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The European Spallation Source as a new tools for discovery

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The European Spallation Source (ESS) is a pan-European project composed of 15 European nations (members and observers), constructing together a neutron-scattering facility in Sweden, one of the largest science and technology infrastructure projects being built today. The ESS was designated a European Research Infrastructure Consortium, or ERIC, by the European Commission in October of 2015. The ESS was designated a European Research Infrastructure Consortium, or ERIC, by the European Commission in October of 2015. Scientists and engineers from 50 different countries are members of the workforce in Lund, who participate in the design and construction of the European Spallation Source.

After a description of the ESS collaborative project and its in-kind model, this presentation will introduce the linac accelerator, its tungsten target and the neutron instruments, which will answer the scientific challenges of tomorrow. This unique facility will enable new opportunities for researchers across the spectrum of scientific discovery, including materials and life sciences, energy, environmental technology, cultural heritage and fundamental physics.

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