

Grand Solutions 2024

Innovation Fund Denmark

# Information meeting for potential applicants

# Agenda

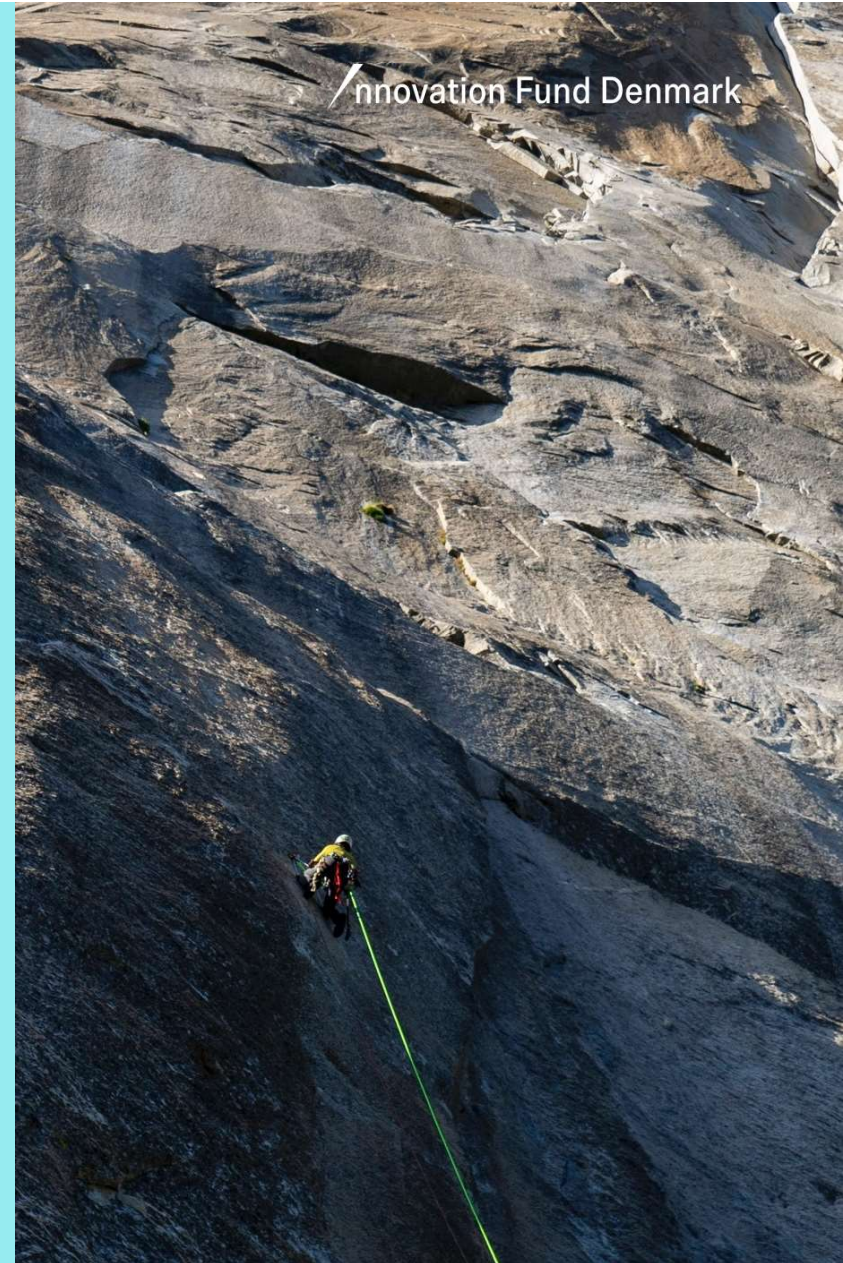
- 1) Presentation of programme and new model
- 2) Presentation of calls in 2024
- 3) Questions from the audience

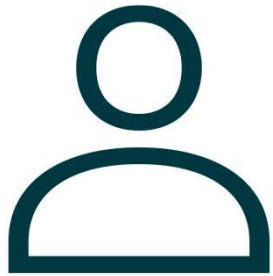
## GRAND SOLUTIONS

### **Investments for projects that:**

- Foster concrete solutions to societal challenges
- Have a high risk profile
- Focus on ambitious results and high impact
- Create value for Denmark

For instance new knowledge and improved processes, systems or products.





## Who

Any legal entity, for instance a company, research institution or public institution

## What

- Major investments; IFD invests from 5-40 million DKK
- Projects of 1-5 years

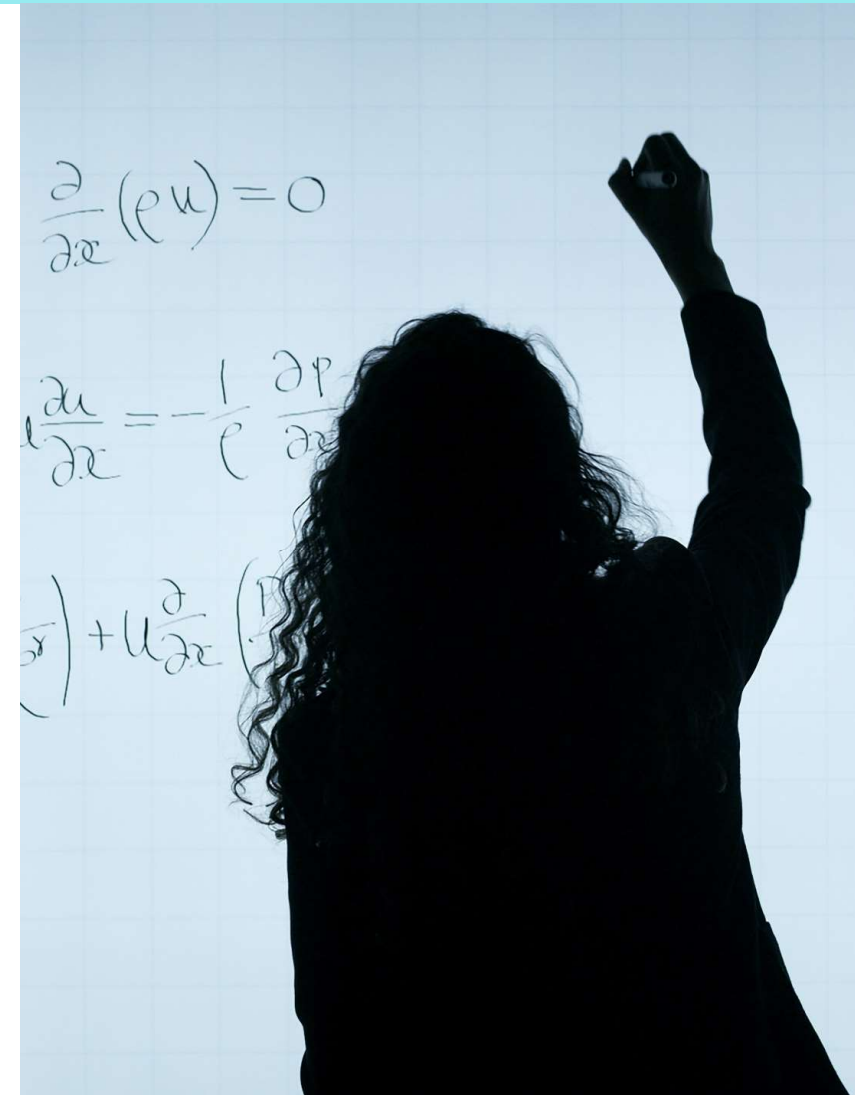
## How

Projects should create financial or/and societal value for Denmark

## New Grand Solutions framework from 2024

Two-phase application process and evaluation by committees.

- More user-friendly
- More efficient use of applicants' time and resources
- More transparent assessment model
- Most relevant knowledge within each theme



## Phase 1 | Letter of interest

- Official project title and acronym
- Expected total budget and project duration
- Requested total investment from IFD
- Short summary (max 600 characters)
- Foundation and concept of idea (max 1,800 characters)
- Quantifiable goals (max 1,200 characters)
- State of the art and competition (max 2,400 characters)
- Expected impact (max 1,200 characters)
- Contribution from up to 5 core participants (max 5 x 600 characters)
- Competences and experiences for up to 5 key persons (max 5 x 600 characters)

### *Appendices*

- Appendix A: Budget overview
- Appendix B: List of references

More partners can participate in the project, but you only need to provide information on the 5 most important partners in phase 1.

# Phase 1 | Decision criteria

*To what extent the letter of interest clearly and successfully addresses the following sub-criteria:*

## Quality of idea

- The aim is ambitious and based on a well-described and original idea
- A set of specific and relevant challenges and goals are identified
- The planned research and/or innovation is well-positioned in relation to the state of the art and the competitive situation

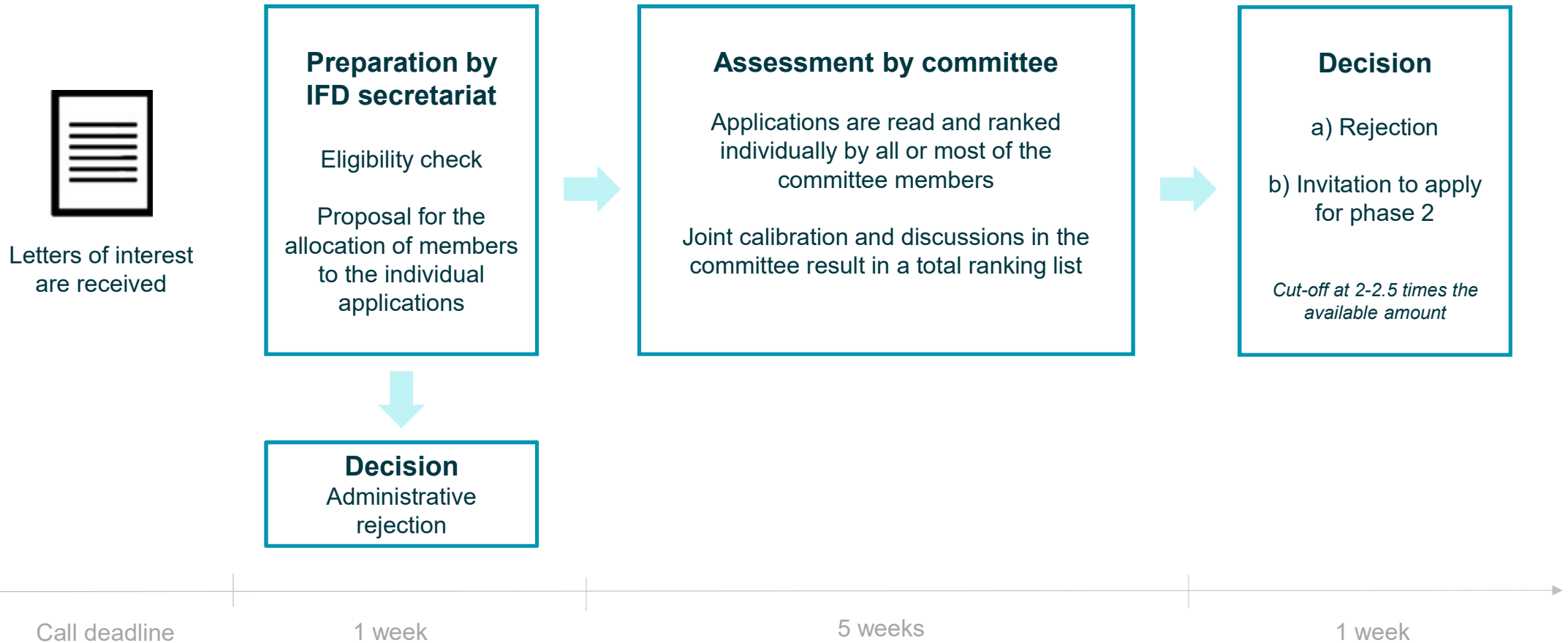
## Impact

- The expected impact for the project participants and the Danish society is plausible and substantiated
- The project contributes to solving a substantial societal challenge and its expected impact has been described in quantitative measures

## Quality of execution

- The main partnership behind the project appear credible and diverse in terms of executing the idea, work at a state-of-the-art level and create the expected impact
- The budget overview is realistic and cost-effective

# Phase 1 | How it works





# Possible adjustments from phase 1 to phase 2

Call: No shift allowed // Official title: Minor clarifications allowed // Acronym: No changes allowed

## Budget

- Expected total budget can be increased or decreased by up to 20%
- Requested total investment from IFD can be increased or decreased by up to 20%
- Total investment amount for all core participants can be increased or decreased by up to 20%
- Investment amount for other participants can freely be adjusted

## Project description

- Foundation and concept of idea must be preserved (elaborations are allowed)
- Quantifiable goals can be adjusted, but changes of more than 25% in quantitative goals and any changes to qualitative goals must be justified
- State of the art and competition must be updated to reflect current situation
- Expected impact can be adjusted, but substantial changes must be justified

## Partners and key persons

- Core participants must be preserved, no changes are allowed
- Additional participants can be adjusted, but must be justified
- New participants must be described
- Key persons must be preserved, but unforeseen changes are allowed if the replacement equals the competences of the original person and are justified

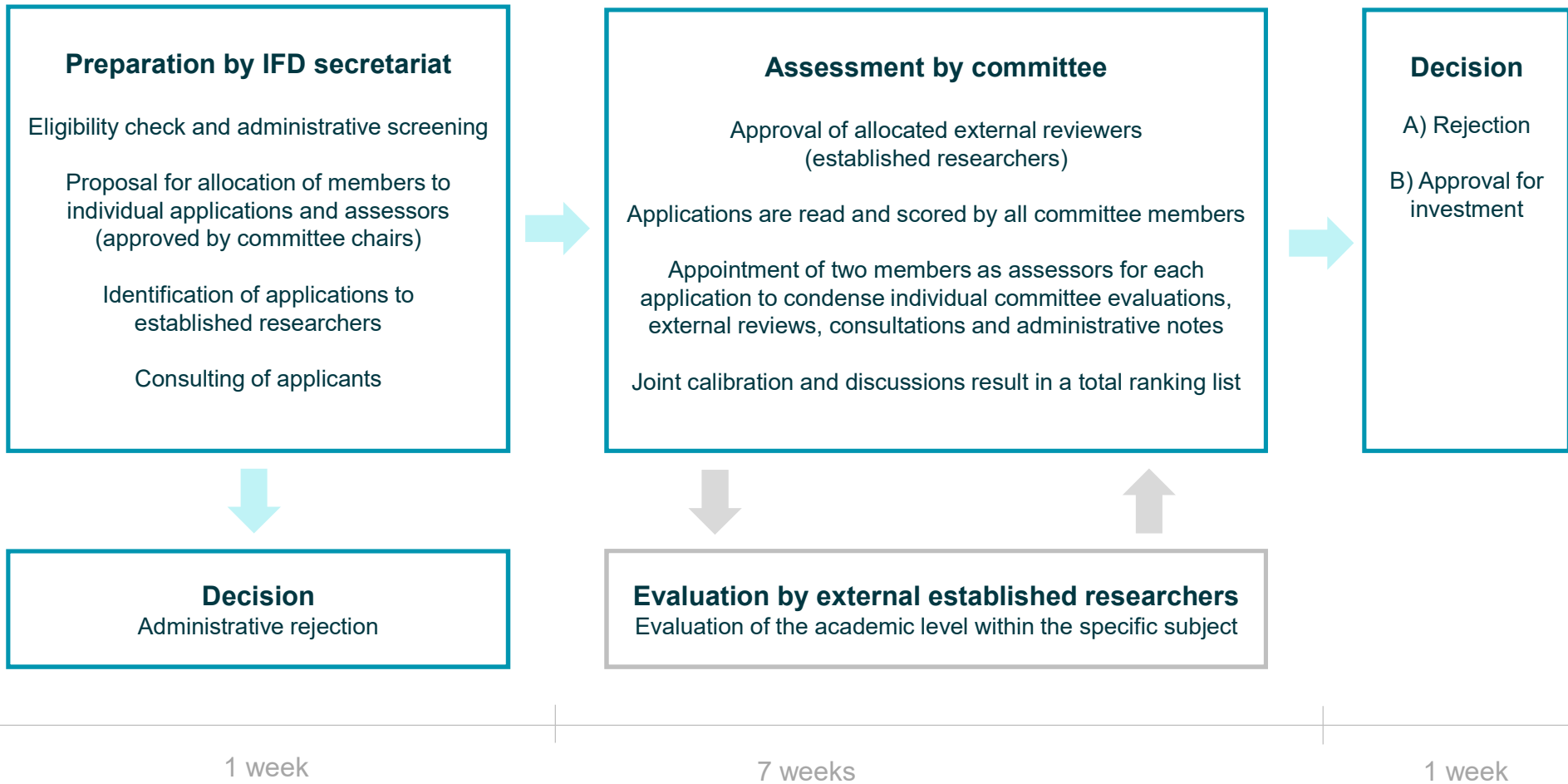
## Example of adjustments

	Budget overview from phase 1	Adjustment range for phase 2
Total budget for the project	50 MDKK	40–60 MDKK
Requested investment from IFD	33 MDKK	26.4–39.6 MDKK
IFD investment rate	66%	Up to 75%
Total budget for all core partners	29.5 MDKK	23.6–35.4 MDKK
Undistributed funds for additional partners	20.5 MDKK	No limits

# Phase 2 | How it works



Invited applicants prepare and submit a full application



# Committee member profiles

4 committees // 10-18 members in each // cover domains within each theme // diversity in focus



## Impact specialists

The chair and up to half the members

- Have considerable experience with commercialisation and implementation of research results or advanced products/services from the private or public sector in Denmark (and preferably internationally)
- Are or have recently been employed in the private or public sector in a theme-related domain
- Are able to evaluate the commercial and societal impact of projects as well as the strategic relevance for Denmark



## Established researchers

The co-chair and at least half the members

- Have been actively engaged in research at a scientific level for a number of recent years
- Are at least at associate professor or senior researcher level
- Are affiliated with a foreign research institution that meets URIS guidelines

## Transition model for 2024

- a) Letters of interest are assessed internally and by external evaluators and are subject to a consultation process in phase 1 ('partshøring')
- b) Decision on invitations to phase 2 is made by IFD's board of directors
- c) Applications for phase 2 are assessed by the new committees

### Timeline and deadlines

- 8 weeks from calls open to deadline in phase 1      24 April
- 11 weeks response time following phase 1      9 July
- 12 weeks from invitation to deadline for phase 2      18 September
- 9 weeks response time following phase 2      12 December
- Up to 10 months processing time in total



# Calls in 2024

## Overview of call themes and funding in 2024

Themes	Available funding*
Green research, technology and innovation	139.9 million DKK
Life science, health and welfare technology	160.1 million DKK
Stem cell research and technology	24.6 million DKK
Digitalization, technology and innovation (TECH)	149.9 million DKK
Artificial intelligence (AI)	77.9 million DKK
Quantum technologies	107.2 million DKK
<b>In total</b>	<b>659.6 million DKK</b>

\* The Innovation Fund Denmark may at its discretion decide to increase the overall budget for this call, particularly in case of excess funds when faced with a substantial list of qualified applications in this call that cannot be funded within the original budget.

## Call // Green research, technology and innovation

### Objective

The investments will support green research and innovation and should contribute to maintaining and creating knowledge, technology and jobs that can ensure the course of the green transition towards a more sustainable society.

### Examples

- Research into the development of smart, integrated energy systems and the potential of sector coupling within the overall energy and supply area, including digital technologies and solutions.
- Interdisciplinary projects and projects within humanities and social science research that combine natural science and technological research in order to contribute with valuable knowledge, for instance related to behaviour, incentives, regulation and market conditions.

### Attention

- Contributing to Denmark's Green Research Strategy and the underlying 7 themes
- Encouraged to support the development of local business lighthouses ('erhvervsfyrtårne')
- Topics within the Innomissions' strategic roadmaps may be suited for the Innomissions calls
- Main focus on development and demonstration within this call's subjects may be more suited for EUDP, GUDP or MUDP



Total IFD investment budget for this call: **Minimum 139.9 million DKK**

IFD investment per project: **5 million DKK to 40 million DKK**



## Call // Life science, health and welfare technology

### Objective

The investments will secure that Denmark's strong knowledge- and research position within the field continues to transform into inventions, products and technologies with a broad societal value as well as impact for public and private sectors.

### Examples

- Development of personal medicine
- Development of new drugs
- Development within the digital health area, including the health data area
- Development of medicinal equipment
- Use of artificial intelligence within life science and welfare technology
- Strengthening of the local healthcare system, including development, test and use of welfare technology within the elderly, social and health area
- Clinical outcome and economic impact of whole genome sequencing
- Digital prevention and treatment services for people with mental disorders

### Attention

- As far as possible, the research must be carried out in close interaction between research institutions and the business community, and with interaction from end-users, if relevant
- Encouraged to support the development of local business lighthouses ('erhvervsfyrtårne')



Total IFD investment budget for this call: **Minimum 160.1 million DKK**

IFD investment per project: **5 million DKK to 40 million DKK**

## Call // Stem cell research and technology

### Objective

The investments will secure that Denmark's strong knowledge- and research position within the field continues to transform into inventions, products and technologies with a broad societal value as well as impact for public and private sectors.

### Examples

- Stem cell research and technology

### Attention

- As far as possible, the research must be carried out in close interaction between research institutions and the business community, and with interaction from end-users, if relevant
- Encouraged to support the development of local business lighthouses ('erhvervsfyrårne')



Total IFD investment budget for this call: **Minimum 24.6 million DKK**

IFD investment per project: **5 million DKK to 24.6 million DKK**



## Call // Digitalization, technology and innovation (TECH)

### Objective

The investments will strengthen research and innovation in a number of important areas within digitalization, new technologies and innovation along the entire value chain.

### Examples

- Robot and drone technology
- Production technology
- Automation
- Materials technology
- Particle research
- Semiconductors, micro- and nano chips
- Space-oriented technology
- Cyber and information security
- Big data and artificial intelligence
- Responsible use of digital technology

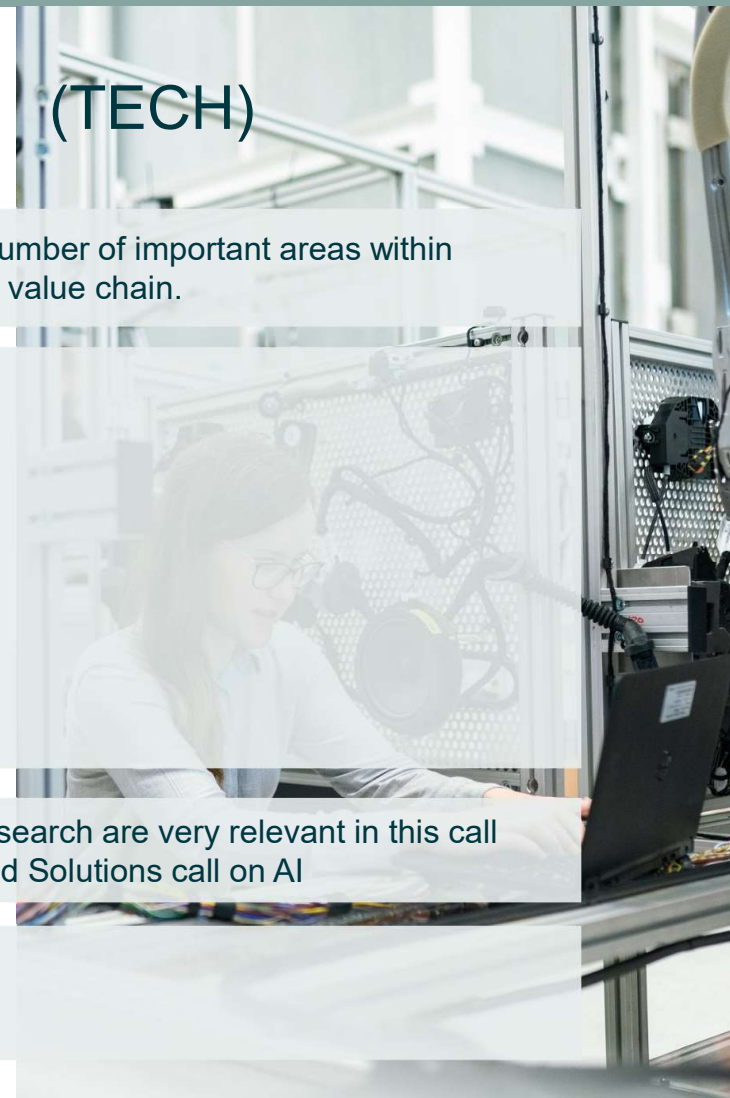
### Attention

- Projects originating from social sciences and humanities research are very relevant in this call
- Projects with a strong focus on AI should also see the Grand Solutions call on AI



Total IFD investment budget for this call: **Minimum 149.9 million DKK**

IFD investment per project: **5 million DKK to 40 million DKK**



## Call // Artificial intelligence (AI)

### Objective

The investments will strengthen research and innovation in AI along the entire value chain.

### Examples

- Big data
- Machine learning
- Natural language processing
- Generative AI
- Responsible use of AI

### Attention

- Projects originating from research disciplines like social sciences and humanities focusing on topics such as ethical issues, transparency, bias or regulatory aspects are very relevant in this call.



Total IFD investment budget for this call: **Minimum 77.9 million DKK**

IFD investment per project: **5 million DKK to 40 million DKK**



## Call // Quantum technologies

### Objectives

The investments will contribute to maintaining and further developing the Danish positions of strengths in the field of quantum technologies and pave the way for further cooperation with strategically important international partners.

### Examples

- Foundational quantum research and partnerships with companies in all quantum technology fields – from hardware and materials to software and algorithms. The aim is to mature both research and industry, ensuring a solid foundation for application-oriented research and innovation, and eventual commercialization of Danish quantum technology.

### Attention

- See next slide



Total IFD investment budget for this call: **Minimum 107.2 million DKK**

IFD investment per project: **5 million DKK to 40 million DKK**

## Call // Quantum technologies

### Deviations

The following deviations are in place to accommodate the focus on foundational research and capacity-building in this call compared to other calls under the Grand Solutions programme:

- The maximum investment rate from IFD is 90.0% of the total project budget. This enables companies and research institutions to get their individual maximum state aid funding rates (for instance 75.0% for SMEs and 90.0% for universities) in the same project, depending on the nature of the research and project activities.
- The number of participating organisations must be minimum two. However, it is acceptable with at least two separate departments at the same public Danish university as participants.
- The project progression along the TRL scale can be in the very low end (and even within for instance TRL 2) to enable foundational research.
- The requirements for applications under this call differ from other Grand Solutions calls regarding when to justify expected impact. This is due to the decision that this call focuses more on foundational research and capacity-building than other Grand Solutions calls.

# Final remarks and audience questions

## Important remarks

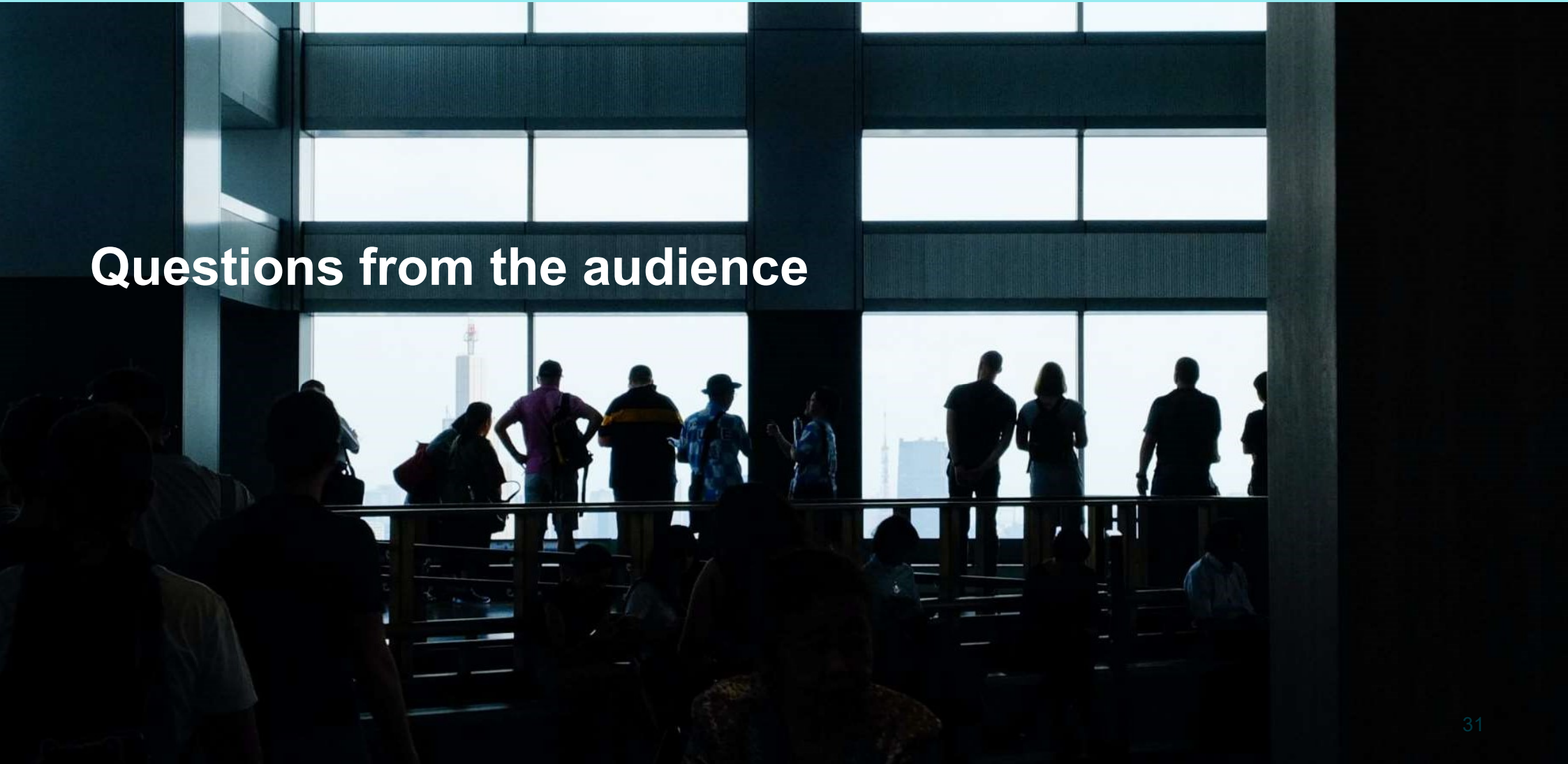
- Prioritize one call and acknowledge overlaps
- Two sets of guidelines (one for each phase)
- Phase 2 is only open by invitation

### Feedback

- Evaluation of phase 1 webinar on 3<sup>rd</sup> September 2024
- Evaluation of phase 2 webinar on 28<sup>th</sup> January 2025
- We are open to ongoing user feedback throughout the year



# Questions from the audience



Grand Solutions 2024

**Thank you**  
for participating