

## Project information

<b>Project full title</b>	Connecting Russian and European Measures for Large-scale Research Infrastructures – plus
<b>Project acronym</b>	CREMLINplus
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<b>Instrument</b>	Research and Innovation Action (RIA)
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## Document information

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## Introduction

This CREMLINplus deliverable gives an overview of all the WP-specific meetings, labelled as WP-kick-off meetings and dedicated to start the real work programme within the respective WP. The intention was to organise specifically the – in terms of resources and consortia – voluminous technical WP soon after the general project kick-off workshop, held in February at DESY in Hamburg. The developing COVID-19 pandemics and its related limitations of traveling made it necessary to change all the plans for any on-site CREMLINplus WP-kick off meetings. For this reason, the majority of the WP-kick-off meetings were not organized immediately after the project kick-off, but within the span of about seven months after February 2020. It should be emphasised, however, that in practically all the WPs, technical as well as non-technical, the work programme was started anyway after February 2020, specifically at the task-level.

WP-kick-off meetings – or “WP general meetings” – were organised not only with regard to the group of the seven technical WP, but also with respect to the three non-technical WP. All these WP-related general meetings were organised as virtual meetings on a remote basis, typically as Zoom-meetings.

Exception: WP6 XCELS and WP9 TRAIN:

WP6 XCELS general meetings (kick-off) was organised directly back-to-back with the project kick-off on 19 February 2020, at DESY in Hamburg, as a face-to face meeting. WP9 TRAIN kick-off meeting was organized immediately after the project kick off, namely on 21 February 2020, at UNIMIB in Milan, Italy, in the fashion of a face-to-face meeting.

- Technical WP: WP2 NICA, WP3 PIK, WP4 USSR, WP5 SCT, WP6 XCELS, WP7 DETEC
- Non-technical WP: WP8 TNA, WP9 TRAIN, WP10 LTS

The information on all WP-kick-off meetings is organized in two parts in this document:

- Part A: Summary
- Part B: Detailed information about the WP-kick off meetings.

Part B gives a compact overview about when the event took place and which are the main results.

Part B gives more detailed information about the participants of the event, the agenda, and detailed results.

### Special information concerning WP5 SCT and WP9 TRAIN:

The community of WP5 had a first informal general meeting, even before the CREMLINplus project start. The work programme was started after the project kick-off specifically at task-level, and the first general WP-meeting after February 2020 was scheduled for 27-28 September 2020.



## Part A: Summary

### WP2 NICA Kick-off Workshop

The WP2 kick-off workshop was conducted as an online meeting on 01.07.2020. 48 scientists of the WP2 partner organisations participated in the workshop. The sessions covered the status of the CREMLINplus project, an overview of WP2 activities was given, including dedicated sessions for Tasks 2.1 to 2.5. Result of the meeting: The work in all tasks is in progress and it is estimated that all milestones and deliverables can be achieved in time or with only little delay, despite of the difficulties faced by every participating institution due to the Corona pandemic.

Agenda, participant list as well as all presentations are available open access via the kick-off event website <https://indico.gsi.de/event/10807/>.

### WP3 PIK Kick-off Workshop

The WP3 kick-off workshop was held as an online meeting on 26.06.2020. It was conducted with 23 participants of all WP consortium partner organisations. The list of participants as well as the points discussed during the workshop are included in the minutes (see Part B).

The sessions gave an overview of all WP3 activities so far executed, including dedicated sessions for Tasks 3.1 to 3.9. The minutes of the meeting include a list of the members of the Scientific Advisory Committee (PIK-SAC) as well as the members of the seven specific PIK subcommittees.

### WP4 USSR kick-off Workshop

The WP4 kick-off workshop was held as an online meeting on 14.05.2020. It was conducted with 33 participants of the WP community. Agenda and minutes including the list of participants: see Part B.

### WP5 SCT Kick-off Workshop

The WP5 kick-off workshop will take place on 28./29.09.2020. The agenda can be found at this link: <https://indico.inp.nsk.su/event/37/>



This meeting will constitute the first general WP-meeting during project time and since the project kick-off in Hamburg. It aims at bringing together all participants of WP5. A series of prior WP5 meetings in various formats have been held since the start of the project. Due to the large size of the work package these meetings did not include all work package participants. A more detailed description of the WP5 launch status can be found in Part B.

## WP6 XCELS Kick-off Workshop

The WP6 kick-off workshop took place as a side-event during the CREMLINplus kick-off meeting. It was conducted at DESY with 12 participants from all WP6 partners. The workshop included presentations giving an overview of ELI-DC, Laserlab-Europe, of IAP RAS about the XCELS project, and of CEA-LIDYL in the context of the CREMLINplus WP6 work programme. The agenda together with a group picture from the workshop is attached in Part B.

## WP7 DETEC Kick-off Workshop

The WP7 kick-off workshop was held as an online meeting on 04.09.2020. It was conducted with 33 participants of all WP7 WP partners. The event introduced the project participants involved in WP7 and discussed the activities started within the work programme of WP7.

The full meeting with schedule and slides is available in Part B, and following the Indico link:

<https://indico.gsi.de/event/11083/>

Summary of the results of the meeting:

- mutual introduction of participating institutions
- key note talks, introducing the two very distinct research fields (detector R&D for neutron facilities; detector R&D for particle physics experiments) to each other as general
- presentations on the field, challenges and goals
- check on state of procurement: procurement is almost realised
- planning sessions for each of the two fields MAPS (Monolithic Active Pixel Sensors) and neutron detectors
- Agreement on the content of D7.1 (“neutron detector requirements”) with the decision to produce the deliverable in writing until the first week of October)

## WP8 TNA Kick-off Workshop

The WP8 kick-off workshop was held as a series of five web conferences between April and June 2020 conducted with the participation of all WP8 project partners and LIST-11 representatives. Special attention was drawn to keep the constant high level of cooperation in achieving two key objectives of WP8 activities:

- To contribute to overcoming the barriers that prevent European scientists from accessing Russian research infrastructures (Russian RIs)
- To support Russian facilities in setting-up the appropriate access conditions



Following the five webcon sessions, it became possible to build new contacts within the LIST-11 community and also to understand their preliminary expectations from taking part in CREMLINplus, in WP8 activities.

Highlights of joint future interaction with LIST-11 partners:

- Enhancement of existing collaboration with the international partners
- Partner search
- Access policy development
- External and foreign users friendly access procedures development
- Increasing number of foreign users
- Flexible access policy for the users involved in CREMLINplus WPs

Next step: LIST-11 self-assessment exercise to identify the main needs and challenges of the RIs access policies and evaluate the potential of access to Russian RIs for European researchers.

Link to presentations:

<http://mniop.ru/en/english-cremlinplus-wp8-kick-off-web-conferences-held-in-april-june-2020.html>

Further materials see Part B.

## **WP9 TRAIN Kick-off Workshop**

The WP9 kick-off workshop took place on 21.02.2020 in Milan, at the University of Milano-Bicocca, Italy. It was conducted with 10 participants of UNIMIB and NUST MISIS. DESY-representatives could not participate since the event was organized too close to the project kick-off event (one day after the kick-off). Next to discussing the work programme it included the signing ceremony of the MoU between UNIMIB and NUST MISIS.

Agenda, list of participants, key points and group photo from the signing ceremony: see Part B.

## **WP10 LTS Kick-off Workshop**

The WP10 kick-off workshop was held as an online meeting on 30.06.2020. It was conducted with 7 participants the two partner organisations, NRC KI and DESY. The event complemented an informal meeting that was conducted as a satellite of the CREMLINplus kick-off meeting.

The workshop was devoted to the preparation of a work plan for WP10 and to the indication of next steps. Participant list and agenda topics : see Part B.



## Part B: Detailed information about the WP-kick off meetings



# CREMLINplus WP2 kick-off meeting

Wednesday 1 Jul 2020, 13:30 → 17:30 Europe/Berlin

ZOOM (and KBW 5.29)

Jürgen Eschke (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

**Description** Video conference:

<https://cern.zoom.us/j/97681608493?pwd=ZTdyMHFzUFUyNEU5aHhzcDQvRVlqZz09>

Meeting-ID: 976 8160 8493

Password: 259210

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

**Registration**

Participants

48

Register

**Participants**

Adrian Rost, Alberica Toia, Alexandr Prozorov, Andrea Wilms, Andrej Kugler, Anna Senger, Arkadiy Taranenko, Christian Joachim Schmidt, Dmitri Dementiev, Elena Volkova, Fedor Guber, Gyorgy Wolf, Hans Rudolf Schmidt, Iaroslav Panasenko, Ilya Segal, Ilya Selyuzhenkov, Ingo Fröhlich, Jerzy Pietraszko, Johann Heuser, Jürgen Eschke, Kaja Scheliga, Kshitij Agarwal, Marek Guminski, Martin Sandhop, Michal Kruszewski, Michele Caselle, Mikhail Kapishin, Mikhail Shitenkov, Mladen Kis, Nikolay Karpushkin, Nikolay Karpushkin, Oleg Golosov, Ondřej Svoboda, Oxana Ivanova, Peter Senger, Petr Chudoba, Petr Parfenov, Pierre-Alain Loizeau, Piotr Bogdan Miedzik, Shaifali Mehta, Ulrich Frankenfeld, Vadim Volkov, Valery Kondratev, Vasily Mikhaylov, Volker Friese, Walter F.J. Müller, Wojciech Zablotny, Yuri Murin

Jürgen Eschke [j.eschke@gsi.de](mailto:j.eschke@gsi.de)

## 13:30 → 13:45 Status CREMLINplus EU project and overview WP2 activities

**Convener:** Jürgen Eschke (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

CREMLINplus-WP2 ... CREMLINplus-WP2 ...

## 13:45 → 14:30 Task 2.1: Integration, Installation, and test of Silicon trackers for NICA and CBM (FAIR, JINR, EKUT) (Task leader: Johann Heuser, GSI)

**Convener:** Johann Heuser (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

### 13:45 Task overview: Aim, participants, milestones and deliverables

5m

**Speaker:** Johann Heuser (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

J.Heuser-Task2.1-o... J.Heuser-Task2.1-o...

### 13:50 Towards Milestone 6 (Month 12): First detector ladder for BM@N-STs [assembled and tested]

20m

**Speaker:** Dmitri Dementiev (Veksler and Baldin Laboratory of High Energy Physics(JINR-VBLHEP))

Dementev\_Mileston...

### 14:10 Towards Milestone 7 (Month 24): Series production of detector ladders for CBM-STs started

20m

**Speaker:** Andrea Wilms (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

CremlinPlus-Kick-Of...

14:30 → 15:35

**Task 2.2: Developments for the data acquisition chain, for data preprocessing and computing (WUT, FAIR, JINR) (Task leader: Wojtek Zabolotny, WUT)**

**Convener:** Wojciech Zabolotny (Warsaw University of Technology(WUT))

14:30

**Task overview**

5m

**Speaker:** Wojciech Zabolotny (Warsaw University of Technology(WUT))

 T2\_2\_overview.odp  T2\_2\_overview.pdf

14:35

**Overview of the system. Contribution of FAIR to T2.2**

10m

**Speaker:** Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

 BM@N SiliconTrack...

14:45

**Requirements for DAQ and processing chain, Contribution of JINR to T2.2**

10m

**Speaker:** Dmitri Dementiev (Veksler and Baldin Laboratory of High Energy Physics(JINR-VLHEP))

 Dementev\_DAQ.pdf

14:55

**Contribution of WUT for T2.2**

10m

**Speaker:** Wojciech Zabolotny (Warsaw University of Technology(WUT))

 T2\_2\_WUT\_contrib...  T2\_2\_WUT\_contrib...

15:05

**Summary and discussion**

10m

**Speaker:** Wojciech Zabolotny (Warsaw University of Technology(WUT))

 T2\_2\_summary.odp  T2\_2\_summary.pdf

15:15 → 16:40

**Task 2.3: Development of common software packages for simulation and data analysis, participation in physics performance studies(MEPHI, FAIR, JINR, Wigner RCP) (Task leader: Arkadiy Taranenko, MEPHI)**

**Convener:** Arkadiy Taranenko (National Research Nuclear University MEPhI)

15:15

**Contribution MEPHI / GSI**

10m

**Speakers:** Arkadiy Taranenko (National Research Nuclear University MEPhI), Ilya Selyuzhenkov (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

 KremlinPlus meetin...

15:25

**Contribution JINR**

10m

**Speaker:** Yuri Murin (Joint Institute for Nuclear Research (JINR)(JINR))

15:35

**Contribution Wigner RCP**

10m

**Speaker:** Gyorgy Wolf (Wigner RCP)

15:45

**Coordination and planning**

15m

**Speakers:** Arkadiy Taranenko (National Research Nuclear University MEPhI), Ilya Selyuzhenkov (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

16:00 → 16:45

**Task 2.4: Development and construction of beam monitors, target chamber and beam pipe for NICA and CBM (FAIR, JINR) (Task leader: Peter Senger, FAIR)**

**Convener:** Peter Senger (Facility for Antiproton and Ion Research In Europe GmbH(FAIR))

16:00

**Topics and plans WP2.4**

15m

**Speaker:** Peter Senger (Facility for Antiproton and Ion Research In Europe GmbH(FAIR))

 CREMLINplus kick-o...

16:15

**Beam monitor/T0 counter**

15m

**Speaker:** Adrian Rost (Facility for Antiproton and Ion Research In Europe GmbH(FAIR))

 Rost\_Beam\_monitor...

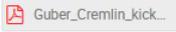
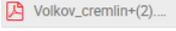
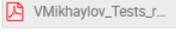
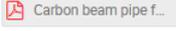
16:30

**Beam pipe simulations**

15m

**Speaker:** Anna Senger (Facility for Antiproton and Ion Research In Europe GmbH(FAIR))

 CREMLINplus CBM\_...

16:45 → 17:30		Task 2.5: Development and construction of Zero Degree Calorimeters for NICA and CBM (INR RAS, NPI CAS) (Task leader: Fedor Guber, INR)	
Convener: Fedor Guber			
16:45	<b>Task 2.5 - objective, participants, topics, organization of work</b>	Speaker: Fedor Guber	🕒 10m
			
16:55	<b>Calibration of forward hadron calorimeters with cosmic muons and determination of centrality by ML methods</b>	Speaker: Nikolay Karpushkin (Institute for Nuclear Research)	🕒 7m
			
17:02	<b>Development of procedure for MPD FHCAL centrality determination</b>	Speaker: Mr Vadim Volkov (INR RAS)	🕒 7m
			
17:09	<b>Development of DCS for the BM@N and MPD forward hadron calorimeters</b>	Speaker: Oleg Petukhov (Institute for Nuclear Research (INR)(INR))	🕒 7m
			
17:16	<b>Tests of radiation hardness of SIPM and scintillators</b>	Speaker: Vasily Mikhaylov (Nuclear Physics Institute CAS)	🕒 7m
			
17:23	<b>Carbon beam pipe for FHCAL and PSD</b>	Speaker: Petr Chudoba (Nuclear Physics Institute(ASCR))	🕒 7m
			

<https://indico.gsi.de/event/10807/>

## Draft Minutes

### CREMLINplus 2<sup>nd</sup> WP3 PIK Meeting

26.06.2020, 10:00 – 12:30 CEST

by Video Conference

*Venue: Europe*

**Date: June 26, 2020**

#### Participants:

No.	Beneficiary	Name
1	FZJ	Stefan Mattauch Alexander Ioffe Elena Abrosimova
2	NRC KI NRC KI PNPI	Sergey Grigoriev Petr Konik Victor Mityukhlyaev
3	HZG	Igor Krasnov Jochen Fenske Klaus Pranzas Helmut Eckerlebe
4	ESS ERIC	Luca Zanini
5	DESY	Martin Sandhop, CREMLIN Coordinator (observer) Kaja Scheliga Tom Minibereger
6	CEA	Arsen Gukasov
7	Ioffe Institute	Artur Dideikin Alexander Vul
8	ILL	Valery Nesvizhevsky
9	JINR	Egor Lychagin
10	TUM	Juergen Neuhaus Wiebke Lohstroh
11	MTA Energia	Alex Szakal
12	NCSU Burlington Laboratory	Ekaterina Korobkina (observer)
13	St. Petersburg State University	Not attended

#### 1. Welcome of WP3 Leader S.Mattauch (FZJ) and co-leader S.Grigoriev (NRC KI-PNPI)

- A. Ioffe (FZJ)
  - **Task 3.1: High-brilliance cold neutron source. Task 3.2: Bi-spectral neutron extraction system.**

- Talks were given by A. Ioffe and will be saved together with the Minutes on the CremlinPlus web page.
- P. Konik (NRCKI-PNPI)
  - **Task 3.4: General blueprint for the instrumentation at PIK.**
  - Talk was given P. Konik and will be saved together with the Minutes on the CremlinPlus web page.
  - Staff is already hired for NRC KI (PNPI) and HZG, TUM is in the hiring process
- A. Goukassov (LLB CEA)
  - **Task 3.5: Prototype of advanced polarized neutron diffractometer DiPol for PIK reactor.**
  - Talk was given by A. Goukassov and will be saved together with the Minutes on the CremlinPlus web page.
  - A. Goukassov asks the Project management at DESY for support of the collaboration agreement between LLB and NRC KI (PNPI) for collaboration around PIK. M. Sandhop agreed to support the process.
  - Hired person will start in August, three months delay so far due to Corona.
- E. Lychagin (JINR)
  - **Task 3.3: Development of advanced Very Cold Neutron Source.**
  - Talk was given by E. Lychagin and will be saved together with the Minutes on the CremlinPlus web page.
  - Deliverables and Milestones are in the project description different to the former agreed versions => has to be changed
  - Kick-off meeting is in preparation to fix the new timetable and to distribute the responsibilities.
  - Task leader will be now ESS and not ILL
  - Approval of leadership transition to ESS by COM will be organized by M. Sandhop in form of amendment to project agreement
  - PostDoc hired by ESS will start in August with improving the library for simulation.
- S. Grigoriev (NRCKI-PNPI)
  - **Task 3.6: Establishing the scientific infrastructure (SAC, instrument subcommittees) at the ICNR**
  - Talk was given by S. Grigoriev and will be saved together with the Minutes on the CremlinPlus web page.
  - Current state of the Scientific Advisory Committee (PIK-SAC):

SAC-Members:

Helmut Schober,	ILL, Grenoble	✓
Dieter Richter,	FZJ, Jülich	✓
Winfried Petry,	TUM, Munich	✓
Andreas Schreyer	ESS, Lund	✓
Helmut Zabel,	University of Bochum	✓
Gregory Chaboussant,	CEA-LLB	✓
Frank Schreiber,	University Tübingen	✓
Victor Ezhov,	KI-PNPI	✓

## PIK subcommittees:

During the kick-off meeting of the WP3 in Hamburg (19<sup>th</sup>-20<sup>th</sup> February, 2020) partners have agreed on potential members of sub-committees. They have been contacted and most of them have confirmed their participation (see table 2). Thus, all sub-committees are sufficiently staffed for a successful start.

Table 2: The members of the sub-committees (underlined are the names of chairpersons)

<b>Diffraction:</b>	<b>Spectroscopy:</b>	<b>Large Scale Structures:</b>	<b>Fundamental Physics:</b>
1. <u>Arsen Gukassov</u>	1. <u>Karin Schmalzl</u>	1. <u>Alexander Ioffe</u>	1. <u>Valery Nesvizhevsky</u>
2. Vyacheslav Em	2. Evgeny Klementjev	2. Mikhail Avdeev	2. Vladimir Voronin
3. Werner Schweika	3. Jörg Voigt	3. Ali Ezzel Metwalli	3. Yuri Kopatch
4. Martin Meven	4. Jiri Kulda	4. Stefan Mattauch	4. Egor Lychagin
5. Anatoliy Senyshin	5. Mich. Monkenbusch	5. Helmut Eckerlebe	5. Oliver Zimmer
6. Vladimir Hutanu	6. Margarita Russina	6. Viktor Bodnarchuk	6. Andreas Frei
7. Anatoly Balagurov	7. Victoria Garcia Sakai	7. Sebast. Mühlbauer	7. Ekaterina, Korobkina
	8. Wiebke Lohstroh		

<b>Moderators and Neutron Optics:</b>	<b>Sample environment:</b>	<b>Detectors: WP7</b>
1. <u>Ferenc Mezei</u>	1. Arno Hieß	<u>1. Sergey Kulikov</u>
2. Peter Link	2. Eddy Lelievre-Berna	2. Evgeny Altynbayev
3. Thomas Krist	3. Jürgen Peters	3. Günter Kemmerling
4. Michail Onegin	4. Alexander Weber	4. Gregor Nowak
5. Sergey Kulikov	5. Oleg Kirichek (rejected)	5. Richard Hall-Wilton
6. Alexander Ioffe		6. Bruno Guerard
7. Luca Zanini		7. Christian J. Schmidt

The preparation of a SAC Document (Terms of Reference), where the expectations, role, mission and tasks of the SAC is started; for sub-committees as well.

- **Task 3.7: Instrument specific education and training programs for engineers and scientists.**
  - Talk was given by S. Grigoriev and will be saved together with the Minutes on the CremlinPlus web page.
  - Taking in consideration the current planning uncertainty, the on-going CREMLINPlus portal could be used as organizational and communication tool.
- **Task 3.9: Coordination between all tasks.**
  - Talk was given by S. Grigoriev and will be saved together with the Minutes on the CremlinPlus web page.
  - These WP3-meetings are good basis for the communication between the subtasks
  - No artificial structure is needed to inform sub-committees
  - SAC is advisory committee to WP3 (CremlinPlus project) and not to PIK for the lifetime of the project. Later on SAC can be considered as the advisory committee for PIK

- J. Neuhaus (TUM)
  - **Task 3.8: User System.**
  - Talk was given by J. Neuhaus and will be saved together with the Minutes on the CremlinPlus web page.
  - Gatchina identified the person on site who will do programming job
  
- General discussion
  - The coordination between the LIST11 (WP8) and PIK
  - Publication databank of CREMLINPlus

Next WP3 meeting will be held in November/December



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## **CREMLINplus WP4 Kick-off Workshop**

**14 MAY 2020**  
**ZOOM conference**

### **About:**

*The four-year CREMLINplus project was started on 1<sup>st</sup> February 2020. This workshop is the starting event of the project. CREMLINplus is a Horizon 2020 project about EU-Russian collaboration in the area of large-scale research infrastructures.*

*The Kick-off Workshop of Work Package 4 will bring together the SSRS4 (SILA) project community from Europe and Russia.*

*The event aims at presenting and explaining the overall and structure of WP4 Tasks CREMLINplus, at clarifying the roles of the partners, and what is expected from the partners.*

### **Tentative Agenda**

<b>10:00-10:15</b>	<b>Registration</b>
<b>10:15</b>	<b>Welcome speeches (N. Marchenkov/ H. H. Riechert/ M. Sandhop)</b>
<b>10:30</b>	<b>The common WP4 presentation (R. Senin) (10+5)</b>
<b>10:45</b>	<b>Status report on 7 Tasks of WP 4</b>
	<b>Task 1 presentation (V. Dyubkov / S. Liuzzo)</b>
<b>11:00</b>	<b>Task 2 presentation (D. Liakin / K.-B. Scheidt, J.-M. Chaise)</b>
<b>11:15</b>	<b>Task 3 presentation (V. Rashchikov / M. Zobov)</b>
<b>11:30</b>	<b>Task 4 presentation (M. Lalayan / M. Ferrario)</b>
<b>11:45</b>	<b>Task 5 presentation (S. Polozov / F. Stephan)</b>
<b>12:00</b>	<b>Task 6 presentation (R. Senin / H. Riechert)</b>
<b>12:15</b>	<b>Task 7 presentation (T. Kulevoy)</b>
<b>12:30-13.00</b>	<b>Summing up, To do's and next steps</b>

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## CREMLINplus WP 4 Workshop:

### "Kick-off Meeting"

14.05.2020, 12.00-15.00, CEST

(via videoconference)

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Web conference facilitator: Timur Kulevoy, NRC KI

Minutes writer: Timur Kulevoy, NRC KI

Participants: Annex 1

### Minutes

#### 1. Welcome speeches and introduction

Nikita Marchenkov, Martin Sandhop and Harald Reichert welcomed the participants of the web-conference.

Nikita Marchenkov presented a short overview of the current status of the Synchrotron-Neutron Program in Russia.

Martin Sandhop presented the current status of the CREMLINplus project.

Harald Reichert introduced the WP4 tasks and general problems that have to be solved.

2. Roman Senin gave the WP4 presentation prepared for the CREMLINplus kick-off meeting in Hamburg on 19-20 February to give a general overview of the tasks.

Sergey Molodtsov pointed out that the European XFEL has expertise for undulators and that this is the point where they are ready to help the project.

3. Vyacheslav Dyubkov presented the goals, problems and current status of Task 4.1

Simone Maria Liuzzo pointed out that Task 4.1 includes also magnet systems. Timur Kulevoy explained that the magnet system strongly depends on the results of lattice simulations and the ESRF-EBS magnet system will be the starting point for the project.

Mikhail Zobov asked for preliminary results of the lattice development since it is very important for Task 4.3.

Timur Kulevoy explained that the current status of the lattice is far from the final one. He suggested to merge some of the activities of team members for Task 4.1 and Task 4.3.

Simone M. Liuzzo suggested to use, as a starting point, a scaled lattice of ESRF-EBS.

4. Dmitry Liakin presented the goals, problems and current status of Task 4.2

Oliver Seeck asked about X-ray BPMs as a part of the feedback system. Dmitry Liakin replied that they will be part of the feedback system even if they were not included in the Task deliverables.

5. Mikhail Zobov presented the progress for Task 4.3, where the team has made good progress. He pointed out one more time that for progress in this Task's activities it is necessary to build on results from lattice simulations.

6. Michail Lalayan presented the goals, problems and current status of Task 4.4

Mikhail Zobov presented Cristina Vaccarezza as the new responsible from INFN-LNF for Task 4.4 adding that Massimo Ferrario continues to contribute to the Project. Cristina Vaccarezza shortly presented her experience in e-linac development.

Timur Kulevoy asked Martin Sandhop whether it is necessary to go through some formal steps to include Cristina Vaccarezza as the responsible for Task 4.4. Martin Sandhop explained that no formal steps are needed.

Sergey Molodtsov asked what the procedure is to take a final decision on the linac design since sometimes decisions that are okay from a technical point of view are not useful from a scientific point of view.

**7. [Sergey Polozov presented the goals, problems and current status of Task 4.5](#)**

In addition to his presentation he pointed out that the cost of the project can be a serious limitation for choosing the injection scheme. The price of a short linac and booster is significantly lower than one for a full-energy top-up linac scheme.

**8. [Roman Senin presented the goals, problems and current status of Task 4.6](#)**

Mikhail Zobov asked about beam parameters required for different experimental techniques. Roman Senin mentioned, as an example, the standard mode of ESRF-EBS – 1 high current bunch plus 7/8 of the rest of the orbit filled with low current bunches. Oliver Seeck added that for short pulses special choppers might be needed at beamlines. Harald Reichert complemented that it is not advisable to tune beam parameters for single experiments since many beamlines are operational at the same time, so the actual filling pattern is always a compromise between different requirements. In turn, beamlines are optimized for the beam parameters “one can have”. Sergey Molodtsov added that ten beamlines are just a first step for 6 GeV machine. He suggested to add in the list of phase II beamlines a HAXPES beamline. He added that there is a sizable Russian community for this technique, in the range of 20 groups or more, and that such a beamline will be always be

overbooked. Martin Sandhop and Harald Reichert emphasized that this is the key point why a SAC and a decision-making body are urgently needed to fix a lists of phase I priority beamlines and a subsequent phase II list. Harald Reichert added that the Russian scientific community should work out a list of beamlines requested by the scientific community. Oliver Seeck pointed out that the beamlines could be rather long as at PETRA III (100 meters) and that one could accommodate two experiments at one beamline. He suggested to point this out to the SAC and the management of USSR4. Martin Sandhop reminded that USSR4 should not only satisfy the needs of Russian scientists but it should also be part of the European scientific landscape, which should be kept in mind during the USSR4 development.

## 9. Timur Kulevoy presented the problems and current status of Project coordination (Task 4.7)

## 10. Discussion

Frank Stephan raised the issue of the planned long visits of young Russian scientists in his Lab. Timur Kulevoy pointed out that 1.5 years ago when the CREMLINplus Project was under preparation the expectation was that only USSR4 would be developed in Russia. But with the recent decree (March 2020) by the Russian government now three photon science facilities are planned – the new facilities USSR4 and SKIF as well as the reconstruction of the KISI accelerator. Moreover, two big facilities based on ion accelerators are started – a Spallation Source and a nuclear medicine Center. As a result, there is now a strong deficit of experts in the field of accelerators and Russian team members cannot be sent for extended periods of time abroad. The Russian partners are trying to find solutions but it is unpredictable how much time it will take. Harald Reichert mentioned that without the training of a sufficient number of people there won't be enough experts to build and operate the new facilities. CREMLINplus is a good possibility to train

the young scientists at the most modern accelerators. Timur Kulevoy agreed but repeated that today there were not enough young people with a satisfactory starting level to send them to the ESRF, DESY and INFN. Frank Stephan mentioned that at DESY they have a call for PhD projects and students and suggested to find ways how they can be useful for USSR4. Mikhail Rychev mentioned the possibility of using the Association of Russian universities for increasing the number of Russian researchers involved.

## 11. Conclusion

A screen shot with all participants was taken.

Timur Kulevoy dispatched all presentations among the participants.

## 12. Afterwords

After the meeting it was an exchange of e-mails, where Ivan Vartaniants suggested to develop several scenarios for USSR4 facility as soon as it may take some time for establishing MAC and SAC for the USSR4. In the frame of CremlinPlus participants it is sufficient expertise to discuss and prepare suggestions for the management board of the USSE4 facility.

## Appendix 1

**CREMLINplus:**  
“WP4 Kick-off web-conference”  
14 May, 2020

### List of participants

	Country	Affiliation	Short form	First name	Last name
1.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Yong-Chul	Chae
2.	France	European Synchrotron Radiation Facility	ESRF	Jean-Michel	Chaize
3.	Russia	National Research Center “Kurchatov institute”	NRC KI	Vyacheslav	Dyubkov
4.	France	European Synchrotron Radiation Facility	ESRF	Jorn	Jacob
5.	Italy	Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati (National Institute for Nuclear Physics - National Laboratory of Frascati )	INFN-LNF	Massimo	Ferrario
6.	Russia	National Research Center “Kurchatov institute”	NRC KI	Ekaterina	Kolesnikova
7.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Mickail	Krasilnikov
8.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Gero	Kube
9.	Russia	National Research Center “Kurchatov institute”	NRC KI	Timur	Kulevoy
10.	Russia	National Research Center “Kurchatov institute”	NRC KI	Michael	Lalayan
11.	Russia	National Research Center “Kurchatov institute”	NRC KI	Dmitry	Liakin
12.	France	European Synchrotron Radiation Facility	ESRF	Simone Maria	Liuzzo

13.	Russia	National Research Center “Kurchatov institute”	NRC KI	Nikita	Marchenkov
14.	Germany	European XFEL GmbH	European XFEL	Sergey	Molodtsov
15.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Dmitri	Novikov
16.	Russia	National Research Center “Kurchatov institute”	NRC KI	Sergey	Polozov
17.	France	European Synchrotron Radiation Facility	ESRF	Pantaleo	Raimondi
18.	Russia	National Research Center “Kurchatov institute”	NRC KI	Vladimir	Rashchikov
19.	France	European Synchrotron Radiation Facility	ESRF	Harald	Reichert
20.	France	European Synchrotron Radiation Facility	ESRF	Jean-Luc	Revol
21.	Russia	National Research Center “Kurchatov institute”	NRC KI	Mikhail	Rychev
22.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Martin	Sandhop
23.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Oliver	Seeck
24.	Russia	National Research Center “Kurchatov institute”	NRC KI	Roman	Senin
25.	France	European Synchrotron Radiation Facility	ESRF	Kees-Bertus	Scheidt
26.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Frank	Stephan
27.	Russia	National Research Center “Kurchatov institute”	NRC KI	Anton	Targonskiy
28.	Russia	National Research Center “Kurchatov institute”	NRC KI	Alexey	Tishchinko
29.	Italy	Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati (National Institute for Nuclear Physics - National Laboratory of Frascati )	INFN-LNF	Cristina	Vaccarezza
30.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Ivan	Vartaniants

31.	Italy	Istituto Nazionale di Fisica Nucleare - Laboratori Nazionali di Frascati (National Institute for Nuclear Physics - National Laboratory of Frascati )	INFN-LNF	Mikhail	Zobov
32.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Kaja	Scheliga
33.	Germany	Deutsches Elektronen-Synchrotron (German Electron Synchrotron)	DESY	Tom	Minniberger

# WP5 launch status

Vitaly Vorobyev, BINP (WP5 leader)

September 16th, 2020

## General WP5 meetings

There were several WP5 meetings after the CREMLINplus project start, but none of them comprises representatives of all tasks, so we cannot entitle any of them as the WP5 kick-off meeting.

- The first, face-to-face, meeting of the WP5 participants took place on **September 19<sup>th</sup>, 2019 in Moscow** as a satellite event of the workshop on future super charm-tau factories (<https://c-tau.ru/>). The meeting agenda and slides are available: <https://indico.cern.ch/event/851809/>. It was already known by that time that the CREMLINplus application is supported by the EU. Representatives of all WP5 tasks participated in that meeting (only task 5.2 representatives participated remotely).
- The next WP5 meeting took place during the CREMLINplus kick-off workshop ([https://ctd.inp.nsk.su/wiki/index.php/CREMLINplus\\_kick-off](https://ctd.inp.nsk.su/wiki/index.php/CREMLINplus_kick-off)). The meeting was quite short and only one colleague from INFN participated, which is not enough considering INFN involvement in WP5. During that meeting we decided:
  - To assign two co-coordinators for each WP5 task (done)
  - To create wiki-pages for WP5 (done: <https://ctd.inp.nsk.su/wiki/index.php/CREMLINplus>)
  - To create indico space for WP5 (done: <https://indico.inp.nsk.su/category/4/>)
  - To create email-list for WP5 (done: [sct-cremlinplus@inp.nsk.su](mailto:sct-cremlinplus@inp.nsk.su))
- The next general WP5 (kick-off) meeting was originally planned as face-to-face meeting in June 2020, hosed by INFN, but was postponed due to the pandemic situation. The dates and format of that next meeting are fixed now: **online meeting on September 28-29, 2020**. The meeting indico page is: <https://indico.inp.nsk.su/event/37/>

## WP5 Communication after the project start

Communication within the WP5 after the project start is supplied by:

- WP5 task-specific online meetings. WP5 tasks coordinators are responsible for it.
- Email conversations and wiki pages. In particular, [first-year WP5 timeline](#) was assembled using these tools

## WP5 tasks co-coordinators

- Task 5.1. Vitaly Vorobyev (BINP)
- Task 5.2. Anton Bogomyagkov (BINP), Walid Kaabi (IJCLab), Aleksandr Starostenko (BINP)
- Task 5.3. Andrey Suharev (BINP), Andre Sailer (CERN)
- Task 5.4. Giovanni Bencivenni (INFN LNF), Lev Shekhtman (BINP)
- Task 5.5. Franco Grancagnolo (INFN Lecce), Ivan Logashenko (BINP)
- Task 5.6. Mustafa Schmidt (JLU), Alexander Barnyakov (BINP)

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



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## CREMLINplus WP6 Kick-off Workshop

19.02.2020, 10:00-12:00 CET

DESY, room O2.010 in the Building 28k

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### Objectives

This CREMLINplus Workshop is devoted to kick-off WP6.

*The workshop is an event within CREMLINplus WP6.*

*Lead beneficiary: IAP, CEA-LIDYL*

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### Agenda

10:00	<b>Welcome</b>
	<b>1. Personal introduction of the meeting participants</b> (everyone introduce himself during 2-3 min)
	<b>2. WP6 Beneficiaries introduction</b> (four talks, 15 minutes each)
	<b>3. Overview of WP6 tasks, deliverables, and milestones</b> (free discussion appr. 15-20min)

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*Workshop Organisers: WP6*

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## Participants

No.	Name	Institute
1	Efim Khazanov	IAP
2	Catalin Miron	CEA
3	Alexai Erko	IAP
4	Christian Seifert	IAP
5	Christophe Simon Boisson	Thales
6	Jean Claude Kieffer	INRS, ELI
7	Fabien Querre	CEA
8	Philippe Martin	CEA
9	Jens Biegert	ICFO
10	Claas-Göran Wahlström	Lund University/ LaserLab Europe
11	Daniela Stozno	MBI/LaserLab Europe
12	Florian Glikson	ELI



*WP 6 kick-off group photo*

# CREMLINplus WP7 kick-off meeting

Friday 4 Sep 2020, 10:00 → 18:20 Europe/Berlin



Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)) , Michael Deveaux

**Description** Video conference:

<https://cern.zoom.us/j/92323662936?pwd=R0xzYzFGdVVEaGNLzJweDhsZllvUT09>

Meeting-ID: 923 2366 2936

Password: 284606

**Registration**



Participants

33

Register

**Participants**

Anton Lymanets Benedict Arnoldi-Meadows Bohdan Popivchak Cesar Ceballos Christian Joachim Schmidt  
Christian Müntz Egor Lychagin Eszter Dian Evgeniy Altylnbaev Joachim Stroth Johann Heuser  
Jürgen Eschke Kshitij Agarwal Lucie Linssen Maksym Teklshyn Marc WINTER Martin Sandhop  
Mathieu Goffe Michael Deveaux Michal Koziel Mykhailo Pugach Otilia-Ana Culicov Oxana Ivanova  
Richard Hall-Wilton Roma Bugiel Sergey Kulikov Serhii Chernyshenko Szymon Bugiel Valery Pugatch  
Vasyli Dobishuk Vladimir Voronin Yuri Murin Ziad EL BITAR

**Contact:** [C.J.Schmidt@gsi.de](mailto:C.J.Schmidt@gsi.de)

## 10:00 → 10:25 Status of CREMLINplus EU project and overview of WP7 activities

**Convener:** Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

10:00

### Welcome and round table

15m

**Speaker:** Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

WP7-KickOff-Cremli...

## 10:25 → 11:05 Scientific questions and goals - an introduction

**Convener:** Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

10:25

### Toward next generation neutron detectors (t.b.c)

20m

The contribution should introduce the fundamental scientific questions of the neutron community to the MAPS community.

**Speaker:** Prof. Richard Hall-Wilton (ESS)

200904\_CREMLIN\_...

10:45

### MAPS detectors - the fundamentals

20m

The contribution will give an introduction into the challenges of precise charged particle tracking to members of the neutron community.

**Speaker:** Michael Deveaux

MAPS and charged ...

## 11:05 → 12:32 Introduction of activities and institutes: Introduction of activities and institutes Part 1

**Convener:** Evgeniy Altylnbaev

11:05

### R&D on MAPS: Status and plans at IPHC

20m

**Speaker:** Marc Winter (IPHC)

Cremlin-WP7-KickOf...

11:25

### MIMOSIS-0 - Time response and radiation tolerance

15m

**Speaker:** Michael Deveaux

MAPS activities at ...

11:40

### The PIK - facility

20m

**Speaker:** Vladimir Voronin

Vladimir Voronin.pdf

12:00

### Features of neutron detectors for correlative studies

12m

**Speaker:** Valery Pugatch (National Academy of Sciences of Ukraine(KINR))

V\_Pugatch-Features...

12:12

### The IBR-II facility and its instruments

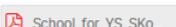
20m

**Speaker:** Lychagin Egor Valerievich (JINR)

12:32 → 13:42

Lunch break

1h 10m

<b>13:42</b> → 15:02	<b>Introduction of activities and Institutes: Introduction of activities and Institutes Part 2</b> Convener: Christian Müntz (Goethe-Universität Frankfurt (UF-IKF))	
<b>13:42</b>	<b>MAPS activities at GUF Frankfurt</b> Speaker: Michal Koziel (Goethe-Universität Frankfurt(UFm-HPF)) 	🕒 12m
<b>13:54</b>	<b>MPD-ITS on CREMLIN+ WP7 - MAPS activities JINR</b> Speaker: Cesar Ceballos (Joint Institute for Nuclear Research) 	🕒 12m
<b>14:06</b>	<b>MAPS activities at DESY</b> Speaker: Marcel Stanitzki (DESY) 	🕒 12m
<b>14:18</b>	<b>MAPS characterization by measuring spatial 2D-distributions of ions or photons</b> Speaker: Valery Pugatch (National Academy of Sciences of Ukraine(KINR)) 	🕒 12m
<b>14:30</b>	<b>Neutron detectors at PIK - Current Instrumentation and future needs</b> Speaker: Evgeniy Altyntbaev 	🕒 20m
<b>14:50</b>	<b>School for young scientists - Status and plans</b> Speaker: Sergey Kononov (Budker Institute for Nuclear Physics(BINP)) 	🕒 12m
<b>15:02</b> → 15:17	<b>Coffee break</b>	🕒 15m
<b>15:17</b> → 16:17	<b>Working program and discussions</b> Convener: Christian Joachim Schmidt (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))	
<b>16:17</b> → 17:17	<b>Toward Milestone MS7.1 (Define neutron detector to be build): Toward Deliverable 7.1 - Define the neutron detector to be build</b> Convener: Prof. Richard Hall-Wilton (ESS)	
<b>16:17</b>	<b>Detector requirements as requested from PIK</b> Speaker: Eszter Dian 	🕒 15m

<https://indico.gsi.de/event/11083/>

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**CREMLINplus:  
"WP8 Kick-Off web-conference"  
27 April, 2020**

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**Objectives:**

*This WP8 Kick-off web-conference is devoted to self-presentation of LIST 11 RI facilities*

*Lead beneficiary: ICISTE*

*Related CREMLINplus Deliverable: D 8.1 Survey on potential of access to Russian RIs for European researchers*

**Agenda**

**April 27, 2020 (13:00 CEST)**

13:00-13:25 (25 min)	<b>Welcome speech</b> <b>MSHE</b> (TBC – Andrey Anikeev), 5 min <b>DESY</b> (Martin Sandhop, Ute Krell), 5 min <b>ICISTE</b> (Irina Kuklina), 5 min  <b>Brief introduction of each participant</b> (tour de table), 10 min
13:25-14:15 (50 min)	<b>Session I – CREMLINplus Project overview</b> <ul style="list-style-type: none"><li>• <b>DESY</b> CREMLINplus Project introduction (Martin Sandhop, Hamburg), 20 min.</li><li>• <b>ICISTE</b> Brief WP8 introduction (Irina Kuklina, Moscow), 20 min</li><li>• <b>DESY</b> European Charter of Access presentation (Greta Facile, Hamburg), 10 min</li></ul>
14:15-14:55 (40 min)	<b>Session II - LIST 11 Research infrastructures presentations</b> <ul style="list-style-type: none"><li>• <b>NRC KI</b> The Kurchatov complex for synchrotron - neutron researches (Nikita Marchenkov, Moscow), 20 min</li><li>• <b>JINR</b> Pulsed fast reactor IBR-2 and IREN (Otilia Ana Culicov, Dubna), 20 min</li></ul>
14:55-15:10 (15 min)	<b>Break</b>
15:10-15:50 (40 min)	<b>Session III - LIST 11 Research infrastructures presentations</b> <ul style="list-style-type: none"><li>• <b>ICG</b> Genetic Resources Center for laboratory animals (Mikhail Moshkin, Evgenii Zavjalov, Novosibirsk), 20 min</li></ul>

	<ul style="list-style-type: none"> <li>• <b>SAO BTA and RATAN-600</b> (Yulia Sotnikova, Nizhny Arkhyz), 20 min</li> </ul>
15:50-16:30 (40 min)	<b>Final session</b> <b>Conclusions and next steps of WP8 (DESY, Greta Facile, 10 min Q&amp;A session)</b>

### Workshop Organisers: ICISTE, DESY

Mayya Bzhaniya +79253616525

### Overview Kick-off events WP8

Date	No	Organisation	Facility/ Presentation
April 27	1	National Research Center “Kurchatov Institute”	 <a href="#">The Kurchatov complex for synchrotron - neutron researches</a>
	2	Joint Institute for Nuclear Research	 <a href="#">Pulsed fast reactor IBR-2 and IREN</a>
	3	Institute of cytology and genetics of Siberian Branch of the RAS	 <a href="#">Genetic Resources Center for laboratory animals</a>
	4	Special Astrophysical Observatory of the RAS	 <a href="#">BTA and RATAN-600</a>
May 6	5	Federal Scientific Research Centre “Crystallography and Photonics” of the RAS	 <a href="#">Shared Research Center of FSRC “C&amp;F” “Structural diagnostic of materials”</a>
	6	Saint Petersburg State University	 <a href="#">Research Park SPbU</a>
	7	Joint Institute for Nuclear Research	 <a href="#">Cyclotron complex and SHE Factory</a>
	8	Institute for Nuclear Research; Joint Institute for Nuclear Research	 <a href="#">Unique scientific installation Baikal deep water neutrino telescope - Baikal-GVD</a>
May 27	9	National Research University Higher School of Economics	 <a href="#">Russian Longitudinal Monitoring Survey (RLMS-HSE)</a>
	10		 <a href="#">The Joint Economic and Social Data Archive (JESDA)</a>
	11	Northern (Arctic) Federal University named after M.V. Lomonosov	 <a href="#">Core Facility Center “Arktika”</a>
May 29	12	Budker Institute of Nuclear Physics of the Siberian Branch of the RAS	 <a href="#">Novosibirsk Free Electron Laser of terahertz range (NovoFEL)</a>
	13		 <a href="#">Complex of electron-positron collider VEPP-4-VEPP-2000 for high energy physics experiments nuclear physics research experiments with synchrotron radiation</a>
	14		 <a href="#">Complex of Long Open Traps</a>
	15		 <a href="#">Siberian Synchrotron and Terahertz Radiation Centre</a>
June 11	16	Federal State Budget Institution «National Medical Research Center for Obstetrics, Gynecology and Perinatology named after Academician V.I.Kulakov» of Ministry of Healthcare of Russian	 <a href="#">Research - Biobank for Reproductive Biology and Medicine</a>

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**CREMLINplus:  
"WP8 Kick-Off web-conference"  
27 April, 2020**

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**List of participants**

	<b>Country</b>	<b>Affiliation</b>	<b>Short form</b>	<b>First name</b>	<b>Last name</b>
1	Russia	Ministry of science and higher education	MSHE	Andrey	Anikeev
2	Russia	Ministry of science and higher education	MSHE	Albina	Kutuzova
3	Russia	International centre for innovations in science, technology and education	ICISTE	Irina	Kuklina
4	Russia	International centre for innovations in science, technology and education	ICISTE	Anastasia	Zadorina
5	Russia	International centre for innovations in science, technology and education	ICISTE	Mayya	Bzhaniya
6	Germany	Deutsches Elektronen-Synchrotron	DESY	Martin	Sandhop
7	Germany	Deutsches Elektronen-Synchrotron	DESY	Ute	Krell
8	Germany	Deutsches Elektronen-Synchrotron	DESY	Greta	Facile
9	Germany	Deutsches Elektronen-Synchrotron	DESY	Kaja	Scheliga
10	Russia	National University of Science and Technology "MISiS"	NUST MISiS	Andrey	Polyakov
11	Russia	National University of Science and Technology "MISiS"	NUST MISiS	Marine	Melkonyan
12	Russia	National University of Science and Technology "MISiS"	NUST MISiS	Igor	Schetinin
13	Russia	National University of Science and Technology "MISiS"	NUST MISiS	Mikhail	Gorshenkov
14	Russia	National Research Center «Kurchatov Institute»	NRC KI	Nikita	Marchenkov
15	Russia	National Research Center «Kurchatov Institute»	NRC KI	Ekaterina	Kolesnikova

16	Russia	National Research Center «Kurchatov Institute»	NRC KI	Roman	Senin
17	Russia	Joint Institute for Nuclear Research	JINR	Otilia Ana	Culicov
18	Russia	Institute of cytology and genetics of Siberian Branch of the Russian academy of science	ICG SB RAS	Mikhail	Moshkin
19	Russia	Institute of cytology and genetics of Siberian Branch of the Russian academy of science	ICG SB RAS	Evgenii	Zavjalov
20	Russia	Special Astrophysical Observatory of the Russian Academy of Sciences	SAO RAS	Yulia	Sotnikova
21	Russia	Special Astrophysical Observatory of the Russian Academy of Sciences	SAO RAS	Valeri	Vlasyuk
22	Russia	Special Astrophysical Observatory of the Russian Academy of Sciences	SAO RAS	Dmitry	Kudryavtsev
23	Russia	Special Astrophysical Observatory of the Russian Academy of Sciences	SAO RAS	Elena	Kaisina

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## **CREMLINplus-WP9 Kick-off Meeting**

**21 February 2020, 10:00 am (CEST)**

**University of Milano-Bicocca, Aula Senato, Piazza dell'Ateneo Nuovo, 1 - Milan, Italy**

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### **Objectives:**

*This CREMLINplus Workshop is devoted to the kick-off of WP9 (UNIMIB, NUST MISIS, DESY)*

*Lead Beneficiary: UNIMIB*

*Workshop organizer: UNIMIB (Contact: Prof. Enrico Guarini [enrico.guarini@unimib.it](mailto:enrico.guarini@unimib.it) mobile: +393388572824)*

### **Agenda**

- 10:00      **Welcome speech**  
Prof. Marialuisa Lavitrano, Director of the Executive Master in Management of Research Infrastructures (EMMRI)  
  
Prof. Enrico Guarini – Coordinator of the Executive Master in Management of Research Infrastructures (EMMRI), and of the Staff exchange and training for RI Management (WP9) in H2020 CREMLINPlus
- 10:15      **The University of Milano-Bicocca: Figures and Targets**  
Dr. Cinzia Corti, Head International promotion Office
- 10:35      **Department of Physics “G. Occhialini”**  
Prof. Giuseppe Gorini, Director of the Department of Physics “G. Occhialini”
- 11:00      **Department of Business and Law**  
Prof. Arturo Patarnello, Director of the Department of Business and Law
- 11:20      **Coffee Break**
- 11:40      **The National University of Science and Technology**  
Dr. Timothy Edward O’Connor, Vice-Rector of Academic Affairs
- 12:00      **Cooperation in the fields of Science and Management Education**  
Prof. Maurizio Casiraghi, Vice-Rector for Education
- 12:20      **Signing Ceremony**
- 12:30      **Closing of the meeting**  
Prof. Giovanna Iannantuoni, Rector of the University of Milano-Bicocca

13:00           **Lunch**

14:30           **Kick off meeting of Work Package 9-Staff exchange and training for RI Management – H2020 CREMLINPlus**

**Representatives of National University of Science and Technology:**

Dr. Timothy Edward O'Connor	Vice-Rector of Academic Affairs
Dr. Yulia Krasilnikova	Head of R&D Information Department in the Office of the Vice-Rector of R&D

**Representatives of the University of Milano-Bicocca**

Prof. Maurizio Casiraghi	Vice-Rector for Education
Prof. Arturo Patarnello	Director of the Dept. of Business and Law
Prof. Marialuisa Lavitrano	Full Professor, Dept. of Medicine and Surgery
Prof. Enrico Guarini	Associate Professor, Dept. of Business and Law
Dr. Markus Pasterk	Senior Advisor for International Relations & Head of EU-Office Vienna, ADSI-Austrian Drug Screening Institute (AT)-Linked Third Party UNIMIB for WP9, Visiting Professor EMMRI
Dr. Cinzia Corti	Head, International promotion Office
Dr. Agnese Cofler	Head, International Office
Dr. Simona Maraboli	Head, International Relations

**Apologies:**

Giuseppe Gorini – Director of the Department of Physics – UNIMIB  
Giovanna Iannantuoni – Rector – UNIMIB  
Marine Melkonyan – Coordinator of the National Contact Point for Research Infrastructures of EU Horizon 2020 - National University of Science and Technology MISIS Moscow

## Minutes

10:00 Welcome speech

Prof. Marialuisa Lavitrano – Director of the EMMRI

Prof. Enrico Guarini Coordinator of EMMRI

10:15 The University of Milano-Bicocca: Figures and Targets

Dr. Cinzia Corti

Figures and targets of University of Milano Bicocca:

- 3rd largest university in Lombard by student population
- 2nd highest ranked Italian university among those comparable in size, according to ANVUR (national agency for the rating of university quality and research)
- Number 69 on the list for best 250 universities less than 50 years' old, according to THE Times Higher Education.
- 8 out of 14 departments are defined as “of excellence”.
- With about 900 teachers and researchers, Bicocca offers a wide range of degree courses in Economics-Statistics, Law, Medicine, Phycology, Science, Sociology and Education.
- The available training offered includes: 32 Bachelor's Degree courses, 36 Master's Degree courses and 5 Long-cycle Master's Degree courses (5 or 6 years).
- There are 33,000 enrolled students, of which over 2484 are international.

11:05 Department of Business and Law

Prof. Arturo Patarnello

11:40 The National University of Science and Technology

Dr. Timothy Edward O'Connor

In the last years our University progressed in the major international rankings. In 2013 we were in no global rankings, but are distinctly visible now. Our mission is to benefit the local and national economy, indeed humanity in general.

Core priorities to realize our ambitions and values are:

- in research, generating breakthrough R&D for innovation;

- in education, nurturing global leaders and life-long learners for the digital economy; and in institutional change, continue transforming the NUST MISIS into a digital university to promote scholarship.

We developed a Russian national roadmap on quantum technologies in 2019. Our plan for a College of Quantum Technologies is an excellent example of our strategic integration of learning, research, and innovation in quantum communications.

Our policy in education is to nurture leaders in modern technology.

The entrance score on the unified standard examination rose by almost 20 points since 2012, and in 2019 we conducted the most successful admissions campaign in institutional history. We doubled the enrollment of students in Computer Science and also the proportion of international students.

International Masters:

- In 2015 Professor Liliya Bondareva and her fellow experts in human capital launched a master's program on Communications and International Public Relations
- in 2019 a new master's program on Second Language Teaching and Pedagogical Design in Digital Environments

Our University has progressed rapidly in institutional digital transformation. Our student-centered environment integrates digital and physical space for maximum student/staff cohesion and creativity, ensuring satisfaction across the generations, including the “digital natives.”

Our University has embedded technology, in particular on:

- Enterprise Resource Planning (ERP) facility for Russian higher education,
- NUST MISIS that develops as a "Smart University" in the context of Moscow: a world-leading "Smart City"

Our industrial partners contribute to the ongoing improvement of our infrastructure. Forbes ranked us No. 1 among Russian universities in 2019. Approximately 100 of our graduates are annually employed in Moscow research institutes, including the Russian Academy of Sciences.

12:00 Cooperation in the fields of Science and Management Education

Prof. Maurizio Casiraghi

12:20 Signing Ceremony



14:30 Kick off meeting of Work Package 9-Staff exchange and training for RI Management – H2020 CREMLINPlus

PARTICIPANTS in the project:

- University of Milano-Bicocca, Milan, Italy (UniMIB)
- National University of Science and Technology (NUST MISIS), Russian Federation
- DESY, Germany

### WP9 objectives

To deliver staff exchanges and managerial training for operators and scientific staff. This training goes beyond the specific technical trainings developed in WPs 2 to 7.

In particular, the aim is to:

- Develop and manage a fellowship/bursary and staff exchange programme
- Provide access to thematic, conferences, courses and workshops, to summer schools
- Foster exchanges of best practices on management practices, TNA including user services
- Train staff of Russian RIs on operating RIs with international user community
- Foster sustainable collaborations between Russian and EU RI Staff
- Enhance intercultural communication

## WP9's work plan

### **Task 9.1 – Fellowship programme**

Involved: NUST MISIS, UNIMIB, DESY

Expected output:

1. Survey of training needs
2. Survey of available courses and initiatives
3. Fellowship programme

The results of this task will be a starting point for the further activities within WP9.

Call for fellowships. Actions:

- Define the deadlines for calls to be launched each year
- Call options: 1) Open the call and wait for bottom-up proposals of course-fellowships from candidates 2) List of available courses/initiatives published and then open the call. This option could also allow bottom-up proposals

#### Option 2 is preferable.

- Appointment of the Strategic Review Panel (SRP) (8-10 members: experts understanding the management training needs of scientists plus 1-2 Representatives from the Russian Ministry of Science and Education)
- Guidelines and criteria for the assessment of fellowship applications (eligibility criteria and priority for selection. The SRP members makes the ranking of applications and then selection is granted within the available allocated budget.

This SRP should be different from the WP8 Panel (TNA access).

Beneficiaries of the fellowship programme:

1. People employed in Russian institutions (megascience projects and LIST-11)
2. Scientists in management positions
3. Scientists aiming to move in management positions

Fellowship: course fee, travel, accommodation and subsistence.

### **Task 9.2 – Organisational and delivery of staff/knowledge exchanges**

Involved: UNIMIB, NUST MISIS, DESY

Goal: To develop a mobile and multidisciplinary work force across RIs. Russian and European RIs to learn from each other

Target: Employees from Russian RIs (megascience projects and LIST-11)

Participants to staff exchanges benefit from the fellowship programme:

**Task 9.3 Russian Fellowship programme to EMMRI**

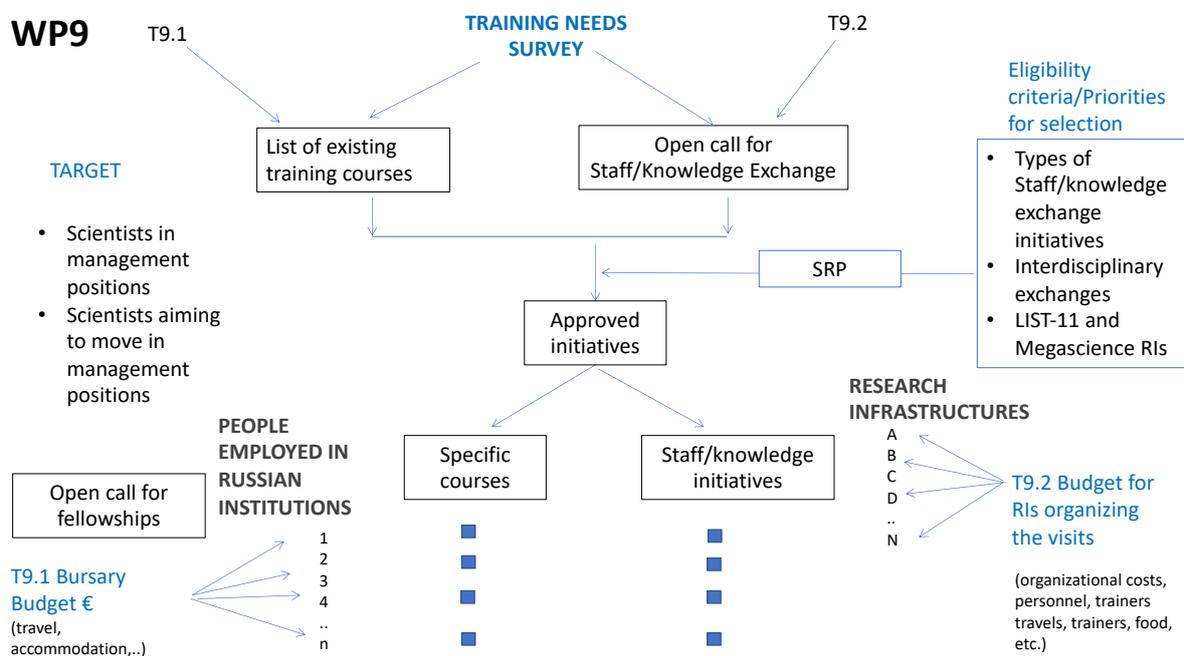
Involved: UNIMIB-ADSI, NUST MISIS

Beneficiaries: Leaders from Russian RIs to enroll in EMMRI. It is expected to allow and fund three times up to 7 individuals to be certified.

Actions: Fellowship programme:

- Open call for application – selection process (UNIMIB)
- Target groups (Leaders of Russian RIs – LIST 11 and mega-science projects)

**Summary for T9.1 and T9.2 activities (discussed in Hamburg)**



**Task 9.4 – Pilot mentoring/coaching programme for leaders of Russian RIs**

Involved: UNIMIB- ADSI, NUST MISIS

Goal: Increased leadership capacities and awareness of new and existing top leaders of Russian RIs

Actions:

- Identify the mentors/coaches
- Define the target groups
- Pilot the mentoring/coaching programme

### **Track 9.5 – Development of a Russian RI Management Training Academy**

Involved: NUST MISIS, UNIMIB- ADSI

Goals: Set up of the Russian RI Management Training Academy. This Academy shall work beyond the project duration and is one part of the sustainability requests for this project.

Ultimate goal: Launch of a Joint UNIMIB-NUST Executive Master degree programme in Management of RIs

Actions:

- The first step is the agreement between UNIMIB and NUST MISIS
- Set up of rules for knowledge transfer between UNIMIB and NUST Faculty members (7 face-to-face and 5 online modules)
- Up to 7 NUST MISIS trainers will visit UNIMIB and get involved in the development and delivery of EMMRI (<https://emmri.unimib.it/home-2/>) modules (7) during the first two years.



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## CREMLINplus WP 10:

### "Kick-off videoconference"

30.06.2020, 10:00 – 12:00 CEST

Videoconference via Zoom: <https://desy.zoom.us/j/6188039070>

Meeting-ID: 6188039070

dial-in

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#### Objectives

This CREMLINplus WP10 teleconference is devoted to the preparation of a work plan and indication of next steps.

*Lead beneficiary: NRC KI.*

*Related CREMLINplus Deliverable: all deliverables related to WP10.*

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#### Participants

Kolesnikova Ekaterina, NRC KI

Kravchuk Vladimir, NRC KI

Malyshev Andrey, NRC KI

Meyer Uwe, DESY

Minniberger Tom, DESY

Sandhop Martin, DESY

Scheliga Kaja, DESY

#### Excused

Vasiliev Andrey, NRC KI

Petrov Alexander, NRC KI

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## Minutes

30.06.2020

### Welcome and introductory remarks

Vladimir Kravchuk and Martin Sandhop welcomed participants to the meeting and introduced NRC KI and DESY teams.

### Topic 1: Work package updates

- Covid-19 still challenges the WP-related activities related to any face-to-face events. There is no clear understanding when all restrictions (incl. travelling and mass events) may be lifted.
- For the moment, NRC KI and DESY teams are planning the first event within CREMLINplus to take place in the beginning of 2021.

### Topic 2: Synergy

- Any synergy events related to Task 10.2 are now under the influence of Covid-19.
- Concerning Task 10.1 NRC KI proposed to develop a list of questions (questionnaire) which should cover the focusses of this task: management and governance, complementarity of instrumentation, legal issues, intercultural communication challenges a.o.
- The questionnaire is intended to be filled in through project participants, already experienced in science collaboration with partners in Russia. Further, external experts, having years long knowledge and experience from joint performance in science management, including decision makers on political level, should be requested to provide fill-in-contribution to the questionnaire. The content of fillings should be evaluated (through the WP 10-Team) and structured to a compact result, which will be presented and discussed at the occasion of a dedicated Workshop of CREMLINplus-WP-participants (from all WPs). Expected



results of the WS: Suggestions and recommendations to overcome or to reduce related problems and obstacles.

- NRC KI and DESY will jointly develop the format of questionnaire. As inventor the Russian Partner declared readiness to prepare a first list of topics for discussion.
- Both teams agreed to prepare a draft list of suggested topics of mutual interest for all technical WPs. The document should also contain a brief description of an expected outcome. Next step will be a discussion of its content with WP leaders WP2-WP7.

### Topic 3: Strategy

- This task 10.2 implies the establishment and strengthening of long-term collaborations between European strategic initiatives such as LEAPS, LENS and ESFRI and Russian Megascience projects.
- Bearing in mind the need to coordinate contacts with the European Commission and the management of large-scale research infrastructures, NRC KI and DESY teams agreed to discuss further steps, including upcoming events of the consortiums.

### Topic 4: Innovation

- Both teams agreed that the first event related to Task 10.3 to be realized is a workshop on «Interaction of Large-scale Infrastructures with the Industrial Sector: experience of existing European RI».
- If WS is to be organized in the beginning of 2021 then it might be attached to the GA annual meeting, which is preliminary scheduled for spring 2021. (Feb-Apr 2021), the exact date yet to be determined.
- The worst-case scenario is the realization of the WS in the digital format. Both sides seek to avoid this format.



- The focus of the event is on the relations of large-scale research facilities and industry, European experience and projects at the initial stage of realization.

### Topic 5: Science Diplomacy

- In order to fulfill this task 10.4 it is planned to organize an International Conference related to Science Diplomacy.
- It was noted that this event would require an extended preparation.

### Any other business

#### DESY and European XFEL trip to Russia

- For the planned DESY and European XFEL travel to Russia and to Moscow in 2021 , there is now one option left:  
**Sun 27 June – Fri 2 July 2021** (with joint activities with KI on Monday 28 June 2021)
- Draft agenda will follow from DESY

### Wrap up and outlook

- A timeline for WP10 tasks should be produced in order to prepare a clear working plan taking into account the influence of the Covid-19.

