Ministry of Higher
Education and Science

Danish Agency for Science
and Higher Education

# The Danish Roadmap for research infrastructure

**22 January 2020
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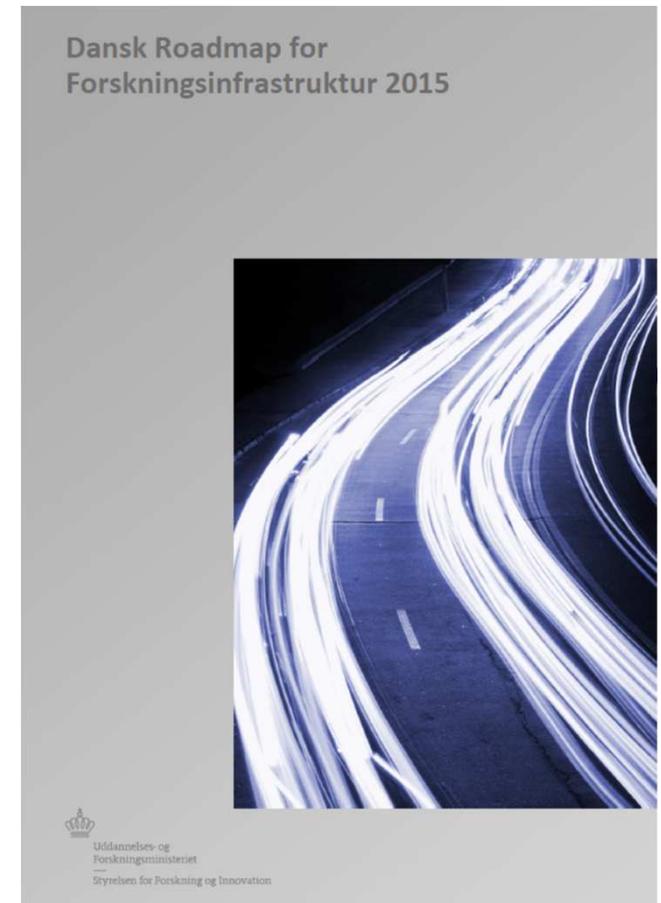for Science and Higher Education**

# Budget act 2020 (DKK 662,8 mil.)

| § 19.45 National research infrastructures (DKK 226,9 mil. ) | § 19.52 convention based international research infrastructures (DKK 204,0 mil.) | § 19.53 Other international research infrastructures (DKK 231,9 mil.) |
| --- | --- | --- |
| Pulje til Forskningsinfrastruktur (80,2) | CERN (138,5) | ESS (208,2) |
| Følgeforskning (13,4) | ESO (26,4) | ILL (12,3) |
| Registerforskning (9,7) | EMBL (17,7) | E-ELT (4,3) |
| DDA-Sundhed (3,3) | ESRF (12,8) | Små medlemskaber* (5,2) |
| Dansk Center for Havforskning (5,2) | E-XFEL (8,6) | Danske repræsentanter (0,2) |
| Zackenberg (3,5) | | Halden (1,7) |
| ESS-fyrtårnsmiljø (35,4) | | |
| Computing og e-Science (17,9) | | |
| Højhastighedsnet (52,6) | | |
| Open Science og data management (5,7) | | |

* (F4E, ECORD/IODP, GBIF, NOTSA)

# What is a roadmap?

- The roadmap will consist of a catalogue of 12-16 proposals for national research infrastructures.

- The roadmap will also contain strategic priorities for research infrastructures in Denmark.



Dansk Roadmap for
Forskningsinfrastruktur 2015

Uddannelses- og
Forskningsministeriet
Styrelsen for Forskning og Innovation

# The occassion – why a roadmap/catalogue?

- The catalogue will be used as the basis for funding 1-3 research infrastructures per year in the period 2020-2023.

- Provision for (increased) financing and inspiration for other public and private funding bodies.

- The foundation for international priorities and collaborations

# Changes compared to the 2015 roadmap

- Opportunity for larger strategic investments (1-3 financed per year from new roadmap instead of 2-3 from 2015 roadmap)

- This means that new research infrastructures potentially could be bigger and thereby to a larger extent have the need to do public procurements which could lead to opportunities for companies.
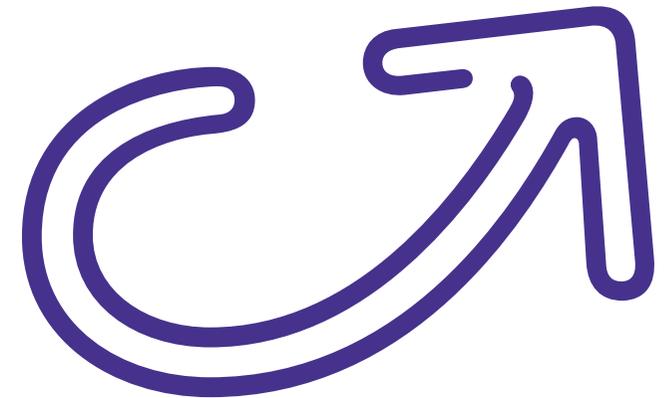
# 1. Scope of the call - General

- Construction and establishment of national RI

- New RI and significant upgrades of existing RI (incl. not funded proposals from previous roadmaps)

- All types of research infrastructures and within all scientific disciplines

The 5 main scientific areas:
- Social Sciences and Humanities
- Energy, climate and environmental sciences
- Biotech, health and Life Sciences
- Materials technology and Nanotechnology
- Physical sciences

# 2. Eligible proposers

- Main proposer:
  - Danish universities
  - Danish higher education institutions within the fine arts
  - Danish sector research institutes
  - Danish public research institutions including those within the organisation of Danish ministries, including Danish museums, archives and libraries
  - Danish university hospitals

- Co-proposers:
  - The main proposers as listed
  - Danish government institutions
  - Danish applied technology institutes
  - Danish hospitals
  - University colleges

- Other interested parties:
  - Institutions as listed under main and co-proposers
  - Private companies, private/public organisations and foundations, research institutions outside DK, etc.
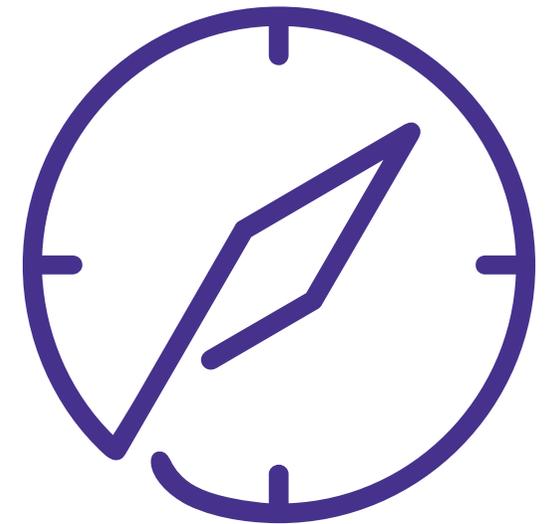
# Evaluation criteria

- Scientific quality and impact

- National added-value

- Socio-economic impact

- Feasibility

# Timeline

- 2 October 2019: Call for proposals published

- October 2019-March 2020: Proposal development

- 1 April 2020 12 o'clock pm: Deadline for submitting proposals

- December 2020: Roadmap published and grants from 2020 and 2021 announced.

- Hereafter the beneficiaries can start making procurement arrangements if needed.
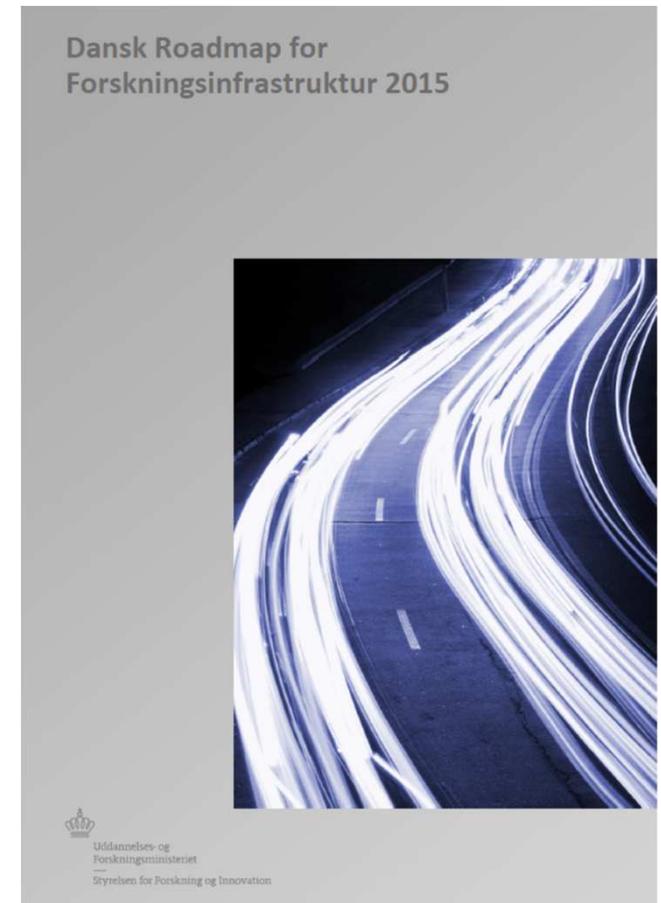
# Allocation of funding to proposals on the roadmap

- Annual budget is expected to be around DKK 80 million

- 1-3 proposals are expected to be funded every year in the period 2020-2023

# 2015 roadmap – examples of funded research infrastructures

- 12 out of 22 proposals have been awarded funding:
  - 2015:    PRO-MS
             ICOS/DK
  - 2016:    QUANTECH
             UAS-ability
             DK-OPENSCREEN
  - 2017:    AnaEE Denmark
             DRDS
  - 2018:    CERN-UP
             EMBION
             X-Power
  - 2019:    DANFIX
             FOODHAY

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# Financing of BigScience.dk

- The Danish Ministry of Higher Education and science aims to ensure the highest possible benefit from its membership of international research infrastructures:

- One benefit is to ensure that Danish companies are awarded contracts from these research infrastructures

- The Danish Ministry of Higher Education and Science finances BigScience.dk with an amount of DKK 3 mil. pr. year to support this effort