



Strategy Group 1 – Synchrotron Facilities

Report on Ongoing and Future Activities

Amina TALEB-IBRAHIMI

LEAPS Plenary Meeting 20 October 2021

SG1 members

- Klaus Attenkofer, ALBA. *Hard X-ray Spectroscopy, material science, energy*
- Riccardo Bartolini, Desy. *Ultra-low emittance ring physics and technology.*
- Giacomo Ghiringhelli, Polimi. *Condensed Matter Physics, X-ray Spectroscopy.*
- Luca Gregoratti, Elettra. *Surfaces-Interfaces, Spectromicroscopy.*
- Alexander Foehlich, BESSYII. *Ultra-fast science, Physical chemistry, SR and FEL's.*
- Harald Reichert, ESRF. *High energy X-rays material science, SR instrumentation.*
- Christian Schroer, Desy. *Nanoresearch, X-ray optics, X-ray microscopy*
- Amina TALEB-IBRAHIMI, SOLEIL. *Low dimensional systems, ARPES, SR instrumentation. **Chair***
- Moniek Tromp, Gröningen. *Materials Chemistry, catalysis. **Vice-Chair***

- Yvonne Jones, UK. *Structural Biology (has stepped down)*
- Gwyndaf Evans, Diamond. *Biocrystallography, suggested new member, willing to serve*
- New members contacted

- Michele Svandrlík, Elettra / John Bozek, SOLEIL SG2 members invited

SG2 2021 ongoing activities

- **Web seminar series:**
- **Harald reichert, ESRF:** Feedback from the new ESRF-EBS Synchrotron
Nov, 12th, 2021 11:00-12:00
- **Marjolein Thunissen, MAX-IV,** Jan., 2021, *tbc*
- **Oliver Bunk, PSI,** March, 2021, *tbc*
- Involvement in **R&D Board**, *with chair or vice-chair.*
- Contribution to the **Position Paper on DIGITAL LEAPS.**
- Fruitful **interaction with SG2**, with representatives attending the meetings and joint meeting at the Plenary: joint proposal to the GA for the topic of the **LEAPS 2023 Conference**, GA agreed on “*LEAPS meets emerging Challenges in Life Science*”.

Interaction with WG's

		SG1	SG2
WG1.1	Detectors	Luca Gregoratti	Hermann Dürr
WG1.2	Optics and Beamline Instrumentation	Amina Taleb	Elke Plönjes
WG1.3	Sample Environment	Moniek Tromp	Majed Chergui
WG1.4	Photon Diagnostic		John Bozek (tbc)
WG2	Photon Sources	Christian Schroer	Sverker Werin, Luc Patthey
WG3	Data Management & Software	Giacomo Ghiringuelli	Anton Barty
WG4	Industry & Innovation		
WG5	User Services & Impact	Klauss Attenkauffer	Francesca Calegari
WG6	Education, Training & Outreach		



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Future Activities

- Discuss LEAPS identity → Strategy → EC
- Collect ideas from the base of synchrotron facilities and user community. Bottom up approach.
- Provide a scientific watch and identify specific contributions of our RIs.
- Identify common projects that could federate LEAPS facilities.
- Elaborate together with SG2 and WG's technical development of interest for LEAPS facilities.
- Elaborate Data Science project.
- Organise common scientific events, exchanges:

Soft X-rays workshop (Luca Gregoratti, Amina Taleb, Klaus Attenkofer):
Opportunities in the soft-X ray range with DLSR sources 2022

- Discuss Openness to new users.



Strategy Group 2 – Free Electron Lasers

Report on Ongoing and Future Activities

Majed Chergui

LEAPS Plenary Meeting 20 October 2021

SG2 Members

SG 2 Free Electron Lasers---FELs OF EUROPE			Field of expertise relevant to SG2 activities within LEAPS
Barty	Anton	CFEL-DESY	Diffraction experiments; instrument and experiment design; X-ray optics; analysis, data and computing issues; FELs for structural
Bozek	John	SOLEIL	Soft x-ray FEL experiments, experiment design, Synchrotron radiation experiments, soft x-ray optics
Calegari	Francesca	University of Hamburg/DESY	Ultrafast optics, ultrashort pulse generation from the near infrared to the soft-x, AMO, time resolved measurements in small
Chergui	Majed	École Polytech. Lausanne	Hard X-ray absorption and X-ray emission spectroscopies, ultrafast Ultraviolet to visible spectroscopies with table-top systems,
Dürr	Hermann	Uppsala University	Ultrafast solid state spectroscopy and scattering with x-rays and electrons probing electronic, spin and lattice degrees of freedom.
Molodtsov	Serguei	European XFEL	Spectroscopic photon-in electron-out studies (FELs and SRs) of solid-state quantum materials.
Patthey	Luc	PSI	SR and FELs photon source and beam transport. Photoelectron and X-ray Spectroscopies on condensed matter and quantum material.
Plönjes	Elke	DESY	Soft X-ray FELs, photon diagnostics, optics and photon beamline development, user operation, AMO and plasma physics
Redlich	Britta	Radboud University	Free Electron Lasers, Infrared and THz (time-resolved) spectroscopy, (Bio)molecular and astro physics and chemistry
Schlemmer	Stephan	University of Cologne	Molecular physics, astrophysics and chemistry; Infrared and THz (high-resolution and time-resolved) spectroscopy and collisions
Svandrlik	Michele	FERMI - Elettra	FELs and SR accelerator and photon sources, technologies and operation
Werin	Sverker	MAX IV	Accelerators, FEL, seeding, undulators, education



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SG2 2021 ongoing activities

- **Tutorials webinar series:** organized together with **FELs OF EUROPE**, they started in March and are regularly programmed every month. They are addressed in particular to students and young scientists. *Speakers: G. Margaritondo, J. Marangos, J. Oomens, N. Rohringer, A. Nilsson, F. Calegari*
- Involvement in **R&D Board**, with spokesperson and 2 co-spokespersons.
- Contribution to the **Position Paper on DIGITAL LEAPS**.
- Fruitful **interaction with SG1**, with representatives attending the meetings and joint meeting at the Plenary: joint proposal to the GA for the topic of the **LEAPS 2023 Conference**, GA agreed on “*LEAPS meets emerging Challenges in Life Science*”.
- SG2 **Document Repository** on the DESY SYNC SHARE, one for internal working documents and one with final documents open to LEAPS community.

Interaction with User Networks

- **WavemiX**, an EUV and soft to hard X-ray non-linear science network.
- Beginning of 2021, contacts started with SG2 in order to establish a link between WavemiX and LEAPS.
- After discussing this within SG2, the R&D Board and GA, it was suggested to have a representative of Wavemix within SG2 (M. Chergui).
- The WavemiX network is presently active in developing ideas for a proposal to be submitted to the HORIZON-INFRA-2022-TECH-01-01 CALL (deadline April 2022) R&D for the next generation of scientific instrumentation, tools and methods, focused on the development of Time Resolved Spectroscopies, e.g, Non Linear Spectroscopy and Photoemission Spectroscopy – involving FELs and synchrotrons: **TREASURE** (*Time Resolved Experiments and Advanced Setups for Users Research in Europe*)

Studies and developments towards full coherent radiation at FEL facilities, scientific case

- The topic was proposed as an internal project last year by SG2 (see our presentation at the Plenary 2020) and this then triggered interactions with WG2 (WG2 meeting in March 2021).
- We then invited Harald Sinn (European XFEL) to present to SG2 the XFELo project at the European XFEL.
- The possibility of starting a LEAPS internal project for fully coherent light sources was explored by a group of people in WG2, including Sverker Werin (SG2&WG2).
- As a starting point, to gain interest and momentum, the plan is to *organize a meeting/workshop in collaboration with FELs of Europe* discussing the fundamental topics in **Microbunching**, possibly complemented by **Simulations**.

Future Activities

- Analysis in collaboration with SG1 on how to embed within LEAPS User Networks interested in establishing relationships with us (context, opportunities, limitations, modality...).
- Continue the tutorial webinar series, assessing participation and interest by the end of 2021.
- Elaborate strategic developments, in connection with SG1 and WGs, that can be inspirational for both LEAPS internal projects and for proposals for HE calls in the second part of the program (2023 onwards).



Strategy Group 1.1 – Detectors

Report on Ongoing and Future Activities
Heinz Graafsma

LEAPS Plenary Meeting 20 October 2021

Agenda

- LEAPS-Innov: The Germanium project (Fabienne Orsini and Nicola Tartoni)
- A few years back we devised the LEAPS Detector Roadmap, with a number of development directions. Can/do we need we give an update?
- When can we meet again in person and where?
- We need a successor for the WG1.1 Spokes person

LEAPS-Innov: Next generation Germanium Detectors

REMINDER OF THE OBJECTIVES OF THE PROJECT

1. To develop a Ge prototype detector which is:
 1. not excessively complicated;
 2. affordable;
 3. compact.
2. To develop technologies that can be used for scaled up versions of the prototype (e.g. more channels)



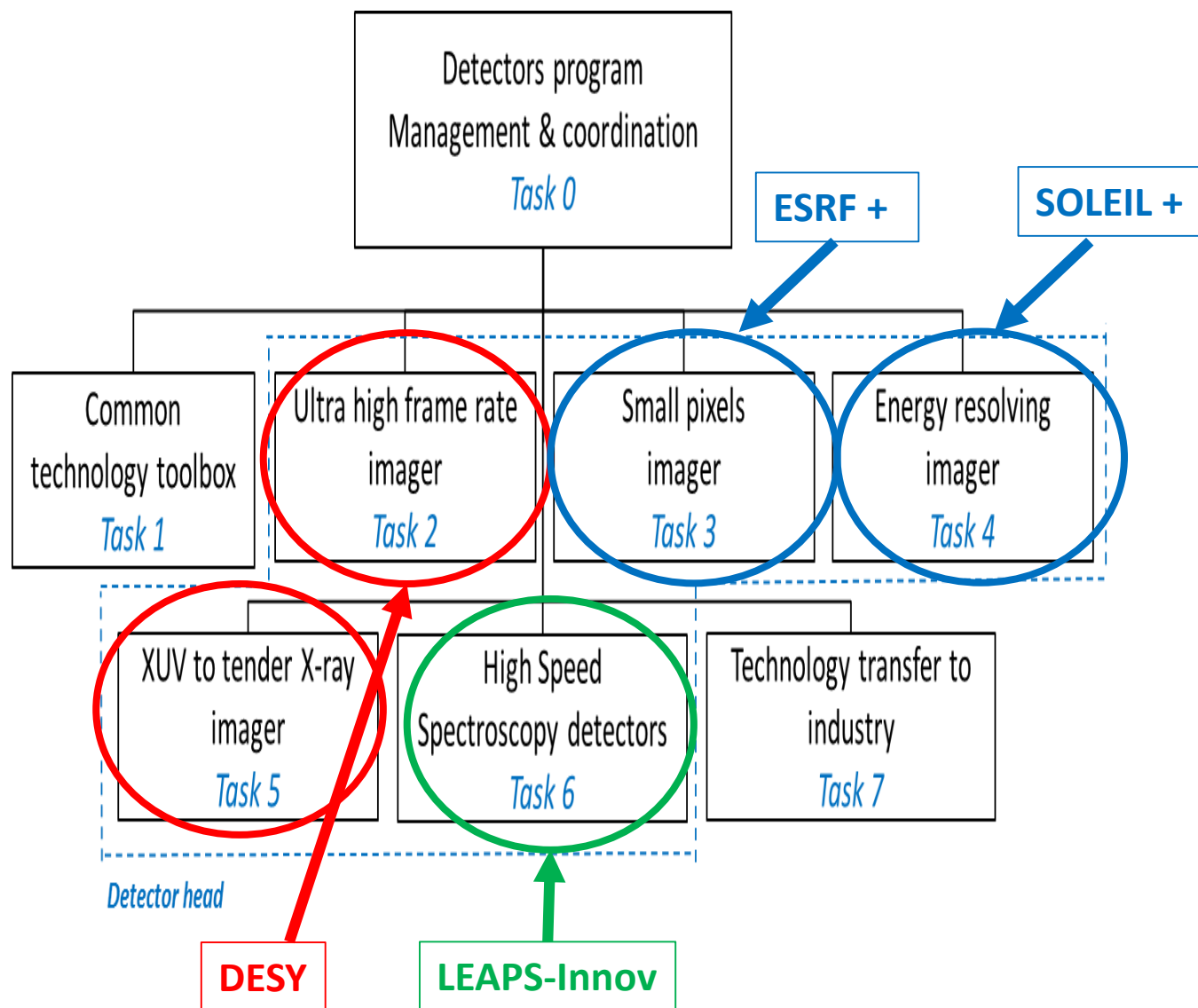
***Prototype characteristics as specified in the
Conceptual Design Report***

LEAPS-Innov: Next generation Germanium Detectors

Deliverables at the end of the project:

- 2 prototypes (with 2 versions of the Ge sensor)
 - Evaluation of the possibility of technological transfer and/or industrial production
-
- Task 2.0: Project coordination (DIAMOND, SOLEIL)
 - Task 2.1: [Industry involvement and Conceptual Design](#) (SOLEIL, DIAMOND, ESRF, DESY, ALBA-CELLS, ELETTRA, INFN, PSI, SOLARIS, ULUND)
 - Task 2.2: [Germanium sensors development and procurement](#) (DIAMOND, DESY, ESRF, SOLEIL)
 - Task 2.3: [Front-end electronics](#) (multi-channel integrated preamplifiers), [carrier printed circuit board and back-end electronics](#) (SOLEIL, DIAMOND, ELETTRA, ESRF)
 - Task 2.4: [Development of interconnections between Ge sensor and front-end electronics](#) (DIAMOND, DESY, SOLEIL)
 - Task 2.5: [Cryostat, cooling system](#) (DESY, ALBA-CELLS, ESRF, SOLEIL)
 - Task 2.6: [Readout system: digital electronics and software](#) (DIAMOND, ELETTRA)
 - Task 2.7: [Assembly of the detector head, thermal and electrical acceptance tests](#) (ESRF, DIAMOND, SOLEIL)
 - Task 2.8: [Characterization tests in laboratory and on beamline](#) (ESRF, DESY, ALBA-CELLS, DIAMOND, ELETTRA, INFN, PSI, SOLARIS, SOLEIL, ULUND)

• LEAPS – WP1.1: Detectors Roadmap



- Different facilities have started to work on different tasks
- Increasing collaboration between sources
- Increasing involvement of Universities and Research Facilities

What is next?

- Planning a face-to-face meeting early 2022 to:
 - Exchange information on ongoing and planned projects / developments
 - Discuss and revisit the Detector road map
 - Discuss funding opportunities
 - Elect a new spokes-person



WG 1.3 Report on ongoing and future activities

Klaus Kiefer, spokesperson WG1.3
LEAPS plenary meeting, 20 October 2021

WG 1.3 Experiment Environment - Status report

General activities

- Regular video meetings
- Involvement in R&D board
- Parallel activities in ISSE (International Society for Sample Environment)

LEAPS-INNOV WP5

“New positioning and scanning systems for speed and accuracy”

- Kick-off April 2021: Start of project phase
- Tasks 5.1 .. 5.4 all working well
- Regular meetings

Task 5.1: Translation and rotation on the nanometer scale

- Procurement: Competitive Dialogue

Task 5.4: Standards for room temperature experiments with microcrystals and liquids

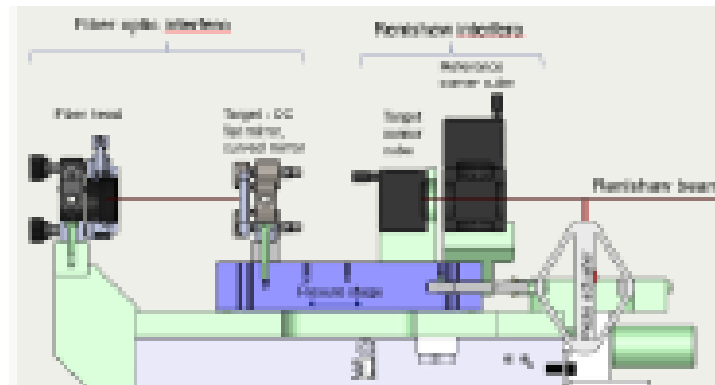
- good progress on different approaches (microfluidic, acoustic levitation)

Task 5.2 High accuracy online metrology based on interferometry sensors

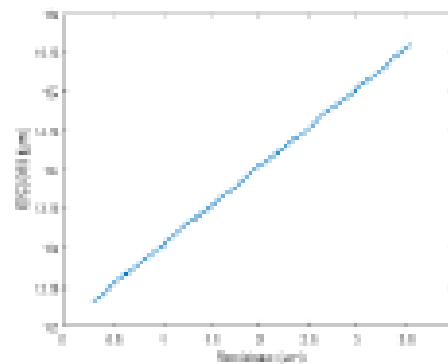
Co-ordinators: ESRF, HZB

Partners: ALBA-CELLS, PTB, SOLEIL

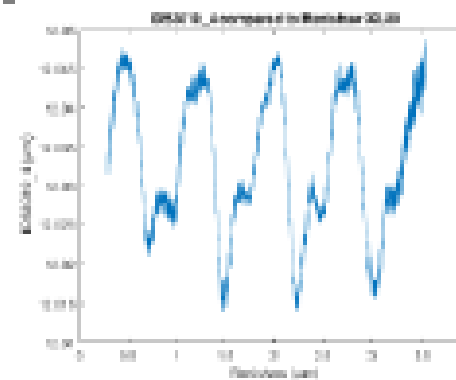
Lab tests proposals to characterize interferometers non-linearities



IDS3010 against Renishaw XL80



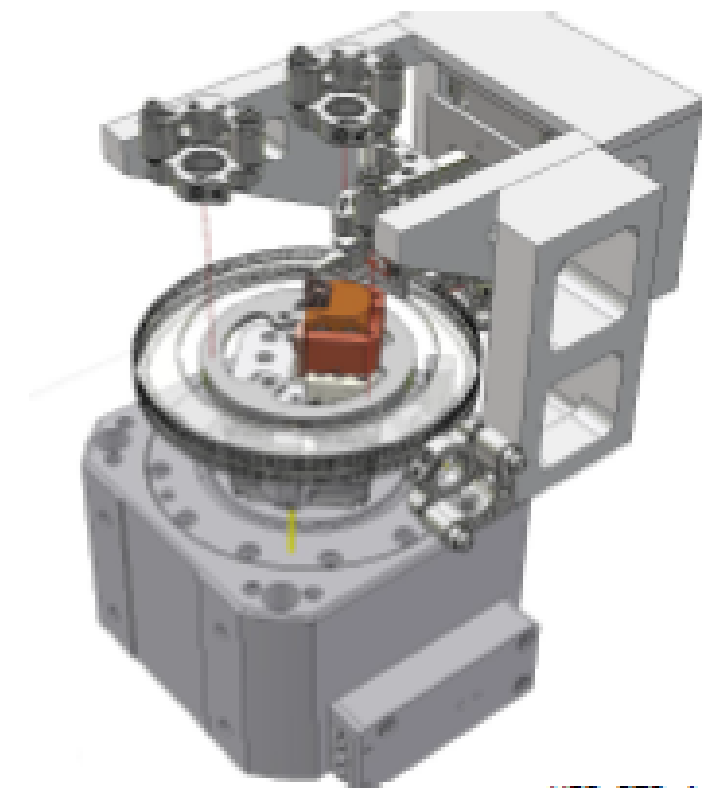
Deviation from a straight line



ALBA-CELLS, ESRF, SOLEIL

Evolution of demonstrator project 5.2 DET

New approach with grating based rotational encoder from Heidenhain and interferometers



HZB, PTB, Axilon (Company)

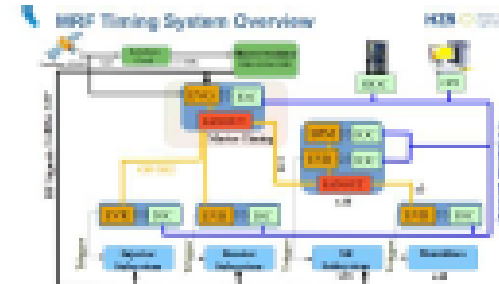
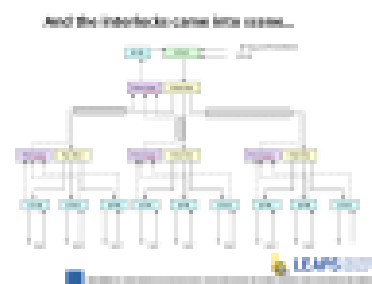
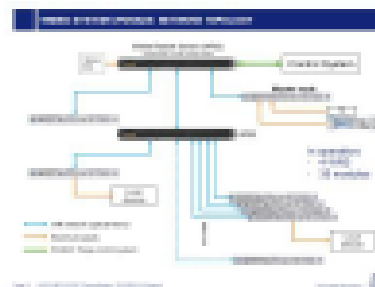
Task 5.3 Synchronization between beamline components

Cordinators: DESY, ALBA-CELLS

Partners: DIAMOND, ESRF, INFN, PSI

- Survey on the timing systems of all facilities
- necessary to understand the complex use cases and synchronization challenges as next steps in the project.

Facility	Timing System
ESRF	White Rabbit
PSI	MRF VME-100 (SLS), MRF VME-300 (SwissFEL), Own HW cPCI-S based on MRF protocol (SLS2.0, year 2025)
SOLEIL	Greenfield
ALBA	MRF cPCI-200
BESSY II	MRF VME/mTCA-300



WG 1.3 Experiment Environment - Status report

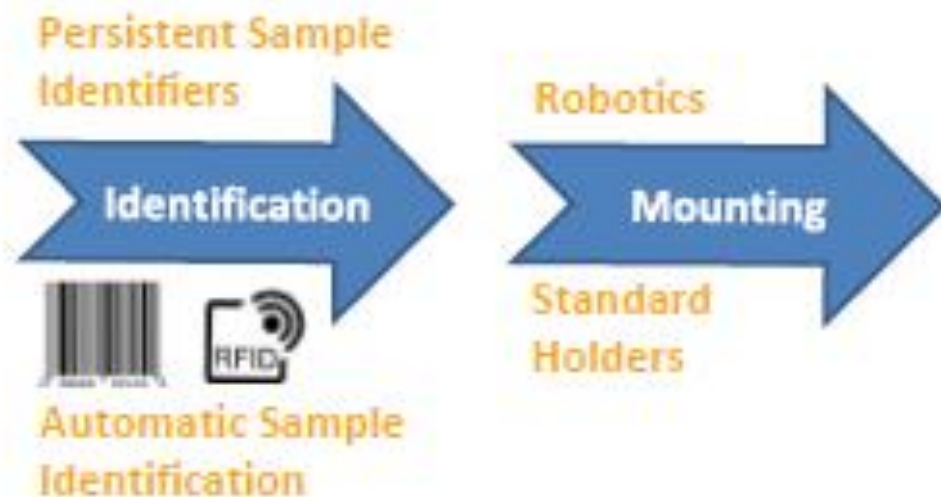
Database for Experiment Environment Information

- Virtual meetings
- Feedbacks from the different facilities on the database structure
- Now resources needed to adapt the WayForLight database

STARS (Digital LEAPS)

- Involvement in WP3 „Digital Sample Handling“

STARS – WP3: Digital Sample Handling



MX beamline Beasy II, U. Mueller et al. Acta Crystallographica 70, C711 (2014)

First year (M1-12):

Task 3.1: Survey on Digital Sample Handling

Task 3.2: Persistent Unique Identifiers for Samples

Task 3.3: Automatic Sample Identification

Task 3.4: Automatic/remote Sample Handling

Extract from Oct 21st 14:30 presentation

WG 1.3 Experiment Environment – Planned activities 2022

LEAPS-INNOV WP5

- Work on deliverables & milestones

Database for Experiment Environment Information

- Changes to WayForLight database? Resources? Digital LEAPS?

Digital LEAPS

- STARS WP3 Task 3.1 Survey?

ISSE Workshop September 2022 Japan

- Face to Face meeting



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WG1.4 Photon Diagnostics Ongoing and Future Activities

Marco Zangrando
WG1.4 Spokesperson

4th LEAPS Plenary Meeting
20.10.2021

The Working Group in a glimpse

- Created in November 2020
- 20 members
- 2 meetings so far (+ this one):
almost everybody have presented the situation in their facility
- Mission (courtesy of A. Gottwald):
 - provide **strategic and technical support** to LEAPS and strengthen the coordinated efforts of LEAPS Members, Associates and Partners
 - set up by the GA
 - **initiate, support implementation and monitor joint projects** in their field; this includes setting up new projects, i.e., writing new proposals in reply to open calls by the EU

Marco	Zangrando	ELETTRA
Kai	Tiedke	DESY
Markus	Ilchen	DESY
Roman	Panaś	SOLARIS
Jan	Grünert	EuXFEL
Ubaldo	Iriso	ALBA
Sergey	Kovalev	HZDR
Jan	Deinert	HZDR
Christoph	Arrell	PSI
Chris	Bloomer	Diamond
Alexander	Gottwald	PTB
Fabio	Villa	INFN-LNF
Francesco	Stellato	INFN-ToV
Jens	Viefhaus	HZB
Søren	Vrønning Hoffmann	ISA
Louisa	Pickworth	MAX IV
Petr	Ilinski	MAX IV
Kees-Bertus	Scheidt	ESRF
Marie	Labat	SOLEIL
Britta	Redlich	FELIX

Photon diagnostics for FELs and next generation synchrotron sources

This work package is aiming at initiating joint activities between the European FELs and SR sources in the areas of **photon diagnostics and machine learning application** focusing on the special requirements of non-invasive diagnostics tools.

List topics:

- Improvement of existing non-invasive diagnostics to determine the **spectral distribution** and the polarization using machine learning approaches.
- Improvement of the existing **pulse lengths diagnostics** based on THz-streaking towards the attosecond regime
- Development of non-invasive **wave front diagnostics**, and options for in-situ feedback to adaptive optics.
- Understanding the limitations and mitigating solutions for **high average power attenuators**
- Development of methods to **automatically optimize and stabilize** the machine as well as the beam
- Transport using **machine learning approaches**
- Development of **non-invasive online diagnostics** for hard x-rays beyond 25 keV

Some notes from previous meetings

- Mixed situations: some facilities do have photon diagnostics groups, others don't
- In some facilities there is a mixing between electron- and photon-diagnostics
- Smaller facilities tend to play as observers
- WG (initial?) characteristics:
 - no funding (as all the other WGs)
 - EU wants LEAPS to act as the reference concerning fundings, projects, etc.: WGs are needed to coordinate that from the technical/scientific p.o.v.
 - WG supposed to work on common technologies instrument sharing, resource optimization...
 - formulate scenarios of photon diagnostics in 10-20 years

Some notes from previous meetings

Questions:

- train ML/AI experts to be scientists or train scientists to be ML/AI experts?
- develop new techniques or improve existing ones?
- will there be any money available?
- how can we interact with other WGs and/or projects in LEAPS?

Problems:

- variable commitment level
- photon sources are very different (wavelength range, size, applications...) → also instrumentation should be very diverse
- lack of funding for new instrumentation
- competition with other WGs for limited resources?
- photon diagnostics is a too specific field to present a stand-alone project

The three pillars: STARS, HR⁴ and LIP

DIGITAL @ LEAPS



Courtesy of M. Svandrlik

STARS (courtesy K. Kiefer, C. Blasetti and L. Pivetta)

HR⁴ Enhanced digital platforms for networking & training (courtesy A. Bonucci)

- STARS Enhanced remote access for users
 - Standardized procedures on mail-in/remote access across facilities
 - Overview of commercial I.T. tools for remote access
 - Digital sample handling
- HR⁴ Enhanced digital platforms for networking & training
 - Digital collaborative platform - Innovation Mall
 - Remote staff training (RT) & Hybrid training for users
 - Collaborative platform for Smart User Network

LIP: The LEAPS Integrated Platform (*courtesy M. Calvi*)

- LIP: **facility independent interface system** to access and operate our facilities, including accelerators, beamlines, experiments and other equipment
- The purpose is to develop and update a **Digital Twin (DiT)** of the facility
- “The Digital Twin can be used to train robots before they get the control of the facility” → this technology could be used in the long term (10 to 20 years) to run our facilities in a **quasi-autonomous way**, driven by the requirements of the experimental users

- *Digital Twinning:*

- WP1: Technology Platform (EUXFEL, L. Gelisio)
- WP2: Source and Beam Modules (PSI, M. Calvi)
- WP3: Modules for Photonic Instruments (ILL, P. Mutti)

Part of DiTARI

- *Design activities and networking:*

- WP4: Androids for Remote Access (DESY, R. Wanzenberg)
- WP5: Permanent Magnets LEAPS Internal Collaboration, *PerMaLIC* (ALBA, F. Perez)
- WP6: The Fully Automated Beamline, FAB (DESY, H. Graafsma)

LIP Pilot
Project WPs

LIP – WP6: The Fully Automated Beamline, FAB

- This WP is a study how an ideal, **self-aligning and self-calibrating beamline** could look like
- Which diagnostics is needed where along the beam path? How should the beamline components be designed and constructed? What control software is needed? How should detectors be constructed so they can auto-calibrate?
- The purpose of this package is to identify, develop and share **automation of key beamline components** to improve resilience and reduce the reliance on human intervention
- In this package we aim to develop **common top-level interfaces and feedback loops** which can be implemented on underlying infrastructure at multiple LEAPS facilities
- A third pillar of automation is including **remote experimenters in the loop** (remote data analysis, remote feedback, etc.)

LIP – WP6: The Fully Automated Beamline, FAB

Description of work

- Task 6.1 Automation and fault tolerance of repetitive tasks: beamline alignment, focus, alignment, fault tolerance, maintaining safe operation
- Task 6.2 Automatic detector calibration, software configuration, parameter selection
- Task 6.3 Sample tracking, loading, changing
- Task 6.4 Remote experimenter in the loop: Remote data analysis, experiment feedback, and remote presence (e-logbooks, slack channels, video presence, etc)
- Task 6.5 Beyond remote desktop: Improving beamline control interfaces for remote presence, synergies with WP1, WP2, WP3

Deliverables

- D6.1 A **technical blueprint** of a fully automated beamline will be developed intending for others to copy and learn from, identify weak points and specific issues.
- D6.2 A **series of workshops** asking LEAPS experts from different working groups (e.g., WG1, WG3, ...) would need to be organized and is foreseen to catalyze collaboration of LEAPS beamline experts in deep.

Note: A **preliminary phase** in which the technical and scientific staff at facilities should be contacted and surveyed to define the different needs and objectives would need an estimate time of one to two years.



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WG3. Data Ongoing and Future Activities

Alun Ashton (PSI)

4th LEAPS Plenary Meeting
20.10.2021

Attendees (30 in total):

Alun Ashton alun.ashton@psi.ch (PSI)
Darren Spruce <darren.spruce@maxiv.lu.se> (MAXIV),
Lorenzo Pivetta <lorenzo.pivetta@elettra.eu> (Elettra)
Rudolf Dimper <dimper@esrf.fr> (ESRF)
Thomas H Rod <thomas.rod@ess.eu> (ESS)
Steve Aplin steve.aplin@xfel.eu (EuXFEL)
David Pennicard david.pennicard@desy.de (DESY)
Uwe Konrad u.konrad@hzdr.de (HZDR)
Rolf Krahel rolf.krahel@helmholtz-berlin.de (HZB)
Ants Finke ants.finke@helmholtz-berlin.de (HZB)
Majid Ounsy majid.ounsy@synchrotron-soleil.fr (SOLEIL)
Nicolas Soler nsoler@cells.es (ALBA)
Francesco Guzzi francesco.guzzi@elettra.eu (Elettra)
Brigitte GAGEY brigitte.gagey@synchrotron-soleil.fr (SOLEIL)
Martin Gasthuber martin.gasthuber@desy.de (DESY)
Volker Guelzow volker.guelzow@desy.de (DESY)
Cormac McGuinness Cormac.McGuinness@tcd.ie (ESUO delegate)
Andy Götz <goetz@esrf.fr> (ESRF)
Anton Barty (DESY)
Antoni Pérez Font (ALBA)
Clemens Weninger
Gastón García (CMAN-UAM)
Giacomo Ghiringhelli
Ireneusz Zadworny
Jean Lüning (HZB)
Jayest Wagh (ESRF)
Robert McGreevy robert.mcgreevy@stfc.ac.uk (LENS Chair)
Oscar Matilla (ALBA)
Ute Krell (DESY)
Frank Schluenzen frank.schluenzen@desy.de (DESY)

Agenda:

0920: 5 mins: Introduction (AA)
0925: 30 mins: PaN IT, LEAPS/LENS and EOSC (RD)
0955: 10 mins: Digital LEAPS (LP)
1005: 10 mins: Relationship of LEAPS and LENS
(JT/THR)
1015: 15 mins: Exec purpose and processes
(Appointment Membership of Exec, Chair of Exec, RDB
Representative) (DS)

Key points (report for GA):

- Acknowledge the work and contributions of Daniel Salvat and Mark Heron who have both stepped down from the Exec for various reasons.
 - Challenging 18 months with ever shifting demands on IT groups reacting to the pandemic demands (and opportunities) on facilities, on top of the usual facility upgrades, progress with automation, detector throughput, open science and data science.
 - Main community activities channeled through
 - Regular Exec meetings
 - PaNOSC, ExPaNDS and EOSC-Future
 - LEAPS-Innov WP7
 - Various other smaller scale collaborations.
 - Involvement in recent Digital LEAPS project submissions.
 - EOSC association members are asked to provide information to the EOSC association (by end of October) what is needed for the work programme 2023/2024. (Action for all, a coordinated LENS/LEAPS response as well as individually would be best)
 - Need for
 - F2F meetings and shared workshops going forward,
 - engaging with national initiatives that could bring added value.
 - take the lead and develop vision and address scientific opportunities.
 - establish a collaboration area.
-
- A WG meeting will be organised to structure the group in light of recent withdrawals, LENS relationship and overall challenges with time commitments.

Minutes/presentation links:

PaN IT, LEAPS/LENS and EOSC (Rudolf Dimper)

Link to slides to follow

The EU has made a significant investment into EOSC and are now looking to see how EOSC will deliver for science areas and will become sustainable.

- An observation that processed and analysed data should also be a priority as it will often have the main value

The work programme 2023/2024 is currently being drafted by the Commission

The EOSC-Association has been asked by the EC to provide input

A first proposal from the EOSC-Association enumerates the following:

- 1.Science Clusters and the long-tail
- 2.Quality of research data
- 3.Quality of research repositories
- 4.Long-term access and preservation of data
- 5.Quality of software
- 6.Linking to sensitive data from public authorities
- 7.AI and access un-structured and non-standard data
- 8.Multilingualism in EOSC
- 9.CSA for the EOSC partnership

EOSC-Association members are asked to provide feedback and input until the end of October

Action: provide information to the EOSC association for what is needed going forward.

(ALL, though a coordinated LENS/LEAPS response as well as individually would be possible).

Relationship of LEAPS and LENS (Thomas Holm Rod)

A general observation that an opportunity exists but how can the groups engage and build relationships.

Need for F2F to help.

Better and more imaginative view would be beneficial - 10+ yrs.

Concrete action? Topic specific workshop? Relation to nobugs, icaleps etc etc? LENS will host workshops soon and
Coordinate national activities

Exec purpose and processes (Appointment Membership of Exec, Chair of Exec, RDB Representative) (Darren Spruce)

Presentation to follow

Question to be answered in separate meeting: which structure shall the LEAPS / LENS IT WG choose for the future? Exec-Group and all members WG?



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WG4. Industry Ongoing and Future Activities

Alejandro Sanchez

4th LEAPS Plenary Meeting
20.10.2021

WG5: user service and impact – status report

Impact assessment and LEAPS metrics

- March 2021: workshop on the RIPaths project outcome
- April 2021: LEAPS metrics status and follow-up

Wayforlight sustainability

- Discussion on funding models and next steps
- CALIPSOplus deliverable: business plan

Other activities

ESUO members welcomed in WG5

Preliminary overview on TNA funding future

Contribution to define the Strategic Access Task Force

WG5: STARS proposal - 1

- Structured in 3 WPs a) User Offices b) IT c) Sample environment

- Many parallel meetings but hard to get commitment

→ *User Offices are willing to exchange knowledge and best practices BUT there is no reasonable way to harmonize procedures*

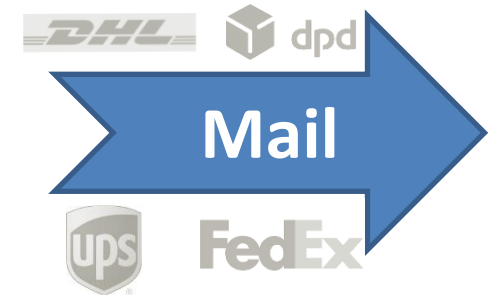
- similar situation for IT colleagues



WG5: STARS proposal - 2

new title

- **Surveying Technology for Advancing Remote Services**
- **Strong re-structuring: only year 1 remains for**
 - **WP1:** Overview of procedures for mail-in sample handling (ESRF, Elettra)
 - WP2: Overview of IT tools for remote access
 - WP3: Digital Sample Handling → *option for years 2-3-4*



To learn more & get involved:

Join us on **Oct 21st at 14:30**

WG5: future

- **Members overloaded with work**
facilities upgrades, many projects, LEAPS tasks assigned to the WG
- *C. Blasetti (Elettra) steps down from the role of spokesperson*
- Nobody else volunteered to be spokesperson (or co-spokeperson)

WG5 stops existing as before: to be remodeled

→ we become an **informal network**, with no leader,
meeting every 3-4 months for **knowledge exchange**



LEAPS

League of European
Accelerator-based
Photon Sources

Thanks

Tak

Tack

Bedankt

Danke

Dziękuję

Merci

Grazie

Gracias

شك