



How TSL has scaled down and streamlined

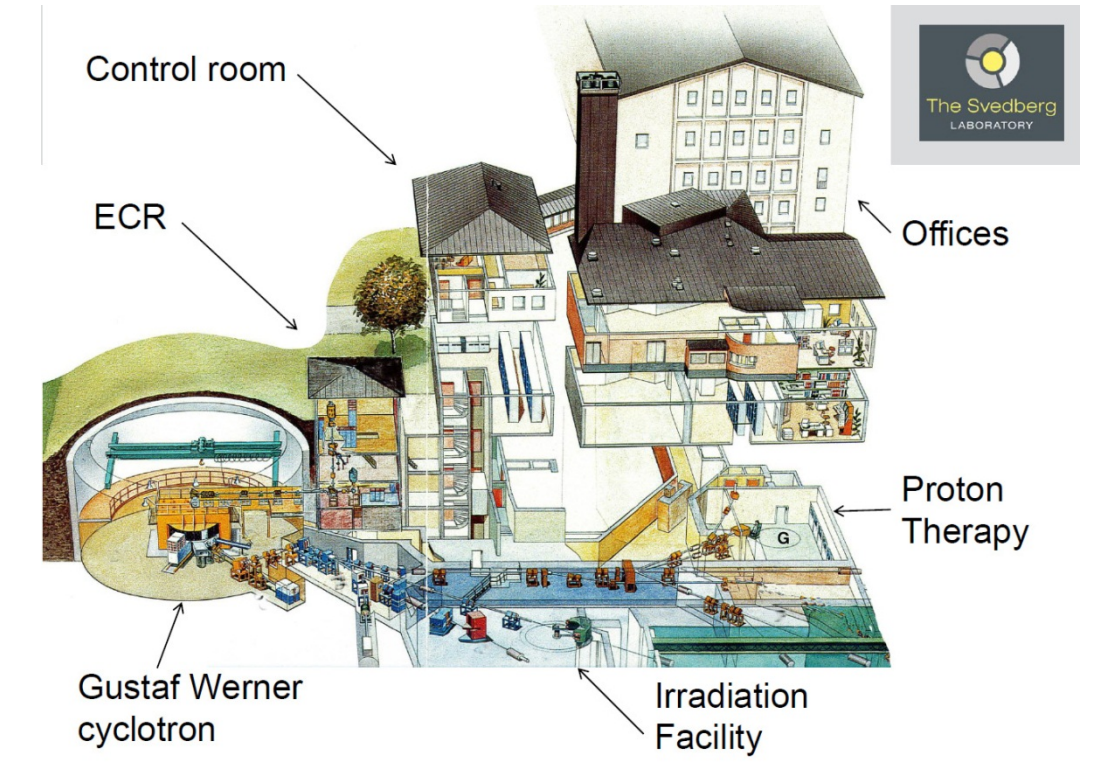


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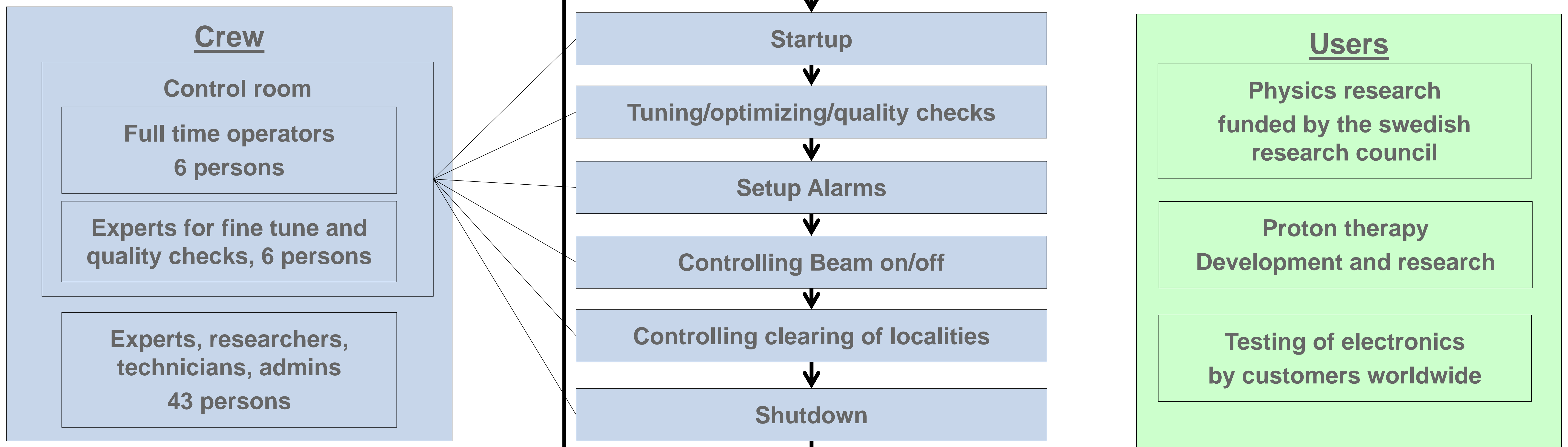
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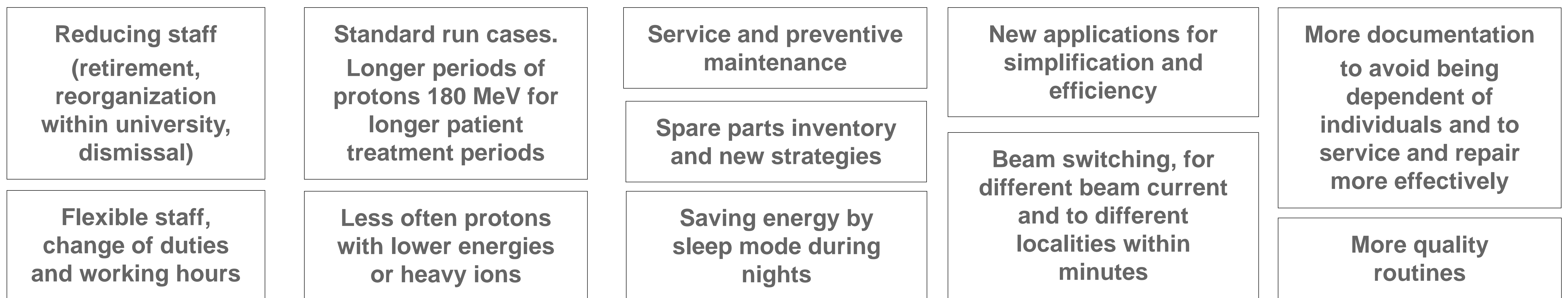
Some years and events: 1949: Commissioning of cyclotron, synchrocyclotron 185 MeV. Gustaf Werner's Institute of Nuclear Chemistry. 1951: First beam. 1957: Worlds first proton treatment of cancer in a patient. 1977-1986: Cyclotron rebuilt, Sector focussing, 20-180 MeV. 1986: Formation of the The Svedberg Laboratory (TSL), GW Cyclotron, CELSIUS-ring and Tandem Lab. 2005 **Decommissioning of CELSIUS ring, Reorientation towards Proton Therapy and Irradiation physics (Blue Hall) in beam sharing, staff reduced from 55 to 15 persons.** 2012: Still kicking and alive, serving both local users from the Uppsala University hospital as well as worldwide customers from industry and the research community within the EC.



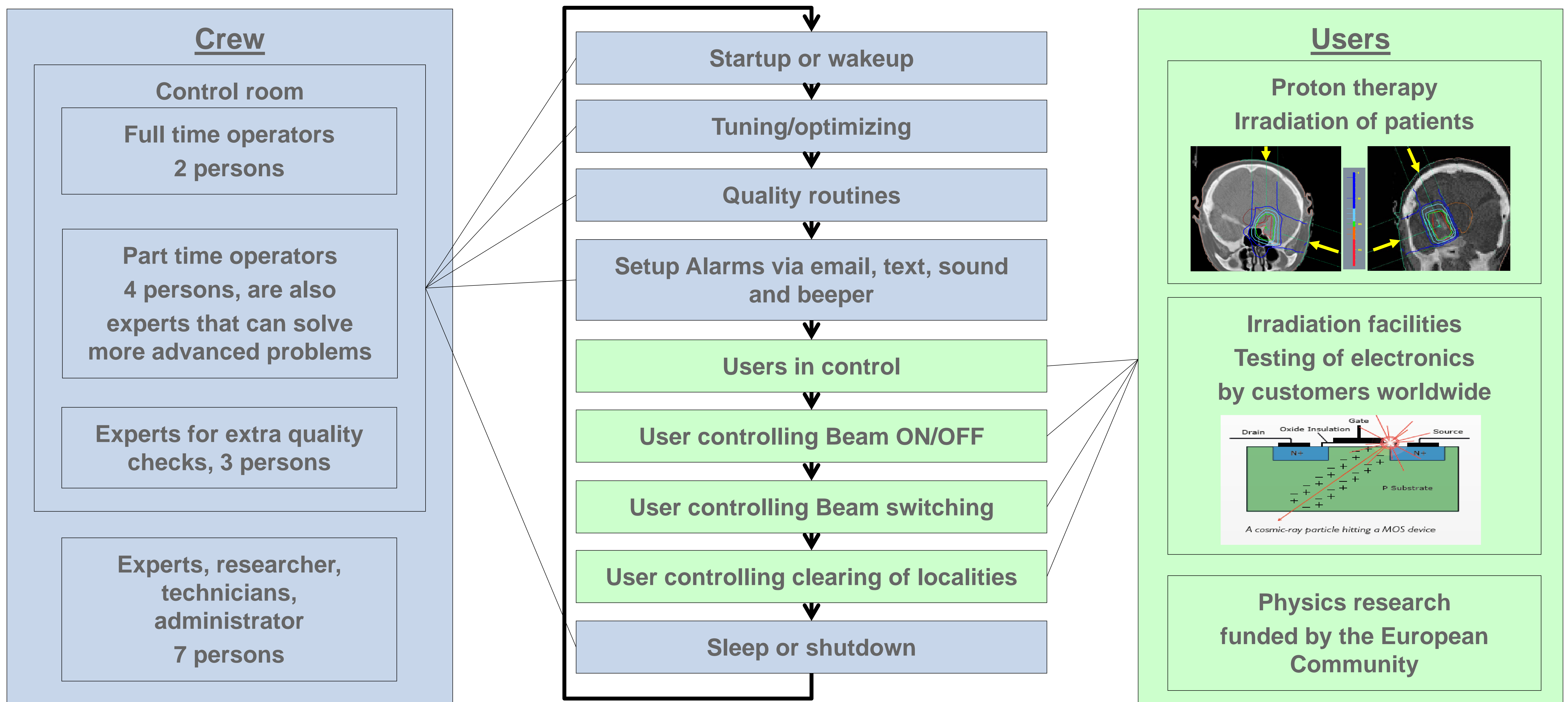
Running the accelerator in former days



Changes done in organization, run cases and routines



Running the accelerator today



Normal day: 00-06: Sleep mode, 06-08: Startup, 08-18: Therapy/Irradiation facilities, 18-22: Irradiation facilities, 22-24: Sleep mode

Normal year: w1-3: service, w4: CW, w5-24: FM, w25: CW, w26-33: service/vacation, w34: CW, w35-50: FM, w51: CW, w52: service/vacation