



Izglītības un zinātnes
ministrija



RĪGAS TEHNISKĀ
UNIVERSITĀTE

Latvia-CERN national outreach initiatives and good practices to share

Prof. Toms Torims
CERN National Contact Point in Latvia
cern.nkp@rtu.lv

26th IPPOG meeting 29.11.2023.



Latvia - CERN strategy

Government approved – consensus based - stakeholders and ministries

Overarching goals:

- 1. Meaningful and coordinated** participation of Latvia at CERN in the **Associate Member** state status
- To become a **Full Member** state within **2-3 years**

Latvia is reliable and honest partner of CERN



Outreach

- Integral part of Latvia – CERN strategy
- clear indication of programmes
- Multi-annual financial and human resources allocated
- Well communicated
- Integrated in the school and university curricula
- Engagement of policy makers at all levels
- Offering realistic carrier paths and providing vision

Outreach activities in Latvia

Main activities coordinated yearly:

- Job shadowing at CERN
- *School of the Young Physicists of Latvia*
- Collaboration with *Riga TechGirls*
- CERN exposition in Latvian National Library
- Participation in CERN Teachers programme
- Participation Doctoral programmes
- Dedicated doctoral/master students visit to CERN
- CERN Summer Student programme + individual school works – the first scientific research works



Job shadowing at CERN

- Since 2017, 4-5 school children every spring are at CERN to shadow Latvian scientists and engineers
- with preparatory and post-events at home



JA
Latvia

A Member
of JA Worldwide

Physics teachers programme @CERN

- Events, lectures of Latvian scientists @CERN and selection of teachers for the CERN visits
- School physics curricula with inputs and data from our CERN scientists



School of the Young Physicists of Latvia

- Virtual and in-person lectures + events
- internal competition – two winners go to CERN



Riga TechGirls @ CERN

visits to CERN to raise young women's interest and involvement in STEM and CERN related scientific areas

># Riga
TechGirls

<https://rigatechgirls.com>

GIRLS GO CERN

Ja vēlies iepazīt zinātņi un inženieriju piesakies!

Reģistrācija līdz 12.aprīlim
Vairāk informācijas:
rigatechgirls.com/girlsgocern



RĪGAS TEHNISKĀ
UNIVERSITĀTE





School project?



CERN Portal @Latvian National Library

- permanent CERN exposition and classroom for children and the general public
- CERN as a centre of excellence for technology and innovation





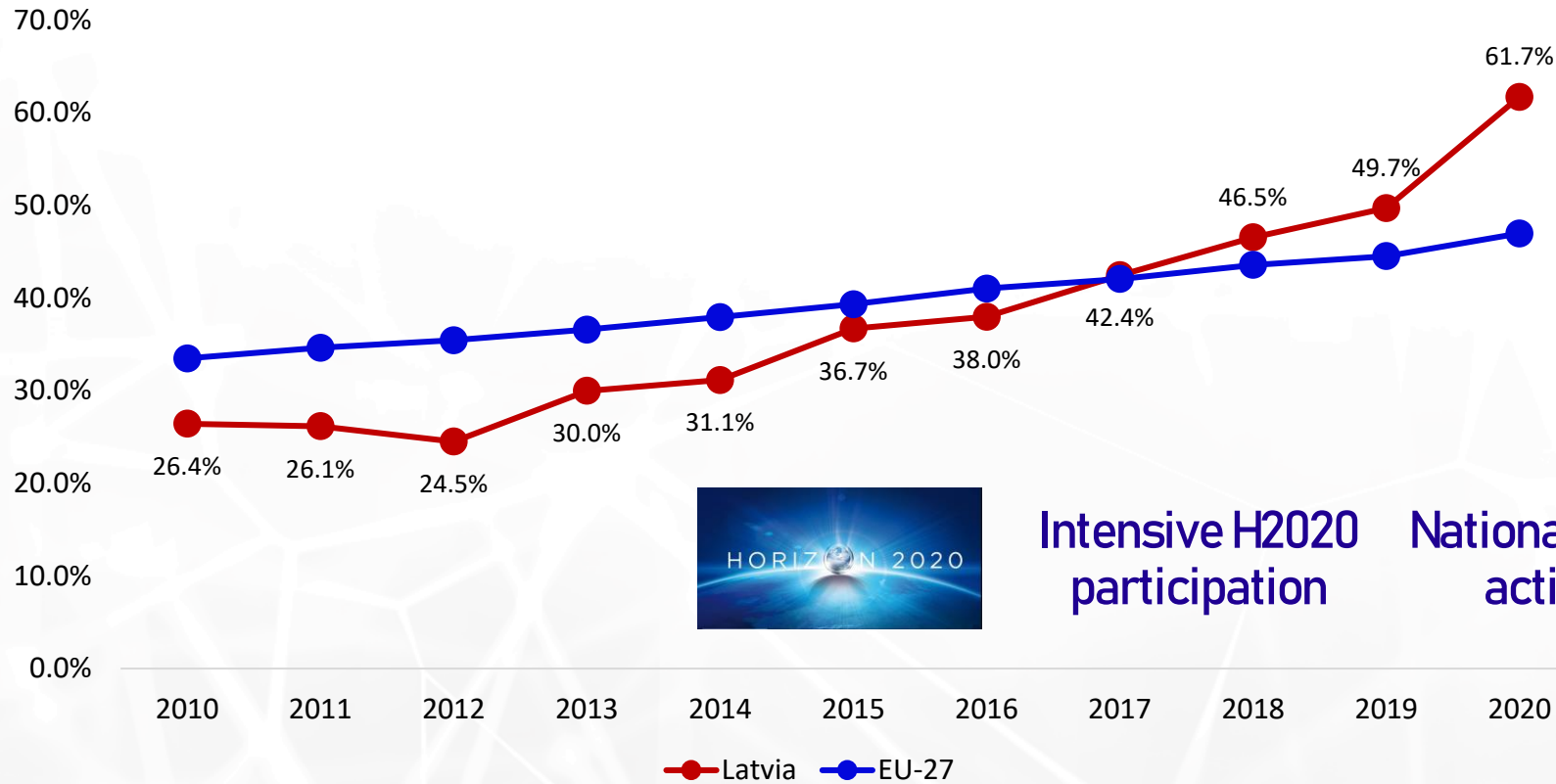
Communication

- Clear and simple **Communication strategy**
- Main objective – to target audiences and inform them about Latvia's cooperation with CERN, as well as opportunities to expand involvement in CERN programmes
- Channels - conventional and social media (university, institute, contact point)
- CERN National Contact Point webpage - <https://www.lzp.gov.lv/en/national-contact-point-cern>
- CERN «ambassadors»
- Use of **#LatvijaCERN**



Increased integration and collaboration with international partners

Research international collaboration intensity (% of total publications) (Web of Science)



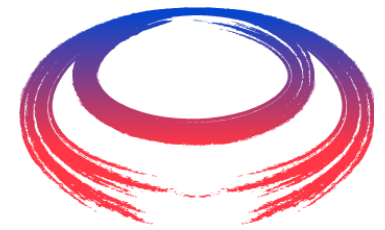
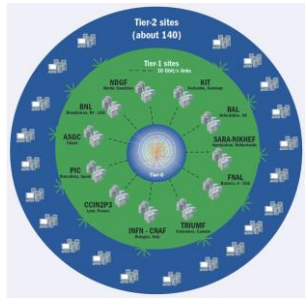
Intensive H2020 participation

National support activities



In Last 3 years – Increased participation in international consortiums, projects and other activities

CERN and beyond



Latvia @ CERN

USER, COAS, PJAS, DOCT, FELL, GRAD - data from 25/08/2023

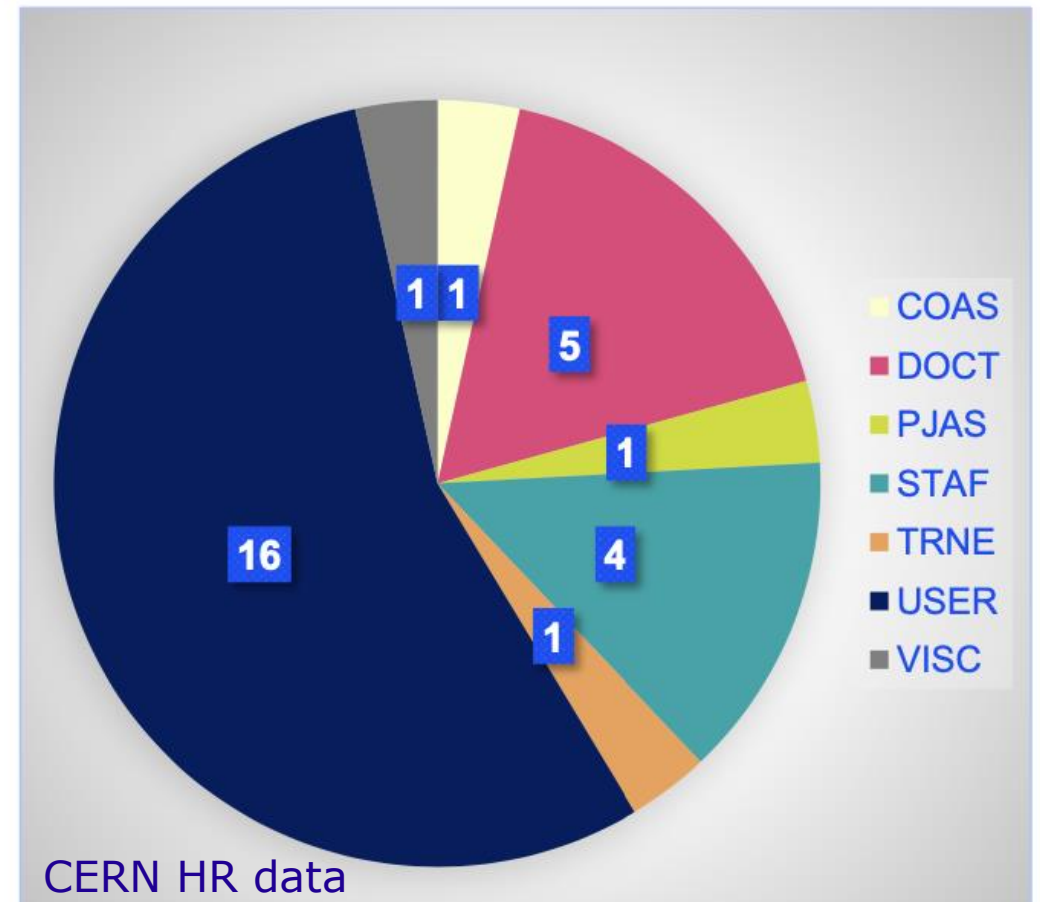
- CMS – the main experiment Latvia strong high energy physics group
- Latvia Accelerator Technology Group @CERN
- Antihydrogen Experiment - AEGIS
- MEDICIS group @ CERN

Fully integrated with CERN:

- *CERN-Latvia doctoral programme*
- *CERN Doctoral Programme*
- *Summer Student programme*
- *Technical Student programme*

+ numerous study/exchange visits to CERN (2-3 m)

Latvian Members of Personnel: 29



Estimated timeline for full membership

2023 2nd half

Application for Associate Member State in the pre-stage to Membership

2024

CERN visit to Latvia, to access compliance with pre-stage

CERN invitation to Latvia

2024/2025

Cabinet of Ministers decision about application

CERN decision

2025

- Signature of pre-stage Agreement
- Saeima ratifies law on Agreement
- Latvia becomes Member State in the pre-stage to Membership of CERN

2027

Completion of the full cycle Latvia becomes Member State of CERN



Latvia - CERN Stakeholders Group

Encompassing all relevant stakeholders - platform for engagement and exchange
<https://indico.cern.ch/category/11669/>

- 13 **regular meetings** since Nov 2019
- Organised by CERN **National Contact point**
- All **relevant** research institutions, business entities and associations, related ministries and agencies, CERN Council Delegates and ILO
- **Informing** stakeholders about the relevant CERN-based and CERN-related activities
- Directly supporting the stakeholders' **engagement** with CERN
- Managing the information **exchange** and **collaboration** vis-à-vis CERN and the stakeholders

CERN Baltic Group

[Create event ▾](#)[Navigate](#)[Parent category](#)

This is a group of Latvian, Estonian and Lithuanian research institutions which are involved in CERN activities. The group is designed to meet regularly and to coordinate activities between Baltic countries and CERN.

The main objectives of the CERN Baltic Group are:

1. Coordination of the Baltic research institutions activities towards CERN and related Collaborations/experiments
2. Strengthening and development of Baltic High Energy Physics community
3. Development of the Baltic international multidisciplinary masters/doctoral level study programme in High Energy Physics and Accelerator Technologies

The main principles of the CERN Baltic Group are: **transparency, honesty, sharing and collaboration**

Members:

1. Riga Technical University (RTU) - Latvia
2. University of Latvia (UL) - Latvia
3. Tallinn University of Technology (TalTech) - Estonia
4. National Institute of Chemical Physics and Biophysics (NICPB) - Estonia
5. Vilnius University (VU) - Lithuania
6. Riga Stradins University (RSU) - Latvia
7. University of Tartu (UT) - Estonia
8. Kaunas University of Technology (KTU) - Lithuania
9. Vytautas Magnus University (VMU) - Lithuania
10. Ventspils University of Applied Sciences (VU), Latvia
11. Lithuanian Energy Institute (LEI), Lithuania
12. Daugavpils University (DU), Latvia
13. Lithuanian University of Health Sciences (LUHS), Lithuania
14. National Cancer Institute (NCI), Lithuania

Managers

- Ants Koel
- Aurelijus Rinkevicius
- Brigita Abakeviciene
- Brigita Abakeviciene
- Karlis Dreimanis
- Toms Torims

Materials



There are no materials yet.



From the job «shadow» to the PhD





Take away message

Latvia is reliable and honest partner

We can contribute with our knowledge and experience in the regional and global outreach

CERN Baltic Group has 14 major Baltic institutions

We are comfortable with the different cultural codes

Thank you!

Prof. Toms Torims
CERN National Contact Point in Latvia
cern.nkp@rtu.lv

