





CONTRIBUTING TO DEVELOPMENT OF THE RUSSIAN RESEARCH INFRASTRUCTURE THROUGH EUROPEAN CREMLIN AND CREMLINplus PROJECTS

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TWO PROJECTS UNDER HORIZON 2020 UNITED WITH A COMMON GOAL AND MAIN OBJECTIVES-I

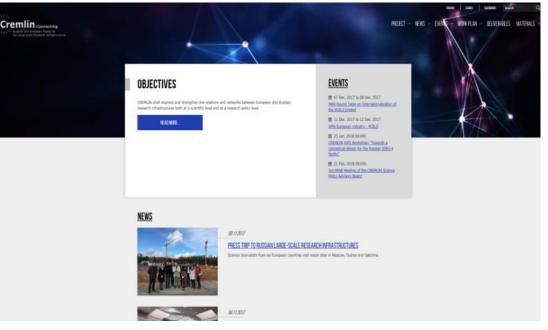
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NATIONAL RESEARCH CENTRE «KURCHATOV INSTITUTE»

I. CREMLIN: Connecting Russian and European Measures for Large-scale Research Infrastructures

Project addressed to support bilateral EU-Russia cooperation on research infrastructures, in particular, between Russian Mega science facilities and European research infrastructures, including the underpinning e-infrastructure.

- Coordinator: DESY (Hamburg, Germany)
- **Duration**: 01.09.2015 31.08.2018
- **Budget**: ~1.7 M€
- Funding Scheme: CSA Coordination and support action
- Key Partner: NRC "Kurchatov Institute"
- **Beneficiaries: 13** European and **6** Russian RIs



https://www.cremlin.eu/

TWO PROJECTS UNDER HORIZON 2020 UNITED WITH A COMMON GOAL AND MAIN OBJECTIVES- II



CREMLINplus as the successor to **CREMLIN** project will build on its achievements and the strategic recommendations Download: <u>https://www.cremlin.eu/materials/downloads/</u>

- Coordinator: DESY, Hamburg, Germany
- Key Partner: NRC "Kurchatov Institute"
- 35 Beneficiaries: 10 Russian and 25 European organizations
- Funding scheme: Research and Innovation Action (RIA)
- Duration: 48 months, proposed period: 01.02.2020 31.01.2024
- Budget: ~ 25 M€

CREMLINplus CONSORTIUM

Much **extended** CREMLINplus consortium, building on CREMLIN consortium:

25 participants from **9 EU MS** & **Associated Countries**: DE, FR, CZ, HU, IT, PL, BE, CH, UA

10 participants from Russia



List of participants

Particip	Participant short	Participant organisation name	Count
ant No *	name DESY	Stiftung Deutsches Elektronen-Synchrotron	DE
2	BINP	Budker Institute of Nuclear Physics of SB RUS	RU
3	IAP	Institute of Applied Physics, Russian Academy of Sciences	RU
4	ICISTE	International Centre for Innovations in Science, Technology and	RU
-		Education	
5	INR RAS	Institute for Nuclear Research of the Russian Academy of Sciences	RU
6	JINR	Joint Institute for Nuclear Research	RU
7	MEPhI	National Research Nuclear University "MEPhI"	RU
8	NRC KI	National Research Center "Kurchatov Institute"	RU
9	NUST MISIS	National University of Science and Technology MISIS	RU
10	PTI	IOFFE Physico-Technical Institute of the Russian Academy of Sciences	RU
11	SPSU	Saint Petersburg State University	RU
12	EKUT	Eberhard Karls Universität Tübingen	DE
13	European XFEL	European X-Ray Free-Electron Laserfacility GmbH	DE
14	FAIR	Facility for Antiproton and Ion Research in Europe GmbH	DE
15	FZJ	Forschungszentrum Jülich GmbH	DE
16	GUF	Johann Wolfgang Goethe-Universität Frankfurt am Main	DE
17	HZG	Helmholtz-Zentrum Geesthacht Zentrum für Material- und Küstenforschung GmbH	DE
18	JLU	Justus-Liebig-Universität Giessen	DE
19	TUM	Technische Universität München	DE
20	CEA	Commissariat à l'Énérgie Atomique et aux Énérgies Alternatives	FR
21	ESRF	European Synchrotron Radiation Facility	FR
22	ILL	Institut Max von Laue - Paul Langevin	FR
23	CNRS	Centre National de la Recherche Scientifique	FR
24	UCA	Université Clermont Auvergne	FR
25	ELI-DC AISBL	Association Internationale Extreme-Light-Infrastructure Delivery Consortium	BE
26	NPI CAS	Nuclear Physics Institute, Czech Academy of Science	CZ
27	MTA EK	Magyar Tudomanyos Akademia Energiatudomanyi Kutatokozpont	HU
28	Wigner RCP	Magyar Tudomanyos Akademia Wigner Fizikai Kutatokozpont	HU
29	INFN	Istituto Nazionale di Fisica Nucleare	IT
30	UNIMIB	Università degli Studi di Milano-Bicocca	IT
	ADSI (LTP*)	Austrian Drug Screening Institute GmbH	AT
31	CERN	European Organization for Nuclear Research	CH
32	WUT	Politechnika Warszawska	PL
33	ESS	European Spallation Source ESS ERIC	SE
34	INR NASU	Institute for Nuclear Research of NAS of Ukraine	UA
35	LLE-AISBL	Laserlab-Europe AISBL	BE

*No. Official participant number; *LTP: Linked Third Party

LIST OF CREMLINplus 10 RUSSIAN PARTICIPANTS

Participant	-	Participant organisation name	
No	name		
1	BINP	Budker Institute of Nuclear Physics of SB RUS	
2	IAP	Institute of Applied Physics, Russian Academy of Sciences	
3	ICISTE	International Centre for Innovations in Science, Technology and Education	
4	INR RAS	Institute for Nuclear Research of the Russian Academy of Sciences	
5	JINR	Joint Institute for Nuclear Research	
6	MEPhI	National Research Nuclear University "MEPhI"	
7	NRC KI	National Research Center "Kurchatov Institute"	
8	NUST MISIS	National University of Science and Technology MISIS	
9	PTI	IOFFE Physico-Technical Institute of the Russian Academy of Sciences	
10	SPSU	Saint Petersburg State University	

CREMLINplus: 1-st DIMENSION (i)

CREMLINplus will **facilitate the strengthening of the complementarity** between Russian Mega Science initiatives and their European counterparts.

CREMLINplus will specifically address:

Joint development and acquisition of specific instrumentation to be used by the European and Russian Infrastructures. This activity will specifically target the NICA and PIK initiatives and their European counterparts.

Joint conceptual and technical design of Russian Infrastructures of European interest. This activity will particularly target the SSRS-4 ["generation 4+ synchrotron source"] initiative and its European counterparts.

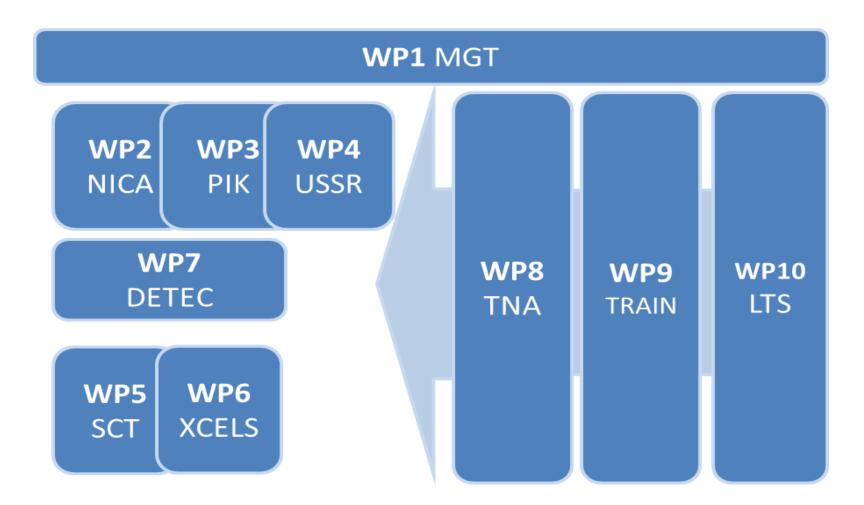
Joint development of future technologies required for Research Infrastructures' instrumentation







CREMLINplus WP STRUCTURE



CREMLINplus: 2-nd (ii) AND 3-d (iii) DIMENSIONS

ii) Facilitate the access of EU scientists to Russian Research Infrastructures

Contribute to overcoming the barriers that prevent European scientists from accessing Russian Research Infrastructures of European interest.

The project will support Russian Facilities in setting-up the appropriate access conditions and cover the travel and subsistence costs that European researchers would sustain in accessing the facilities.

The project will have to take into account the list of Research Infrastructures produced by the Russian Federation (shortlist currently being finalised) and the European Charter for Access to research infrastructures.

iii) Develop staff exchange programme:

The proposal will develop a staff exchange programme and thematic courses and workshops (e.g. summer schools), aimed at fostering exchanges of best practices on management practices, access procedures and scientific collaboration between infrastructure Staff and Scientists belonging to both the Russian Federation and European Union.

CREMLINplus: main expected results

Developing the models of transnational access to Russian RIs, adapted by the experiences of the case studies. At the end of CREMLINplus **approved transnational access schemes to Russian RIs will be made available for the European researchers.**

Successful delivery of the **knowledge/staff exchange programmes** for the operators, managers and administrative staff of Russian RIs

Russian fellowship programme to EMMRI (Executive MBA for Management of Research Infrastructures) and Pilot mentoring/coaching programme for leaders of Russian RIs will be delivered

CREMLINplus RI Management Training Academy under auspices of NUST MISIS will be established based on a concept of regular basis training courses and workshops on different issues dedicated to research infrastructures.

THANK YOU FOR YOUR ATTENTION

CONTACT INFORMATION

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