FICORE
Finnish Indian Consortia for Research and Education

Webinar on Funding Landscape for India Collaboration – EU, Finland and India contexts

15.2.2022

Organized by, Finnish Indian Consortia for Research and Education (FICORE)

The answers for questions from the speakers and the slides will be posted in, Aalto webpages and in FICORE website (ficore.aalto.fi currently under construction)

Kit Srinivasan kit.srinivasan@aalto.fi

Programme

FICORE Spotlights!
Webinar on Funding Landscape for India Collaboration – EU, Finland and India contexts

11.00 EET **Welcome**
Kit Srinivasan, Coordinator , FICORE, Aalto University

11.05 EET **Finnish approach for collaboration with India – Highlights**
Dr. Mika Tirronen, Counsellor of Education and Science, Embassy of Finland, New Delhi

11.10 EET **Science & Technology Cooperation from India**
Dr. Rajiv Kumar, Scientist, Dept. of International Cooperation, Ministry of Science and Technology, India

- STI Policy of India
- Information about DST (Department of Science and Technology)
- Indian Schemes for Overseas Researchers
- VAJRA
- GIAN
- Ramanujan Fellowships
- Ramalingaswamy Fellowships
- National Post Doctoral Fellowships

11.30 EET **Scheme for Promotion of Academic and Research Collaboration (SPARC)**
Dr. Virendra Kumar Tewari, Director, IIT Kharagpur

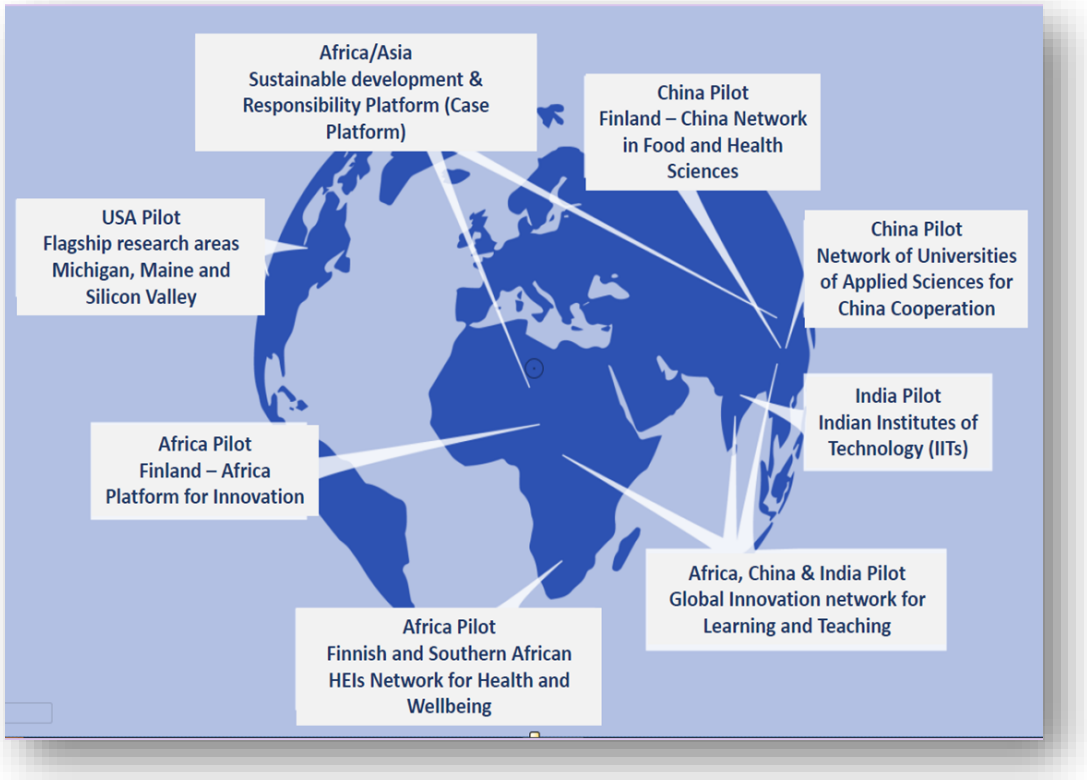
11.40 EET **EU funding tools for India collaboration**
Dr. Samrat Kumar, Country Coordinator, EURAXESS India - *Researchers in Motion*

12.00 EET **Current programmes from Finland for India collaboration**
- How Academy of Finland supports India collaborations (5 mins), Ulla Ellmén, Science Adviser (mobility), Academy of Finland
- TFK mobility funding, EDUFI Fellowships and Erasmus+ opportunities (15 min), Sofia Lähdeniemi, Programme Manager and Mari Pohjola, Senior Programme Adviser, Finnish National Agency for Education

12.20 EET **Sustainability of Indo-Finnish research collaborations with potential partners in India**
Dr. Antti-Pekka Hyvärinen, Senior Research Scientist, Head of Unit: Atmospheric Composition, Finnish Meteorological Institute (FMI)

12.30 EET **End of programme**

FICORE



Global Programme Pilots – Part of a 160 million Euro International Programme from the Finnish Ministry for Education and Culture. 8 Pilot Networks in Africa, China, India and the USA for 2020-2024

- A network of higher education institutions from Finland and India collaborating in diverse fields of science and technology
- Current partners; 23 IITs and 15 Finnish HEIs
- Key aim is to enhance the global dimension of Finnish HEIs in their strategies and promote excellence in key research areas together with Indian partners.
- FICORE works close in collaboration with two other Finnish networks engaging with India namely, EDUcase – A Higher Education Platform for Global Sustainability and GINTL - Global Innovation Network for Teaching and Learning.

Finland-India Collaboration in Education & Research

- Prime Ministers' virtual meeting in March 2021
  - Digitalization partnership
    - 5G-6G, Quantum Tech, AI
  - Sustainability partnership
    - Air Quality, Energy, Water
  - High Level Dialogue on Education
    - Higher Education
    - School Education (ECE, teacher training, skills, digital)
- Three university networks:
  - FICORE, GINTL, EduCase

Dr. Mika Tirronen, Counsellor of Education and Science, Embassy of Finland, New Delhi

SCIENCE & TECHNOLOGY COOPERATION FROM INDIA

Rajiv Kumar
Department of Science & Technology
Ministry of Science & Technology
Govt. of India

This presentation includes:

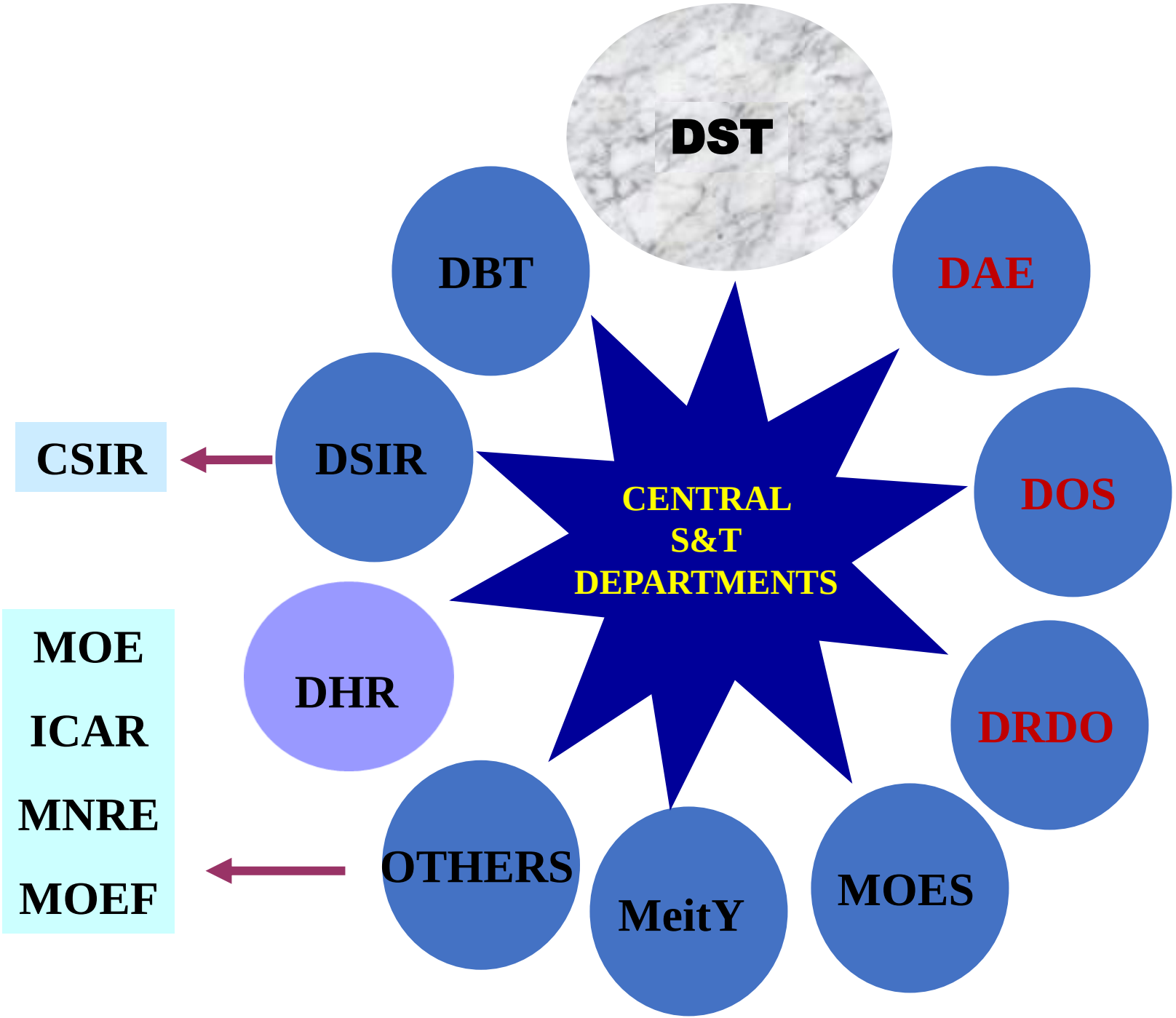
- Science Policy of India
- Information about DST
- Indian Schemes for Overseas Researchers

Guiding Principles in STI

- ✓ Science with a ***human face*** that serves the common man and promotes equitable and sustainable development of India.
- ✓ Create an ***ecosystem of fundamental research*** as a pathway for technology development and innovation.
- ✓ Harness, ***attract*** and provide opportunities to the ***best brains*** for undertaking scientific research and innovation as career choice.
- ✓ Create ecosystem for ***inter-disciplinary res*** and ***establish IPR regime*** which maximizes incentive for generation and protection of innovation.
- ✓ Leverage S&T to ***bridge disparities between urban and rural divide*** with focus on affordable technologies for economic development.
- ✓ Incentivize ***private sector investments*** (both domestic & foreign) in high end R&D to foster innovation and techno-entrepreneurship.
- ✓ Encourage ***research & innovation*** through interaction between private and public institutions in areas of societal and economic relevance.
- ✓ ***Strategic partnerships and international alliances*** for value addition to national programs and missions.

India's Recent Progress In Science: Some Indicators

- **3rd rank** in the world in terms of **total number of publications**
- **3rd -4th rank** in publications in **Nanotechnology / Materials/Chemistry/ Engineering**
- **Annual growth rate** of **publications** is **@ 14%** compared to **~4%** of global
- **3rd** in **number of startups**
- **Global Innovation Index Rank 46th** in 2021
- Working on **Ease of Doing Research**
- **10th spot in the No of patents** filed
- **12th rank in the quality of research**


DST
DBT
DAE
DSIR
CSIR
CENTRAL
S&T
DEPARTMENTS
DOS
DHR
DRDO
MOE
ICAR
MNRE
MOEF
OTHERS
MeitY
MOES

Department of Science & Technology
Vision Component: Focus

- **Enhancing *Quality* and *Relevance of R&D***
- **Translation: Technology, Innovation to Market**
- **Connecting Academia, R&D Labs, Industry, Startups, MSMEs, Ministries**
- **Societal Connect & Contract: Science for People, People for Science**
- **Diversity & Inclusion (*Young, Women, Rural, etc*)**
- **Aligning S & T with National priorities**
  - ***Water, Energy, Environment, Transport, Health, Manufacturing, Waste Processing, etc***

Department of Science & Technology
Vision Component: Focus

- Science Communication
- Technologies for Rural Empowerment
- Reversing Brain Drain to Brain Gain
- Bringing the Best of Global Science & Scientists to India
- Securing our Technology Future

Securing India's Future

5 Major Technology Missions

1 **Cyber-Physical Systems (2019)**
AI; ML; Data; IoT; Industry 4.0; 5G +
Sectors (agri, health, education, transport..

20 Hubs; 20 Incubators; 4 Research Parks; 400 Startups; 200 Technologies; 12000 High End Skills; 200000 Tech Jobs

2 **Electric Mobility Mission (2020):**
Focus on Tropical and Disruptive Technologies **(with CSIR)**

- ✧ **New Batteries; Motors; Power Electronics; Charging**
- ✧ **50:50 Public-Private Partnership**
- ✧ **Hubs; Technology; Testbeds; Pilot Plants; Road Tests**

3 Quantum Science & Technology (2022-25)

Technologies in Quantum Communication (150 miles; Ground to Satellite), Computing (50 Qubit) and Technologies/Devices (1000); Human Resources (14000); Startups (1000) (with MeitY; DRDO; ISRO)

4 Clean Fuels: Methanol Mission (2021-24)

Catalysts & Pilot Plants: 100 tpd Methanol From Coal and Biomass; Use upto 100% in locomotives, marine engines, DG Sets (With NITI Aayog, DBT, CSIR)

5 Map India (2019-2022)

High Resolution Topographic database; GIS Map at 1: 500 (SoI; with State Governments; GoI Ministries)

India's Inter-governmental S&T arrangements

सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India

Asia

- Bangladesh
- Bhutan
- Iran
- Israel
- Japan
- Korea South
- Maldives
- Myanmar
- Nepal
- Russia
- Singapore
- Srilanka
- Thailand
- Vietnam

North America

- Canada
- Mexico
- USA

South America

- Argentina
- Brazil
- Chile

Europe

- Austria
- Belarus
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Finland
- France
- Germany
- Hungary
- Iceland
- Italy
- Netherlands
- Norway
- Portugal
- Romania
- Slovenia
- Spain
- Sweden
- Switzerland
- Ukraine
- UK

Australia

- Australia
- New Zealand

Africa

- Ethiopia
- Rwanda
- South Africa
- Tunisia
- Egypt

Multilateral & Regional Frameworks

- European Union (EU)
- BRICS
- India-ASEAN
- BIMSTEC
- SAARC
- UNESCO/UNCSTD
- TWAS/ ICTP
- IOR-ARC

Major Projects

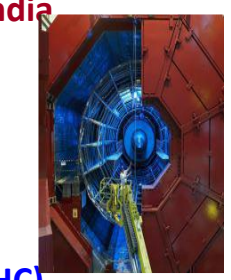
CERN, KEK
FAIR, SKA
TMT, NLST
LIGO,INO

Mega Facilities for Basic Research

सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India

Facilities Being Established

- Facility for Antiproton and Ion Research (FAIR) in Germany (Completion: 2025-26)
- Thirty Meter Telescope (TMT) in USA (Expected Completion: 2033-34)
- India-based Neutrino Observatory (INO) in Tamil Nadu, India (Intermediate stage: 2022-23)
- 3rd Laser Interferometer Gravitational-wave Observatory in Maharashtra, India (2026-27)
- Square Kilometre Array (SKA) in Australia and South Africa (Upcoming Facility)
- National Large Solar Telescope (NLST) in Ladakh, India (Upcoming Facility)

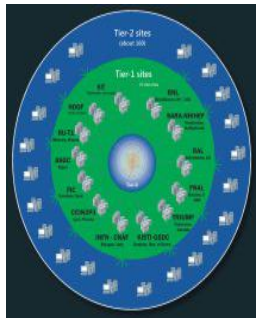


Facilities Being Utilized

- Indian Participation in CMS and ALICE Experiments at Large Hadron Collider (LHC), European Organization for Nuclear Research (CERN), in Geneva (Since 2009-10)
- Utilization of Twin Beamlines (XRD2 and XPRESS) by Indian Researchers at Elettra Sincrotrone in Italy (Since 2016-17)
- Utilization of Low-Energy Accelerators by Indian Researchers at Kurukshetra and Prayagraj, India (Since 2016-17)
- Indian Participation in the Ongoing Neutrino Experiments at Fermilab, USA (Since 2012-13)

User Scientific Community

- 150+ Institutions including Universities, NITs/IITs/IISER/NISERs, R&D Labs
- 400+ Scientists and 300+ PhD Students



Bilateral ST&I Cooperation

Ministry of Science & Technology, Govt. of India

Department of Science & Technology
Department of Biotechnology

&

Ministry of Employment and the Economy, Govt. of Finland

Business Finland

Academy of Finland

Indo-Finnish S&T Cooperation

S&T Agreement was concluded on 25th March 2008

MoU with Academy of Finland

MoU with Tekes in 2009

with Business Finland in 2019

So far Four Joint Committee meetings held

Last meeting held Virtually in November 2020

Indo-Finnish S&T Cooperation

Joint Projects supported in Green Chemistry, Nano Materials and Renewable Energy under calls between DST-Academy of Finland

Mobility of Researchers supported by DST & AF in 2019

Last JCM identified:

- ***Quantum Computing***
- ***Sustainability***
- ***5G / 6G***

for joint collaboration

Initiatives for Overseas Researchers

- VAJRA
- GIAN
- SPARC
- Ramanujan Fellowships
- Ramalingaswamy Fellowships
- National Post Doctoral Fellowships

VAIBHAV

PRABHASS

Visiting Advanced Joint Research Faculty Scheme (VAJRA)

- VAJRA Faculty Scheme is to bring a strong international connect to the R&D ecosystem of India.
- The scheme offers adjunct / visiting faculty assignments to overseas scientists, faculty members and R&D professionals including Non-resident Indians (NRI) and Overseas Citizen of India (OCI) to undertake high quality collaborative research in Public funded academic and research Institutions of India.
- VAJRA Faculty will engage in collaborative research in cutting edge areas of science and technology including interdisciplinary areas of priority such as energy, water, health, security, nutrition, materials and manufacturing, etc. with one or more Indian Collaborators.
- VAJRA Faculty is expected to co-guide research students and may also be involved in technology development, innovation, start ups, etc

VAJRA award

- The Faculty will work for minimum of 1 month and a maximum of 3 months a year in an institution in India.
- The VAJRA Faculty will be provided a lump-sum amount of US $ 15000 in the first month of engagement in a year and US $ 10000 pm in the other two months to cover their travel and honorarium.
- While no separate support is provided for e.g. accommodation, medical / personal insurance etc. the host institute may consider providing additional support.
- The payment to the faculty will be made in Indian Rupees.

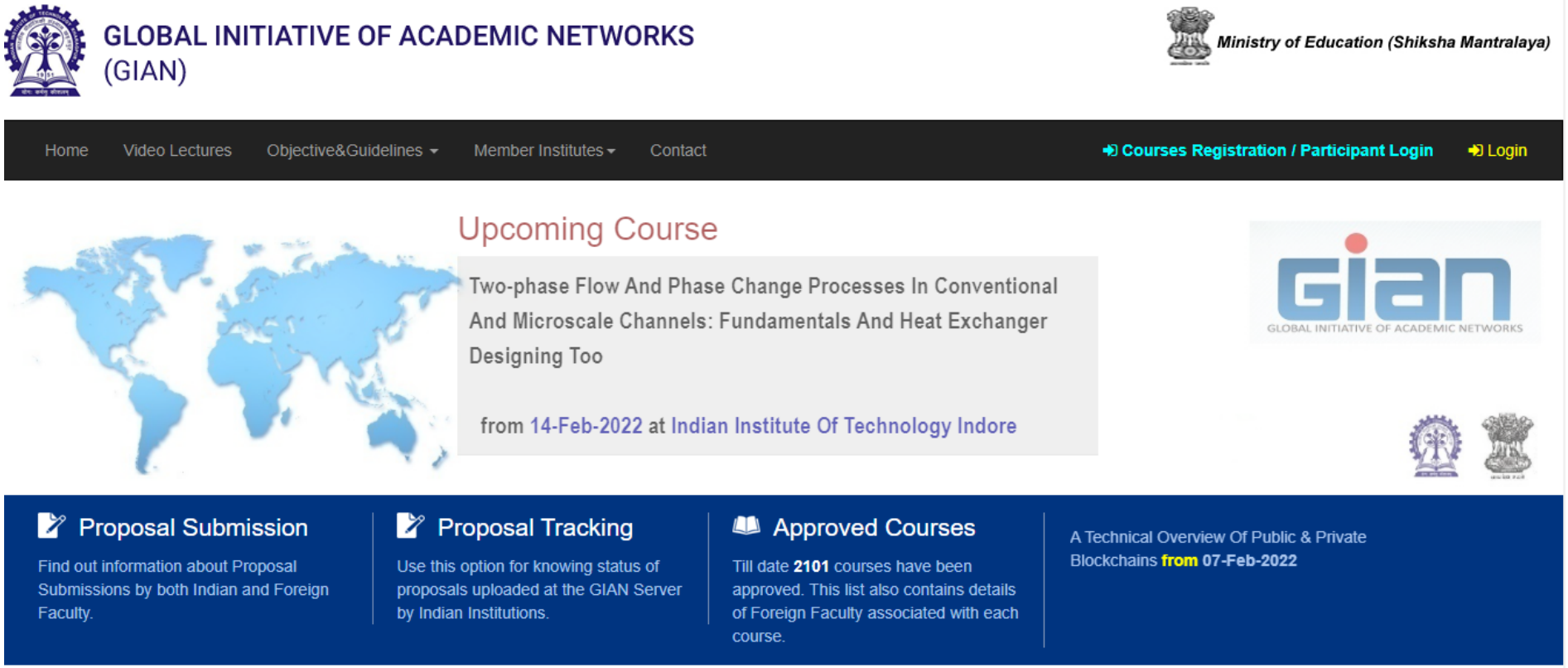
Host Institute

- Public funded academic institutions and national laboratories.
- Should provide laboratory space and other required facilities, appoint them as Adjunct / Visiting Faculty and involve them in co-guiding and mentoring of students and developing collaborative programmes.
- The Faculty can also participate in other academic activities as agreed to by the host institution and the Faculty.
- The host institute will facilitate the clearance of the Visa application of the Faculty with permission to work in India for specific duration of time.

Overseas Faculty

- Carry out research of the highest standard in close coordination with the researchers of the host institution.
- While the primary role is research as outlined in the proposal, the VAJRA Faculty can undertake other activities like teaching etc. Should have his/her own medical/personal insurance cover.

URL: www.vajra-india.in



Initiative for participation of foreign faculty as Distinguished / Adjunct / Visiting faculty / Professors of Practice, etc. in delivering Short or Semester-long Courses

URL: https://gian.iitkgp.ac.in

Who Can apply

- For Indian applicants: The proposal submission is by invitation only. The local coordinator for GIAN of your Institute will send invitation to course coordinator/host faculty.
- For foreigners: Foreign faculty/experts from academic Institution, research organisation and Industry are welcome to participate in the GIAN program. They can either submit a course proposal in or send their expression of interest to take part as International faculty to the National Coordinator, GIAN

Eligible host Institutes

- All Government (State or Central) higher education Institutions / University which are in top 200 in NIRF overall rankings and having at least NAAC ‘A’ grade (3.0 and above).

The Scheme for Promotion of Academic and Research Collaboration (SPARC)

URL: https://sparc.iitkgp.ac.in

Ramanujan Fellowships

- Meant for brilliant Indian scientists and engineers from outside India to take up scientific research positions in India.
- Could work in any of the scientific institutions and universities in the country.
- Eligible for receiving regular research grants through the extramural funding schemes.

Eligibility

- Indian scientists and engineers working abroad below the age of 40 years.
- Ph.D. in Science/ Engineering, Masters in Engineering or Technology/ MD in Medicine, etc. and have adequate professional experience.
- Only for those scientists who are not holding any permanent/ tenure track/ contractual position in any Indian Institute/ University

Nature of Support

- Fellowship will be Rs. 1,35,000/- per month (consolidated).
- Research grant of Rs.7.00 lakh per annum and Rs.60,000/- per annum as overhead charges.
- Duration For five years, and not extendable.

General conditions

- Nominations received through out the year.
- Nominations should not be from PhD guide.
- Could join any academic or research institute, except the one from where PhD was obtained.
- http://serb.gov.in/rnf.php

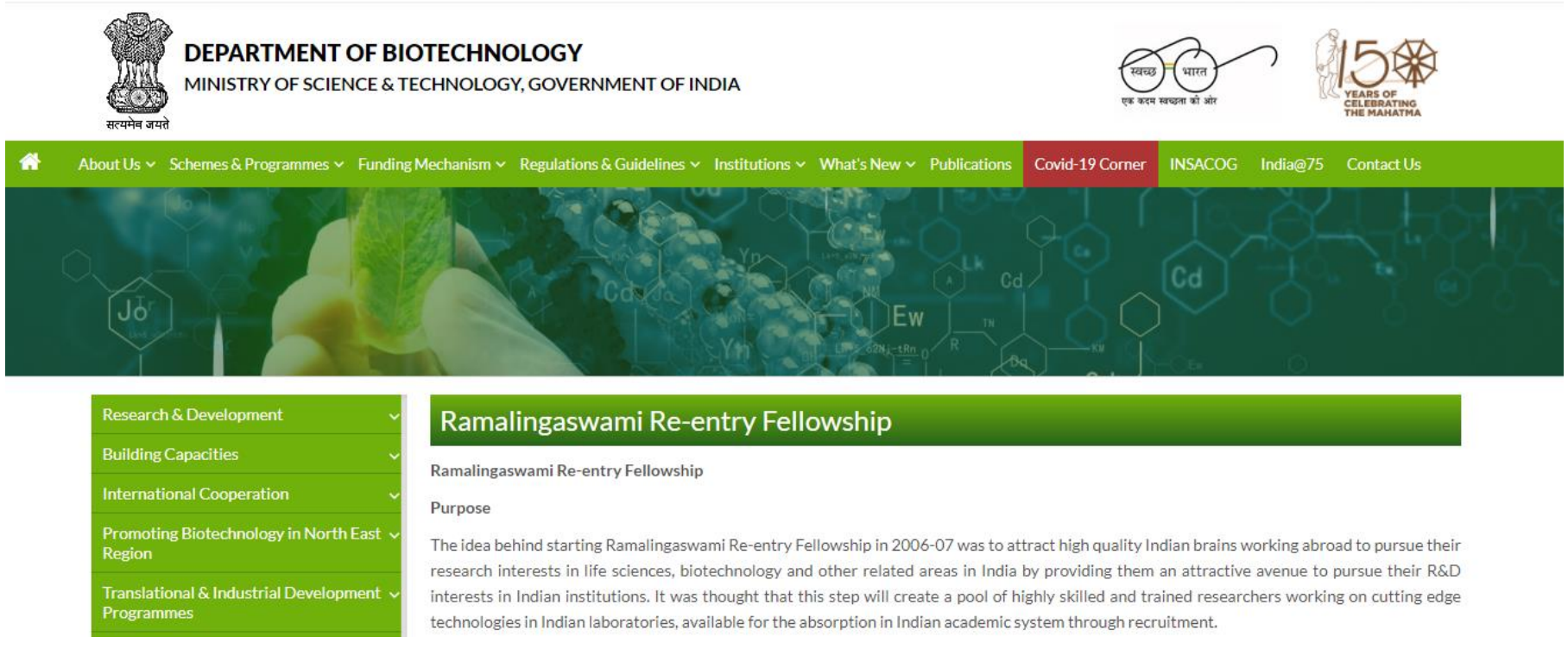
Ramalingaswami Re-entry Fellowship

- For Indian Nationals who are working overseas in various fields of biotechnology, life sciences, bio-engineering, health care (human and animal), agriculture and veterinary biotechnology, bio- energy and allied areas and are interested in taking up scientific research positions in India.
- Should possess a Ph.D/MD degree with at least three years of post-doctoral research experience in overseas research laboratories.
- Upper age limit for applying is 45 years
- Duration 5 years + 2 years

Nature of Support

- Fellowship Rs.1,00, 000/- (consolidated) per month + HRA @ Rs. 18,500 p.m. consolidated
- And a research grant.

More details : www.dbtindia.gov.in



National Post Doctoral Fellowships

- To identify motivated young researchers and provide them support for doing research in frontier areas of science and engineering. The fellows will work under a mentor, and it is hoped that this training will provide them a platform to develop as an independent researcher.
- The fellowship is purely a temporary assignment, and is tenable initially for a period of 2 years.
- Upper Age limit 35 years
- Rs. 55,000/- per month (consolidated) and Rs. 35,000/ p.m for candidates who have submitted the thesis but degree not awarded
- Research Grant Rs. 2,00,000/- per annum
- Institute Overhead Rs. 1,00,000/- per annum
- More details https://www.serbonline.in/SERB/npdf?HomePage=New

Thank You

For further queries,

could be reached at

www.dst.gov.in

I could be reached at

rajivarc@nic.in

The Scheme for Promotion of Academic and Research Collaboration (SPARC)

An initiative from the Ministry of Education, Government of India

सत्यमेव जयते

SPARC
Scheme for Promotion of Academic and Research Collaboration

National Coordinator

Professor V.K. Tewari
Director, IIT Kharagpur
The National Coordinator of SPARC

Amis and Scope:

(i) Arts & Humanities
(ii) Engineering & Technology
(iii) Life Sciences & Medicine
(iv) Natural Sciences
(v) Social Sciences and
(vi) Law & Legal studies

Major Activities and deliverables:

- Visits and long-term stay of top international faculty / researchers
- Visits by Indian academicians and students
- Joint development of niche courses, world-class books and monographs, translatable patents, demonstrable technologies or action research outcomes and products

Progress made so far: SPARC Phase-I projects

- **317 foreign faculty visits in India**
- **78 Indian faculty visits to abroad**
- **126 Indian student visits** abroad
- **29 foreign student visits to India**
- **133 workshops** organized either in-presence or via online-mode. A total of **12,912 students and scholars** attended those workshops.
- **48 monographs** published.
- **350** tangible outcomes reported in forms of **journal publications** and **conference proceedings.**
- **Six patents filed**

Notable contributions

- **Healthcare:** Detection and treatment of lung cancer (ML based detection), diabetic treatment.
- **Agriculture:** Robot monitoring of crop conditions, improving seed standards for crop, climate adaptation, biomass conservation.
- **Energy and Environment:** Development of H-storage materials, battery research, reducing C-footprint in industrial processes.
- **Society:** Mobile interactive education system for safety of Indian woman and infants
- **Other areas:** Next generation data-processing systems, exploration of ore deposits, ‘astrochemistry’.

As the National coordinator of the SPARC Programme, IIT Kharagpur expresses sincere gratitude to all the participating Institutions and all stakeholders and facilitators involved with this scheme, and particularly the Ministry of Education for showing the direction to make a programme a great success in serving and fulfilling some of the National requirements.

Thank you

Horizon Europe (2021-2027// €95.5 Billion – the largest R&I programme in the world

Dr. Samrat Kumar, Country Coordinator, EURAXESS India - *Researchers in Motion*

International cooperation in Horizon Europe - Main features

General openness to international participation

- Entities from all over the world can take part in collaborative R&I projects
- Researchers and innovators of any nationality can apply for grants
- Entities from most low-middle income countries are automatically eligible for funding

Targeted international cooperation actions

- Actions specifically relevant for international cooperation
- Targeted actions with key partners on specific thematic areas

European Commission

Horizon Europe structure

Pillar I
EXCELLENT SCIENCE

- European Research Council
- Marie Skłodowska-Curie
- Research Infrastructures

Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

6 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

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

- Widening participation & spreading excellence
- Reforming & Enhancing the European R&I system

euraxess RESEARCHERS IN MOTION

European Commission

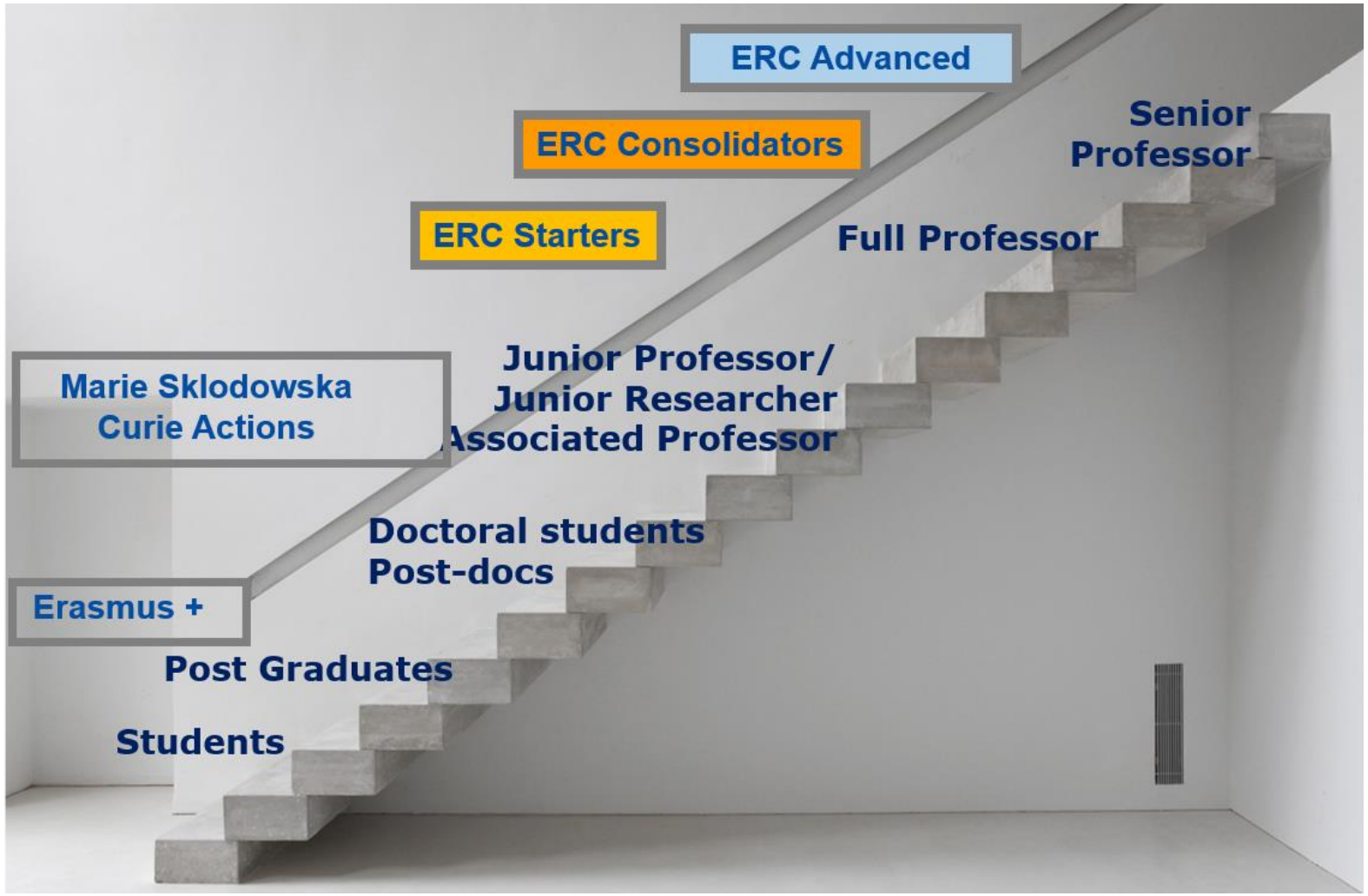
Pillar 2 – Global Challenges and European Industrial Competitiveness

- **A consortium must include at least 3 participants from 3 different EU Member States or Associated Countries**
  - At least one independent legal entity established in a Member State; and
  - At least two other independent legal entities, each established in different Member States or Associated Country
  - In addition, entities from other countries (e.g. India) could be included in a consortium. However, not automatically eligible for funding under Horizon Europe. Therefore:

    →Own funding (at Institutional level; contribution in-kind)

    →Co-funding from Government of India (for bottom-up participation and joint or coordinated call): discussions on Co-Funding Mechanism ongoing/no Co-funding mechanism yet.

Pillar 1 - Excellent Science – MSCA & ERC



Marie Skłodowska-Curie Actions

The EU's flagship mobility research programme

euraxess
RESEARCHERS IN MOTION

European Commission

MSCA 2021-2027

1. MSCA Doctoral Networks → *networks training PhD candidates*
2. MSCA Postdoctoral Fellowships → *postdoctoral researchers*
3. MSCA Staff Exchanges → *any type of research(-related) staff*
4. MSCA COFUND → *co-funding for training programmes*
5. MSCA and Citizens → *public outreach events*

euraxess RESEARCHERS IN MOTION

European Commission

Marie Skłodowska-Curie Actions

Staff Exchanges

Objectives

- International, inter-sectoral and interdisciplinary mobility of R&I staff (“secondments”)
- Knowledge transfer between participating organisations
- Collaboration between the academic and non-academic sectors (including SMEs)
- Cooperation across the globe

European Commission

Marie Skłodowska-Curie Actions

under Horizon Europe

Doctoral Networks

Doctoral programmes in and outside academia incl. joint & industrial doctorates

Marie Skłodowska-Curie actions

euraxess RESEARCHERS IN MOTION

European Commission

Objectives

Implement doctoral programmes by **partnerships of organisations from different sectors across Europe and beyond** to train highly skilled doctoral candidates, stimulate their creativity, enhance their innovation capacities and boost their employability in the long-term.

Who can apply?
Open to **international consortia** of universities, research institutions, businesses, SMEs and other non-academic organisations. They should include:

• at least **three independent legal entities**, each established in a different EU Member State or Horizon Europe Associated Country and with at least one of them established in an EU Member State

• on top of this minimum, **other organisations from any country in the world can also join**

• specific conditions apply to Industrial and Joint Doctorates

Horizon Europe
Marie Skłodowska-Curie Actions

Postdoctoral Fellowships

euraxess
RESEARCHERS IN MOTION

European Commission

Type of Postdoctoral Fellowships

- **European Postdoctoral Fellowships** * :

  Coming to Europe from any country in the world or moving within Europe

Global Postdoctoral Fellowships:

Outside EU Member States and Horizon Europe AC to any Third Country.

* **Widening activities**: "ERA Fellowships" will be aligned with the MSCA Postdoctoral Fellowships call

The European Research Council

European Research Council
Established by the European Commission

INDIVIDUAL RESEARCHERS
FROM ALL OVER THE WORLD

LONG TERM
GRANTS

TO HIGH-RISK/HIGH-GAIN PIONEERING PROJECTS
IN ANY FIELD OF FRONTIER RESEARCH

- Life Sciences
- Physical Sciences and Engineering
- Social Sciences and Humanities

euraxess
RESEARCHERS IN MOTION

European Commission

ERC funding schemes

Starting Grant

Size of the grant: up to €1.5 million + up to €1 million

Duration: up to 5 years

2-7 years of experience since completion of their PhD

Consolidator Grant

Size of the grant: up to €2 million + up to €1 million

Duration: up to 5 years

7-12 years of experience since completion of their PhD

Advanced Grant

Size of the grant: up to €2.5 million + up to €1 million

Duration: up to 5 years

An excellent scientific track record of recognized achievements in the last 10 years

euraxess RESEARCHERS IN MOTION

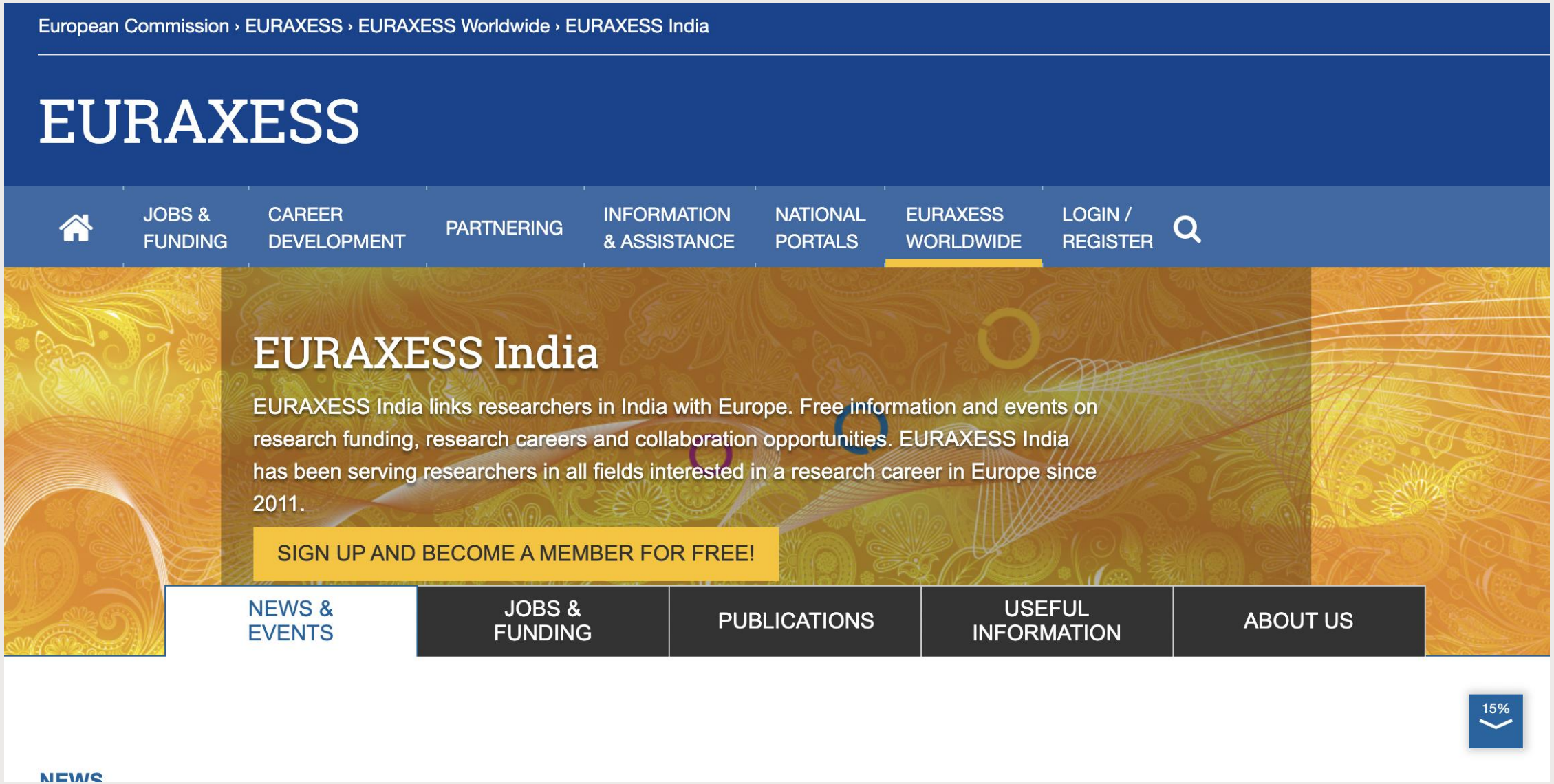
European Commission

- **Synergy grant**
- Size of the grant: €10 million + up to €4 million
- Duration: up to 6 years

Be composed of 2 to 4 researchers and their research groups (**one researcher can be based outside EU/AC)**

- **Proof of Concept**
- Size of the grant: €150 000
- Duration: up to 18 months

Demonstrate that the idea funded by the original ERC grant has innovation potential and significant economic or societal benefits



euraxess RESEARCHERS IN MOTION

European Commission

REGISTER @

india.euraxess.org

Email:

india@euraxess.net

@EuraxessIndia

@EuraxessLinksIndia

@linkedin.Euraxess.org

Thank you!

Dr. Samrat S. Kumar,

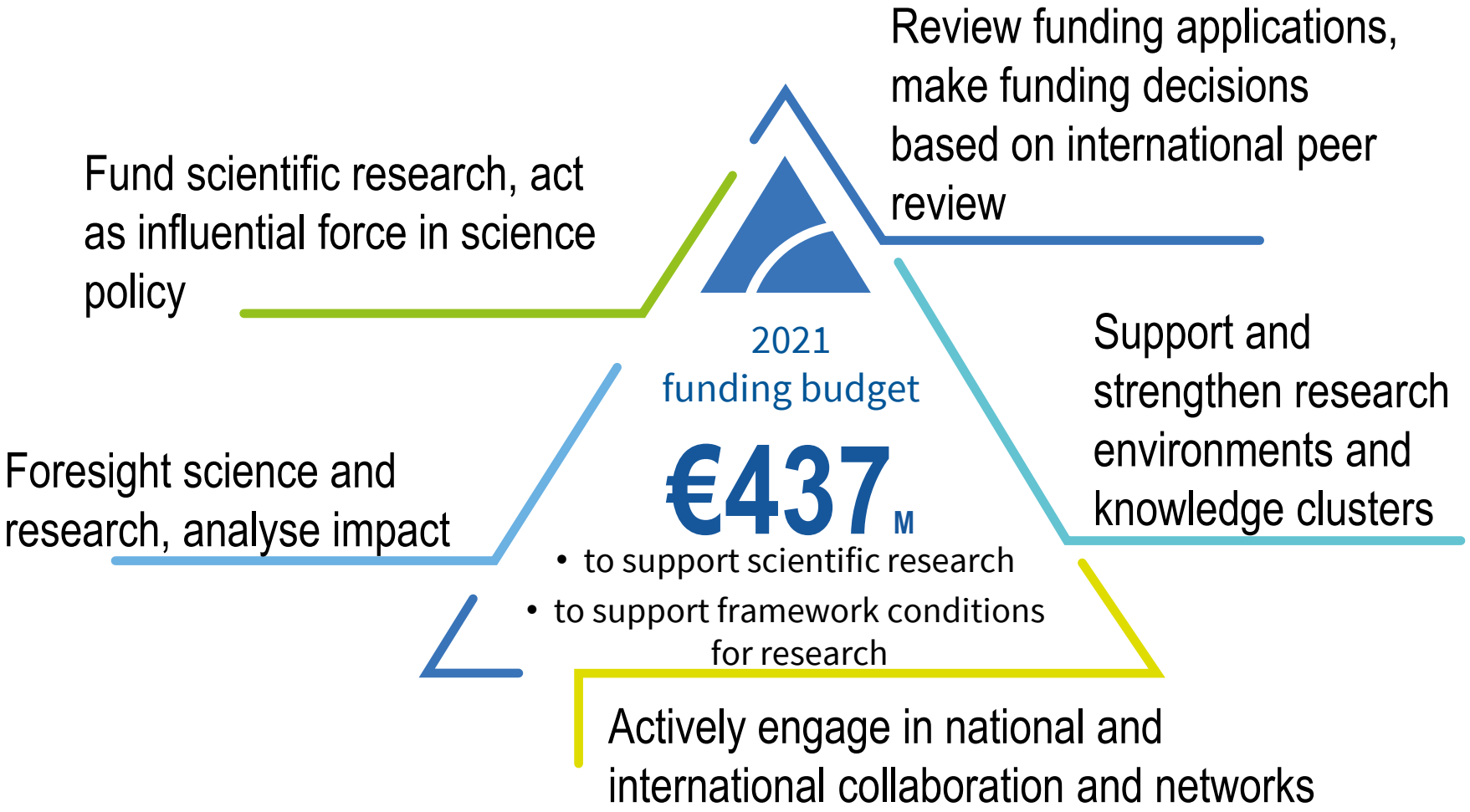
Country Coordinator India

How Academy of Finland supports India collaborations? 15.2.2022

ACADEMY OF FINLAND

Ulla Ellmén, Science Adviser (mobility), Academy of Finland

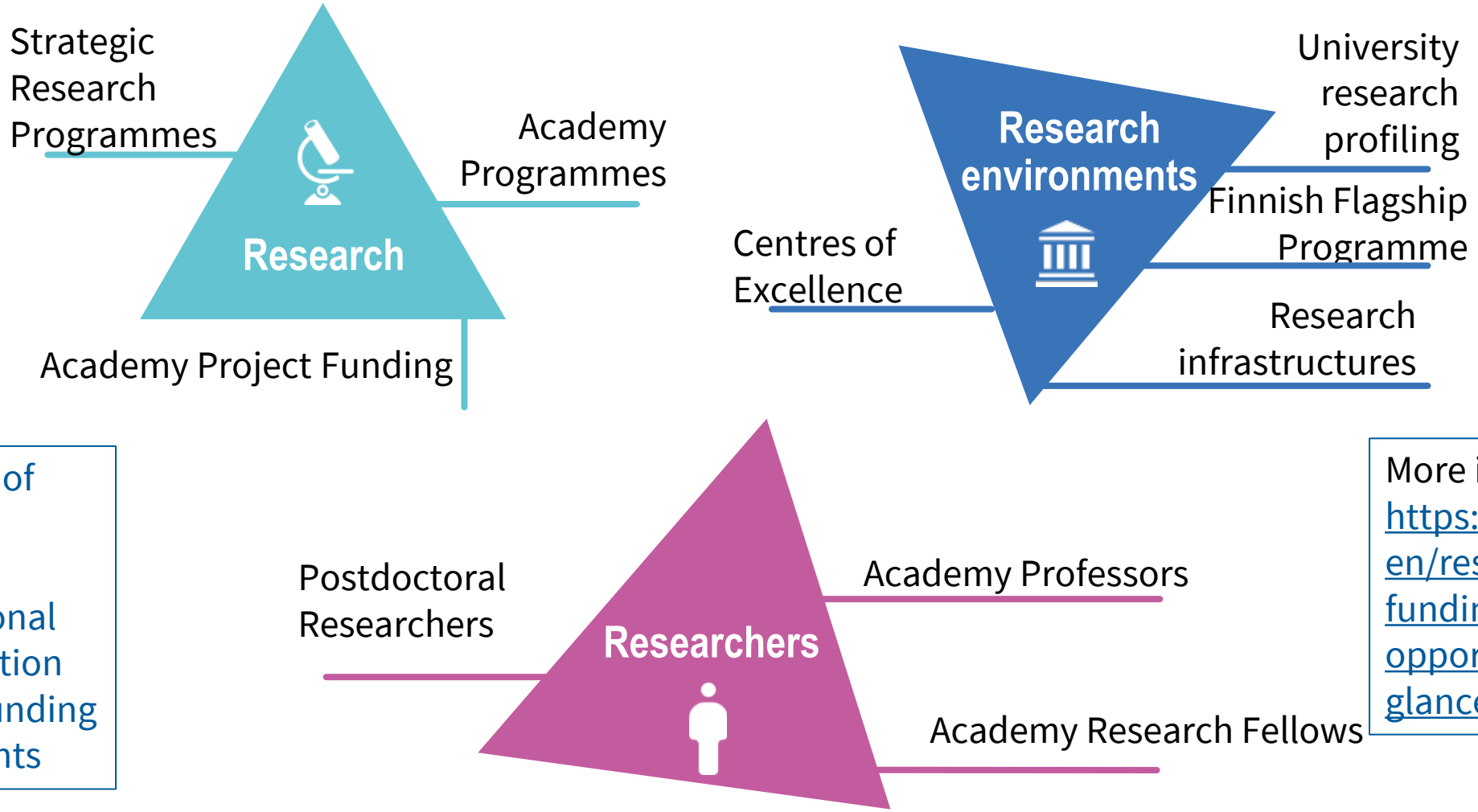
Academy of Finland



More information: www.aka.fi

ACADEMY OF FINLAND

Academy of Finland's funding opportunities

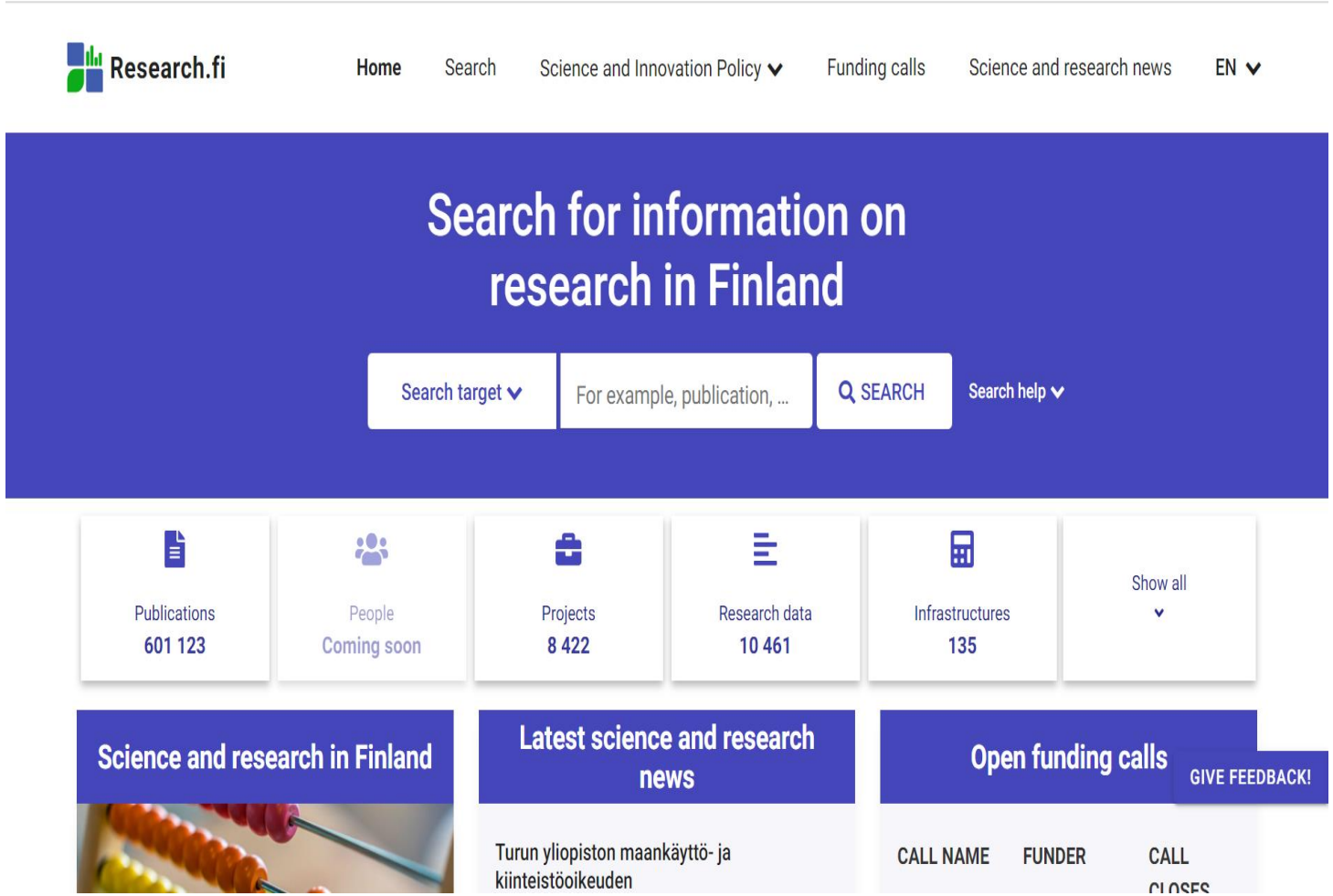


Academy of Finland supports international collaboration with all funding instruments

More information: https://www.aka.fi/en/research-funding/funding-opportunities-at-a-glance/

ACADEMY OF FINLAND

How to proceed?



- Search for information on research in Finland e.g.
  www.research.fi
  www.studyinfinland.fi
  www.visitfinland.com
- Find the Finnish research partner
- Search for funding

ACADEMY OF FINLAND

Bilateral agreements

- The Academy of Finland has bilateral agreements with **14 countries** (incl. 23 organisations)
- Based on the agreements, the Academy and its partners may open **bilateral calls** for research projects
- Funding for mobility cooperation is intended for a researcher's or a research team's **mobility costs** (necessary travel and living expenses). The applicant must have another funding source for salaries and research costs.
- The Academy's bilateral partners in India:
  - **Department of Biotechnology (DBT)**
  - **Department of Science and Technology (DST)**

More information:
https://www.aka.fi/en/about-us/what-we-do/international-cooperation/global-partnerships/
-> India

ACADEMY OF FINLAND

Mobility cooperation with India

@ funders' level

Agree on **timetable** and **call practices**

Open a **call for researchers** of own country

Evaluate applications (independently)

Compare **evaluation results**

Agree on **projects for funding**

@ applicants' level

Agree on cooperation

Write and submit matching applications for both funders

- Each partner follows the rules and timetables of the funder of his/her own country
- Research plan must be drawn by mutual agreement. However, the plans submitted to the Academy and the Indian funder need not be identical

Start collaboration, when funding decision is positive

In order to improve the mobility cooperation plan, **discuss with the partner** (and own funder, if needed), when funding decision is negative

Tips for your research partner/Finnish applicant

Application

- Applicant is a researcher **based in Finland** (usually the project PI)
- Applicant must have at least a higher academic degree (**preference is given to PhDs**)
- Funding can be applied for **several researchers'** (a research team's) mobility **from Finland to India** with one application
- Visits may be planned for **several periods**, from one week up to twelve months
- Mobility cooperation must be **balanced** so that researchers from both countries engage in roughly the same amount of mobility
- a **Finnish contact person** is needed for the Indian visits to Finland to assist the Indian visitors in practical matters such as accommodation.

Funding

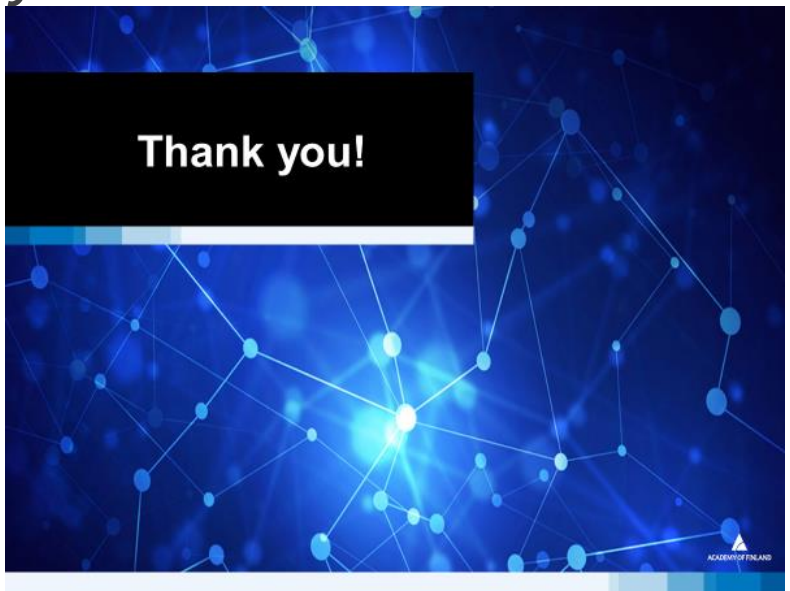
- Amount is usually **4 000 – 20 000 euros** depending on the mobility plan (i.e. number and length of visits)
- Period is usually for **2 years**
- Funding is paid via the applicant's **Finnish site of research**
- Funding does **not cover insurances**, so the researchers supported by the mobility funding must take out appropriate insurance.

  |

Mobility grants: Next call

- Next call for proposals not decided yet
- Usually in the end of September
- See an update of call announcements in June:

https://www.aka.fi/en/research-funding/apply-for-funding/calls-for-applications/



FINNISH NATIONAL
AGENCY FOR EDUCATION

Funding opportunities with India

Webinar on Funding Landscape for India Collaboration
15.2.2022

Sofia Lähdeniemi & Mari Pohjola
Finnish National Agency for Education

In this presentation

- EDUFI TFK Programme
- EDUFI Fellowships
- Erasmus+ International dimension

EDUFI’s Team Finland Knowledge Programme

TFK programme for HE education cooperation

MAIN TARGEAT AREAS 2022:

Latin America & Southern Africa

In addition: China, India, Russia, Southeast Asia

PROJECT LENGTH:

2,5 years

MAX. SUPPORT:

80 000 €

BUDGET 2022:

1,800,000 €

2/3 reserved for cooperation with Southern Africa and Latin America

LEARN MORE ABOUT THE TFK PROGRAMME & NET WORK:

https://www.oph.fi/en/programmes/tfk-programme

https://okm.fi/en/team-finland-knowledge-network

Objectives of the programme

- To increase the quality of higher education.
- To create new initiatives or operating models for international cooperation.
- To strengthen the attractiveness of Finnish higher education institutions.
- It is hoped that the projects funded under the programme will lead to permanent and long-term cooperation between countries.
- Important that partner institutions in the target regions also contribute to the planning and realisation of the projects and if possible, cover some of their costs.
- Programme is not intended for preliminary activities carried out for the purpose of establishing cooperation.

Basic information about the application round

- A single project can apply for funding for cooperation with one or more higher education institutions in the partnering countries.
- Higher education institutions can submit any number of applications during the TFK programme's application round.
  - Max. 2 projects from the same HEI can be funded for cooperation with one target country.
  - Projects that received funding in the Call 2021 cannot be funded in the Call 2022.
- Participating projects must involve educational cooperation at one or several different degree levels (bachelor's, master's and/or doctoral).
- The programme is open to all disciplines.

Forms of cooperation funded

- Joint study units, courses and intensive courses
- The development and realisation of digital/virtual teaching
- Curriculum cooperation
- Joint/double degrees
- Mobility (teacher, staff, student and/or trainee mobility)
- Working life cooperation

Edufi Fellowship

Funding for doctoral students for pursuing their doctoral degree in Finland

EDUFI Fellowships

- **Applicant:** a Finnish university department
- **Who:** a doctoral student from outside Finland
- **Purpose:** initial funding for completing a doctoral research project in Finland, completion of a double degree or a study visit on exceptionally compelling reasons
- **Application deadline:** rolling deadline. Applications should be submitted five months before the start of the fellowship.
- **Duration of fellowship:** 3–12 months, visits 3–6 months
- **Size of grant:** 1,500 euros/month (2021)

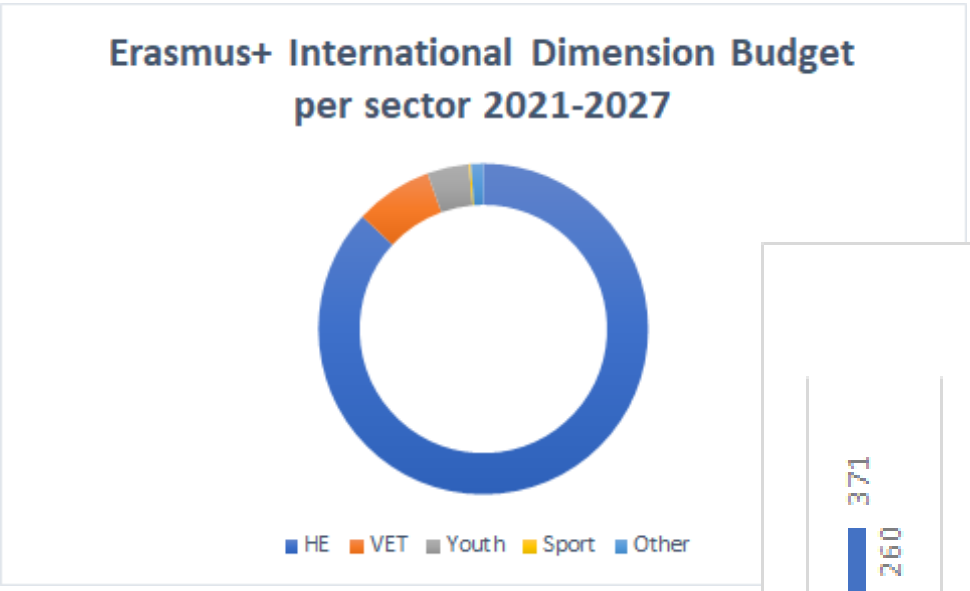
FINNISH NATIONAL
AGENCY FOR EDUCATION

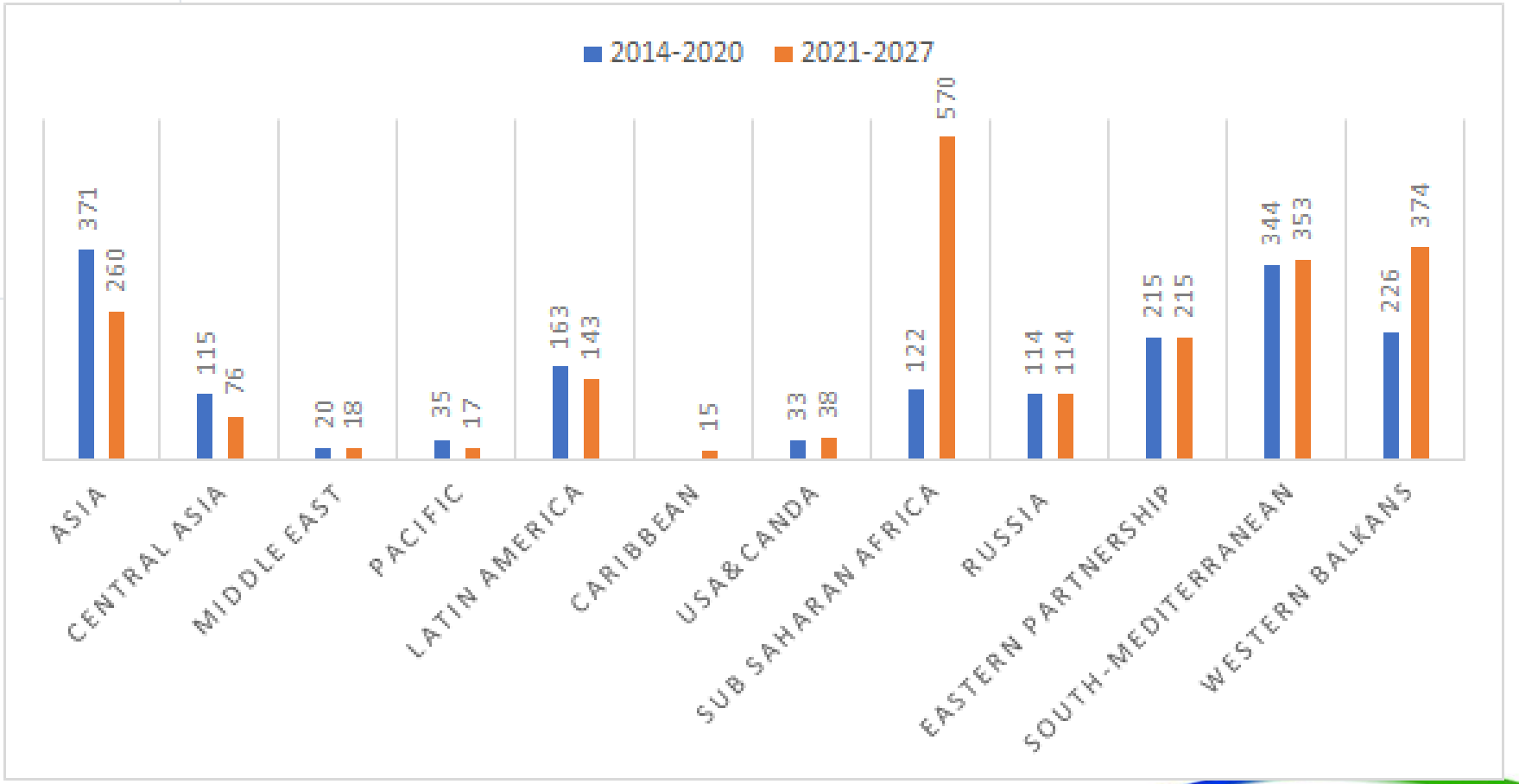
Erasmus+
Enriching lives, opening minds.

Erasmus+ International Dimension

– funding for cooperation between Europe and other parts of the world

International Dimension of Erasmus+



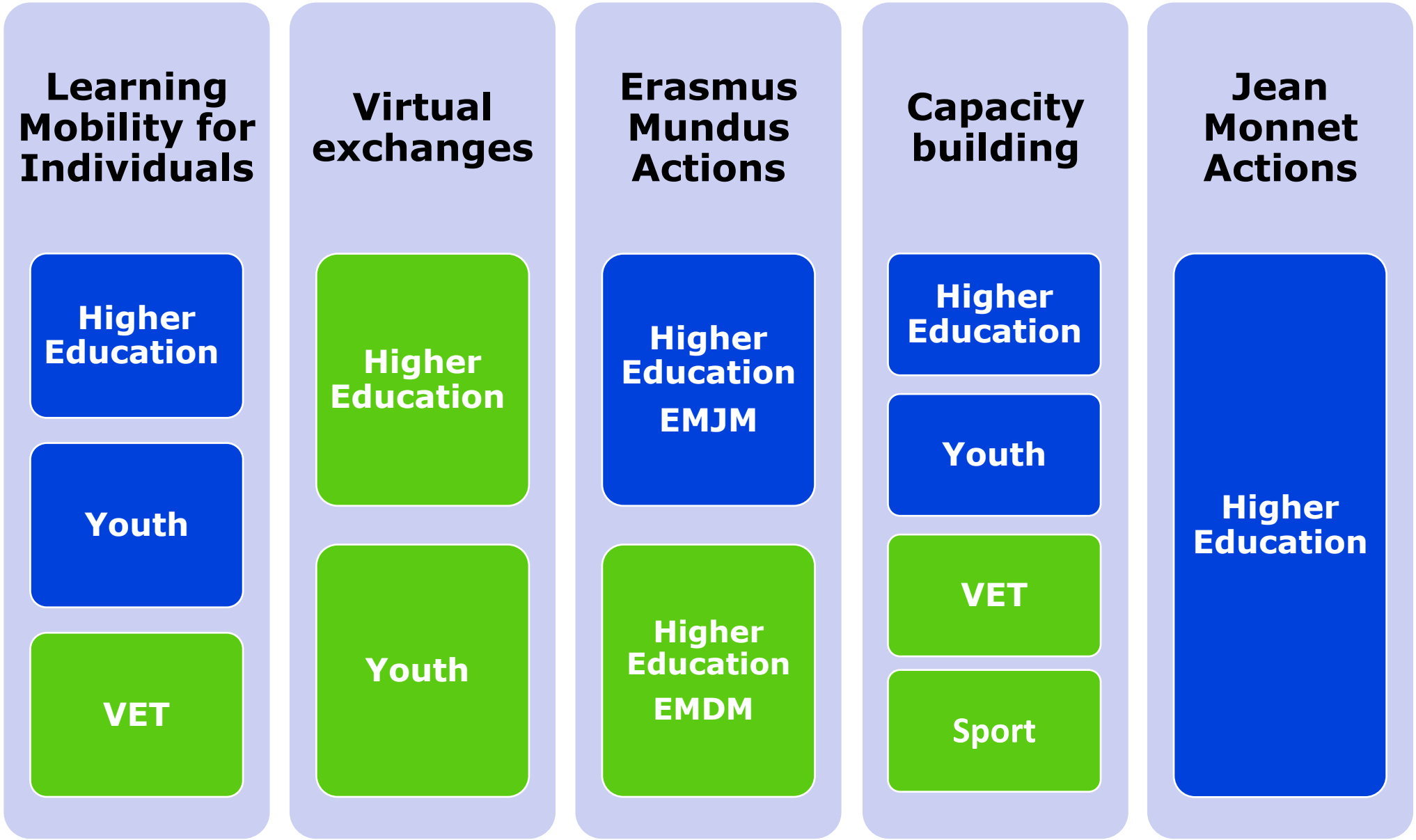


2014-2020: 1,8 billion
2021-2027: 2,2 billion

International Dimension of Erasmus+

Continuation

New



Where can You find more information?

EDUFI's Team Finland Knowledge Programme:

- https://www.oph.fi/fi/ohjelmat/tfk-ohjelma
- https://www.oph.fi/en/programmes/tfk-programme

EDUFI Fellowships

- https://www.oph.fi/fi/kehittaminen/edufi-fellowship
- www.oph.fi/en/development/edufi-fellowship

Erasmus+ programme:

- https://www.oph.fi/fi/kehittaminen-ja-kansainvalisyys/erasmus-ohjelma-2021-2027/erasmus-korkeakoulutukselle
- https://www.oph.fi/en/education-development-and-internationalisation/erasmus-programme-finland-2021-2027/erasmus-programme-higher-education

FINNISH NATIONAL
AGENCY FOR EDUCATION

Thank You!

FMI-India collaboration

In 2004, a climate research observatory was established in the foothills of Himalaya together with The Energy and Resources Institute (TERI), India

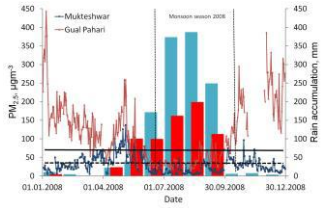
This led to several scientific findings, MSc- and PhD- degrees both in Finland and India, and to expanded co-operation ->

Dr. Antti-Pekka Hyvärinen, Senior Research Scientist, (FMI)

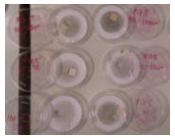
ILMATIETEEN LAITOS
METEOROLOGISKA INSTITUTET
FINNISH METEOROLOGICAL INSTITUTE

from research…

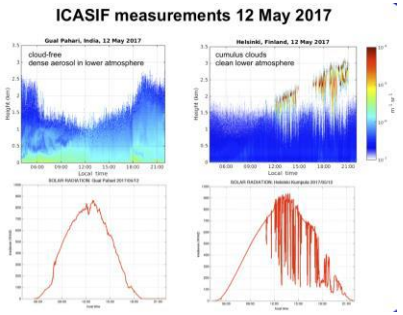
Studied the characteristics of air pollution in Delhi and Indo-Gangetic Plains region



Investigated the role of black carbon on Himalayan glacier retreat

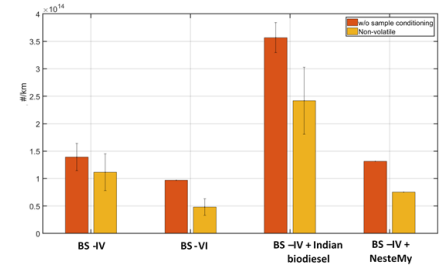


Determined how clouds and aerosols affect solar energy in India

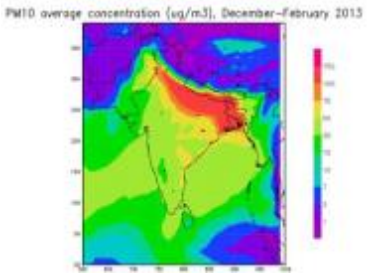


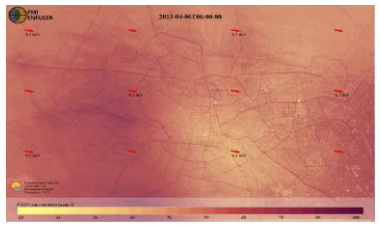
… to solutions for environmental issues

Sought out traffic- related solutions how air quality could be improved in India; with Finnish businesses



Helped India build native air quality forecasting systems





Funders:

Ulkoministeriö Utrikesministeriet · Ministry for Foreign Affairs of Finland · ACADEMY OF FINLAND · BUSINESS FINLAND · Ympäristöministeriö Miljöministeriet Ministry of the Environment · NATIONAL GEOGRAPHIC · Ministry of Earth Sciences Government of India

Research partners

teri · Tampere University · Metropolia

Business partners

NESTE · HSY · IndianOil · DEKATI · pegasor