

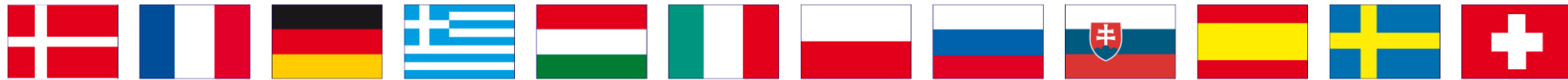
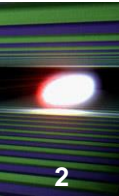


Introduction XFEL GmbH

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XFEL Project Office

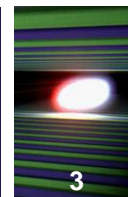


About the European XFEL GmbH (XFEL.EU)

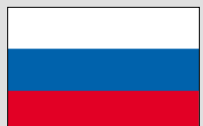


- Organized as a non-profit corporation in 2009 with the mission of design, construction, operation, and development of the free-electron laser XFEL
- Supported by 12 partner countries
- Total budget for construction (including commissioning)
 - 1.15 billion € at 2005 prices = ca. 1.5 billion € at contemporary prices
 - 600 M€ contributed in cash, over 550 M€ as in-kind contributions (mainly manufacture of parts for the facility)
- located currently in Hamburg, Germany,
 - move to the new XFEL campus in Schenefeld in 2016

Financial / Council participation (2005 Euro)



663 M€*



306 M€*



36 M€



33 M€



25 M€*



17.5 M€*



17 M€*



12.7 M€*

11 M€
each

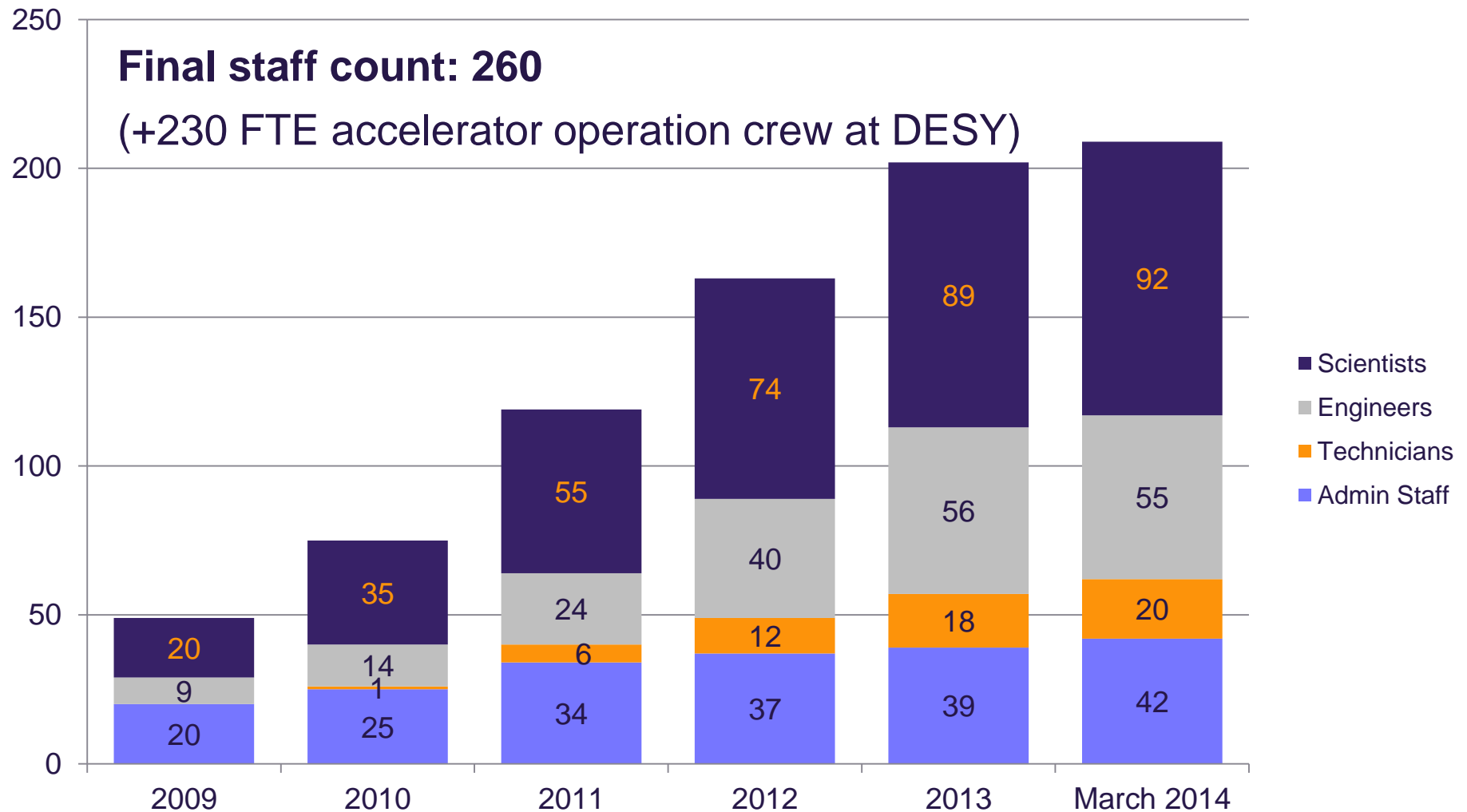
4 M€

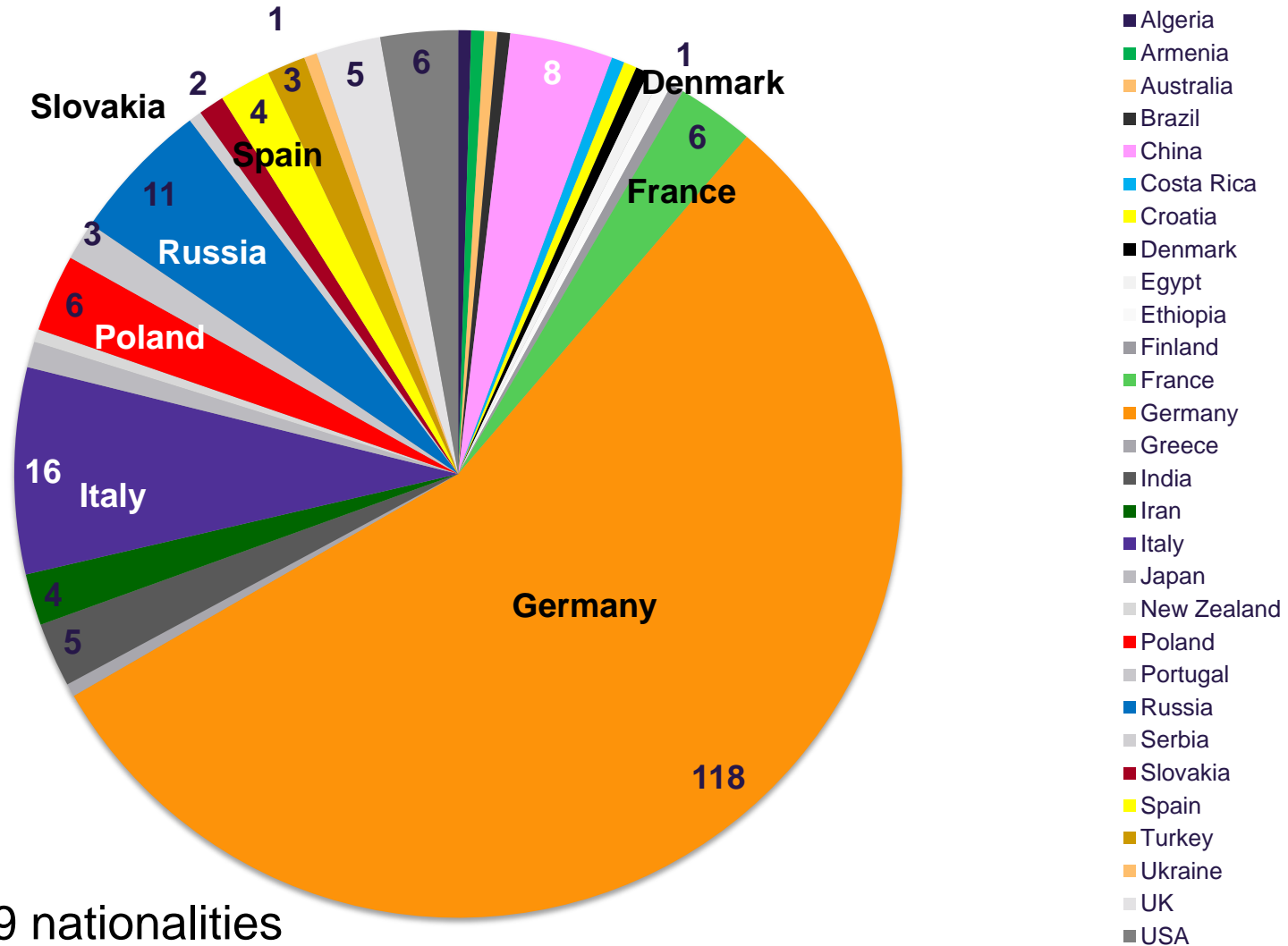
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* Increased contribution decided in 2012

Staff of the XFEL GmbH

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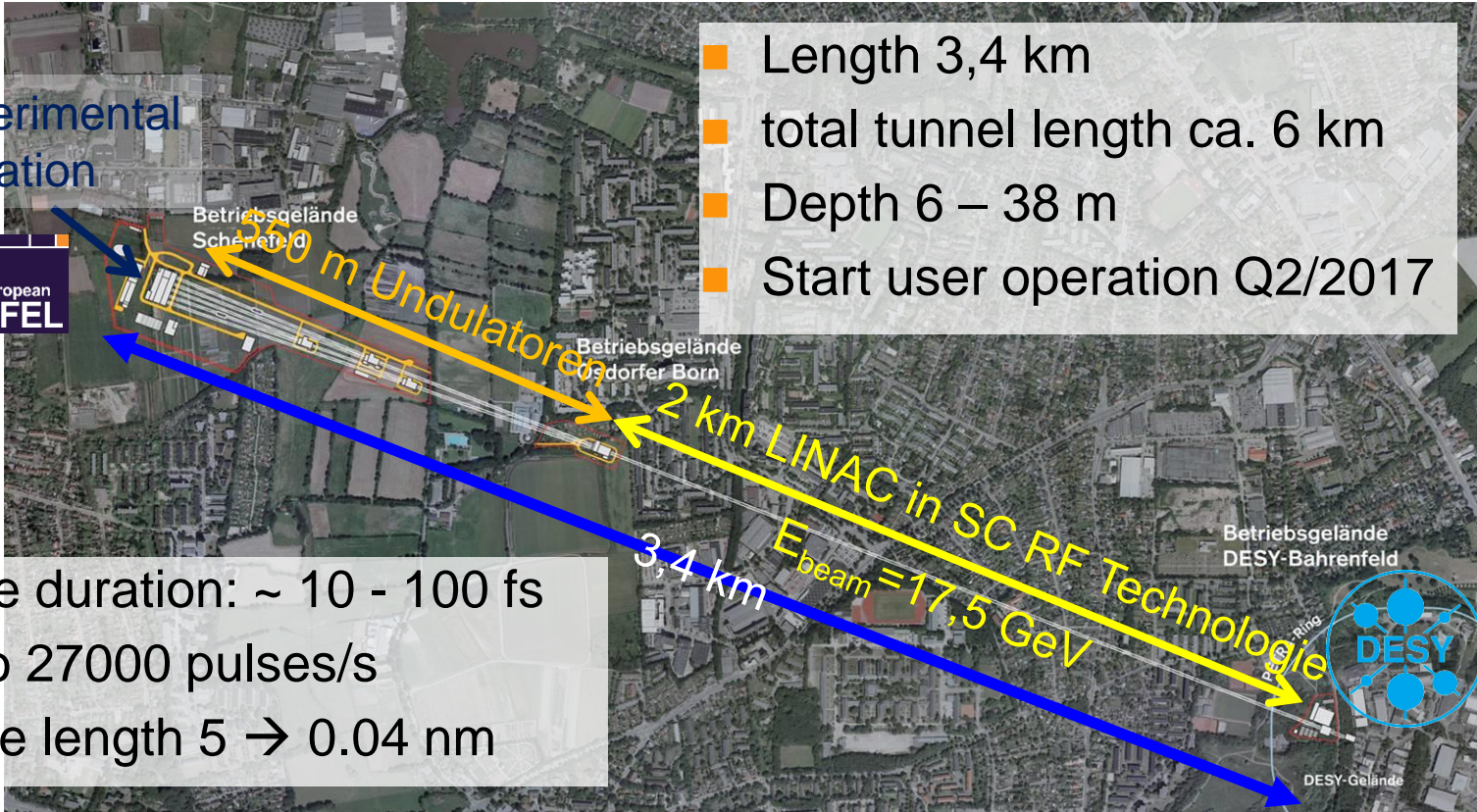
currently 29 nationalities

XFEL User Facility under Construction

2008-2017

6 experimental
station

- Length 3,4 km
- total tunnel length ca. 6 km
- Depth 6 – 38 m
- Start user operation Q2/2017



- pulse duration: $\sim 10 - 100 \text{ fs}$
- up to 27000 pulses/s
- Wave length $5 \rightarrow 0.04 \text{ nm}$

Status:

Status August 2007, © DESY, Hamburg
Luftaufnahmen:
a) DLR, FHRL, Landesbetrieb Geo- und Vermessung, UGV
b) DLR, © JVerma S-H 2007, S. 989/07

- tunnels are completed, above ground under construction
- series fabrication of all components in full swing
- general infrastructure installation in full swing (staged)
- machine installation began 2013 with injector