

Result of the Swedish Research Council's inventory of needs for research infrastructure 2017/2018

The names of the areas are preliminary and may be changed.

Grade	Research infrastructure area
A1	Infrastructure for astroparticle physics with neutrinos, upgrade of Icecube
A1	Infrastructure for experimental research on large animals
A1	Infrastructure for brain imaging
A1	Infrastructure for chemical biology
A1	Infrastructure for metabolomics
A1	Infrastructure for visualisation of data
A1	Context databases for social sciences
A1	MEDem Monitor for Electoral Democracy in Europe (ESFRI's roadmap)
A1	National coordination of Swedish research ships
A1	Square Kilometre Array (SKA)
A1	Swedish collaboration in European Marine Biological Resource Centre (EMBRIC-ERIC)
A1	Swedish collaboration in the planning, construction and operation of Aerosols, Clouds and Trace Gases Research Infrastructure (ACTRIS)
A1	Swedish participation in EPOS-ERIC
A1	Swedish membership in Euro-Bioimaging - ERIC
A2	Instrumentation at MAX IV
A2	Cultural heritage and digitisation
A2	Access to large-scale facilities for neutrons
A3	Biomedical imaging
A3	Digital archaeological analysis and visualisation
A3	Digital infrastructure for historical locations
A3	Humlab
A3	Infrastructure for artistic research data
A3	Infrastructure for laborative archaeology
A3	Infrastructure for protein production
A3	Instrumentation for fundamental physics at ESS
A3	National coordination of station-based marine infrastructure and measuring operations
A3	Platform for single cell analysis
A3	Space Environment Center
A3	Access to electron microscope for materials studies
A3	Access to infrastructure for studies of dark matter
A3	Access to NMR
A3	Upgrade of the national research infrastructure SITES for membership in AnaEE and eLTER
A3	Upgrade of DESIREE
B	Accelerator-driven neutrino physics
B	Image library for medical digital diagnostics
B	Multi-lingual tree banks
B	High-quality historical databases
B	High-technology laboratories for handling radioactive material

- B Individuals database, international network for research into healthy ageing over the life span
- B Infrastructure for research on civil society
- B Infrastructure for chemical imaging
- B Correlative image processing and analysis
- B National Prospective Cohorts: LifeGene and EpiHealth
- B National programme for rare disease diagnosis
- B Northern Baltic Research Infrastructure (NBRI)
- B NorthLink: Northern Sweden Multi-Generation Linkage Infrastructure
- B Platform for pre-clinical PET-MRI
- B RealityLab
- B S.H.I.E.L.D.
- B SKANDIA GEODATA
- B Specific infrastructure for miniature accelerators
- B Strategic environment archaeological database (SEAD)
- B Swedish infrastructure for Heritage Science
- B Swedish biographical lexicon on women
- B Technical infrastructure for textile materials
- B Access to X-ray tomography of materials
- B Access to equipment for vibration spectroscopy
- C Affinity probes for protein structure analysis
- C Unit for biobank research (EFB)
- C Future major solar telescope with advanced instrumentation
- C National Experimental Wetland (NEW) facility for handling the consequences of climate change
- C Upgrade of advanced cleanrooms (physics, chemistry, materials science)

- D Research platform for future water cleansing – Sjöstadsverket
- D Infrastructure for animal experiment operations and genetic model organisms

- D Infrastructure for gene and cell therapy production
- D Storage and distribution of high-frequency asset price data
- D National immunity and microbe biobank
- D National high-security laboratory
- D Node for research into digitisation in teaching and learning (DLC-FoU)
- D Northern Sweden's MONICA study
- D SPOR – A national perioperative register using automatic data collection for the purpose of improving healthcare results and knowledge direction

- D SwePhenoPlant
- D Swetox infrastructure
- D Technical infrastructure for building construction
- D Technical infrastructure for water power
- D Access to equipment for electron spectroscopy
- D Upgrade of the ice-breaker Oden
- x Infrastructure for humanities of the future
- x Infrastructure needs relating to observations of polar atmosphere and near-Earth space
- x National Geospherical Laboratories
- x Access to neutron irradiation infrastructure for materials studies

Grades:

- A1 Relevant for consideration as infrastructure of national interest, ready for call.
- A2 Relevant for consideration as infrastructure of national interest, but currently not prioritised by the Swedish Research Council.
- A3 Relevant for consideration as infrastructure of national interest, but not ready for call.
- B Not relevant for consideration as infrastructure of national interest for reasons of xx.
- C The need can be covered by existing national or international infrastructure.
- D Should be handled by another organisation or by another method, namely xx.
- X Could not be assessed due to lack of information or unclear description.