

EUCALL Identity Package

Deliverable D3 / D2.2

Graham Appleby, European XFEL Facility GmbH 19.01.2016

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2c)





Title

Subheading

Author, Affiliation Date

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Meeting Name Day Month Year

Venue: Room, Building Address

1st Day Date Month Year

Time	Programme
13:00	<i>Title</i> – A. Author / Affiliation
14:00	Coffee Break
14:15	
15:00	
15:30	
16:00	
18:00	
20:00	



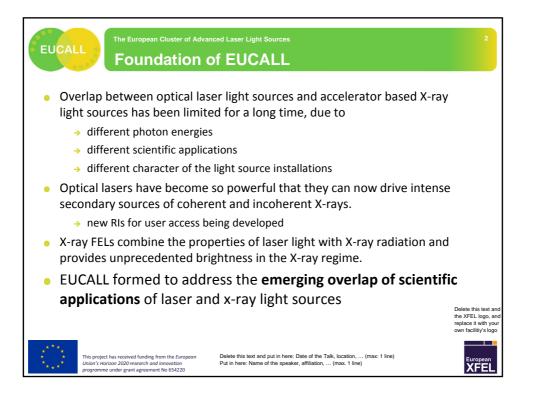


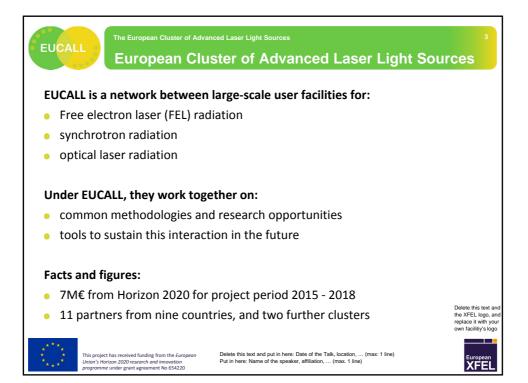
2nd Day Date Month Year

Time	Programme
09:00	
09:10	
09:20	
09:30	
09:40	
09:50	
10:00	

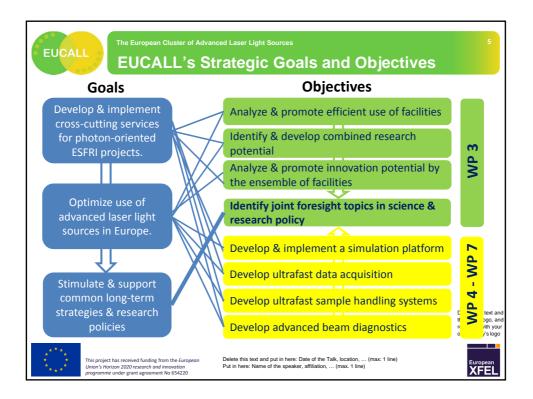


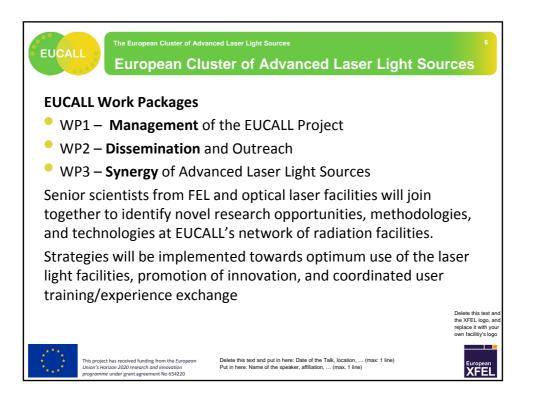


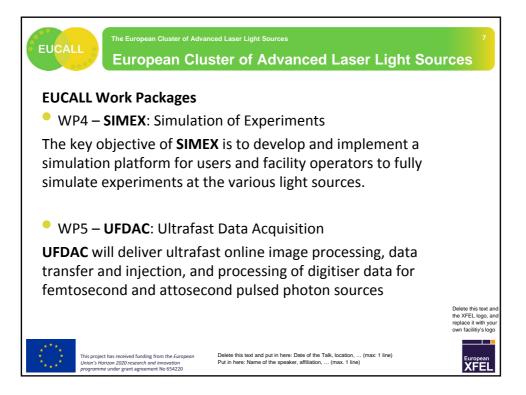


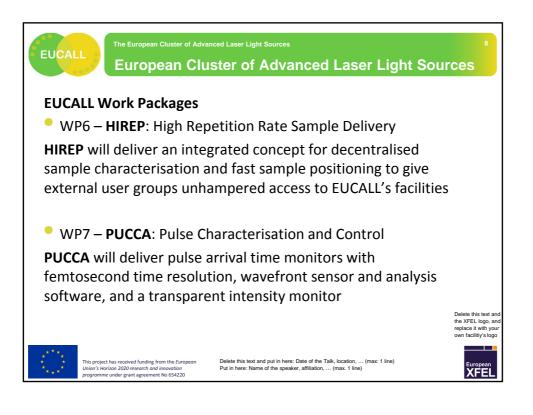












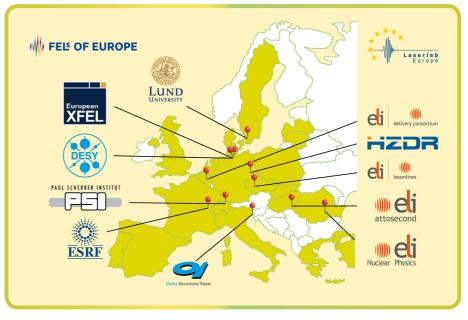




The European Cluster of Advanced Laser Light Sources

EUCALL is a network between leading large-scale user facilities for free electron laser (FEL), synchrotron and optical laser radiation and their users. Under EUCALL, they work together on their common methodologies and research opportunities, and develop tools to sustain this interaction in the future.

EUCALL is organised into seven Work Packages (WPs). WP1 and WP2 are for Management and Dissemination while the other five are scientific/technical.



EUCALL's six FEL and synchrotron sources, and five optical light facilities (red pins). Countries involved in the European clusters FELs of Europe and Laserlab-Europe are coloured.

Senior scientists from FEL and optical laser facilities

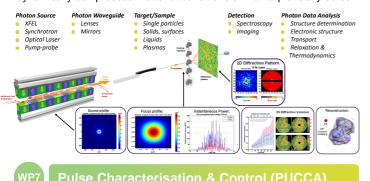
Synergy

WP3

will join together to identify novel research opportunities, methodologies, and technologies at EUCALL's network of radiation facilities.

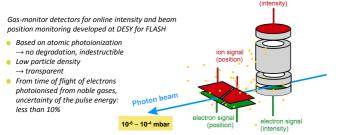
Strategies will be implemented towards optimum use of the laser light facilities, promotion of innovation, and coordinated user training/experience exchange.

The key objective of **SIMEX** is to develop and implement a simulation platform for users and facility operators to fully simulate experiments at the various light sources. The simulations track the photons on their way from the source through the optics and the interaction region, all the way to the detector. Samples range from weakly scattering biomolecules, density modulations following laser-matter interaction to dynamically compressed matter at conditions similar to planetary cores.



Each of EUCALL's facilities produce intense, ultra-short X-ray pulses whose characteristics change to some extent from pulse to pulse. It is essential to measure the characteristic properties of the light pulses shot-to-shot in a way that does not alter the pulses.

PUCCA will deliver pulse arrival time monitors with femtosecond time resolution, wavefront sensor and analysis software, and a transparent intensity monitor.



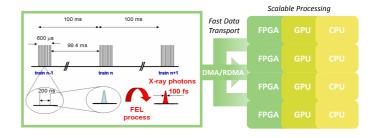
www.eucall.eu / contact@eucall.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654220

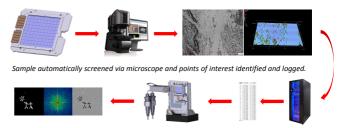
The high repetition rates and the need for optimised usage of beamtime at optical laser and FEL facilities require higher performance and online data acquisition techniques.

European XFEL will generate pulse trains with up to 2700 pulses separated by 220 ns (600 µs total) followed by idle time of 99.4 ms. UFDAC will deliver ultrafast online image processing, data transfer and injection, and processing of digitiser data for such demands.



Every light source has systems for sample replacement, but no attempt has yet been undertaken to unify sample characterisation and positioning of samples in order to give external user groups unhampered access to the facilities.

HIREP will deliver an integrated concept for decentralised sample characterisation and fast sample positioning at EUCALL's facilities.



From the generated coordinates, sample is raster scanned at 10 Hz at beamline for analysis.

LUND UNIVERSITY

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HZDE

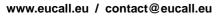
European XFFI

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Author, Institute Author, Institute

Title











EUCALL is a network between leading large-scale user facilities for free electron laser, synchrotron and optical laser radiation and their users. Under EUCALL, they work together on their common methodologies and research opportunities, and develop tools to sustain this interaction in the future. EUCALL has received funding from the European Union's Horizon 2020 research and innovation programme and involves 11 partners from nine countries as well as the networks Laserlab Europe and FELs of Europe during the project period 2015 to 2018. See the colour definitions for the green, green/yellow blend and yellow components of the logo:

Green circle	R 152	G 206	В 124
Green/Yellow Blend	212	218	54
Yellow Circle	242	229	96

VP3 Heading Bar 1 List 1

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- b
- C

WP4

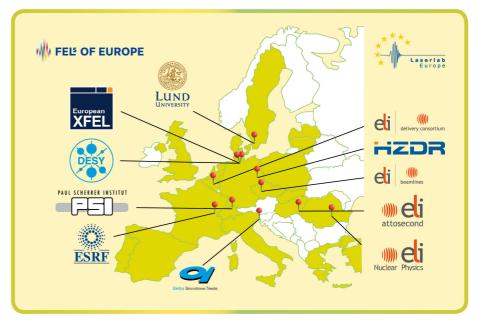
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Heading Bar – Right Column

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