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The European Cluster of Advanced Laser Light Sources (EUCALL)

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The European Cluster of Advanced Laser Light Sources (EUCALL) generates collaboration and synergy between large scale sources of laser-driven and accelerator-driven x-ray radiation.

The lead project partner is European XFEL, while the other partners are DESY, the Extreme Light Infrastructure (ELI) in Czech Republic, Hungary and Romania; ESRF in Grenoble, Helmholtz Zentrum Dresden-Rossendorf, Lund University, the Paul Scherrer Institute and Elettra Sincrotrone Trieste. The networks Laserlab-Europe and FELs of Europe are also involved, while representatives from the user communities of FELs and Optical Lasers are members of EUCALL's steering committee. EUCALL is the first serious effort to bring together the two scientific communities who have been using x-ray light in parallel to each other, and from different scientific and technological backgrounds.

This presentation will highlight achievements and outcomes of the EUCALL project, as EUCALL enters the final months of its three year funding period. These include advanced software for simulation of experiments at free-electron lasers, standardised sample delivery systems at free-electron laser instrumentation, and novel tools for photon beam diagnostics.

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