



Photo: Erik Flyg

ACTION PLAN

Strategy for Karolinska Institutet's research infrastructure 2021–2024

Version 2. Approved by the Infrastructure Council September 29, 2022



**Karolinska
Institutet**

General approaches

More effective use of KI resources

- Define what KI means by instruments with the potential for co-utilisation – Draw up an inventory of such instruments that do not currently exist within the core facilities.
- Define clear, transparent and predictable processes for coordination at different levels. Test the use of iLab for searchability, booking, etc.
- Define responsibility for procuring, maintaining and renewing basic equipment and user competence.
- Test the possibility of coordinating and co-locating healthcare production infrastructures with KI's infrastructures that are at the forefront through common management and premises structures.

Measures to improve overview

- Single point of contact for research infrastructure: Organisation, structure and financing.
- Database for the easy identification of instruments, premises and competence in research infrastructure. Test if iLab can fulfil this function.
- Advance the structure for the web to simplify navigation. User perspective.
 - One simple template for all core facilities on the web.
 - Lay descriptions.

A long-term perspective

- Identify research infrastructures that need long-term planning conditions for managing knowledge building and investments – identify which core facilities are absolutely necessary for KI.
- Establish resource-allocation and steering models for research infrastructures that are essential to KI and/or research infrastructures that require long-term planning conditions.

Education assignment

- List the current educational assignment of the research infrastructures.
- Define and clarify the future educational assignment of the research infrastructures.

Thematic areas

Clinical research

- Make sure that research support is available that enables seamless collaborations with Region Stockholm. This shall include clear guidelines for analysis and extraction (contract, principal etc.) of samples regardless of whether they are held by KI Biobank or the Stockholm Medical Biobank (SMB), and easily accessible and clear guidelines for administrating MTAs and DTAs and the systematic review and allocation of resources to necessary activities.
- Investigate opportunities in interesting future areas such as “social innovation”, “control databases”, research infrastructures in healthcare research and “professional patients”.

Imaging

- Finalise installation of the equipment in the Infrastructure Council’s long-term budget.
- Follow up on investments made in electron microscopy and imaging.
- Decide whether KI, within the Infrastructure Council’s responsibility, is to take strategic initiatives to capitalise on MAX IV and/or ESS – and define and allocate resources to such initiatives.

Biochemical analyses – Omics

- Mapping existing resources and benchmarking.
- Ensure optimal guidance for researchers in terms of where a given analysis is best obtained (e.g. core facility, commercial actor) – Test the possibility of incorporating this in the “single point of contact” function.
- Test the possibility of coordination of certain biochemical analyses with Karolinska University Laboratory (KUL).

e-infrastructure

- Develop a plan for for KI’s active participation in national computational resources.
- Work for an increased use of national computational resources within KI.
- Monitor the development of Clinicum to ensure a good interface with the rest of KI’s research infrastructure, where relevant.

Conditions

Sustainability/Lifecycle analysis

- Create opportunities for competence and experience exchange for people working within KI's research infrastructures.
- Highlight the issue of good career opportunities for people working within KI's research infrastructures.
- Implement relevant activities as described in the report "Management and control of KI's research infrastructure" (Ref. No 1-1011/2020).

Steering, control and quality

- Implement activities as described in the report "Management and control of KI's research infrastructure" (Ref. No 1-1011/2020).
- Strive towards clarifying the role as core facility manager.
- The core facilities' quality work is addressed in annual dialogues between the core facility and representatives of the Infrastructure Council.
- The core facilities should describe their quality system as part of future resource allocation.
- Produce a quality system for KI's research infrastructure as part of KI's cohesive quality system.

Financing

- Initiate a project to establish processes for the future allocation of resources to KI's research infrastructure, including core facilities - call/evaluation/renewal.
- Produce impact analyses, for example as regards minimum level of research infrastructures on KI's different campuses, as internal coordination is to be based on the principle that operations are not to be doubled (multiplied) at KI.
- Produce a clear and transparent process for strategic investments within the Infrastructure Council's responsibility.
- Propose a process for the coordination of strategic investments between the Infrastructure Council and the Committee for Research.
- Continually and actively improve the internal application process that is aimed at attracting external funds for KI's research infrastructure.

Priorities/Accessibility

- Clarify IP (“Intellectual property”) linked to the utilisation of KI’s research infrastructure.
- Establish the collective exposure of KI’s research infrastructure vis-à-vis the commercial sector (“single point of contact”).
- Produce guidelines on prioritising the commercial sector’s use in relation to the needs of the university and incentives for making the research infrastructure available to a wider segment of the commercial sector.

Communication

- The communication activities of the core facilities are addressed in annual dialogues between the core facility and the Infrastructure Council.
- Allocate resources to communication activities.
- Review how KI’s core facilities are presented on ki.se and other websites in order to simplify navigation for the visitor.
- Produce communication templates and guidelines for the core facilities.
- Investigate the need to market core facilities and to devise a plan for this.

Karolinska Institutet is one of the world's leading medical universities. Our vision is to advance knowledge about life and strive towards better health for all. Karolinska Institutet accounts for the single largest share of all academic medical research conducted in Sweden and offers the country's broadest range of education in medicine and health sciences. The Nobel Assembly at Karolinska Institutet selects the Nobel laureates in Physiology or Medicine.

Photo: Ulf Sirborn



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