



APPROACH

ADVANCED PHOTONIC PROCESSES FOR NOVEL SOLAR ENERGY HARVESTING TECHNOLOGIES

IMPLEMENTATION OF THE PROJECT

M g r . L u c i e H r a b a l í k o v á

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Experience with projects: 08/2020 – 12/2022 Faculty of Education, Palacký University Olomouc, ESF project, project administrator
04/2023 – CATRIN (The Czech Advanced Technology and Research Institute) at Palacký University Olomouc, project manager





Palacký University
Olomouc



CATRIN
Czech Advanced
Technology and Research
Institute



APPROACH – 10 1120 397 – Advanced Photonic PRocesses for novel sOlar energy hArvesting teCHnologies

1st June 2023 – 30th November 2026 (42 months)

Horizon-WIDERA-2022-TALENTS-03-01

Participants:

COO – IDRYMA TECHNOLOGIAS KAI EREVNAS (FORTH), IRAKLEIO, Greece,

BEN – UNIVERZITA PALACKEHO V OLOMOUCI (UPOL), OLOMOUC, Czechia,

BEN – INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM (IMEC), LEUVEN, Belgium,

BEN – OY VAASAN AMMATTIKORKEAKOULU - VASA YRKESHOGSKOLA AB (VAMK), VAASA, Finland,

BEN – TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV (TSNUK), KYIV, Ukraine,

BEN – NOVINANO LAB (NOVINANO), LVIV, Ukraine,

BEN – OKRESNI HOSPODARSKA KOMORA OLOMOUC (OHK), OLOMOUC, Czechia,

BEN – PRINTED ELECTRONIC DEVICES OF THINGS IKE PRIVATE CAPITAL COMPANY (PDOT), VOLOS, Greece,

ASSOCIATED PARTNER – SOLARONIX SA (SOL), AUBONNE, Switzerland



Objectives:

APPROACH aims to support training and mobility of research and innovation talents across sectors, developing best practices for intersectoral talent circulation at the benefit of the participating widening countries.

It is aiming to develop a reinforcing innovation ecosystem, creating an impactful collaboration between academia and business.

Specific objectives:

- Identify a set of key competences that researchers need for a successful research career, both inside and outside academia
- Identify cases that illustrate how a competence framework and other tools can be successfully used
- Grow and enhance the human resources and capacity of the Widening partners to render them as respectable references for highly skilled researchers
- Bring together regional, national and international stakeholders within the APPROACH ecosystem and encourage the potential of solar energy conversion technologies to face far-reaching and people-centred transformative goals
- Enhancement of the research/skill profiles and competences of the participating researchers and institutions
- Creation of a mentoring community and assignment of mentors to early-stage researchers and innovators
- Increased set of entrepreneurial and other transferable skills and competences of talents
- Training on administrative and research management skills
- Foster an innovation friendly environment towards the transformation of the Widening partners into R&D and entrepreneurial pole on developing photonic processes for solar energy harvesting. APPROACH will lead a new age of academia-industry synergy
- Achieve long-term sustainability of the collaboration



Budget:

Total budget: 2 981 050 EUR, UPOL – 593 125 EUR

Prefinancing: 80 % (5 % MIM)

Funding principle: for widening countries at least **70% for secondments**

Cost calculation detail for secondments UPOL:

Secondments (72000) (22 months of subsidence/3000 per month, 12 times of travel/500 per trip):

Talent 7: 2 months stay at PDOT, and 2 months stay at SOL (including travel): 13000

Talent 8: 2 months stay at PDOT, and 2 months stay at SOL (including travel): 13000

Talent 9: 2 months stay at PDOT, and 1 month stay at SOL (including travel): 10000

Talent 10: 2 months stay at PDOT, and 1 month stay at SOL (including travel): 10000

*Talent 11: 4 (2+2) months stay at PDOT, and 4 (2+2) months stay at SOL (including travel):
26000*

Reporting periods: RP1 – 30 M, RP2 – 42M

Staff Effort: total 362 PM, UPOL – 44 PM

Total number of months of secondment: 122M, UPOL – 22M
(involved 5 researchers and 1 project manager).



LIST OF WORK PACKAGES

Work packages						
<i>Grant Preparation (Work Packages screen) — Enter the info.</i>						
Work Package No	Work Package name	Lead Beneficiary	Effort (Person-Months)	Start Month	End Month	Deliverables
WP1	Project Management	1 - FORTH	38.00	1	42	D1.1 – Kick-off Meeting Report & Quality Project Management Plan Report D1.2 – Data management plan D1.3 – 1st Interim Report D1.4 – Team and Gender Dynamics Assessment D1.5 – C.Report on secondments
WP2	Research & Innovation Excellence	3 - IMEC	97.00	2	42	D2.1 – Report of training activities and workshops D2.2 – Report on innovative outcomes D2.3 – Exchanged scientific knowledge and technology transfer
WP3	Human Capital Excellence	4 - VAMK	63.50	6	30	D3.1 – Training need analysis D3.2 – First Report of training activities and workshops D3.3 – Second Report of training activities and workshops D3.4 – Third Report of training activities and workshops D3.5 – Human capital excellence

WP4	Talent Skills Development	4 - VAMK	57.00	1	36	D4.1 – A.Report of training activities and workshops D4.2 – B.Report of training activities and workshops D4.3 – C.Report of training activities and workshops
						D4.4 – Talents' overall performance D4.5 – A.Report on secondments D4.6 – B.Report on secondments
WP5	Reinforced Innovation Ecosystem	9 - SOL	66.50	10	42	D5.1 – Exploitable results report D5.2 – Networking Activities D5.3 – Report of bussiness and industry training activities and workshops
WP6	Project Spread and Sustainability	2 - UPOL	40.00	1	42	D6.1 – Communication Activities D6.2 – Exploitation, Dissemination and communication plan D6.3 – Final Exploitation, Dissemination and communication plan

Call conditions for secondments:

- Secondments should be between different sectors (academia and non-academia) and should include a widening dimension
- Each person must complete at least 3M secondments during the project, maximum is 24M
- Supported staff members must be actively engaged in or linked to R&I activities or R&I support activities for at least 6 month (full-time equivalent) at the sending institution before the first period of secondment
- Secondments are open to researchers, innovators, and other research and innovator talents –such as administrative, managerial and technical staff supporting R&I activities in their organisations –from any career stage, excluding doctoral candidates (PhD students). For innovators and the other R&I talents, emphasis needs to be put on staff at an early career stage
- Same-country exchanges are also possible under the condition that they serve the specific purpose of maintaining or reinforcing regional innovation ecosystem
- Return phase and reintegration is mandatory for every cross-boarder secondment, equal to the duration of the secondment, but no more than 12 month
- Can be split over several stays with one or several beneficiaries

PROJECT IMPLEMENTATION –year one

Deliverables:

- Kick-off in Heraklion & Quality Project, Management Plan Report
- Communication Activities
- Data Management Plan
- Training need analysis
- First Report of training activities and workshops
- Report on secondments

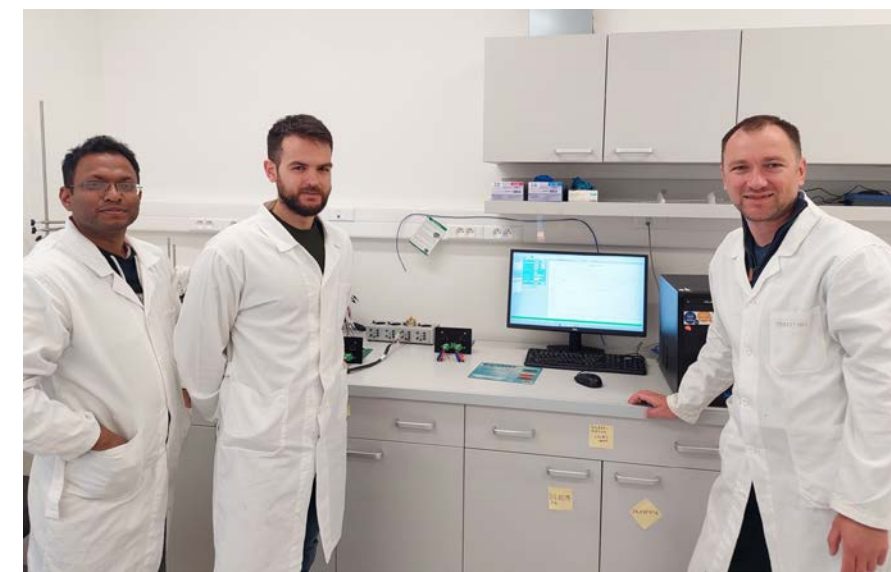
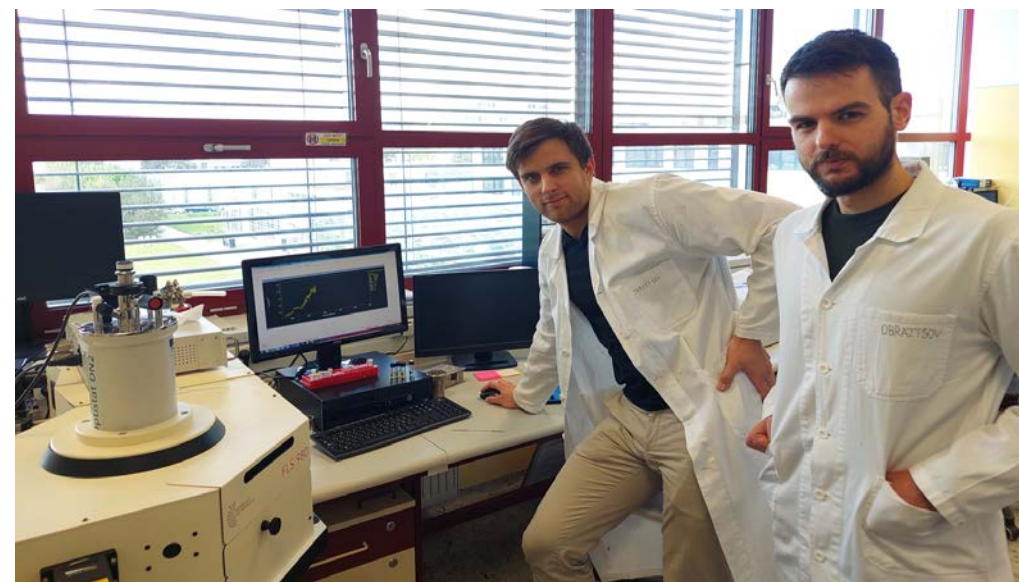
Training analysis was based on an online **survey** and guided **interviews**. This analysis will continue to inform the design of a talent development workshop plan based on the needs identified in the survey.

Secondments

- March 2024 – Heraklion, Greece, partner PDOT
- June 2024 – Aubonne, Switzerland, partner SOL



We hosted PDOT partner talents on secondment in Olomouc in April 2024.



Workshops - April 2024 – Olomouc, Czechia

In collaboration with the District Chamber of Commerce Olomouc on Engaging Stakeholders and Identifying Value Chain including Networking Activities and Mentoring on Grants, Innovation Management, and Technology transfer.



- Workshops on-line**
- May 2024, 14-15, online workshops were held on **Gender dimension in Research and Innovation** (TSNUK partner).
 - May 2024, 30-31, online workshops were held on **General training including Soft & Hard Skills: 4 thematic trainings: 1. Dive into projects 2. Dive into business 3. Risk management training 4. Self & Career development strategies** (VAMK partner).
 - June 2024, online workshop is planned on the topic **Entrepreneurship events skillset and mindset for identifying and launching new business ventures** (PDOT/NOVI partners).

Concluding remarks

This first year is about getting to know each other, their backgrounds, knowledge and technologies. In the following secondments we can build on this and set up closer cooperation, which will result in strengthening of mutual relations, joint publications, further jointly submitted grant applications. It is expected that new ideas will be developed, new information will be used and best-practice will be exchanged.

Implementation barriers

- ! The secondment is time consuming and organizationally demanding due to the other responsibilities**
- ! For long term trips you need to fill in the A1 form for the Social Security Office (cooperation with HR)**
- ! Big consortium –hard coordination =be careful about the choice of partners**
- ! Partners should not only KNOW, but also know how to SHARE**



APPROACH

THANK YOU

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