

EURIZON Final Project Meeting 2024

18-19 January 2024

Nuclear Physics Institute of CAS

& Czech Technical University, Faculty of Nuclear Sciences and Physical Engineering
Prague

Project overview, and outlook

Martin Sandhop, DESY
Project coordinator

Prague, 18 January 2024



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871072.

eurizon

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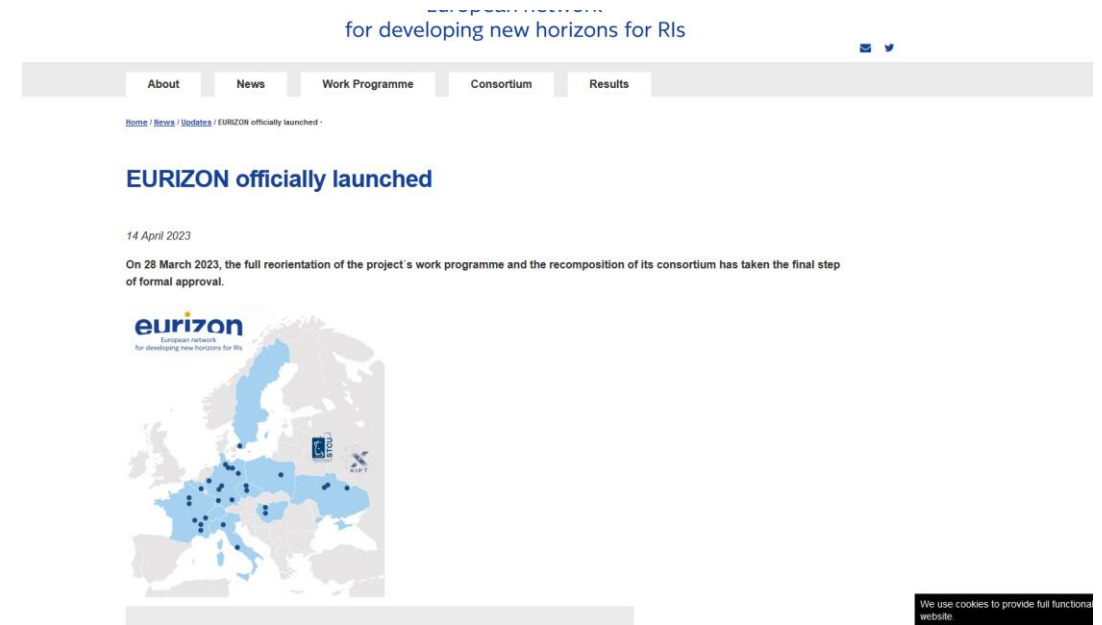
Intro: end of scientific-technical activities, extension of Ukraine support measures

- January 2024 = Month 48 of the project
- Means: last month of 4-year project EURIZON
- But in fact: **7 technical WPs** will come to an end
- **2 Ukraine-support WPs** will be extended – to ~~March~~ **APRIL** 2025 (last minute change)



Ongoing administrative building of EURIZON: amendment update

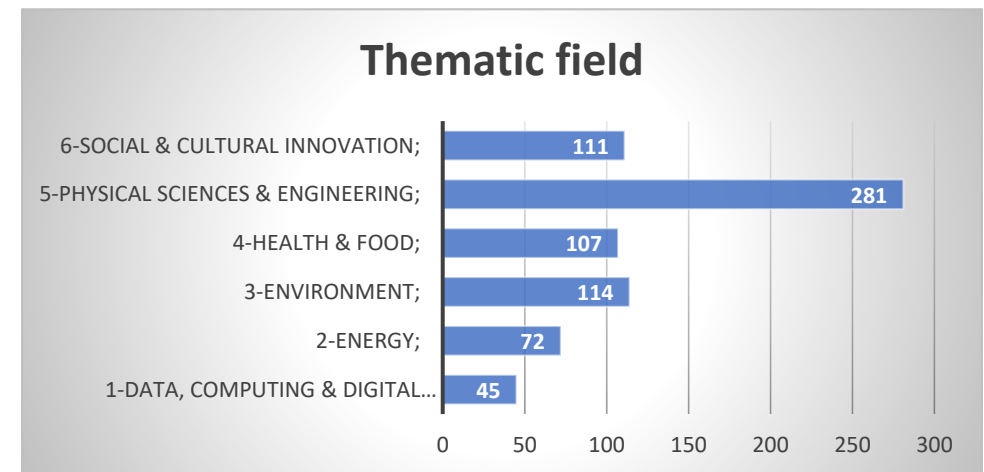
- First amendment – **AMD 1** – submitted 20 May 2022
- Assessed and revised, several times newly submitted 20 Dec 2022
- Finally the good news: **28 MAR 2023 EURIZON can be launched** officially, AMD1 =approved!
- Extremely important for opening one much-awaited key element of EURIZON: the WP 9.1 **Fellowship Programme for Ukraine**; opened on 1 APR 2023 – 8 May 2023



- Becoming obvious: another AMD-2 will be necessary

Why?

- **Overwhelming response** to Fellowship programme for UA: DESY receives altogether **786 applications** by PIs of Ukrainian research project teams
- Hereof: Eligible applications: 730
- Takes **tremendous time** (many months!) to prepare such an amount for evaluation, carry out evaluation



- Therefore: re-negotiating during June & July 2023 with support of and through PO with EC for:
 - increased budget of 1.5 Mio € (~22 projects with ~110 individual grants)
 - more time, to allow a full implementation of 12-months projects duration
- Successful: feedback 28 Jul 2023:
 - **Budget could be tripled: + 3.0 Mio €** yields a **total of 4.5 Mio €** (~60 projects; ~280 grants)
 - Project extension another 3+5 months to Dec 2024 – could be even again **extended to March 2025**
- This yields **new maximum grant amount of 24,767,360.43 EUR** – practically the original project grant as of project start in 2020

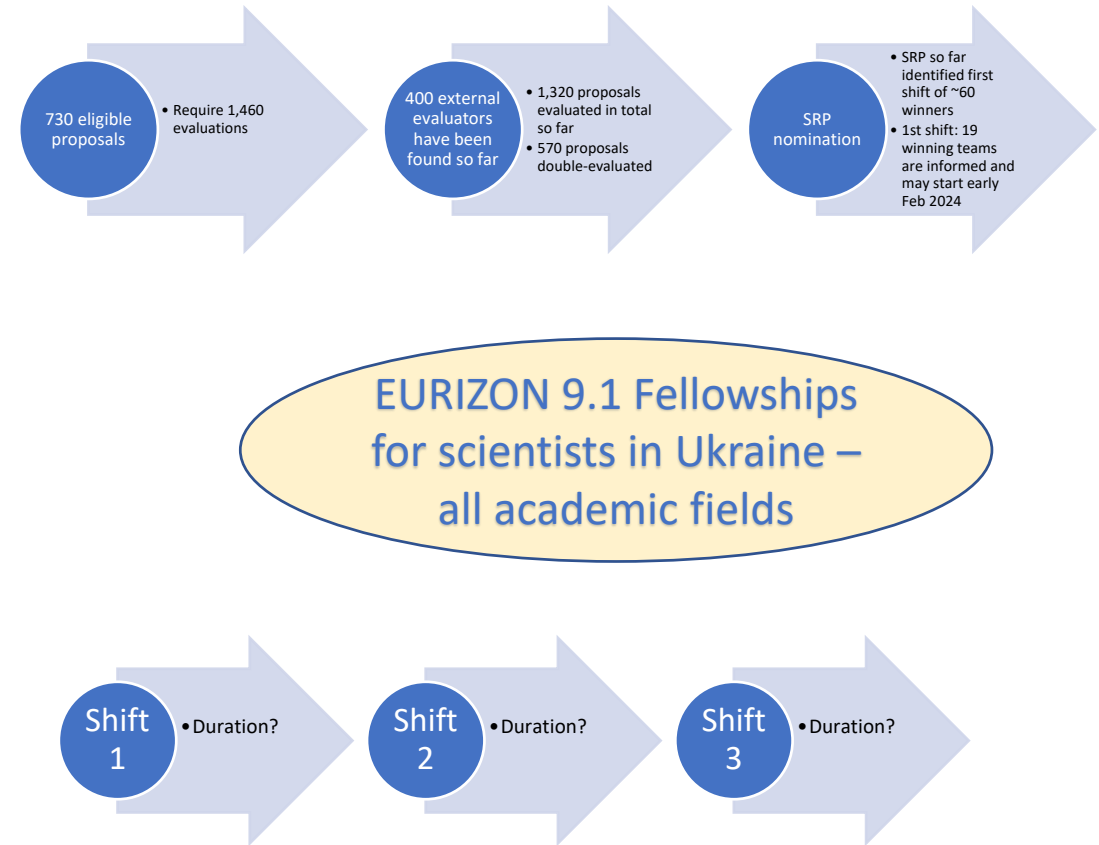
*Amendement-2 procedure started 31 March 2023
several times updated versions produced
→Submitted 11 Jan 2024
APPROVED 15 JAN 2024!*

Needs to be signed before end of January 2024 which is formally still end of project!

In parallel:

DESY & UNIMIB fully engaged in WP9.1 Fellowship programme for Ukraine:

- Organising immense work of 2 evaluations for each proposal = **1,460 evaluations in total**
- communicating with Ukrainian PIs
- Engaging Science Review Panel (SRP)
- Preparing together with STCU the implementation of contracting winning teams, getting payment procedures prepared



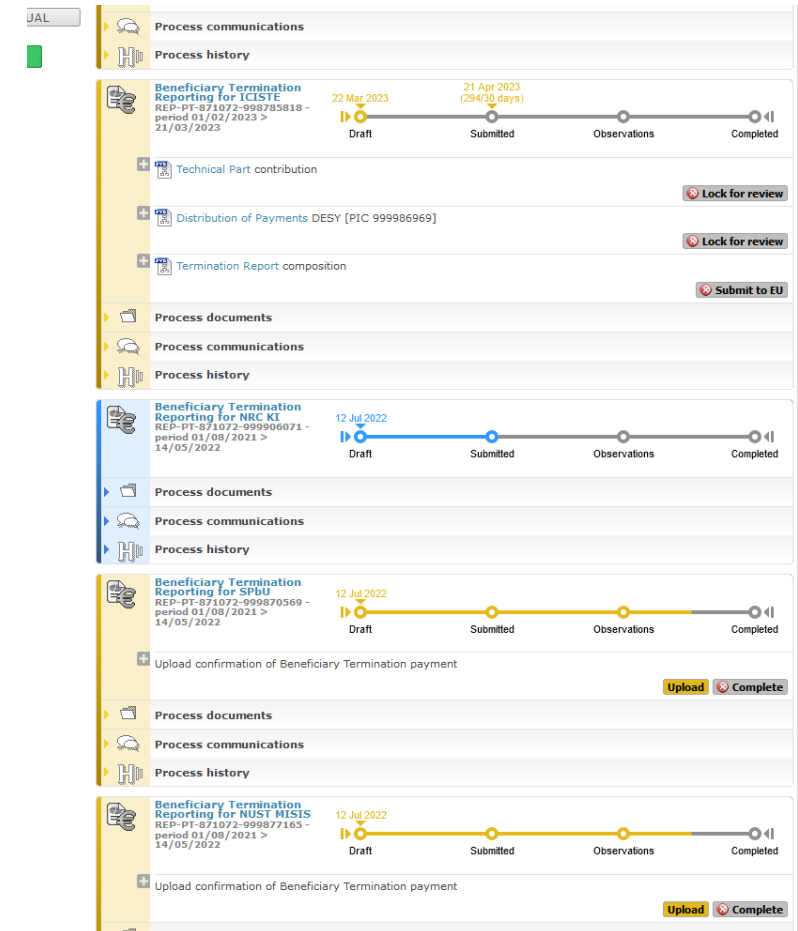
Ongoing termination of participation of Russian beneficiaries

Procedure = **complex, multi-step and tedious**

- EC-initiated terminations: 8 of 10 previous RU consortium beneficiaries
- Consortium-initiated: JINR and ICISTE

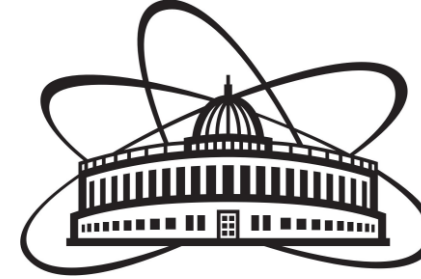
Currently **still underway**:

- NRC KI: clarifications along CFS statement to be provided until 19 January 2024
- SPbU, PTI, MISIS: clarifications underway
- For BINP; INR RAS; IAP RAS; MEPHI:
procedure closed OK

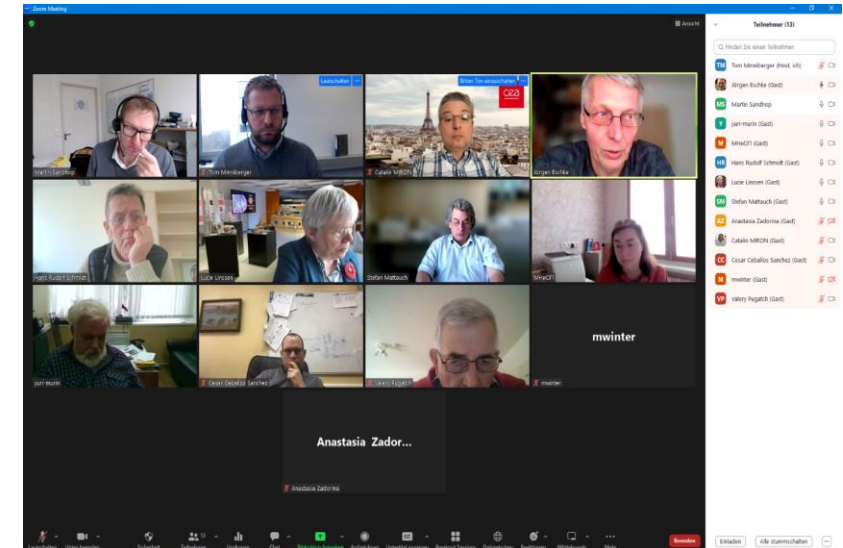


JINR and ICISTE:

- Dedicated **clarification meeting**: 2 March 2023, via zoom
- With colleagues from: JINR and ICISTE, and: DESY, FAIR, FZJ, CEA, CNRS, CERN, INR NASU
- **Difficult to come to an agreed joint view** on the subject
- In 2nd half 2023: again DESY took up the task, and contacted both institutes:
- JINR produced report, plus financial report, **now CFS is being produced**
- ICISTE: agreed to produce the both final reports, **currently check if CFS is necessary**



*Clarification meeting 2nd March 2023:
no agreement found...*



Project governance bodies activities since Feb 2023

General Assembly GA:

- 3 UA partners: KINR since project start; KIPT: since 06/2022 consortium
- after Feb 2023 (GA-3 meeting in Darmstadt), STCU has joined the consortium of beneficiaries
- STCU's critical role in WP9: ensure the **proper transfer of hundreds of individual grants** in several tranches to the Fellowship Programme winners in Ukraine
- STCU's status needed to be as international organisation „**of European interest**“ – if not, it could not (easily) take over the role of grant-transmitter!
- Procedure of validation took 3-4 months since Sep 2023 – now since 8 January 2024: **validated!**
- GA-4: tomorrow 19 Jan 2024, hybrid meeting



Chair: Jürgen Eschke, FAIR / GSI
Re-elected Feb 2023

No.	Beneficiary	Member	Deputy
1	DESY	Martin Sandhop	
12	EKUT	Hans Rudolf Schmidt	Günter Lang
13	European XFEL	Serguei Molodtsov	
14	FAIR	Jürgen Eschke	Peter Senger
15	FZJ	Stephan Förster	Stefan Mattauch
16	GUF	Joachim Stroth	
17	Hereon	Martin Müller	Klaus Pranzas, Jochen Fenske
18	JLU	Michael Düren	
19	TUM	Wibke Lohstroh	Jürgen Neuhaus
20	CEA	Catalin Miron	
21	ESRF	Michael Krisch	Jean-Luc Revol
22	ILL	Oliver Zimmer	
23	CNRS	Marc Winter	Walid Kaabi
24	UCA	Marc Dubois	
25	ELI ERIC	Allen Weeks	Florian Gliksohn
26	NPI CAS	Andrej Kugler	Ondrej Svoboda
27	MTA EK	Ákos Horváth	László Rosta
28	Wigner RCP	Gyorgy Wolf	
29	INFN	Mikhail Zobov	Gianluigi Cibinetto
30	UNIMIB	Marialuisa Lavitrano	
31	CERN	Andre Sailer	Lucie Linssen
32	WUT	Wojciech Zabolotny	
33	ESS	Andrew Jackson	Robert Connatser
34	INR NASU	Valery Pugatch	
35	LLE-AISBL	John Collier	Claes-Göran Wahlström
36	NSC KIPT	Sergii Fomin	Sergii Pugach
37	STCU	Mykola Lubiv	

Europa / Funding & Tenders Portal notification

Dear Participant,

We are pleased to inform you that we have validated the requested changes in the Participant Register:

'International organisation of European interest for H2020' (H2020 IOEI)

Please note that all data and information related to your organisation has been encoded on the basis of the documents you provided.

Any future requests for changing your legal data or statuses must be accompanied by supporting documents to justify the change.

⚠ Please note that the data entry has to respect certain system requirements (e.g. capital letters; the registration authority is the city in which the organisation is registered, etc.). Please refrain from requesting corrections on such matter.

Kind regards,

Central Validation Service
European Research Executive Agency



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Science Review Panel (SRP) for WP9 TRAIN

- Currently most involved in **approving procedural decisions with regards to 9.1 Fellowship Programme for Ukraine**, scoring system, criteria for evaluation,
- Plus approving proposed highest-ranked candidates (PUI candidates) for nomination for fellowships
- **1st shift of winners was approved by SRP**, 2nd and 3rd shifts to be approved during January and February 2024
- Key contact to SRP: Enrico Guarini, UNIMIB (WP-leader WP9), together with Greta Facile (DESY)

Scientific domain	Member	Function	Organization
Energy	Manuel J. Blanco	EC H2020 European Research Area (ERA) Project Chair	Cyprus Institute - EU SOLARIS
Energy	Sverre Quale	Executive Director	ECCSEL ERIC
Environment	Werner Kutsch	Director General	ICOS ERIC Chair of the Board of European environmental research infrastructures (BEERi)
Environment	Juan-Miguel González-Aranda	CTO	LifeWatch ERIC
Life Sciences	NN currently vacant -		
Life Sciences	Michael Raess	COO	Infrafrontier GmbH
Physical Sciences	Jana Kolar	Executive Director	CERIC-ERIC
Social Sciences & Humanities	Angelika Scheurer	Deputy Director	ESS ERIC
Social Sciences & Humanities	Jennifer Edmond	Former Director	DARIAH ERIC
eInfrastructures	Tiziana Ferrari	Managing Director	EGI Foundation
eInfrastructures	Hilary Hanahoe	Secretary General	Research Data Alliance
State budgetary institution established by the Government of Ukraine	Olga Polotska	Executive Director	NRFU -The National Research Foundation of Ukraine
Physical Science	Igor Girka	Dean of the School of Physics and Technology, Corresponding Member of the National Academy of Sciences of Ukraine	Kharkiv V.N.Karazin National University; National Academy of Sciences of Ukraine;



Executive Board (EB):

- 2 **EB Meetings** since Feb 2023:
- EB12: 4 May 2023 via zoom: technical WPs prepare for finalising their programmes; preparing SAC meeting 07/2023
- EB13: 14 Nov 2023 via zoom: Adapt Deliverables and MS for completion before M48; prepare Prague event; suggestions for a follow-up projects

WP	WP Managers
WP1 MGT	Martin Sandhop, DESY
WP2 Heavy Ions	Jürgen Eschke, FAIR
WP3 Neutrons	Stefan Mattauch, FZJ
WP4 Synchrotrons	Michael Krisch, ESRF
WP5 Lepton Colliders	André Sailer, CERN Lucie Linssen, CERN
WP6 High-power Lasers	Catalin Miron, CEA-LIDYL
WP7 Detectors	Christian Schmidt, GSI
WP8 TNA	<i>Greta Facile, DESY</i>
WP9 TRAIN	Enrico Guarini, UNIMIB (Greta Facile, DESY)
WP10 LTS	Greta Facile, DESY (Martin Sandhop, DESY)



External Science Advisory Committee SAC:

- Onsite and hybrid meeting 7 July 2023 at DESY
- Nadya Boyko from Uzhhorod National University welcomed as new member of SAC
- SAC-4 Recommendations finalised 8 August 2023, provided to GA
- Among Key recommendations:
- *“The SAC recommends **preparing without delay a follow-up project of EURIZON**. It could definitely contribute to continue **supporting pan-European and EU-Ukraine cooperation on research infrastructures in all scientific domains** and the further integration of Ukraine in the European research infrastructures network. This includes the major challenge of helping Ukraine to rebuild (when, how, at what cost) the research infrastructures destroyed by the war. (...)”*

Chair: Jean Moulin

Vice-chair: Caterina Biscari

Elected 7.7.2023, taking over from Hans Gutbrod, previous SAC-chair

Jean Moulin	BELSPO Honorary General Advisor; Limal, Belgium
Hans Gutbrod	retired nuclear physicist at GSI/ FAIR, pioneer in heavy ion physics, Darmstadt, Germany
Caterina Biscari	Director of ALBA Synchrotron, Cerdanyola del Vallès, Spain
Arantxa Arbe	Research Professor at Materials Physics Center CFM, San Sebastián, Spain
Kiyoshi Ueda	Professor at the Tohoku University, Sendai, Japan
Nadiya Boyko	Prof., Dr.Sc., Rector Advisor for Innovation; Head of the Department of Medical and Biological Disciplines; Director of RDE Centre of Molecular Microbiology and Mucosal Immunology; Uzhhorod National University; Uzhhorod, Ukraine



A follow-up project to EURIZON?

- Together with Jürgen Eschke: Proposal paper developed
- Lobbying for a RIA, rather than a CSA which is currently foreseen in Horizon Europe Work Programme RI
- DRAFT Call in DRAFT HE Work Programme 2023-2025 HORIZON-INFRA-2024-DEV-02; deadline: 19.09.2024 (TBD)
- Paper exchanged with EC: PO, and Michael Arentoft (HoU OPEN SCIENCE & RESEARCH INFRASTRUCTURES), and Maud Fichet (HE Association)
- Also approaching ESFRI-delegates and country-representatives in the Writing Committee of the HE Work Programme
- Paper will be updated and again submitted

Proposal paper by EURIZON GA-chair at GSI FAIR and EURIZON management at DEST, agreed among EURIZON Executive Board (EB) and Scientific Advisory Committee (SAC).

Proposal for an additional EU-UA RIA on cooperation between Ukrainian Labs/RIs with European ESFRIs/RIs in Horizon Europe Work Programme

Based on the experience in the current EURIZON EU project (<https://www.eurizon-project.eu/>) regarding the scientific-technical cooperation between European Research Infrastructures (RIs) and ESFRI landmarks together with laboratories in Ukraine, and on EURIZON's both WP for evaluating the "Sustainability for RIs in Ukraine" (WP10) and the "Fellowship and Training Programme for Ukraine" (WP9) we propose to the EC and ESFRI to foresee an additional EU-UA RIA action on cooperation between Ukrainian Labs/RIs and European ESFRIs/RIs under Horizon Europe Work Programme 2023-2025. This proposal takes up the recommendation by the external Scientific Advisory Committee (SAC) for EURIZON, following the SAC4-meeting on 7 July 2023: "(...) The SAC recommends preparing without delay a follow-up project of EURIZON. It could definitely contribute to continue supporting pan-European and EU-Ukraine cooperation on research infrastructures in all scientific domains and the further integration of Ukraine in the European research infrastructures network."

Such a RIA Action should have the following components:

Several scientific-technical work packages should be set up for **European-Ukrainian consortia** of Institutes or RIs in Ukraine with RIs and ESFRI landmarks/projects in Europe. These technical/scientific WPs should be set up in the domain of Physical Sciences and Engineering (PSE) and other domains, for instance Life Science, where collaborative activities between Ukrainian and European Institutes already exist, or can be started easily, or relatively easily, and which are identified as strategically relevant by representatives of the Ukrainian research community. Within these scientific-technical WPs the financial support of scientists in Ukraine (paying salaries) is very important to prevent *brain drain*, because at present the laboratories in Ukraine can barely pay the salaries of their scientists. Also travel funds for extended visits will allow to integrate UA scientists further into the European scientific community. The direct financial EC support to Research Institutes in Ukraine will also help them to survive the very difficult situation while the war is still going on, and afterwards. On the other side, such technical-scientific WPs will be also beneficial for the European partners regarding an enhanced orientation towards science cooperation with Ukraine in the new situation caused by the war in Ukraine, including the EU-sanctions against Russia.

Additional elements of this proposed RIA action should be **coordination and support measures with horizontal training and outreach activities with Ukrainian partners**. Moreover, the organisation of **Stakeholder Meetings** in order to discuss

Proposal paper by EURIZON GA-chair at GSI FAIR and EURIZON management at DEST, agreed among EURIZON Executive Board (EB) and Scientific Advisory Committee (SAC).

and prepare European activities for supporting Ukraine in the field of Research Infrastructures should be organised.

In this respect, the proposed CSA on "Consolidating and developing the landscape of European research infrastructures by supporting research infrastructure policy in Ukraine (HORIZON-INFRA-2024-DEV-02)" is not sufficient to help science in Ukraine to survive the war period.



For European and Ukrainian RI:

→ Will be welcome if a follow up project could include also **scientific collaborative EU-UA activities around** (UA) RIs

Proposed are, for instance three cases:

- **UA beamline at Polish synchrotron SOLARIS**, including engagement of PSI and others (
- R&D on a next-generation **silicon pixel detector for HEP and nuclear physics experiments**; together with e.g. GSI/ FAIR and KINR
- Collaboration: KIPT's neutron source where Budapest neutron Centre BNC may get involved in **equipping instrumentation of KIPT's new Neutron Source Facility**
- Consortium is advocating such a RIA opportunity with both joint R&D collaborations, and coordination and support measures such as **training activities and UA Research/ RI Landscape analysis**
- Plus: ELI ERIC's network with Sumy State U and Kharkiv Nat. U of Radio Electronics → establish dialogue platform ELI/UA science & education



Following 2 slides by Serguei Fomin, KIPT Kharkiv

- About Ukrainian restoration efforts taking place even during war

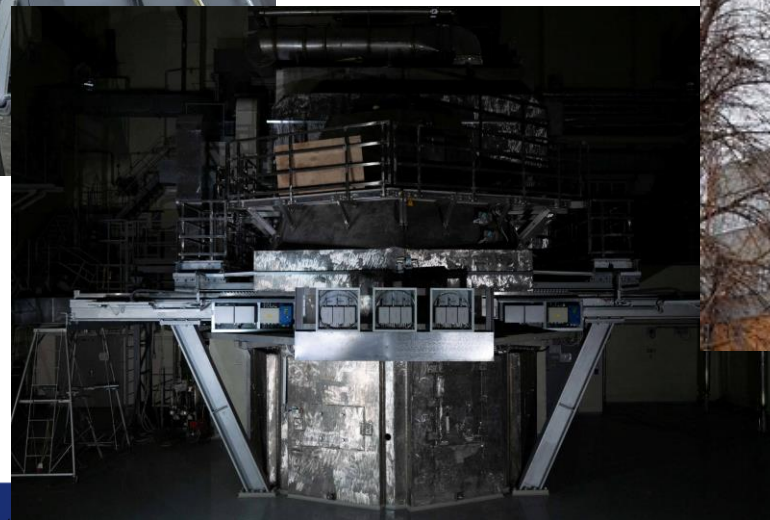


IMPACT OF RUSSIAN FULL-SCALE ARMED INVASION OF UKRAINE

KIPT INSTITUTE FOR SOLID STATE PHYSICS,
MATERIALS SCIENCE AND TECHNOLOGIES



building restoration



**KIPT NUCLEAR FACILITY
NEUTRON SOURCE**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871072.

<https://undark.org/2023/05/01/ru-ukraine-research-nuclear-reactor/>

<https://apnews.com/article/ukraine-kharkiv-nuclear-research-lab-damaged-e41e7e8d84a7062d1184d92df1680cd0>

Founding Members:



Sponsored by:



<https://rilogistica.eu/guidelines-ilo/>

The ILO Ukraine initiative



Guidelines

Background

The RI Logistica Association was approached via email from representatives from the European ILO (Industry Liaison Officer) Network, following the ILO CERN meeting in September 2022, asking if we could help them in setting up a logistical solution providing RIs in Ukraine by replacing stolen/damaged equipment during the ongoing war also meeting the volume/magnitude needed to be transported.

Step by step guide

1. Donation gathering
- Based on the [lists](#) of needed equipment, the ILOs together with RI.Logistica will find doners

research and innovation programme under grant agreement No. 871072.

<https://rilogistica.eu/equipment-list/>

#	EQUIPMENT	pcs	Requested KIPT department(s)	KIPT conatct persons of request
1	1. Infrared microscope with spectrometer, Shimadzu (Japan) or analogues	3		
		1	DEPARTMENT OF PHYSICS OF THE SOLID AND CONDENSED STATE OF MATTER	Volodymyr Sokolenko, e-mail: <vsokol195@gmail.com>
		1	DEPARTMENT OF PLASMA DYNAMICS	Igor Garkusha, garkusha@ipp.kharkov.ua
		1	SRC ACCELERATOR NUCLEAR SYSTEMS, LAB 39-00	Andrii Zelinskii, e-mail: zelinsky@kipt.kharkov.ua
2	2. Multizone growth furnaces, Mellen (USA) or analogues	4		
		1	DEPARTMENT OF INTENSE VACUUM-PLASMA TECHNOLOGIES	Lyudmyla Martynenko, e-mail: fishkikyivstar199101@gmail.com
		1	DEPARTMENT OF PURE METALS, METALLOPHYSICS AND TECHNOLOGY OF NEW MATERIALS, lab.11-20	Mikhail Tikhonovsky, e-mail: tikhonovskym@gmail.com
		1	DEPARTMENT OF PHYSICS OF CHARGED PARTICLE BEAMS AND ION ACCELERATORS	Oleg Manuilenko, e-mail: ovm@kipt.kharkov.ua
		1	DEPARTMENT OF MAGNETOPLASMA TECHNOLOGIES AND SMALL-SIZED BUILT-UP ACCELERATORS	Yuferov V. B., e-mail: V.B.YUFEROV36@gmail.com
3	3. Oil-free vacuum pumps, Becker (USA) or analogues	16		
		1	DEPARTMENT OF PHYSICS OF RADIATION PHENOMENA AND RADIATION MATERIAL	Galyna Tolstolutska, e-mail: gtolst2019@ukr.net
			DEPARTMENT "ION-PLASMA SURFACE	Galyna Tolstolutska, e-mail: gtolst2019@ukr.net

About reporting


- As of today, only RP1-reporting is exercised
- RP2 (M19-M36) reporting:** still not yet submitted; Portal can technically be opened for RP2 only after full termination of previous partners
- RP2 technical report practically already final, ready for submission
- Immediately after that submission: Portal open for **RP3 reporting** M37-M48
- RP4** M49-M63 = Final reporting: due May/June 2025

Project Number: 871072
Project Acronym: EURIZON
Project title: European network for developing new horizons for RIs

Periodic Technical Report Part B

Period covered by the report: from 01/08/2021 to 31/01/2023
Periodic report: 2nd


Reporting period: 01/08/2021 to 31/01/2023



Grant Management

871072 (EURIZON)

RIA



Call: H2020-INFRA-SUPP-2018-2020
Topic: INFRA-SUPP-01-2018-2019/Inf: REA/C/04

Summary for publication

Deliverables, Ethics, DMP, Other Reports

Milestones

Critical Risks

Publications


Dissemination and Communication

Intellectual property rights (IPR)

Open Data

Gender

ABS Regulation



Project Continuous Report

Deliverables, Ethics, DMP, Other Reports

For each Deliverable, a single file (max 52MB) can be uploaded

Show Filters | Clear Filters

WP No	Del Ref. No	Del No	Title	Description	Lead B	Nature	Dissemination	Ext. Del. Date	Rev. Due Date	Receipt Date	Approval Date	Status	
WP1	D1.1	D1	Kick-off meeting	Kick-off meeting	DES	Report	Confiden	31 Mar 2020	30 Mar 2020	31 Mar 2020	14 Dec 2021	Approved	
WP1	D1.2	D2	Kick-off workshops for WP2-WP7	Kick-off workshops for WP2-WP7	DES	Report	Public	31 Aug 2020	18 Sep 2020	14 Dec 2021	14 Dec 2021	Approved	
WP1	D1.3	D3	Appointment of the project body	Appointment of the project bodies & ToR	DES	Report	Confiden	31 Aug 2020	11 Sep 2020	14 Dec 2021	14 Dec 2021	Approved	
WP1	D1.4	D4	Data management plan	Data management plan	DES	ORDP: O	Public	31 Jul 2020	15 Sep 2020	11 Sep 2020	14 Dec 2021	Approved	
WP1	D1.5	D5	Annual meetings	Annual meetings in M12, M24, M36, M48	DES	Report	Public	30 Apr 2021	30 Apr 2021	30 Apr 2021	14 Dec 2021	Approved	
WP1	D1.6	D90	Kick-off meeting plus annual mee	Kick-off meeting plus annual meeting 2022 condu...	DES	Report	Confiden	31 Oct 2022				Pending	
WP1	D1.7	D91	Revision of appointed project bo	Revision of appointed project bodies & ToRs com...	DES	Report	Confiden	31 Oct 2022				Pending	
WP1	D1.8	D92	Revised data management plan	Data management plan revised	DES	ORDP: O	Public	30 Nov 2022				Pending	
WP1	D1.9	D93	Annual meeting 2023	Annual meeting 2023 conducted	DES	Report	Public	31 Oct 2023				Pending	
WP2	D2.1	D6	STS components assembled	STS components assembled	FAIR	G	Report	Public	31 Jan 2022	28 Jan 2022		Submitted	
WP2	D2.2	D7	STS system integration procedure	STS system integration procedure engineered	FAIR	G	Report	Public	31 Jan 2024			Pending	
WP2	D2.3	D8	Components of the STS data acq	Components of the STS data acquisition chain te...	WUT	Report	Public	31 Jan 2022	30 Apr 2022	08 Sep 2022		Removed	
WP2	D2.4	D9	Functional tests of the develop	Functional tests of the developed readout solution	WUT	Report	Public	31 Jan 2024				Pending	
WP2	D2.5	D10	Simulation results for selected ol	Simulation results for selected observables	MEPH	Report	Public	31 Jan 2022		28 Jan 2022		Submitted	
WP2	D2.6	D11	Physics performance for major ol	Physics performance for major observables	FAIR	G	Report	Public	31 Jan 2024			Pending	

Overview of Deliverables and Milestones

- **Deliverables:** project start: **total of 89**
- Adaptation of Work Programme
 - Minus 24 = 65 Deliverables
 - Plus 19 new ones = **84 Deliverables** (including „6 ethics-D“), or **78 Deliverables** without „ethics“
- **46 of 78 deliverables have been submitted** yet (plus 6 ethics plus 2 in the pipe = 54) → 32 D still to be delivered
- 23 deliverables (without WP9/10) will be submitted until end of January 2024
- WP9 & WP10: 6 D to be delivered until April 2025
- **Milestones:** 46 of 56 milestones have been achieved already



*A long long way to go... in
a period of more than 5
years*



23 deliverables due in month 48

Del Rel. No	Del No	Title	Lead Beneficiary
WP1			
D1.6	D90	Kick-off meeting plus annual meeting 2022	DESY
D1.8	D92	Revised data management plan	DESY
D1.9	D93	Annual meeting 2023	DESY
WP2			
D2.2	D7	STS system integration procedure engineered	FAIR GMBH
D2.4	D9	Functional tests of the developed readout solution	WUT
D2.6	D11	Physics performance for major observables	FAIR GMBH
D2.8	D13	Beam monitors, target chambers, beam pipes constructed	FAIR GMBH
D2.10	D15	Feasibility studies of new projectile spectator detector for CBM	NPI CAS
D2.11	D94	Technical design of new projectile spectator detector for CBM	NPI CAS



23 deliverables due in month 48

Del Rel. No	Del No	Title	Lead Beneficiary
WP3			
D3.9	D24	Final conceptual design of the high brilliance cold source	MTA EK
D3.10	D25	Publication of results on VCN transmission through novel VCN moderator materials	ILL
D3.12	D27	Python based data analysis software for advanced polarized neutron diffractometers	CEA
WP4			
D4.18	D98	Scientific report on collective effect studies and design solutions for low impedance vacuum chamber components in modern synchrotron light sources	INFN
D4.19	D99	Study report on a compact 6GeV high-brightness Linac (C-band) for top-up injection in storage rings and FEL applications	INFN
D4.20	D100	Report from the workshop	EuXFEL
D4.21	D101	Report on an optimized procedure for precise and reliable phase space measurements at high brightness photoinjectors	DESY
D4.24	D104	Report on the 2nd International workshop	ESRF



23 deliverables due in month 48

Del Rel. No	Del No	Title	Lead Beneficiary
WP5			
D5.5	D48	Report on development of collider technologies for lepton colliders	CNRS
D5.8	D51	Final report on R&D work on central tracker for a detector at future lepton colliders	INFN
WP7			
D7.6	D66	Design of demonstrator MAPS tracker for fixed target geometry	GUF
D7.7	D67	Prototype MIMOSIS sensor system	FAIR GMBH
D7.8	D68	Technical design report MIMOSIS tracker	FAIR GMBH
D7.9	D69	Constructed Multi Blade Neutron detector for ESS	ESS ERIC



7 deliverables due until the end of the project APRIL 2025

Del Rel. No	Del No	Title	Lead Beneficiary	Due month
WP3				
D3.8	D23	Cryogenic device for investigation of moderator/reflector prototypes	ILL	50
WP9				
D9.6	D105	Report on the EURIZON Fellowship Programme	DESY	62
D9.7	D106	Report on the Staff exchange programme	DESY	62
D9.8	D107	Report on the training programme for RIs management (EMMRI or tailored course)	UNIMIB	56
D9.9	D108	Report on the training needs in management of RIs in Ukraine	UNIMIB	62
WP10				
D10.1	D80	Recommendations for preventing brain drain from Ukrainian RIs	DESY	60
D10.2	D81	Report on the outreach and dissemination activities for the sustainability of Ukrainian RIs	DESY	60



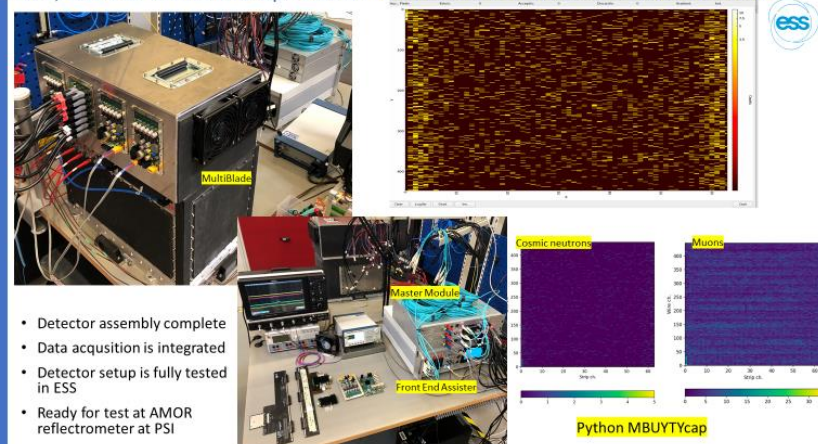
Technical WPs will end in January 2024

This project meeting in Prague will **portrait the excellent results its 7 technical work packages**, in dedicated presentations



WP2 Heavy Ions	Instrumentation for CBM experiment at ESFRI landmark FAIR	<u>FAIR</u> , WUT, Wigner RCP, NPI CAS, EKUT
WP3 Neutrons	Next generation moderators and instrumentation at existing European reactor sources and future sources	<u>FZJ</u> , CEA-LLB, ESS, Hereon, ILL, MTA-EK, TUM, UCA, UNIMIB
WP4 Synchrotrons	Collaboration with X-ray light sources in Europe	<u>ESRF</u> , DESY, EuXFEL, INFN
WP5 Lepton Colliders	Joint technology development around future lepton colliders	<u>CERN</u> , CNRS-IJCLab, INFN, JLU
WP6 High-power Lasers	Technology development for future multi-PW laser facilities	<u>CEA-LIDYL</u> , Laserlab-Europe AISBL, ELI-ERIC
WP7 Detectors	Joint development of detector technologies	<u>FAIR</u> , DESY, GUF, CNRS-IPHC, ESS, INR NASU, UNIMIB, WUT

WP7, Task 7.3: Multi-Blade Operational



- Detector assembly complete
- Data acquisition is integrated
- Detector setup is fully tested in ESS
- Ready for test at AMOR reflectrometer at PSI



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871072.

One Asset: Training young scientists in EURIZON

Both in non-technical as in technical WPs

Picture right side: **WP7 „EURIZON Detector School“** on particle detectors from July 17th to July 28th 2023

→ Training young scientists in **state-of-the-art particle detection technologies** = main purpose of the school

→ 65 students participated in the school, 52 of which are PhD students already professionally involved in particle detection technologies; **students origins span over 27 nationalities, from institutes in 18 countries**

WP6 High power lasers: picture on the right shows Laserlab Europe Training session at the Central Laser Facility (CLF), UK;

ELI-ERIC: launched **online lecture course on laser science for UA students** in Nov. 2023 – Jan. 2024: 202 registrants

WP9.3: Ukrainian young scientists taking part in **UNIMIBs EMMRI ´master course**

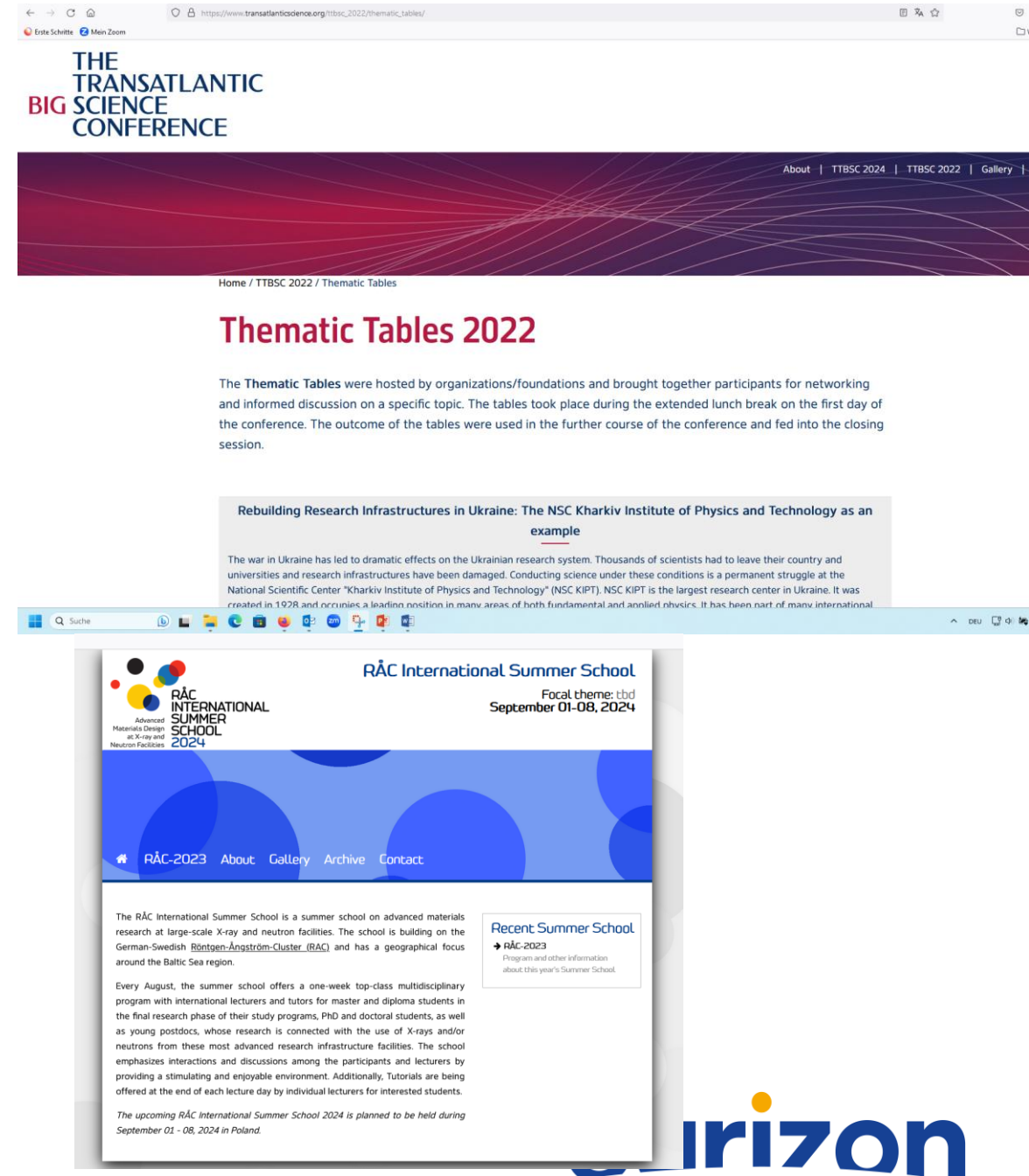
WP9.1 Travel grants for young scientists from EU and also UA, Israel, to take part in RAC Summer School 2022 (Varberg, Sweden) and 2023 (Lüneburg, Germany)



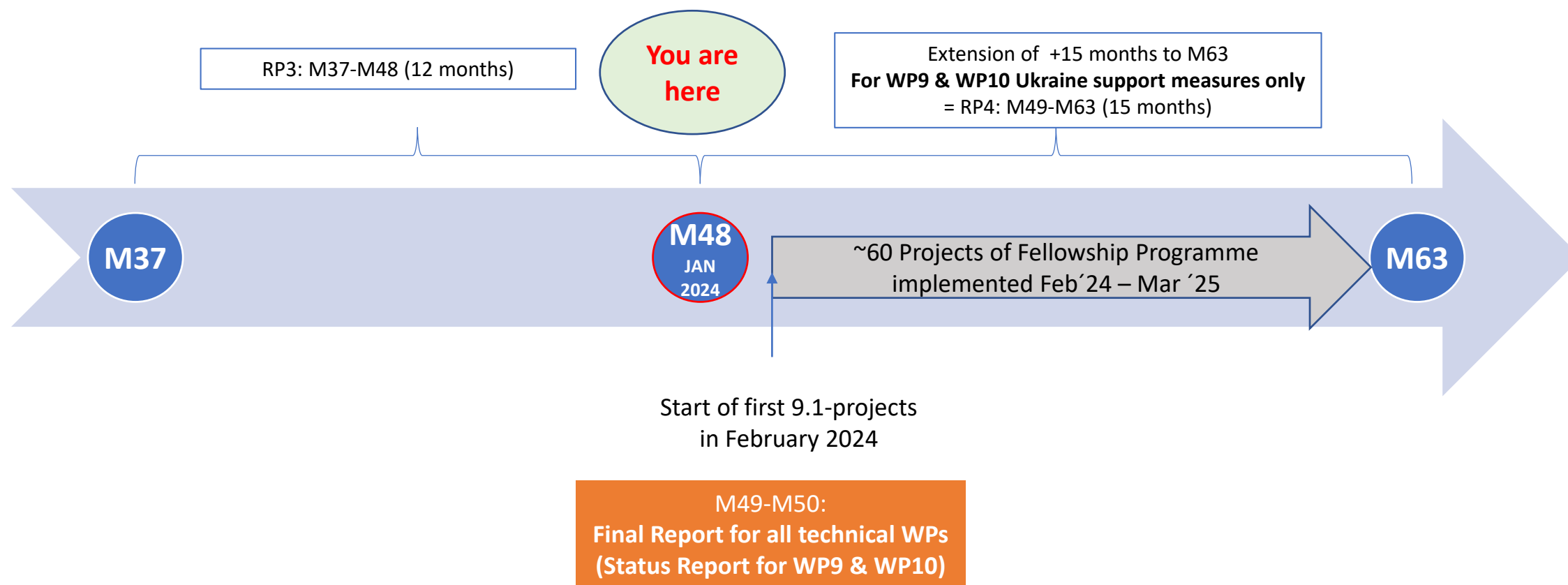
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Some outlook activities

- For WP 10.2 „Task 10.2: Outreach activities for the sustainability of Ukrainian RIs: **organise another Ukraine Round Table in the Transatlantic Big Science Conference 2024 in Berlin, June 2024**
- Organise the **RAC-2024 Summer School** in Krakow/ Poland, August 2024, with travel grants for participants from EU and specifically also from Ukraine
- Start **subcontracting NRFU** (National Research Foundation of Ukraine), and **carry out event in Ukraine in spring 2024**, dedicated to visit partners and stakeholders, organise one event to discuss status of RI Landscape in UA and identify most pressing needs for a recovery of the UA research infrastructures
- Implement and handle Fellowship programme WP9.1



Updated timeline



Big Thanks to:

NPI CAS team around Andrej Kugler and CVUT team around Petr Chaloupka

EB managers

GA chair Jürgen Eschke and GA members

SAC chair Jean Moulin and vice-chair Caterina Biscari and members

PO Pierre Quertenmont

And:

Team at DESY with Tom Minniberger and Juliane Marauska, for Ukraine support measures Greta Facile



**Thank you very much everyone, in Prague
and online!
Questions?**

