

First Lasing at the SASE2 and SASE3 FELs of European XFEL

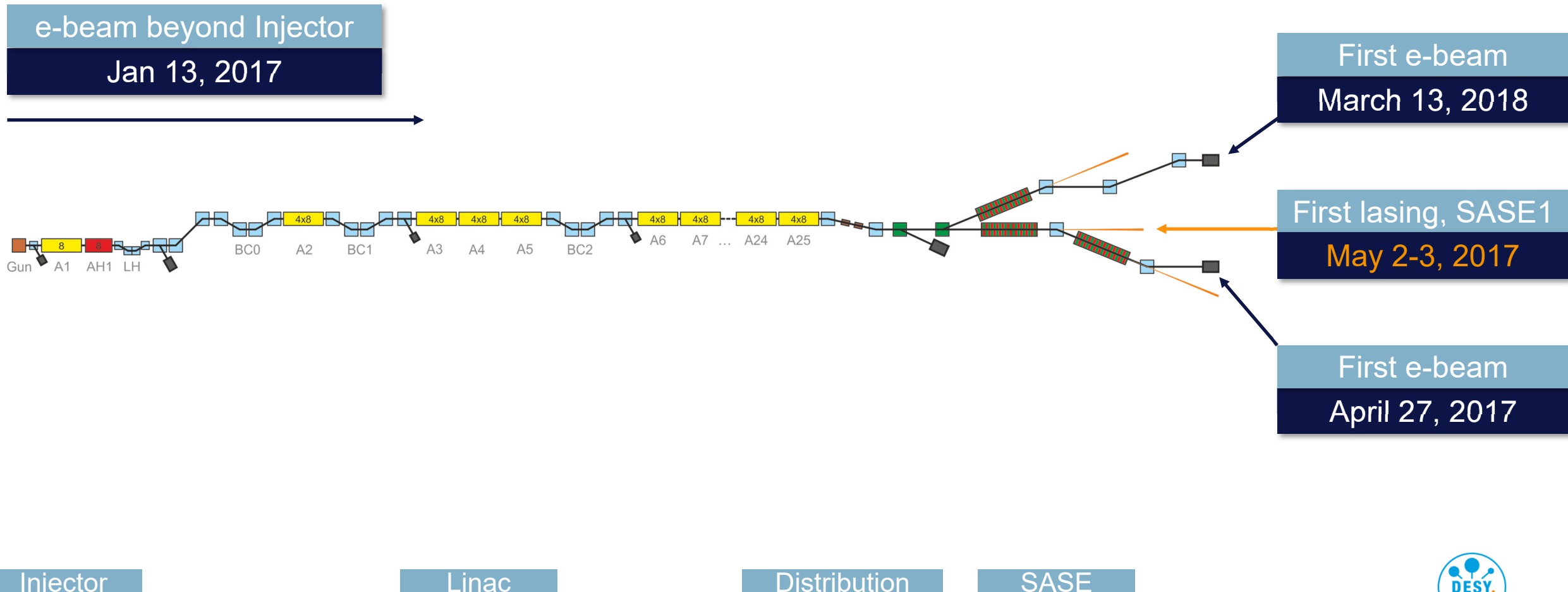
Matthias Scholz for the EuXFEL operation team
Hamburg, 26 August 2019



HELMHOLTZ
RESEARCH FOR GRAND CHALLENGES



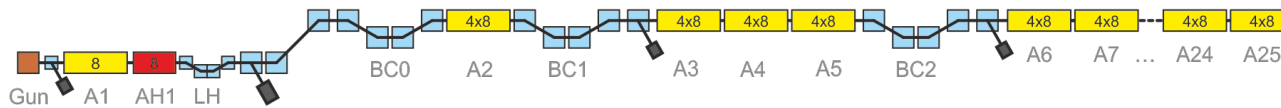
Commissioning timeline of European XFEL



Commissioning timeline of European XFEL

e-beam beyond Injector

Jan 13, 2017



First e-beam

March 13, 2018

First lasing, SASE1

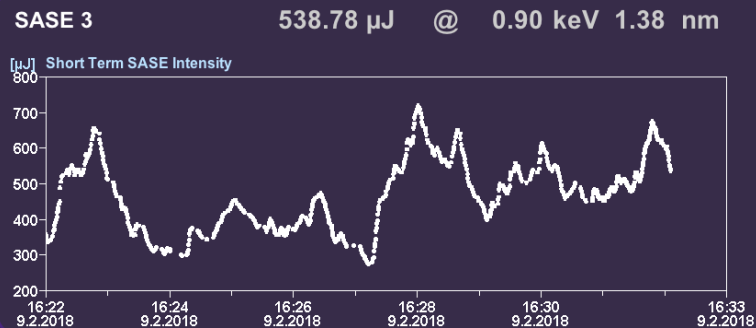
May 2-3, 2017

First e-beam

April 27, 2017

First lasing, SASE3

February 8, 2018



Injector

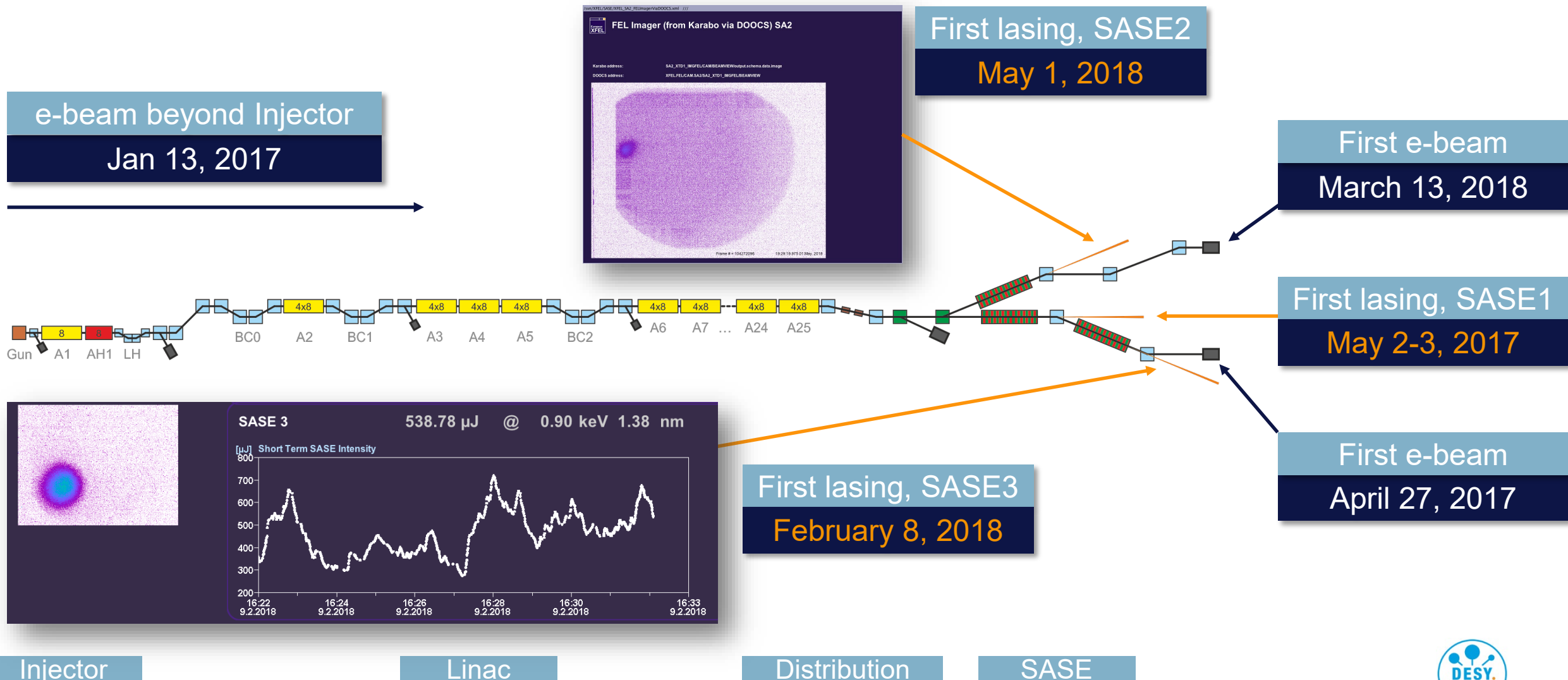
Linac

Distribution

SASE



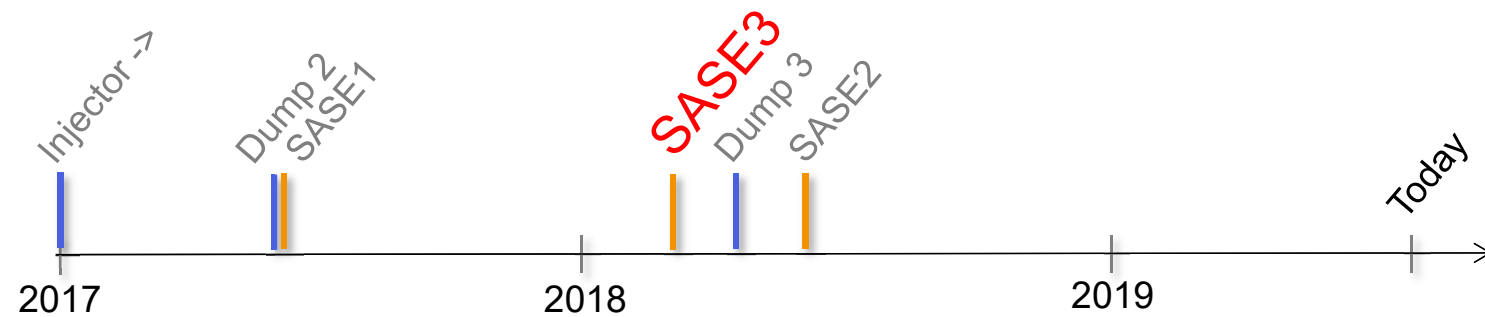
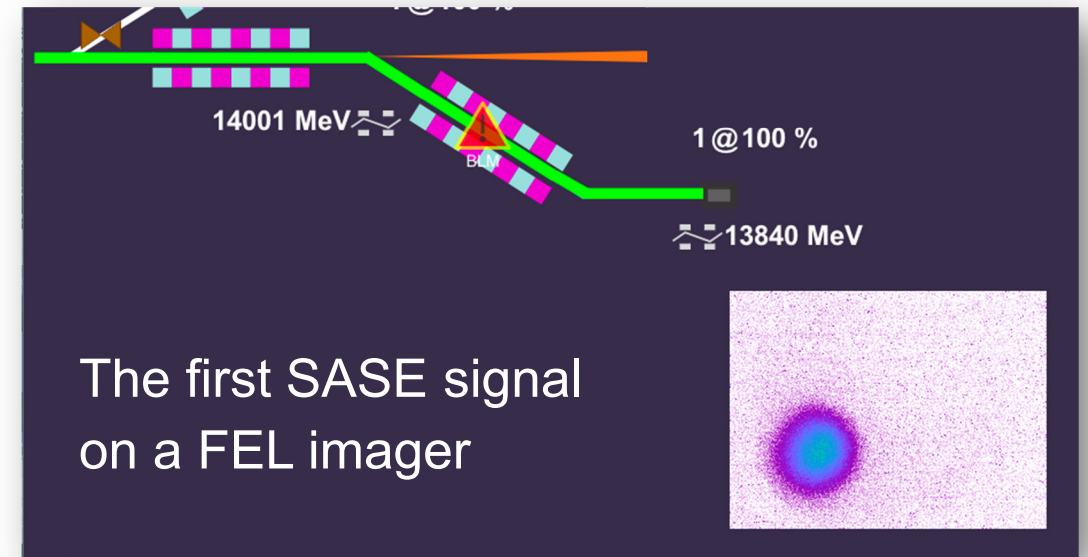
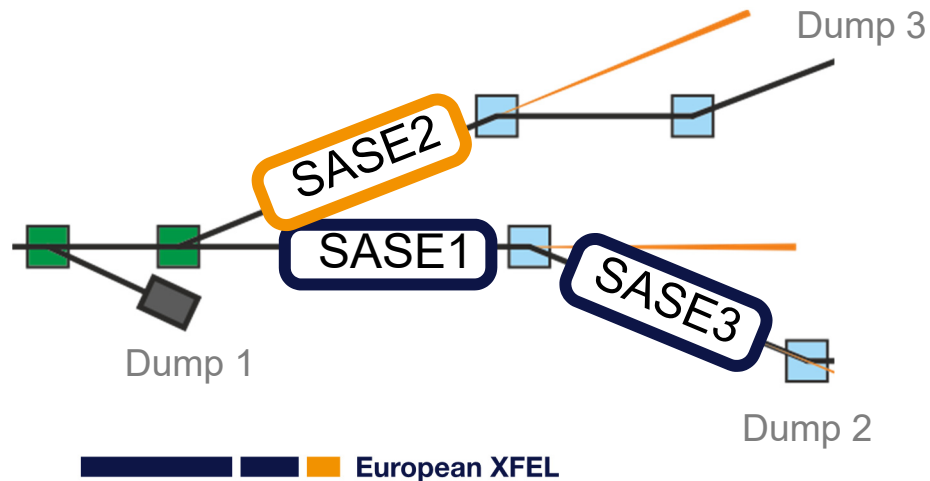
Commissioning timeline of European XFEL



First lasing of SASE3

First lasing in the soft X-ray
beamline **SASE3** was achieved on
February 8, 2018.

Electron beam energy: 14 GeV
Photon energy: 900 eV

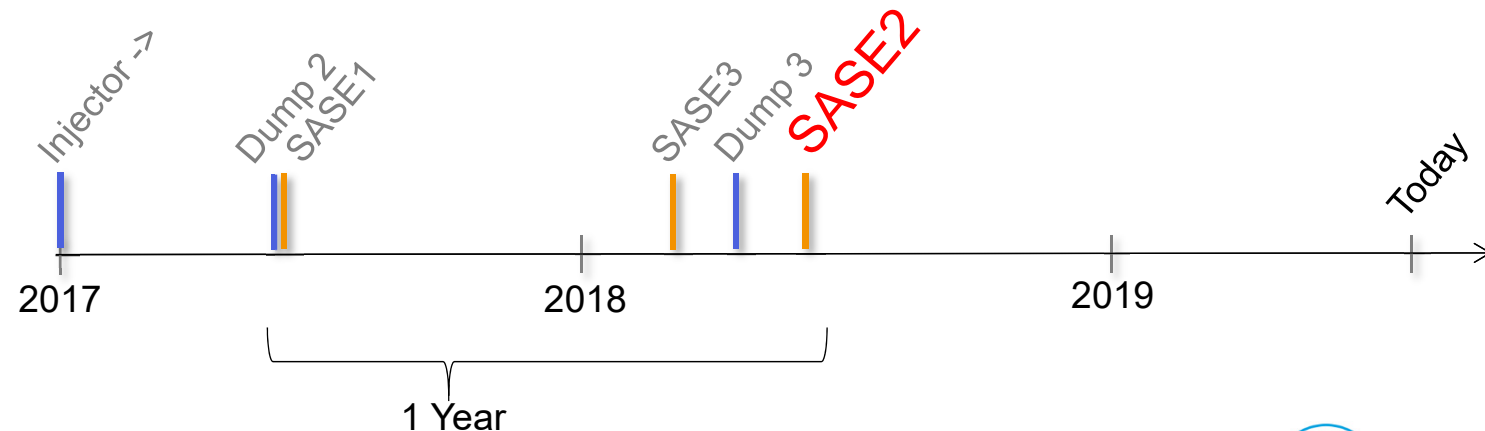
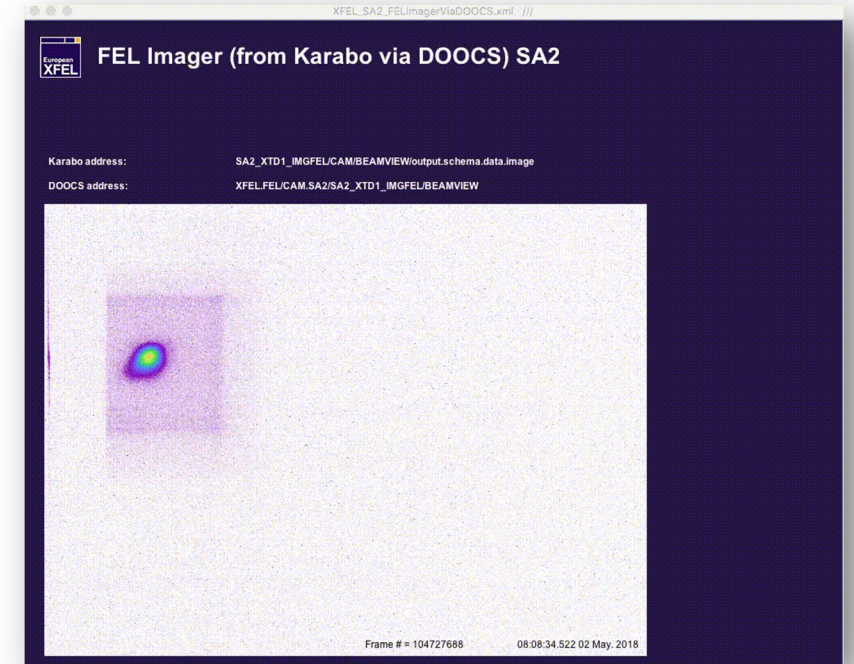
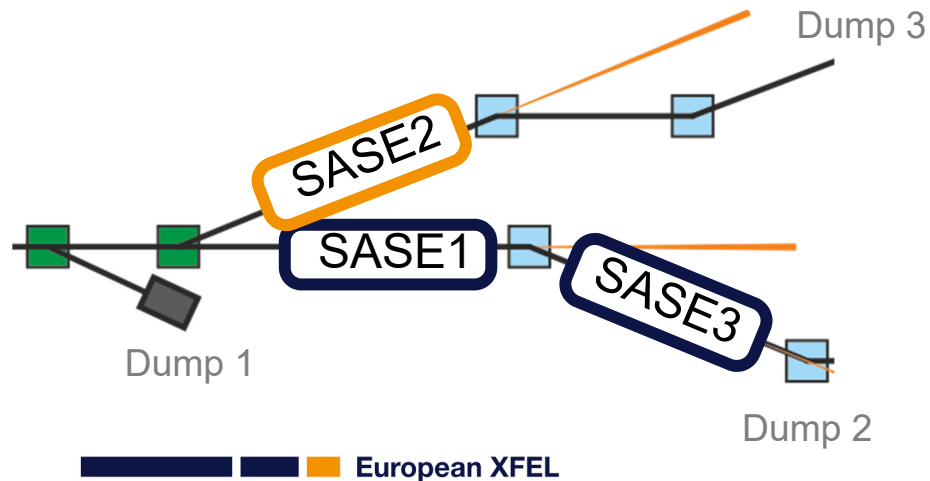


First lasing of SASE2

First lasing in the hard X-ray
beamline **SASE2** was achieved on
May 1, 2018.

Electron beam energy: 14 GeV

Photon energy: 7 keV



First lasing in all SASE beamlines @ European XFEL



First lasing in all
SASE beamlines

May 2, 2018



Thank you for your attention!