



Facility Update

Serguei Molodtsov
Scientific Director, European XFEL

Virtual user information meeting - 8th call for proposals

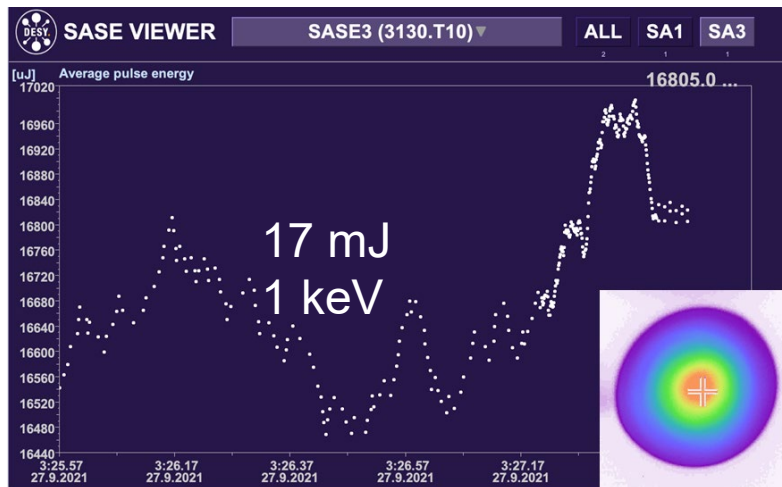
Remote Meeting Schenefeld/Bahrenfeld/Zoom

3 November, 2021

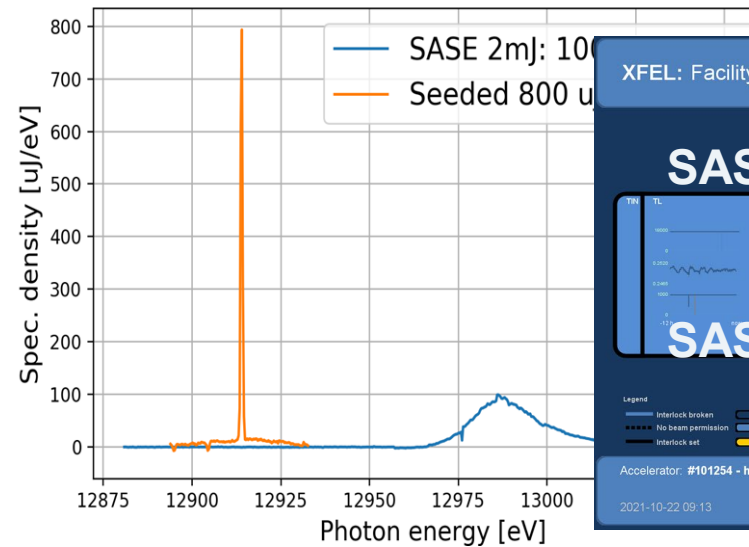
In general on the accelerator operation

- The accelerator runs very well, little down time
- Tremendous progress has been made in the last year
- Recent operations highlights

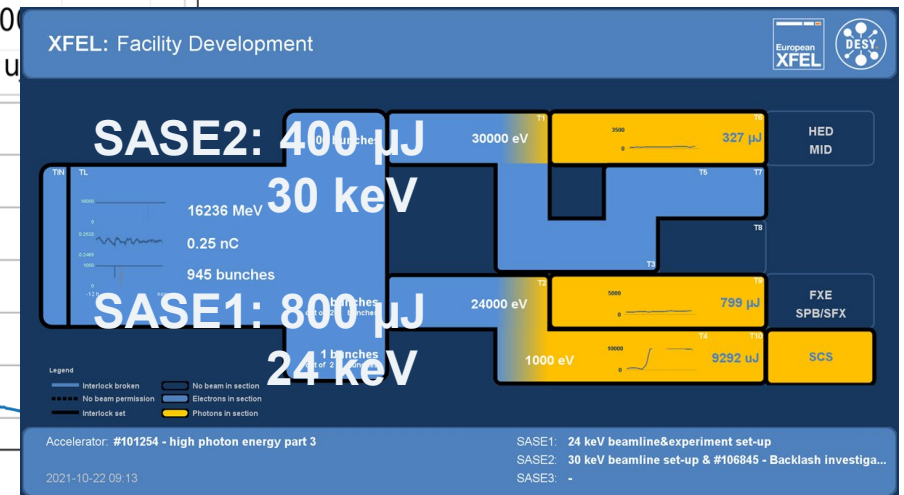
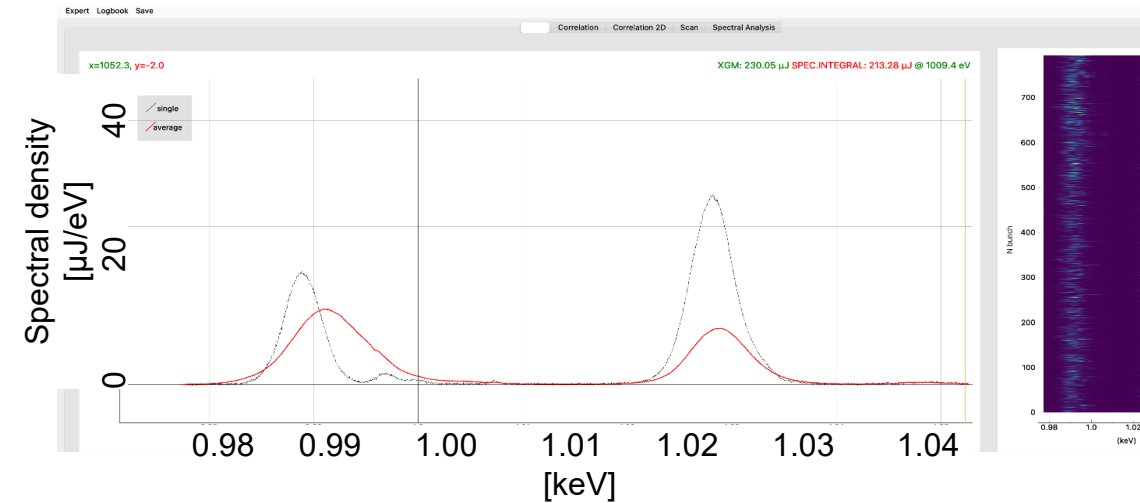
Record intensities at SASE3

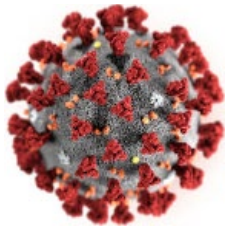


HXRSS User Run at SASE2



Single Spike at SASE3





Impact of the COVID-19 spread on EuXFEL operation 2020/2021

Start of COVID-19 spread in Hamburg area



- 140 users have been on site since start of this run
- Still restrictions on size of on-site user group
- Expect that 2022 would be close to normal

- 10 staff members reported to be infected by Coronavirus
- Since 7 June, more staff is on site under the one person per office rule, more and more we are getting back to normal
- **Vaccination campaign via the company doctor in collaboration with DESY**

7th call for proposals – current allocation status

Call 7 (deadline Dec 2020)	
Total proposals submitted	168
Withdrawn after deadline	2
Allocated in 2021	3
Allocated in 2022-1 (Feb-June 2022)	54

Successrate : 34 % (2020)

We need a relative high success rate in order to allow for new users

Increase in the amount of user experiments/user beamtime in past COVID time

	2018 (FXE/SBP/SQS only)	2019	2020	2021 (estimate)	2022-01 (estimate for first ½ year)
Hours	1356	3348	1908	3248	4940 h
No of proposals	25	60	23	44	54

- 4940 hours must be compared with $10500 \text{ hours}/2 = 5250 \text{ hours}$ (94%)
- Next call for proposals for 2022-2 just launched
 - Standard configurations for the FXE, MID and HED instruments can be specified
 - Virtual town hall information meeting today, 3 November, 17:30 CET
 - This includes a call for screening beamtime
- A call for expression of interest (announced in call 8) will be launched for long term proposals
- A call for expression of interest will be launched in the spring (call 9) for water research

We continue to run in priority (24h) mode

Increasing use of night hours (23h-7h) observed throughout 2021

- Internal use: commissioning and R&D
- User beamtime: preparation and setting up for upcoming users, buffer for users

2021-I

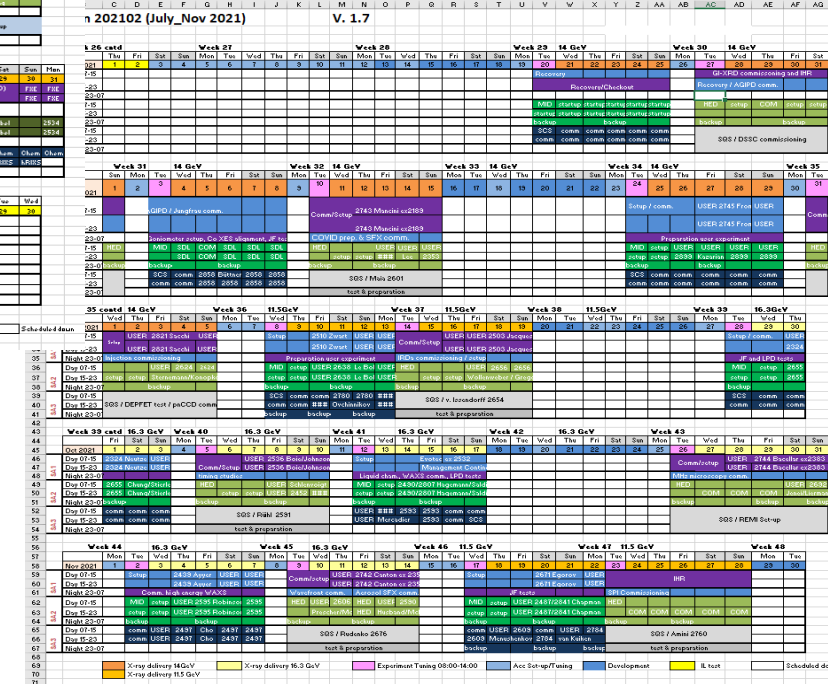
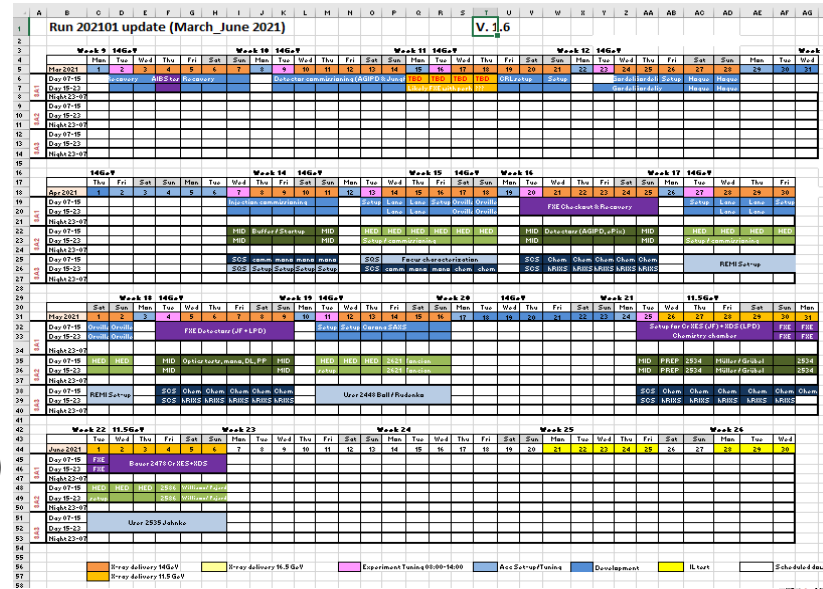
- 4 weeks beamtime
- ~ 50% of nights used

2021-II

- 8 weeks beamtime
- ~ 85% of nights used (projection)

2022-I

- Priority Mode
- 8 weeks beamtime
- ~ 100 % of nights used (projection)



User publications until 31 August 2021

32 user publications

14 were high impact (I.F. larger than 8)

All 6 instruments have user publications

41 co-authors on average

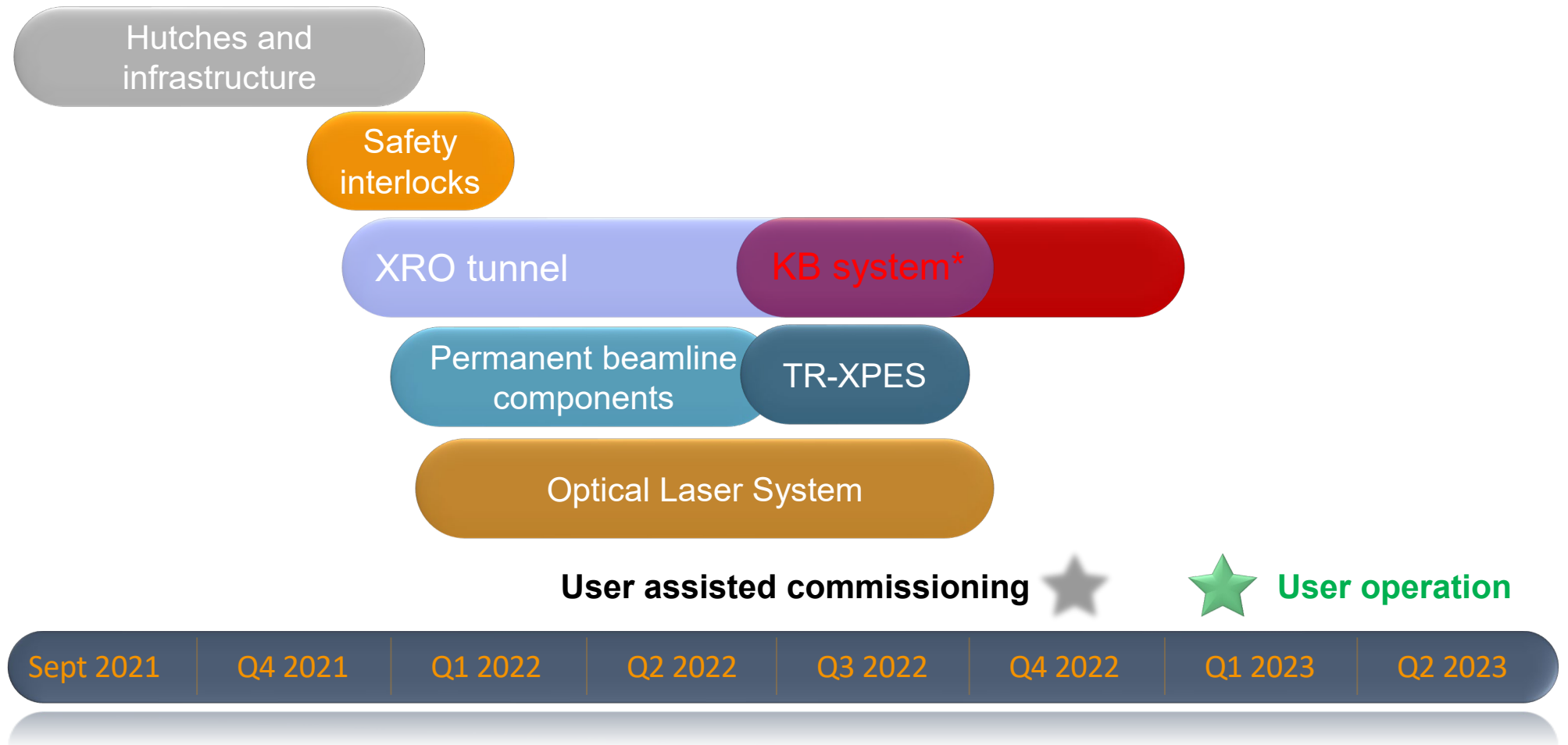
All shareholder countries have user publications

18 months on average from experiment to publication

European XFEL is co-author on all publications



A third (open) port SXP on SASE 3 is under construction (7th instrument)



* Defines the critical path: procurement on-going

Guest House now open!

- Small opening event on 22nd June with Hamburg's Science Senator Katharina Fegebank and Friederike Kampschulte, Head of the Science Department at the Ministry of Education, Science and Culture of the State of Schleswig-Holstein



Thank you for your attention!

