

# DAFSHE information meetings on roadmaps for research infrastructure

October - November 2019



# Agenda

1.Introduction to roadmaps

2.Danish roadmap for research infrastructure  
2020

3.European roadmap for research infrastructure  
2021

4.Contacts

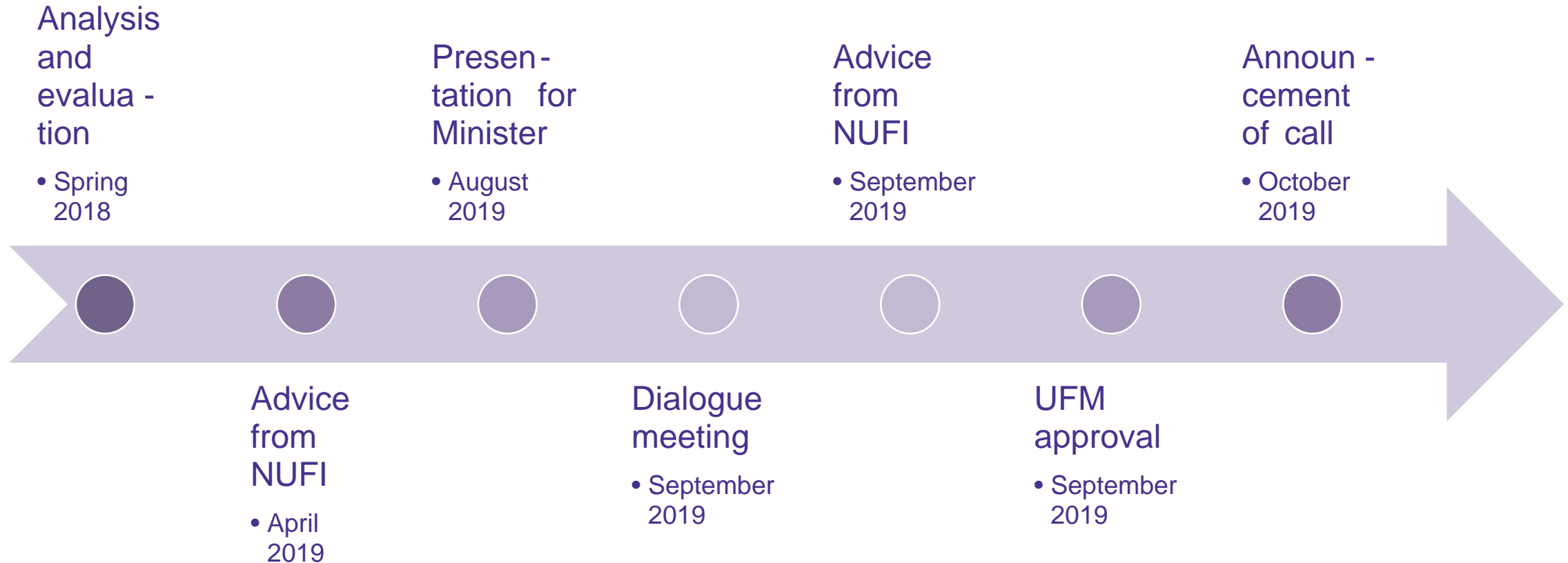


# The occasion – why a roadmap / catalogue ?

- Strategic foundation for decisions for financing
- Provision for ( increased ) financing and inspiration for other public and private funding bodies .
- The foundation for international priorities and collaborations

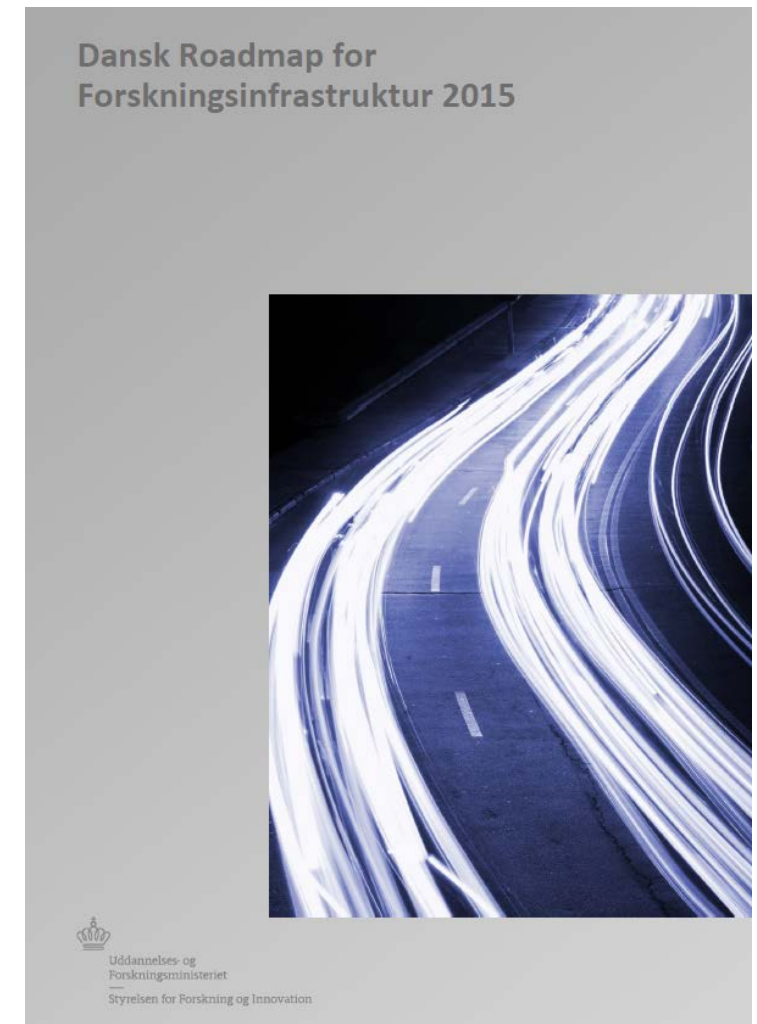


# The process towards today



# 2015 roadmap

- 12 out of 22 proposals have been/will be awarded funding:
  - 2015: PRO- MS  
ICOS/DK
  - 2016: QUANTECH  
UAS- ability  
DK- OPENSREEN
  - 2017: AnaEE Denmark  
DRDS
  - 2018: CERN- UP  
EMBION  
X- Power
  - 2019: Still in process



# Danish roadmap for research infrastructure 2020

# What will the roadmap be composed of?

- The roadmap will consist of a catalogue of 12- 16 proposals for national research infrastructures .
- The catalogue will be used as the basis for funding 1- 3 research infrastructures per year in the period 2020 - 2023.
- This means that a proposal included on the roadmap is not guaranteed funding .
- The roadmap will also contain strategic priorities for research infrastructures in Denmark.



# Main changes compared to the 2015 roadmap

- Shorter time span (from 5 to 4 years )
- Fewer proposals in the final roadmap (from 22 to 12-16)
- Opportunity for larger strategic investments (1-3 financed per year from new roadmap instead of 2-3 from 2015 roadmap )
- More precise text on national added value
- International peer review will be part of the evaluation proces





# 1. Scope of the call - General

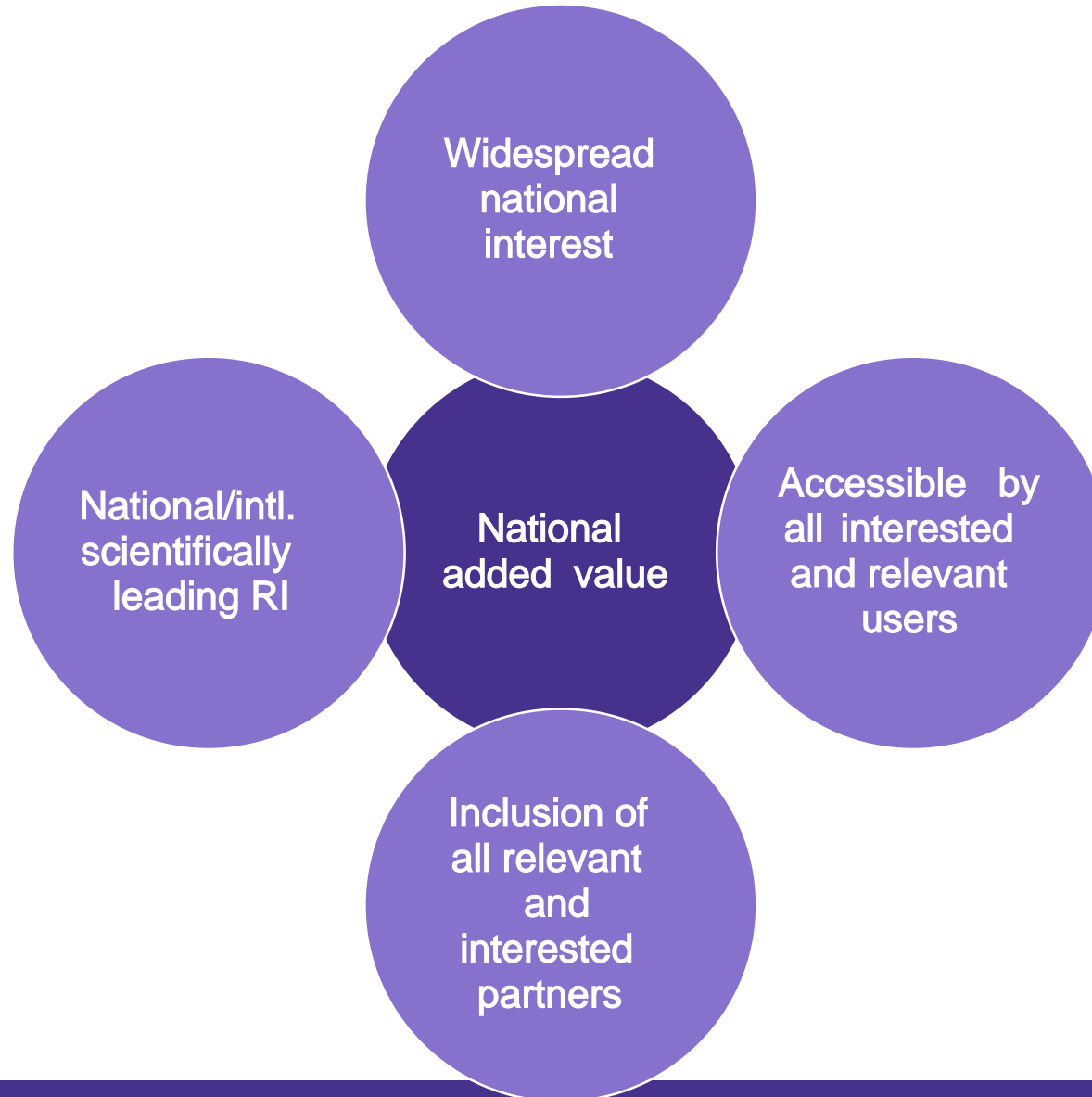
- Construction and establishment of national RI
- New RI and significant upgrades of existing RI (incl. not funded proposals from previous roadmaps)
- All types of research infrastructures and within all scientific disciplines
- Funding in 2020 - 2023 for a maximum of 5 years
- Permanent or long-term
- One or a few locations and single point-of-entry

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



# 1. Scope of the call – National added value



## 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.

# Content of proposals – proposal template (max 20 pages)

1. Description of the research infrastructure
  1. Purpose and context
  2. Scientific quality and impact
  3. Socio - economic impact
  4. Access model and data management
2. Establishment and organisation of the research infrastructure
  1. Organisation and management
  2. Time schedule for the establishment
  3. Digital infrastructure
3. Danish part of an international research infrastructure (if part of an international RI)



# Content of proposals – annexes

1. Budget
2. Commitment letters
3. CVs
4. Organisation chart – if not in proposal template
5. Declaration from DeiC – if budget for digital infrastructure is requested



## 3.2 Budget – co-funding requirements

- At least 50 % co-funding from proposers/ co-proposers for construction /establishment for minimum same period as Ministry's funding and maximum of 5 years
- 100 % funding of operation and decommissioning from proposers/ co-proposers
- Ministry can only fund construction /establishment period with up to 50 % for maximum of 5 years



## 3.2 Budget – eligible costs

- Costs directly related to and necessary for the construction/establishing of the research infrastructure and which fall within the construction/establishing period .
- Categories of costs:
  - Salaries for scientific personnel
  - Salaries for technical and/or administrative personnel
  - Capital investments
  - Other expenses necessary for construction/establishment
  - If relevant: International memberships
- Non - eligible costs:
  - Scientific/academic salaries for research incl. grants for PhD postdoctoral students
  - Regular housing and rental costs
  - Overhead/administration expenses
  - Costs that incur before/after the expected grant period



## 4. Evaluation criteria - Scientific quality and impact

- National scientifically leading and/or part of a global scientifically leading RI.
- Positions Denmark internationally.
- Facilitates high scientific impact and supports execution of excellent and ground - breaking science.
- Great scientific importance + benefit to all relevant and interested Danish researchers.
- Benefits research based education.
- Benefits research based collaboration with industry and public organisations .





# Evaluation criteria - National added value

- Widespread national interest + solely available in one/a few locations in Denmark.
- High national importance and requires national commitment and funding.
- Accessible for all relevant and interested researchers regardless of their institutional affiliation as well as to other relevant users + data generated and accumulated at the research infrastructure follow the FAIR principles.
- Involvement of all relevant and interested national institutions and other parties in RI partnership .



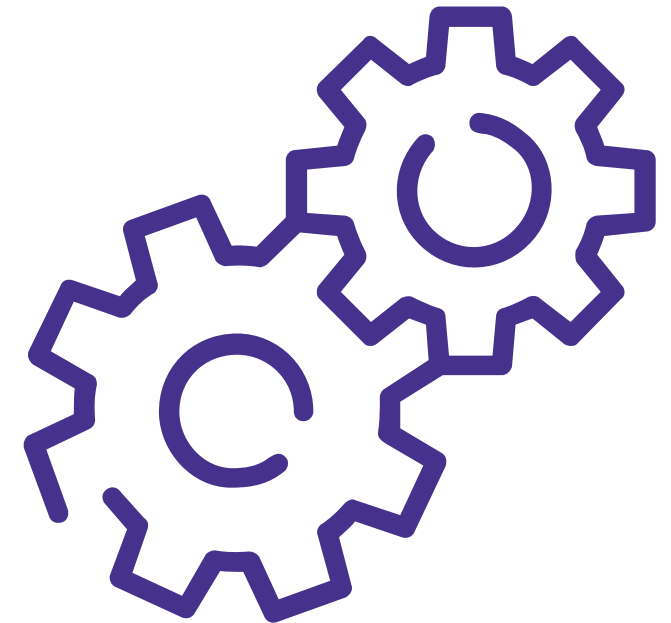
# Evaluation criteria - Socio - economic impact

- Important national impact to society, e.g. by tackling societal and environmental challenges, contributing to innovation and economic growth or contributing to informing public policy - makers.



# Evaluation criteria - Feasibility

- Strong yet open national institutional partnership with a strong institutional commitment, a well - defined organisation and capable management.
- Feasible to be realised scientifically, technically and financially within five years after being funded + permanent or long - term research infrastructure.
- Access to sufficient digital RI capacity.
- If RI is Danish part of an international RI: the feasibility in terms of the national RI becoming part of the international RI.

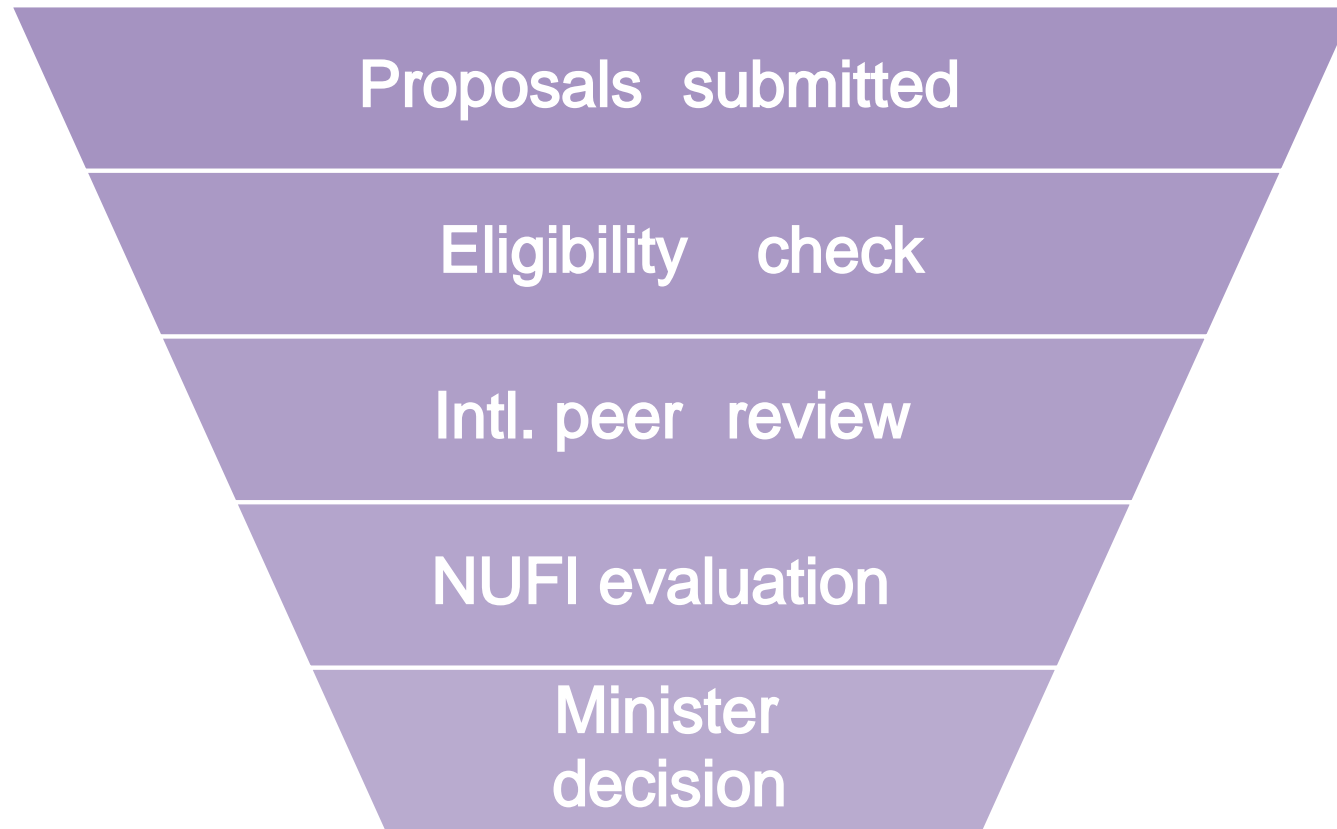


# Evaluation criteria – Horizontal considerations

- Number of proposals in roadmap .
- Balance between scientific areas .
- National strategic initiatives (DAFSHE and minister) for proposals with positive evaluation in other evaluation criteria .



# Evaluation and decision process



# Timeline

- 2 October 2019: Call for proposals published
- October - November 2019: DAFSHE info meetings
- October 2019 - March 2020: Proposal development
- 1 April 2020 12 o'clock pm: Deadline for submitting proposals
- April 2020: DAFSHE Eligibility check
- May - June 2020: International peer review
- August - September 2020: NUFI evaluation
- October - November 2020: Minister decision
- December 2020: Roadmap published and grants from 2020 and 2021 announced .



# Allocation of funding to proposals on the roadmap

- Same **evaluation criteria** for being awarded funding as for being included on the roadmap
- Similar **process** as for the roadmap : NUFI advises , DAFSHE advises and the minister makes the decision
- 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



# Allocation of funding to proposals on the roadmap

- From 2021 (or 2022) proposals on the roadmap will be asked to update their proposal
- After the minister has made a decision on which proposals are prioritised for funding a given year, the proposers are asked to submit further documents regarding budget, timetables, etc.
- Hereafter the minister takes the final decision





# European roadmap for research infrastructure 2021

# What is ESFRI?

- European Strategy Forum for Research Infrastructures was established in 2002 with the purpose:
  - To develop the European research environment by formulating a coherent strategy for the development and establishment of research infrastructures
  - To facilitate international negotiations about concrete initiatives within the research infrastructure area.
- Consists of national representatives of EU28 and the 15 associated countries plus the EU Commission.
- 1 Plenary Forum (PF), 6 Strategy Working Groups (SWG), 1 Implementation Group (IG) + some ad hoc groups. DK is represented in PF and 5 SWGs.
- Primary instrument is the formulation of a common European roadmap for research infrastructure



# The ESFRI Roadmap

- Identifies promising collaborations on research infrastructure with pan-European relevance and interest within 10 year period.
- First ESFRI roadmap in 2006, updates in 2008 , 2010, 2016, 2018 . Next update in 2021 .
- ESFRI does not have own funding – funding must come from participating countries (DK: funding for roadmap proposals or from research institutions), or from Horizon2020/Horizon Europe (limited funds)



# The ESFRI life cycle



- **ESFRI proposals :**
  - New projects at design phase, which ESFRI will consider to adopt on the European roadmap for research infrastructures. If adopted, they will become ESFRI projects on the 2021 roadmap.
- **ESFRI projects :**
  - Projects under preparation, which formally have been adopted on the European roadmap for research infrastructure. Roadmap projects have been assessed by ESFRI to be scientifically relevant and mature enough for establishment within a ten-year period.
- **ESFRI landmarks:**
  - Projects in operation from ESFRI's roadmap that are now under implementation or completed.

# How to participate in new proposals ?

- If interested, contact DAFSHE as soon as possible!
- 2- step process:
  - Danish deadline: **2 April 2020, 12.00** . DAFSHE will decide upon advice by NUFI if DAFSHE will offer support (financial/political).
  - European deadline: **5 May 2020, 18.00** - the responsibility of the lead country.
- Danish process:
  - Danish partnership to include **all Danish national institutions relevant and interested** in the specific proposed research infrastructures.
  - **Danish proposal submitted to DAFSHE** including a) draft application to ESFRI, b) Danish commitment letters (including funding for 10 year period if financial support is requested) signed by rector/similar, CVs of Danish scientific leader and other key personnel
  - DAFSHE must formally approve Danish participation and can offer:
    - **Financial commitment** only to proposals that have been funded on the previous Danish roadmap for research infrastructure 2015 or are fully funded from other side.
    - **Political support** to other proposals than mentioned above.
  - Danish evaluation criteria are the same as ESFRI's **+ National added value** (similar to Danish roadmap criteria).
- EU process is described in ESFRI's guide for applicants.

# How to participate in existing projects /landmarks?

- Denmark is formally member of a number of research infrastructures currently on ESFRI's roadmap as projects/landmarks (see the ministry's website).
- ESFRI's current roadmap also contains a large number of research infrastructures that Denmark is not currently involved in or a formal member of (see ESFRI's website) but are open for further countries and cooperation.
- No formal process or deadlines but interested parties are encouraged to contact DAFSHE to establish a dialogue on a potential way forward.
- The decision to join a project/landmark will be based on the same Danish evaluation criteria that applies for new proposals and DAFSHE will consult NUFI in this process.



# Contact



# Contact information

- Danish roadmap
  - Katinka, [kas@ufm.dk](mailto:kas@ufm.dk), 72318289
  - Thomas, [thmi@ufm.dk](mailto:thmi@ufm.dk), 72318292
- European roadmap
  - Katinka, [kas@ufm.dk](mailto:kas@ufm.dk), 72318289
  - Lars, [lach@ufm.dk](mailto:lach@ufm.dk), 72318472







# Tids- og procesplan AU

<b>Inden jul</b>	Frist for indsendelse af synopser (max to sider) til fakultetssekretariater.
<b>22. januar</b>	Universitetsledelsen beslutter, hvilke forslag der skal arbejdes videre med
<b>Jan.-primo marts</b>	De faglige miljøer arbejder med ansøgningerne
<b>Primo marts</b>	Frist for indsendelse af færdige projektforslag til fakultetssekretariater
<b>25. marts</b>	Universitetsledelsen behandler de færdige projektansøgninger
<b>1. april</b>	Frist for indsendelse af ansøgninger til SFU

*Fakultetssekretariaterne melder de præcise datoer ud senere.*