
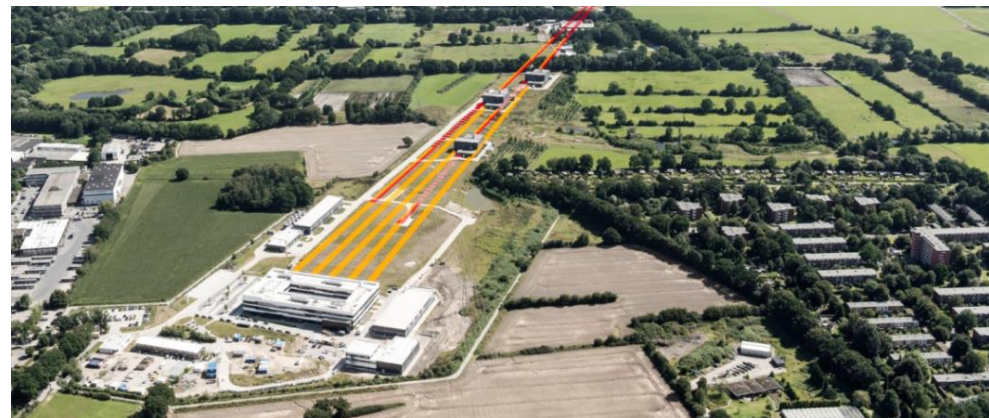
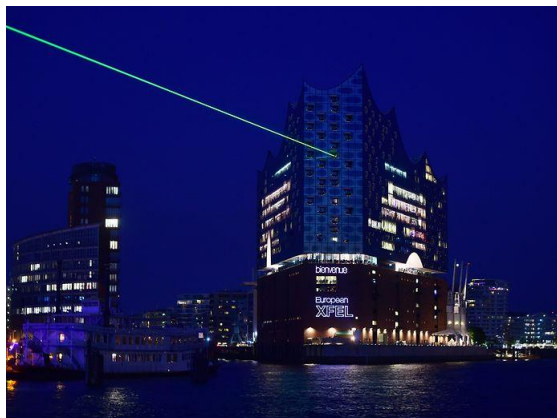


Impact of the COVID-19 pandemic on the operation of the European XFEL



Robert Feidenhans'l

9 June 2020 Video Conference



Corona-Virus
Bitte vor dem Eintreten beachten!

Liebe Patientin, lieber Patient

Waren Sie oder haben Sie innerhalb der **letzten 2 Wochen:**

- auf Reisen in folgenden Gebieten:
 - Italien, Südtirol, Tirol, Schweiz, Österreich, Ost-Frankreich, Madrid
 - China, Südkorea, USA (New York, Washington, Kalifornien)
 - Bayern, Baden-Württemberg, Nordrhein-Westfalen?
- Auf Veranstaltungen in geschlossenen Räumen mit mehr als 100 Teilnehmern?
- Erkältungssymptome entwickelt?
 - Fieber, Husten, Schnupfen, Schüttelfrost, Heiserkeit

Treten Sie bitte NICHT ein!!!!
Rufen Sie uns zur erneuten Terminvergabe und Serviceleistungen wie Rezepten, Formularen etc. an.

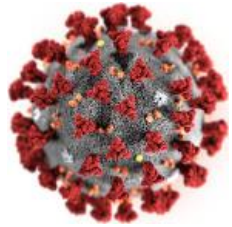
2020 Looked really good : All six Instruments are in Users Operation



- Beginning of March 2020
- Four Instrument had the first users of 2020
- Two instruments were doing commissioning



COVID-19 spread and impact on European XFEL operation



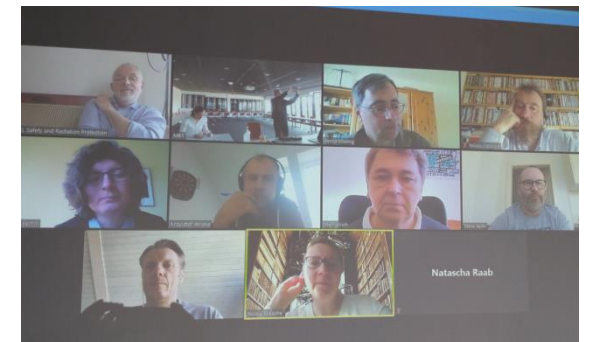
Start of COVID-19 spread in Hamburg area



COVID-19 reduced Operation

- **European XFEL went by 16 March into a reduced operation with minimal staff on site**
 - The facility stayed open for business.
 - Extended use of home office is applied with the purpose to complete already existing tasks that have not yet been completed
 - This includes for instance
 - ▶ Research output such as data analysis resulting in peer-reviewed publications
 - ▶ Improvements to an instrument, data chain, or workflow that result in improved operation and efficiency in the future, when the instrument returns to operation

- Restart with 30% staff on site started 4 May



- **European XFEL and DESY decided to set the accelerator in a safe (deep shutdown) state, i.e.** they pose no risk to personnel or public and can be left without control room personnel by 21 March
 - Restart will take at least 4–6 weeks from the beginning of the restart to fully operational state
 - X-ray delivery end of July after the summer shutdown
 - No **regular** user operation this year

- **The user experiments planned in the current Run 5 (spring 2020) at the earliest will be rescheduled during the time reserved for Run 6 (fall 2020) depending on the restart of the accelerator**
 - Run 6 is postponed to the beamtime scheduled in spring 2021
 - The call for proposals in June 2020 was cancelled
 - The next call for proposal is planned for November 2020 for Run 7 in the fall 2021

Phase 3 : European XFEL Facility Restart Scenario, start 4 May 2020

- **Telecommuting** stays default working mode whenever possible
- **Start of selected activities** at the premises – planned and coordinated by Group Leaders
- **Work at “priority areas”:**
 - Workshop
 - Laboratories in XHQ-E0
 - Startup and operation of instruments and lasers
 - Planned modifications in the XTDs
 - Startup of beam transports
- **Staffing level on site kept below 30% until further notice**

Work to do: How to fold in user operation?

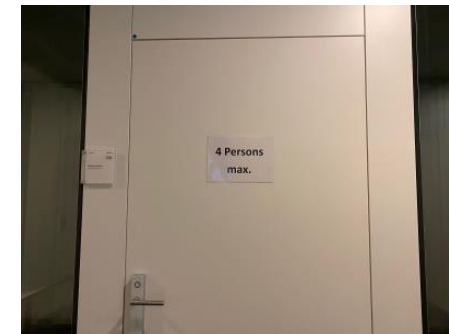
- **COVID-19 Safety Guidelines and training** for work on site provided
 - **Increased hygiene and distancing** measures in place
 - **Occupancy restrictions for all European XFEL rooms**
 - ▶ Only 1 person per office
 - ▶ Maximum occupancy given at door
 - ▶ Includes experiment hutches
- Staff members only allowed on site with permission of Group Leader
- Access of externals allowed when coordinated with respective European XFEL contact person

XFEL.EU SR-2020-002-01.0

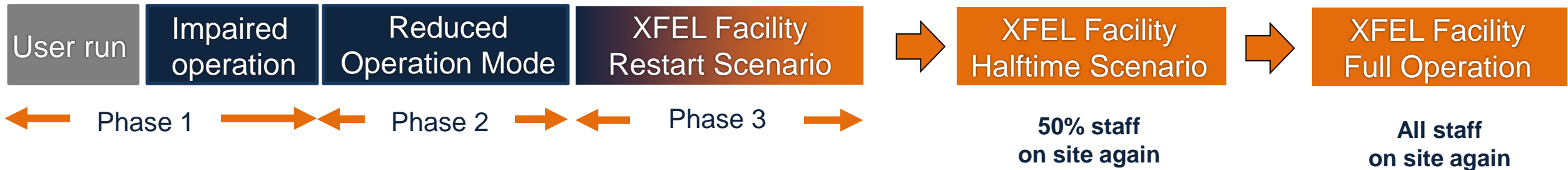
SAFETY REGULATION

Hygiene Guidelines for Safe Operation During the COVID-19 Epidemic

April 2020

Evacuation Protection (SRP) group
XFELEuropean X-Ray Free-Electron Laser Facility GmbH
Holzkoppel 4
22869 Schenefeld
Germany

Long-term planning – Back to European XFEL Facility regular operation



- Dates for continued restarting activities to be determined **based on official regulations** and our possibilities to secure safety of European XFEL staff members on site!

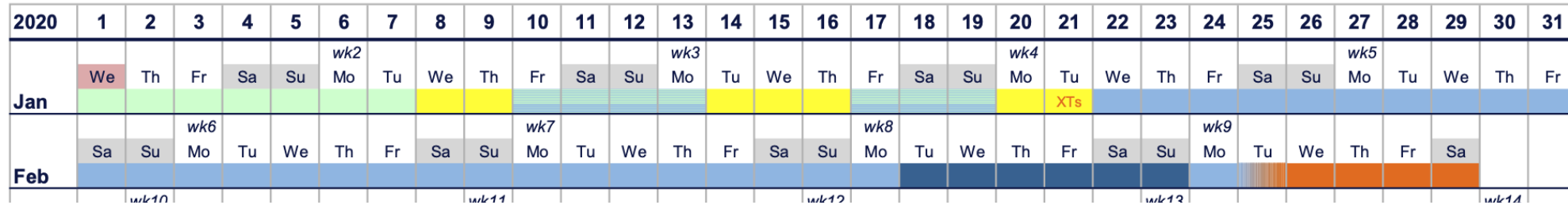
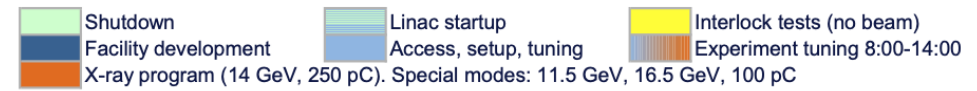
- **No regular user operation in 2020 (expected start in 2021)**

- Experience with how to do experiments will be gained after the summer
- Focus on commissioning and in-house research
- Some users might be able to come on site
- 1-3 user experiments per instruments in the fall
- Next regular call for proposals late fall
- **Special COVID-19 related call for proposals**

Full user operation



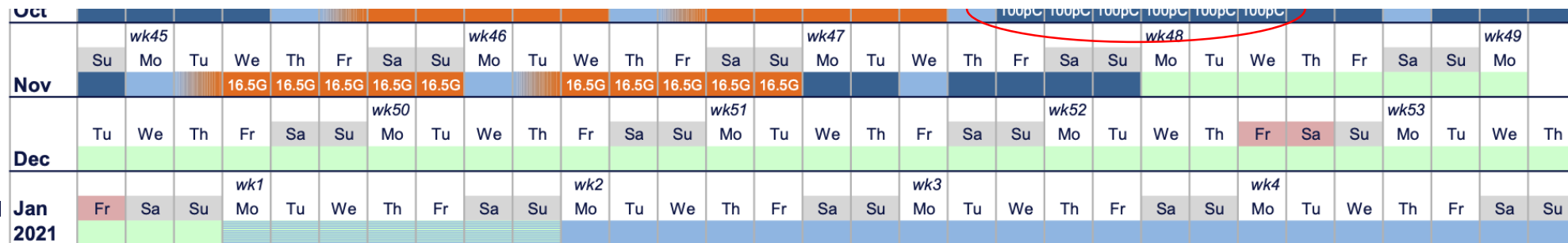
Operation Schedule 2020



The accelerator was restarted in May after a deep shutdown

- We are now in the regular summer shutdown and interlock test.
- The last 2 weeks the South branch (SASE2) was operated for studies. During these studies the typical performance of SASE2 @ 9keV was reached!
- The North branch (SASE 1, SASE 3) was not restarted in order to be able to finish the shutdown program under Covid 19 conditions up to mid-June
- From the point of the accelerator, we are almost in the conditions according to the initial planning of 2020.
- It looks good!

/ started



orange to blue

Thank you for your attention

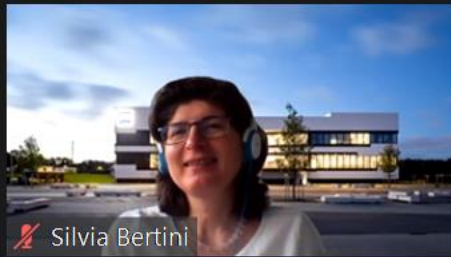




Sakura Pascarelli



Robert Feidenhans'l



Silvia Bertini



Katrin Amann-Winkel



Andrea Eschenlohr



Kristoffer Haldrup



Allen Orville



molodtso



Robert Grisenti



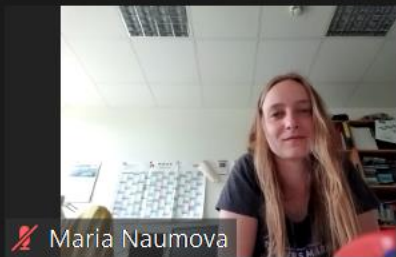
Markus Guehr



marion harmand



Thomas Kluge



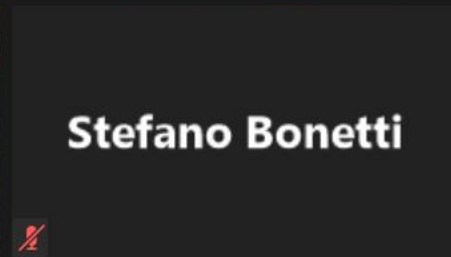
Maria Naumova



mark hunter



giuseppe sansone



Stefano Bonetti