOGIJŲ
PARKAS

FTMC – Center of scientific excelence

FTMC in numbers:

People

- More than 700 employees
- About 500 researchers with PhD
- 114 PhD students

Infrastructure
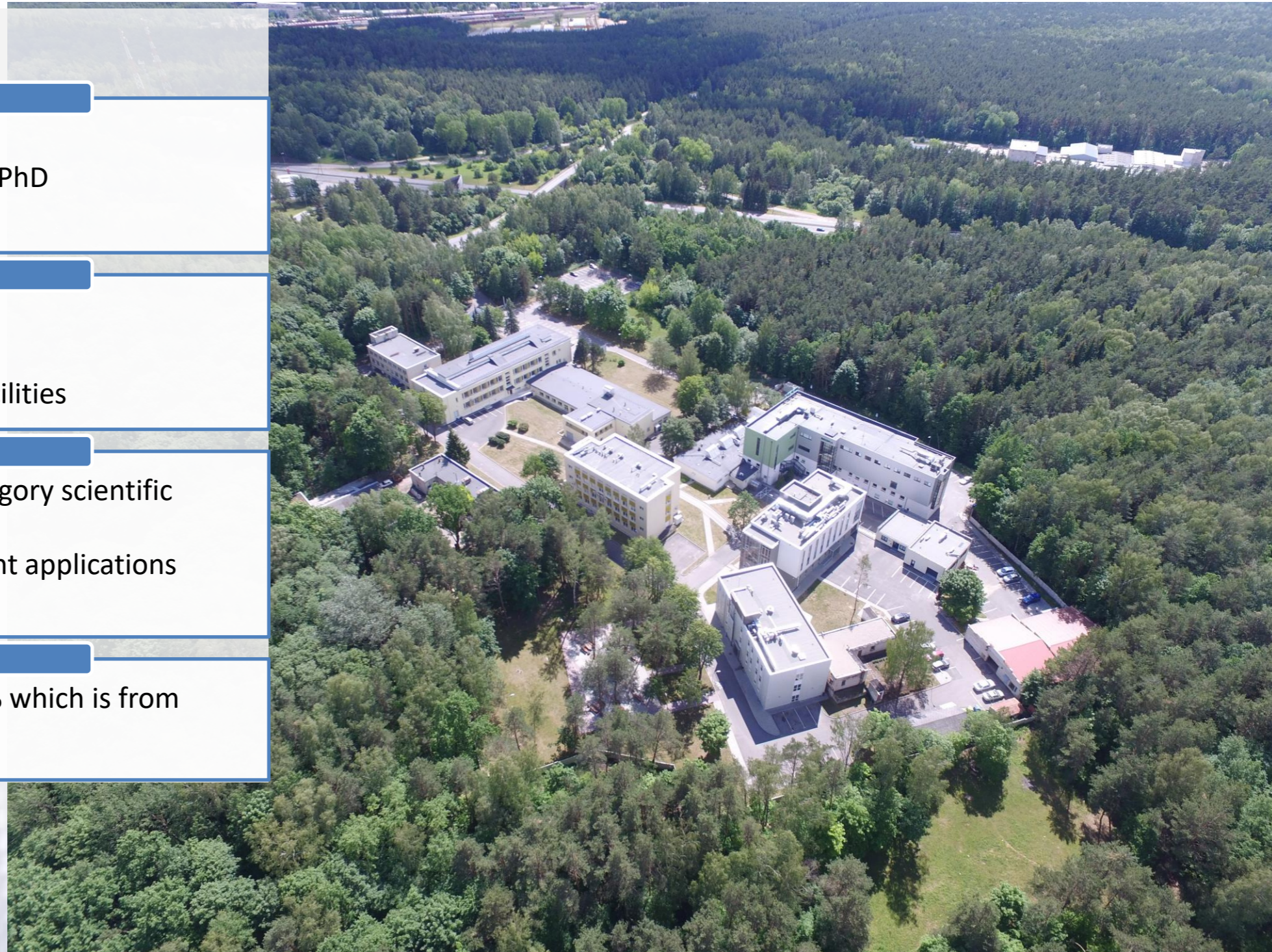
- 48 laboratories
- 5 sites
- 2 ISO 7 and 5 clean room facilities

Scientific results

- On average 242 highest category scientific articles published annually
- About 10 international patent applications submitted annually

Finance

- Budget of 21,5 mil Eur. , 50% which is from national budget

FTMC – Center of scientific excelence

FTMC cooperation with industry in 2021:

Customers

- 406 companies served
- Cooperation with +15 countries world wide

Services

- 1508 services provided
- 2.521.053 Eur. revenue
- Portfolio of 300+ available services

R&D projects since 2018

- 73 completed and ongoing projects
- 125 joint venture agreements

Spin-off's
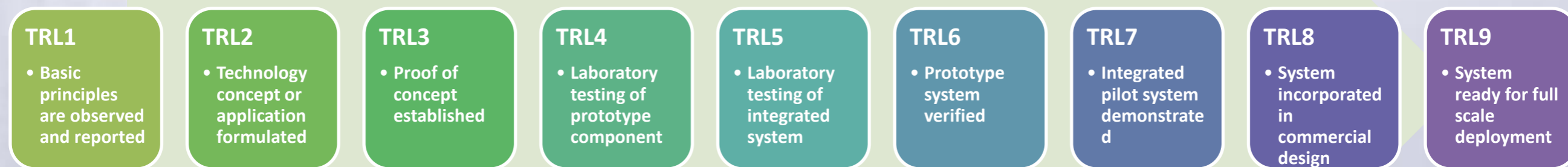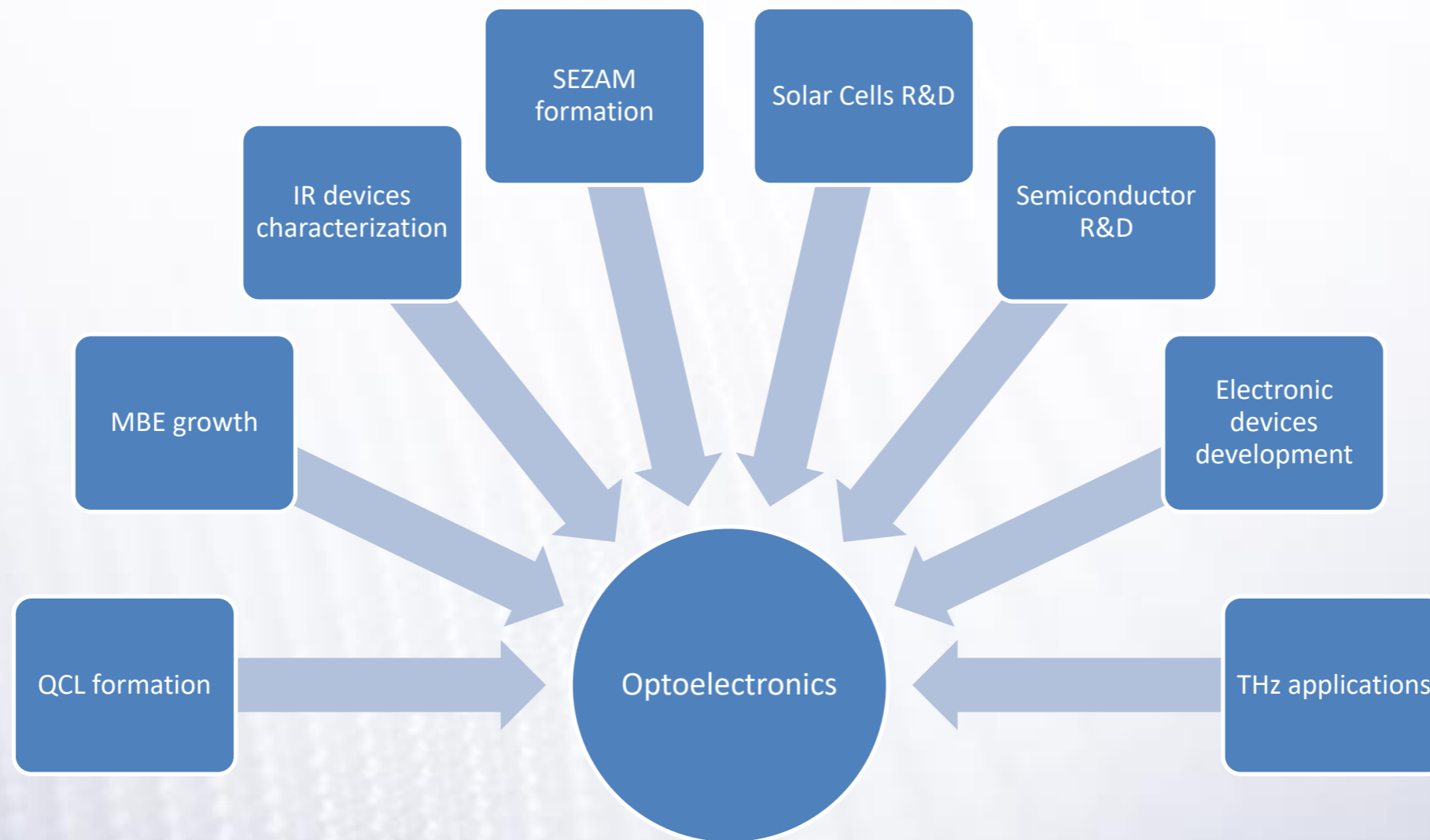
- About 30 spin-off companies
- 23 licence agreements

FTMC R&D directions

FTMC R&D activities covers all Technology readiness levels from basic research to final product with aim in these fields:
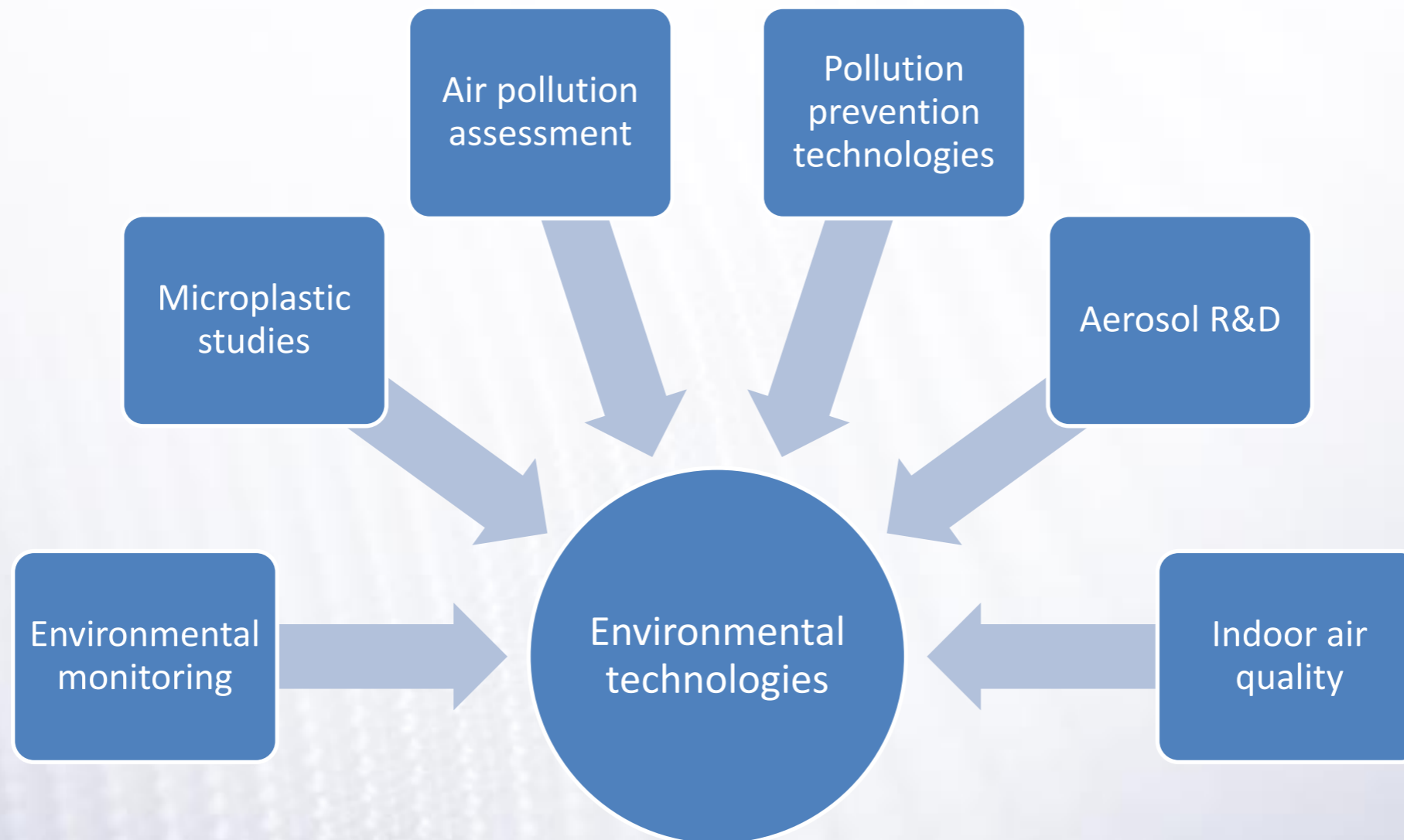
- Optoelectronics
- Environmental technologies
- Laser technologies
- Sustainable chemistry
- Nano engineering
- Textile technologies

Which contributes to:

- Aerospace
- Healthcare
- IoT
- Defence
- Society well-being
- Ecology

TRL1	TRL2	TRL3	TRL4	TRL5	TRL6	TRL7	TRL8	TRL9
• Basic principles are observed and reported	• Technology concept or application formulated	• Proof of concept established	• Laboratory testing of prototype component	• Laboratory testing of integrated system	• Prototype system verified	• Integrated pilot system demonstrated	• System incorporated in commercial design	• System ready for full scale deployment

FTMC Textile technologies

FTMC notable partners

We want you here

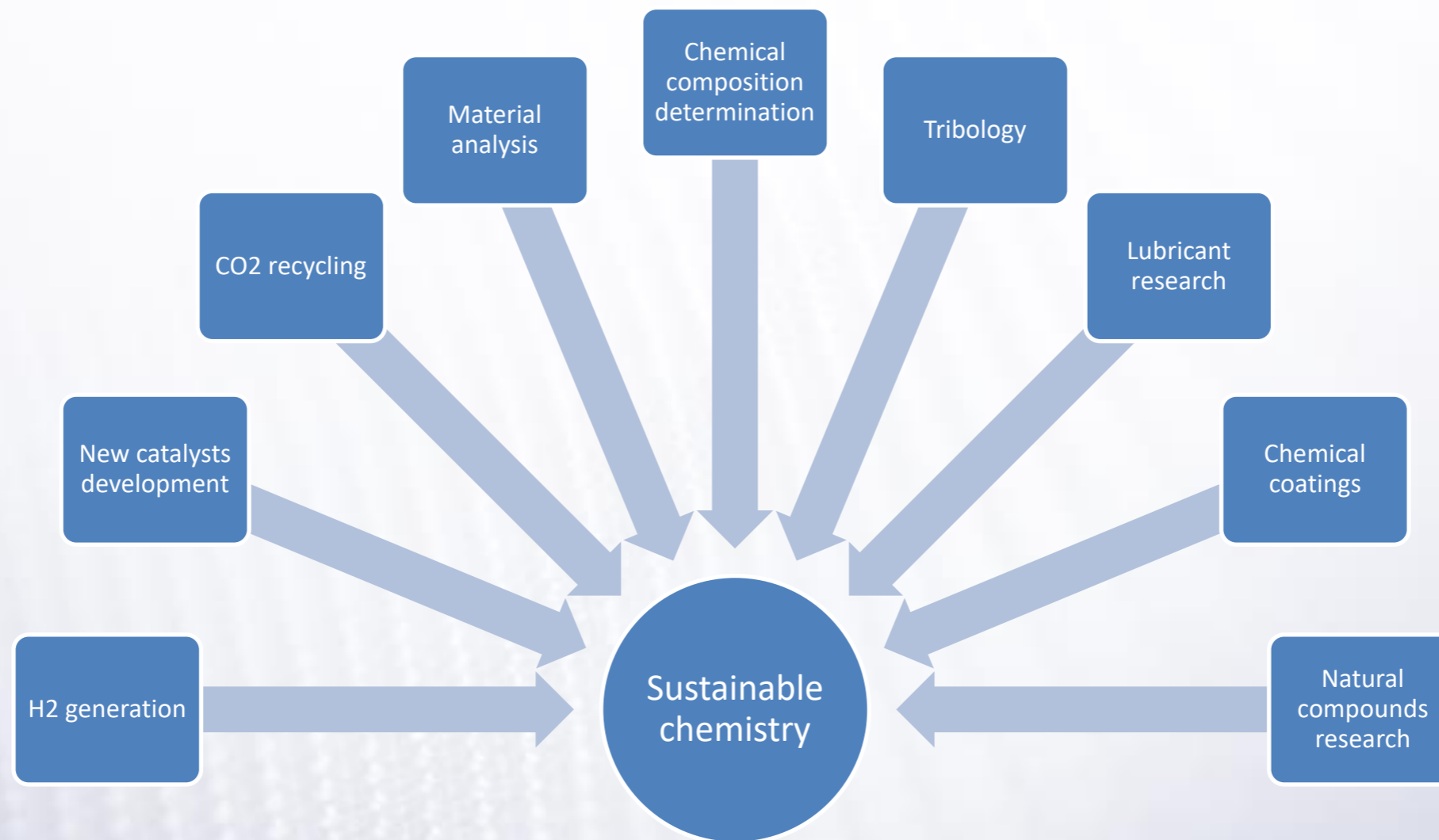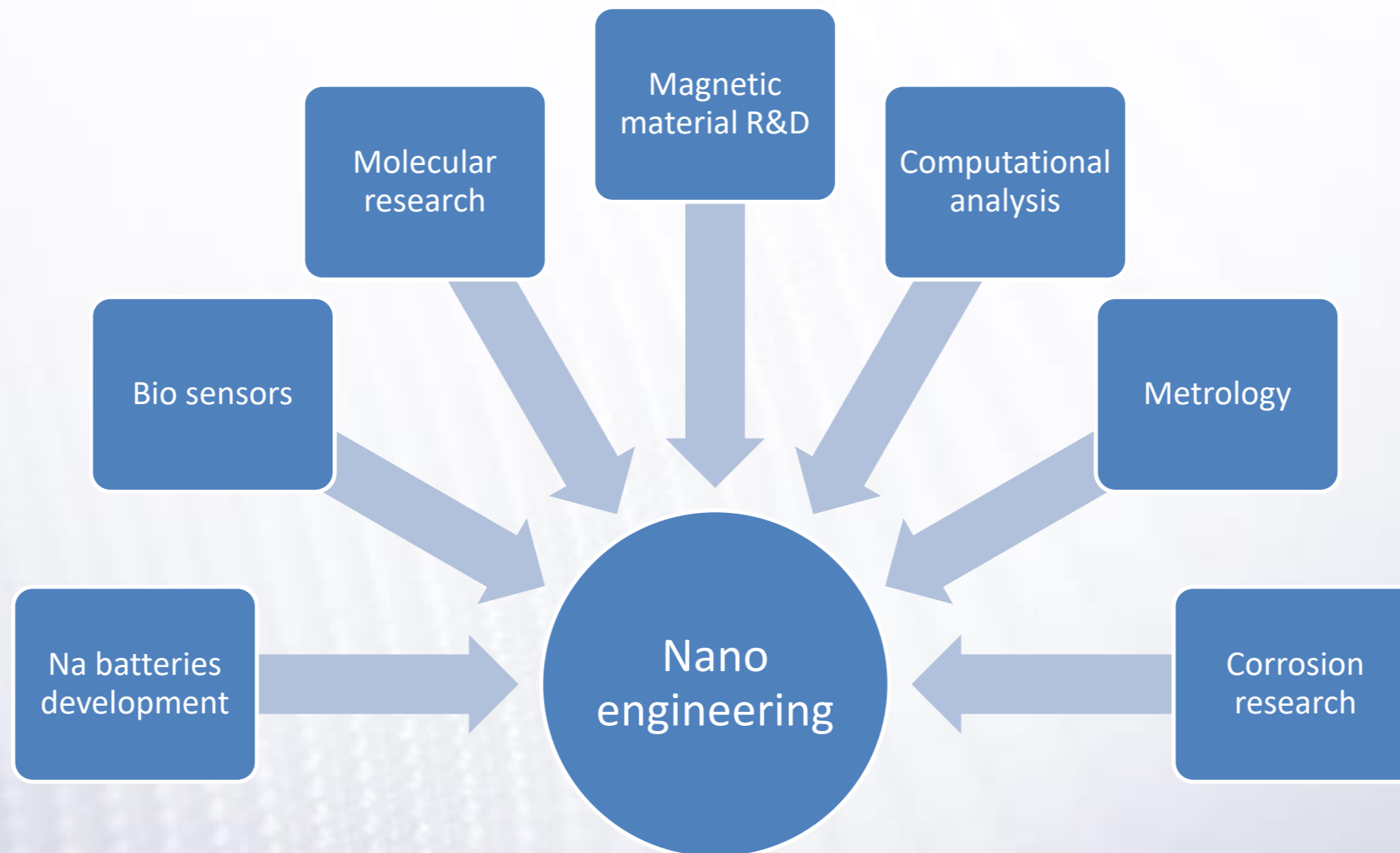*„Sunrise Valley - where the dawn of new future begins...“*
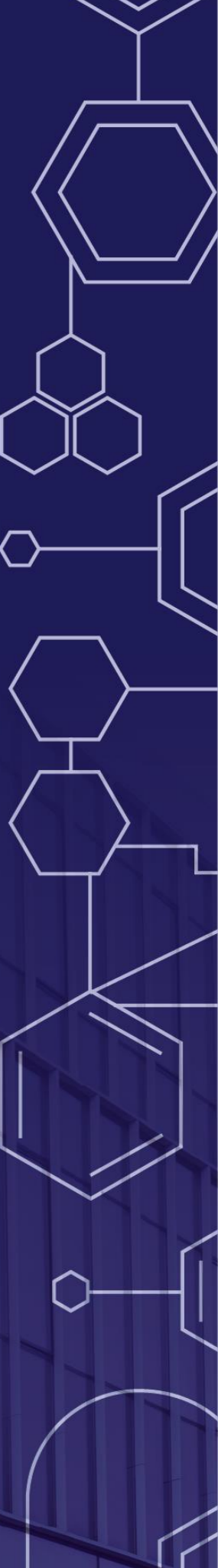
MSCA PF hosting offers at Vilnius University

Ana Raišienė
Research Projects Coordinator
VU Research Projects Office
research@cr.vu.lt

Lithuania – small country, endless opportunities

- Population: **2.801 million**
- Capital: **Vilnius**
- **EU & NATO** member
- **Eurozone**
- Language: **Lithuanian**
- 85% of young professionals proficient in **English**
- **#4** in the EU in **higher education**
- The highest share of **women researchers and engineers** in the EU (55%)
- **TOP 20 happiest country** in the world

Fast-developing and innovative ecosystem

- Largest **Fintech** hub in the EU

- Global **Business Services** sector

- **50+** Laser sector companies

- **Biotechnology** hub

- **#4** globally in the availability of **digital skills**
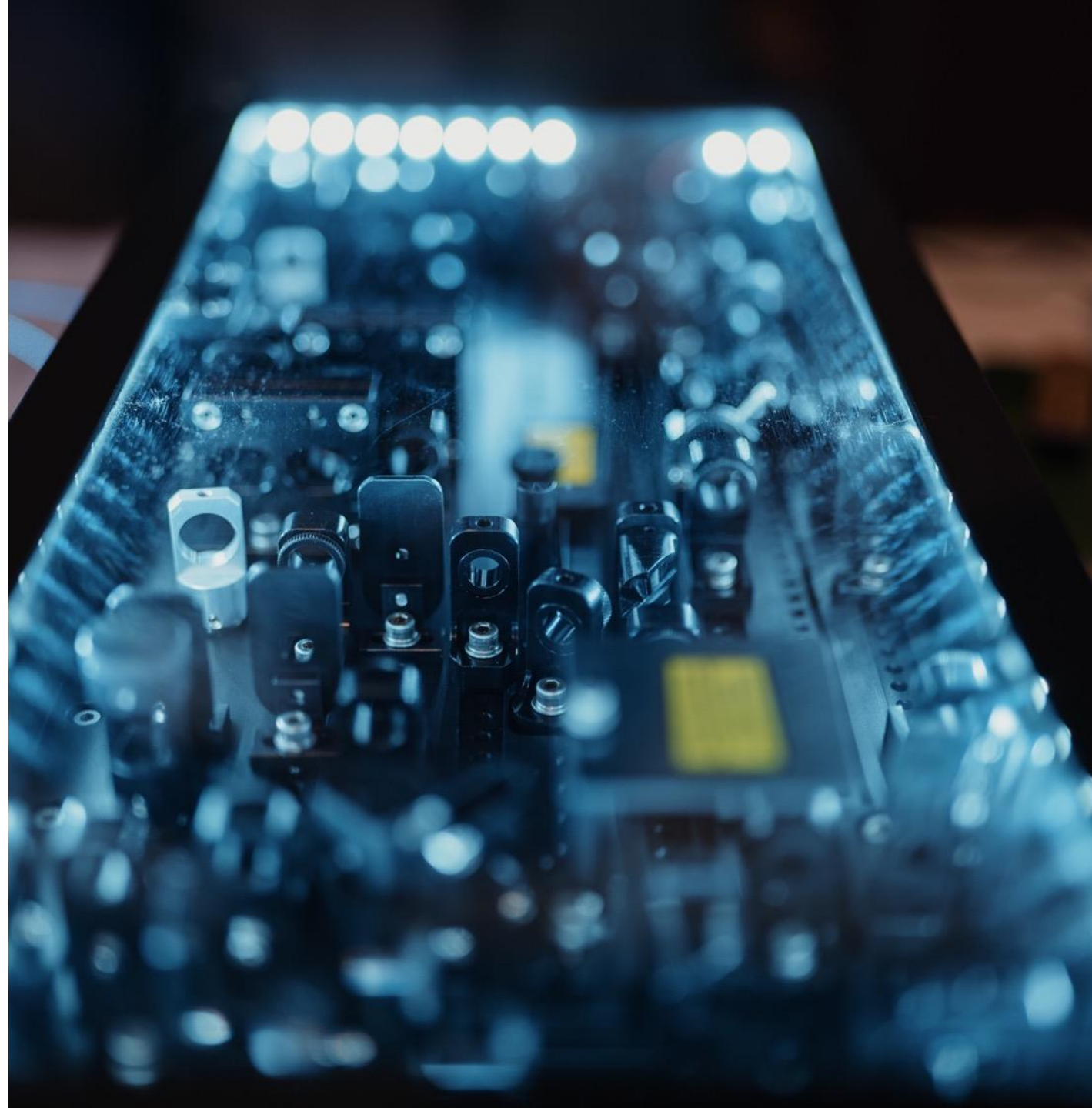
Vilnius – amazing, wherever you think it is

- Population: ~**600,000** inhabitants
- **700th** anniversary in 2023
- Rich history and picturesque Old Town, inscribed on the **UNESCO** World Heritage List
- **Dynamic arts** & **culture scenes**, modern venues, creative spaces

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Costs of living

Apartment rent
from €350 / month
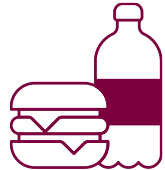
Food (for one person)
€175 / month

Beer
€4

Public transport
€29 / month

Cinema ticket
€7

Internet 8 Mbps
€15 / month

Gym membership
€23 / month

Cup of coffee
€3

Vilnius University

- Established in **1579**
- The **first and largest** comprehensive university in **Lithuania**
- **Research** university
- Among the **top 400** in the world (QS Rankings 2023)

#1 University in Lithuania

- **23,000** students

- **3,000+** academic staff

  (**58%** women)

- Budget: **~140** million euros

Studies

136 Bachelor's and integrated study programmes

113 Master's study programmes

29 Science fields for doctoral studies

63 Medicine and dentistry residency programmes

International Students

63
Study programmes in English

2500
International students

10%
Of all students

700+
Courses in English and other foreign languages

Campuses

Šiauliai

Kaunas

Vilnius

Faculties' structure
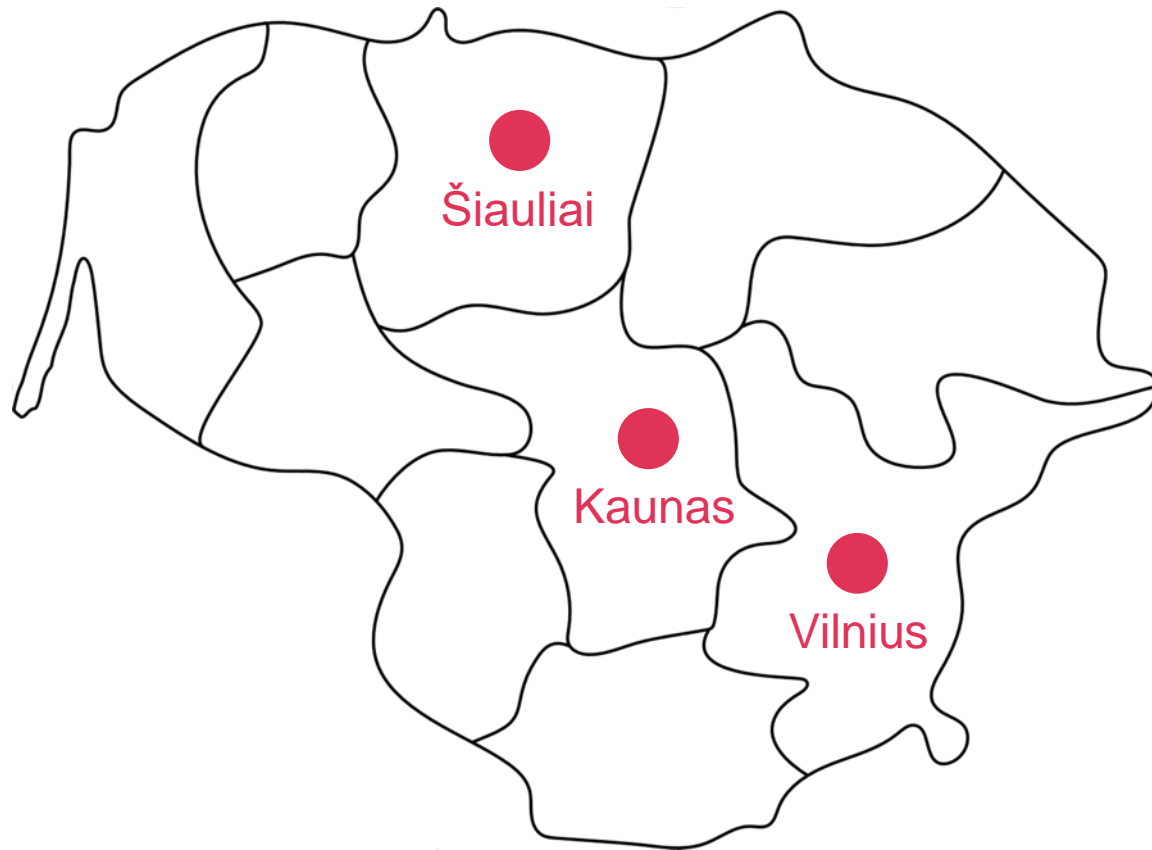
Faculty of Chemistry and Geosciences

Institute of Chemistry
Institute of Geosciences

Faculty of Economics and Business Administration

Faculty of Philosophy

Institute of Asian and Transcultural Studies
Institute of Philosophy
Institute of Psychology
Institute of Sociology and Social Work
Institute of Educational Sciences

Faculty of Philology

Institute of English, Romance Studies and Classical Studies
Institute of Baltic Languages and Cultures
Institute of Literature and Cultural Studies
Institute of Applied Linguistics
Institute of Foreign Languages

Faculty of Physics

Center for the Physics of Nuclear and Elementary Particles
Institute of Chemical Physics
Institute of Photonics and Nanotechnology
Laser Research Center
Institute of Applied Electrodynamics and Telecommunications
Institute of Theoretical Physics and Astronomy

Life Sciences Center

Institute of Biosciences
Institute of Biochemistry
Institute of Biotechnology

Faculty of History

Kaunas Faculty

Institute of Languages, Literature and Translation Studies
Institute of Social Sciences and Applied Informatics

Faculty of Communication

Faculty of Mathematics and Informatics

Institute of Data Sciences and Digital Technologies
Institute of Informatics
Institute of Mathematics
Institute of Applied Mathematics

Faculty of Medicine

Institute of Biomedical Sciences
Institute of Clinical Medicine
Institute of Odontology
Institute of Health Sciences

Šiauliai academy

Institute of Education
Institute of Regional Development

Institute of International Relations and Political Science

Faculty of Law

Business School

ARQUS European University Alliance

Opportunities for students, academics and non-academic staff:

- Seamless mobility within the alliance
- Joint academic offer
- Research networking
- Support of innovative teaching forms
- Talent scholarships
- Seed funding for joint research action
- Training of plurilingual, multicultural, and diversity & inclusion competences

MAYNOOTH

VILNIUS

KYIV-MOHYLA ACADEMY

LEIPZIG

WROCLAW

GRAZ

LYON

PADUA

MINHO

GRANADA

Research Fields

1. Humanities

2. Lithuanian Studies

3. Structure and Development of Society

4. Biological and Sociopsychological Cognition and Evolution of Man

5. Healthy Man, Prevention, Diagnostics and Treatment of Diseases

6. Genomics, Biomolecules and Biotechnologies

7. Changes in Ecosystems, Protection, Natural Resources

8. New Functional Materials and Derivatives

9. Theoretical and Condensed Matter Physics

10. Laser Physics and Light Technologies

11. Fundamental and Applied Mathematics

12. Informatics and Information Technologies

RESEARCH

R&D infrastructures & networks

Vilnius University for business

Active player in the innovation ecosystem:

- **Most** of research areas covered

- **Interdisciplinary** approach

- **160+** research groups

- **150+** patents & patent applications

- **450+** open-access R&D services

- **25+** start-up companies

- Shareholder in **two science parks** operating in Vilnius

- Shareholder of the **Santaros Clinics and Žalgiris Clinics** (odontology)

- **Bio-incubator**

- **200+ companies** cooperate with us every year

Extra funding opportunities for MSCA PF applicants!

ERA Fellowships: Open to researchers of any nationality who submit European Postdoctoral Fellowship proposal to the MSCA PF call with the host institution in a Widening Country (Lithuania). MSCA PF application will be automatically resubmitted to ERA fellowships call in case the proposal fails to reach an adequate place in the ranking to be funded.

National funding: National funding scheme to finance well-evaluated MSCA PF proposals is launched. If your MSCA PF proposal will score above the threshold of 70%, you will be able to receive national funding for the implementation of your project!

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Finding a supervisor for your MSCA PF project

Find yourself a suitable supervisor at VU by browsing:

- **Websites of VU academic units**

- **Research Teams search**

- VU researchers' hosting offers on **EURAXESS**

In case you need help, contact VU Research Projects Office at **research@cr.vu.lt** and we will help you look for the supervisor!

Application process

1. Contact the supervisor or the faculty directly to express your interest in making a joint MSCA PF application. Do not forget to provide the following documents (cc to **research@cr.vu.lt**):

- Curriculum Vitae

- List of publications

- **Proposal summary**

2. Request **a letter from your supervisor endorsing you as a candidate,** and send it to VU Research Projects Office (**research@cr.vu.lt**).

3. After receiving your supervisor's endorsement, you can start preparing your MSCA PF project proposal.

Support services at VU

- Assistance with eligibility check

- Help in finding a supervisor at VU

- Support during the preparation and submission of the MSCA PF proposal

- Individual consultations and help in finding answers to your questions

- Proposal review

- Providing guidance material with tips for proposal writing and information about VU, including on its training, support services and hosting arrangements offered

- MSCA PF Webinar, dedicated to acquainting with the rules of participation in the program, the content of the application, the experiences of successful VU MSCA PF applicants (9 June, 2023).

For more information follow the **link**.

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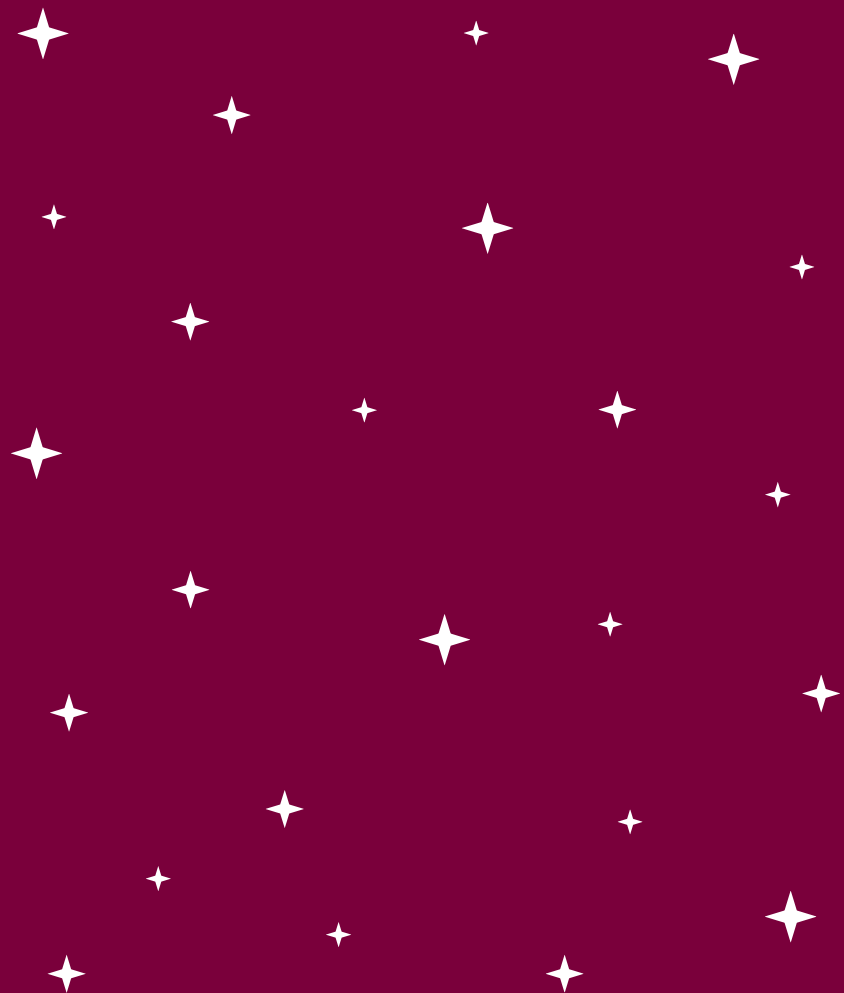
GET IN TOUCH!

VU Research Projects Office

research@cr.vu.lt

Universiteto str. 3, LT-01513 Vilnius, Lithuania

https://www.vu.lt/en/research/research-activities/postdoc-fellowships