



Bundesministerium  
für Bildung  
und Forschung

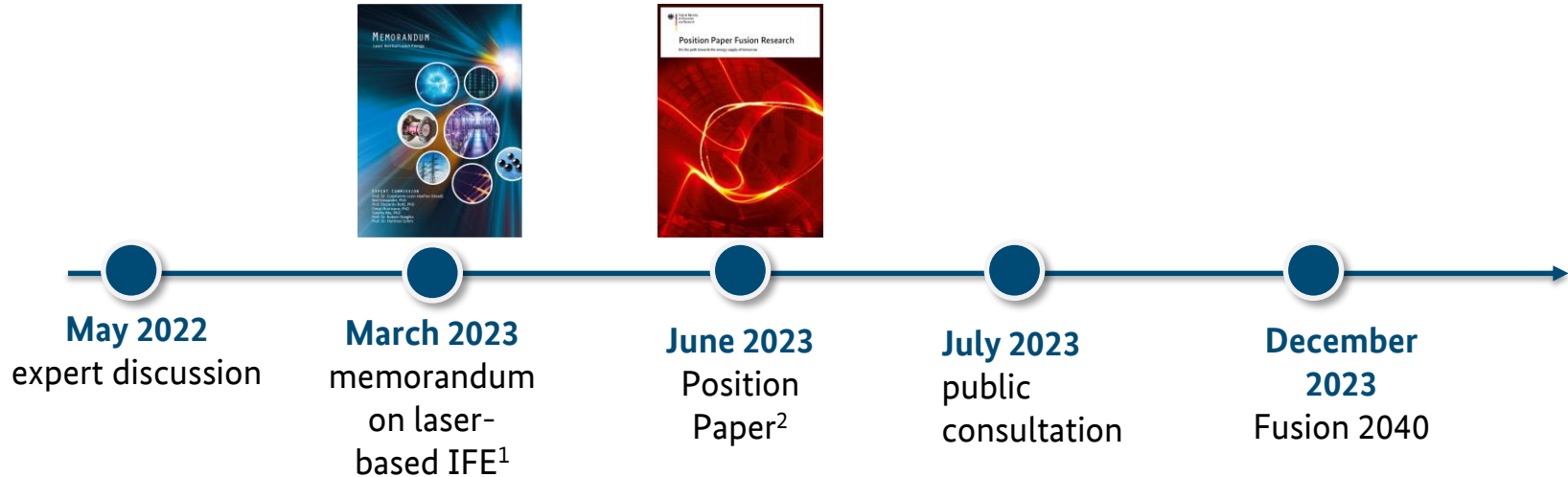
# FUSION 2040 – Research on the way to a fusion power plant

## The new funding programme

[bmbf.de](https://www.bmbf.de)



# The path to the new programme



<sup>1</sup> <https://www.bmbf.de/SharedDocs/Downloads/de/2023/230522-memorandum-laser-inertial-fusion-energy.html>

<sup>2</sup> [https://www.bmbf.de/SharedDocs/Publikationen/de/bmbf/7/775804\\_Positionspapier\\_Fusionsforschung.html](https://www.bmbf.de/SharedDocs/Publikationen/de/bmbf/7/775804_Positionspapier_Fusionsforschung.html)



# Fusion 2040 – Research on the way to a power plant

Overarching Goal:  
Fusion Power Plant

Funding for MFE and IFE

Duration:  
1 Jan 2024 – 31 Dec 2033

## Fields of Action I Scientific and technical issues

- ❖ Tritium
- ❖ Material development, First Wall and Blanket
- ❖ Neutron (sources)
- ❖ Plasma confinement
- ❖ Laser systems
- ❖ Targets
- ❖ Simulations
- ❖ (Design) studies

## Fields of Action II Ecosystem

- ❖ Infrastructures
- ❖ Training and further education of specialists
- ❖ Networking (especially research and industry)
- ❖ Public dialog & information
- ❖ Regulation



# Fusion 2040 – Research on the way to a power plant

Overarching Goal:

Fusion

Funding for MFE and IFF

Duration:

– 31 Dec 2033

**Innovation, Industry, Internationalization**

planned to be released in December 2023

370 Mio. € until 2028

Submission of applications in the context of specific calls

- ❖ Laser systems
- ❖ Targets
- ❖ Simulations
- ❖ (Design) studies

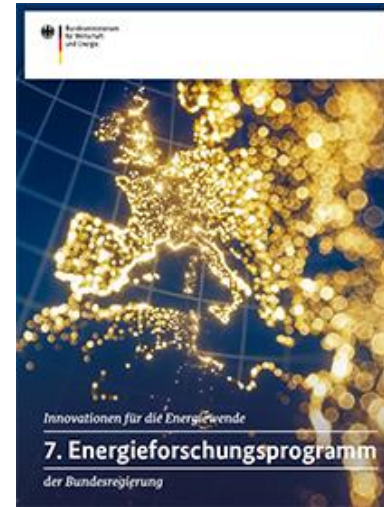
- ❖ Public dialog & information
- ❖ Regulation



## Linked to Government's ...



Future Research and Innovation Strategy



Energy Research Program



Bundesministerium  
für Bildung  
und Forschung

# Planned Calls



# Planned Call 1: Basic Technologies

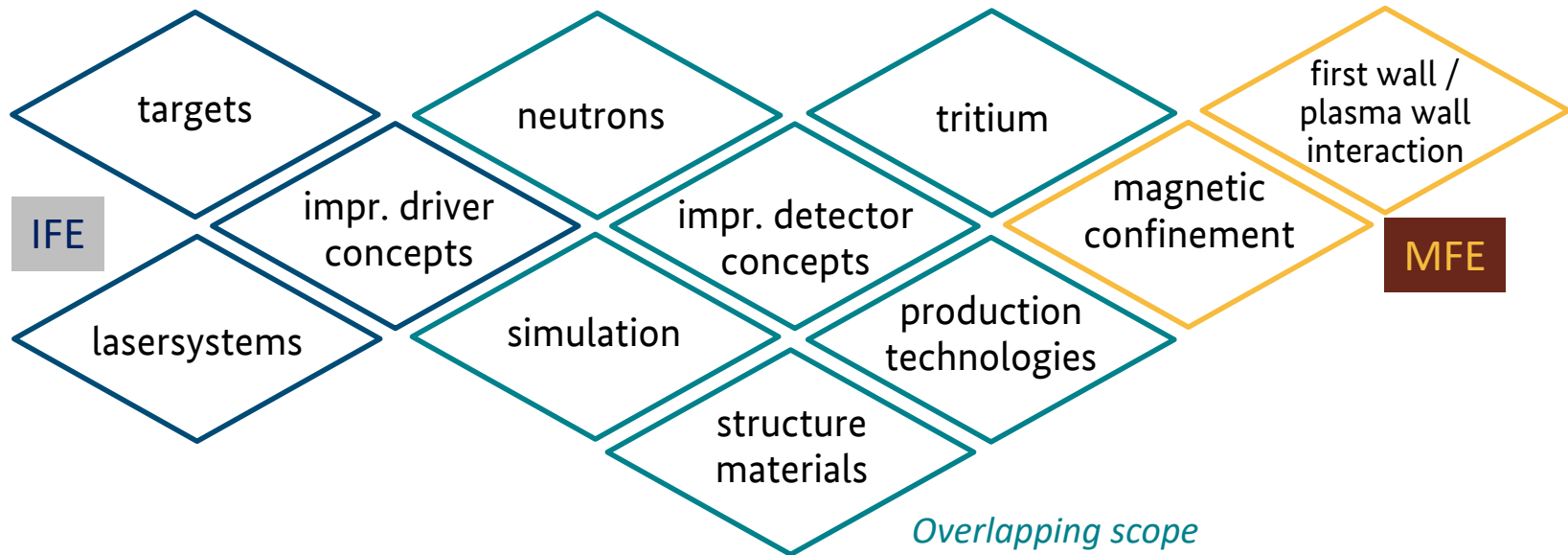
## MODULE A: Key Technologies

## MODULE B: Test and Measurement Infrastructure

- ❖ Strengthen technological sovereignty in Germany and Europe
- ❖ Cooperation between science and industry
- ❖ Strengthen resilience of the value chains
- ❖ Strengthen the German fusion community
- ❖ Progress and economic implementation of fusion in Germany



# Basic Technologies – Scope for Modules A & B







# Conditions and Requirements I

- Clearly defined tasks and quantified objectives
- Significant progress compared to the state of the art (level of innovation)
- High scientific and technical risk of the work
- Sound exploitation plan, broad impact



## Conditions and Requirements II

### **Module A:**

- research & industry
- combined funding rate 80 % max.
- deadlines: march / august

### **Module B:**

- infrastructures  $\neq$  concrete
- usually research entities
- individual projects possible
- deadline: august



## Conditions and Requirements II

### Module A:

- research
- combination
- max.
- deadline

### Module B:

two-stage process  
collaborative projects, 2 – 3 years  
international partners possible ( ! own money ! )  
invest / equipment possible ( ! project specific ! )

concrete  
entities  
possible



## Evaluation criteria (non exhaustive)

❖ relation to the call

❖ innovation of the concept

❖ quality of consortium (industry, SMEs)

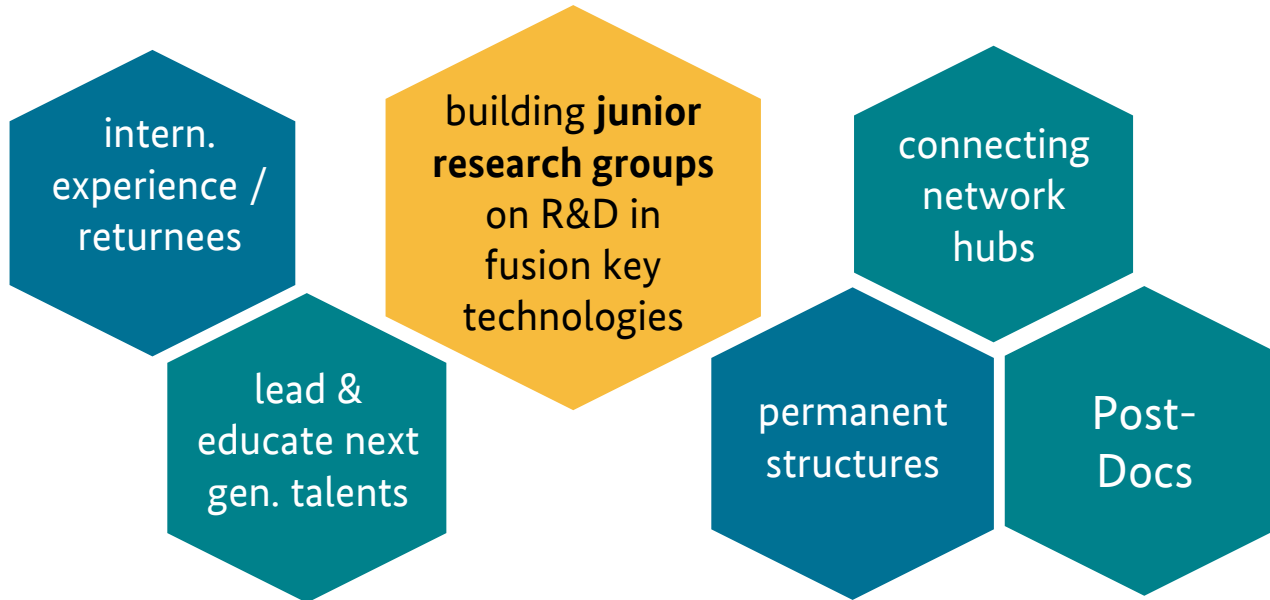
❖ appropriateness of the resources

❖ technical, social and econ. significance

❖ dissemination and exploitation plan

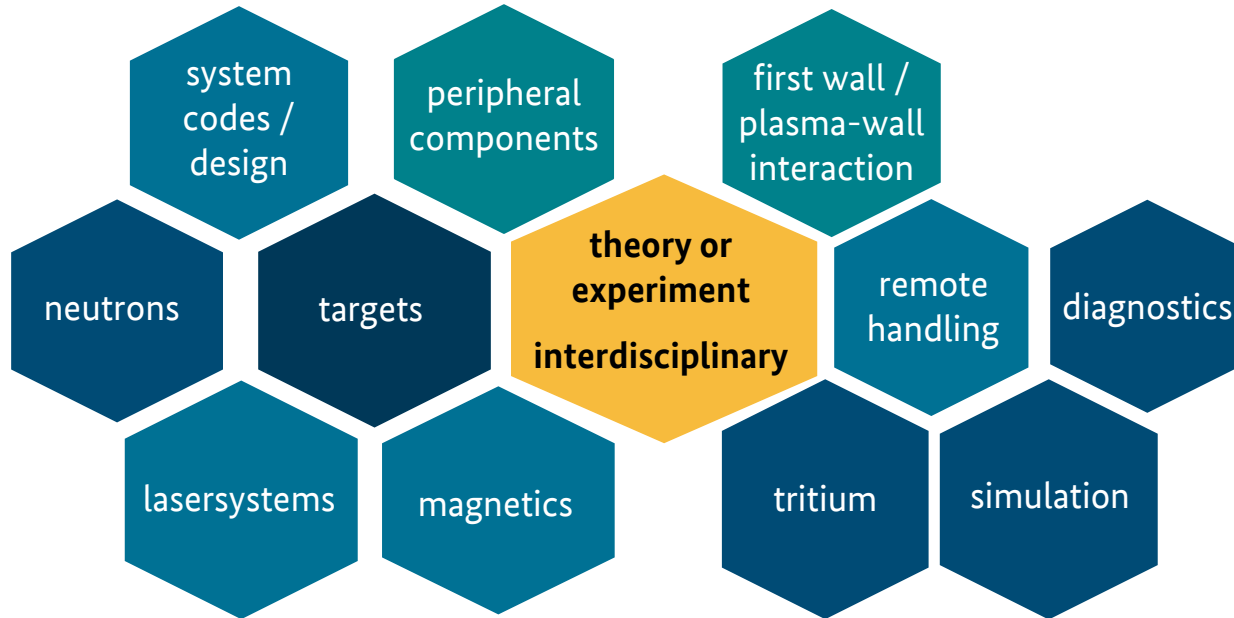


## Planned Call 2: Junior Research Groups





# Junior Research Groups - Scope



➤ exemplary listing



# Conditions and Requirements I

- Strong integration in host institution (structure & profile)
- Clearly defined tasks and quantified objectives
- Significant progress compared to the state of the art (level of innovation)
- High scientific and technical risk of the work
- Long-term perspective and continuation concept



## Conditions and Requirements II

- applicant: research institution or university
- sound support and commitment
- funding **linked to the candidate** in person
- deadline: April 2024 & 2025





## Conditions and Requirements II

- applica two-stage process
- sound individual projects
- fundin 5 years / 5 FTE max
- deadli international cooperation possible (! own money !)  
invest / equipment possible (! project specific !)



## Evaluation criteria (non exhaustive)

❖ Relation to the call

❖ Innovation of the concept

❖ Scientific excellence of the candidate

❖ Synergies with portfolio of the institution

❖ Long-term concept for continuation

❖ appropriateness of the resources



Bundesministerium  
für Bildung  
und Forschung

# How to apply



## First stage

### Required:

- Technical description of the project (→ template)
- Financial plan / budget table (→ template)

### Optional:

- **meaningful** LOIs from associated partners

### Not needed:

- offers for equipment
- CVs of personnel (**except** Junior Research Groups)
- consortium agreement
- creditworthiness documents



# First stage

## Required:

- Technical description of the project (→ template)
- Financial plan / budget (→ tem

## Optional:

- **meaningful** LOIs from associated partners

## Not needed:

- offers for equipment
- CVs of personell (**except** Junior Research Groups)
- consortium

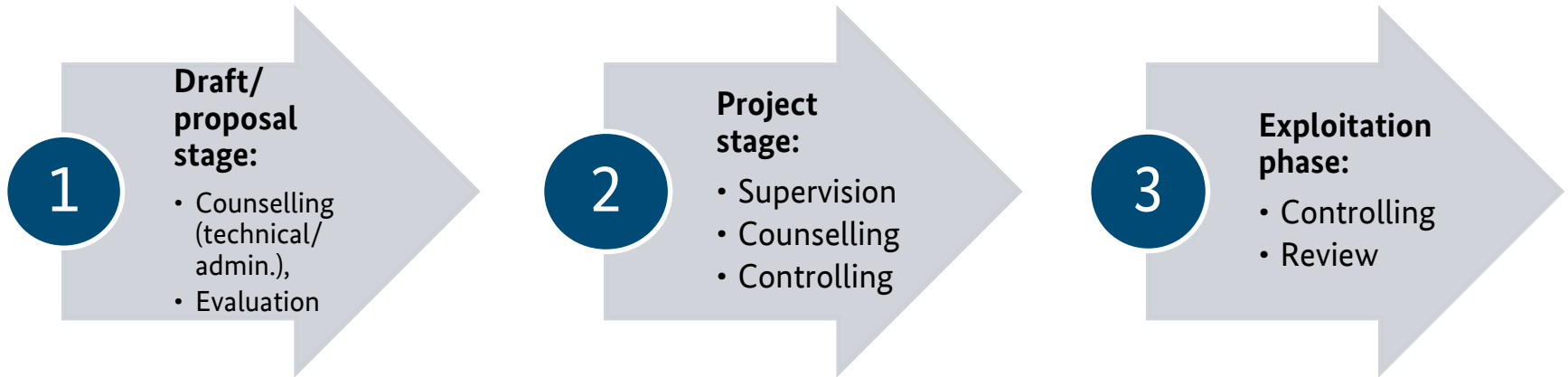
First stage: one simplified set for whole consortium

Second stage: one set of forms per partner!

ment  
worthiness  
ments



## Stages of project support:





## Contact points at project management agency



**Dr. Christian Flüchter**

Phone: 0211 6214 261

Mail: [fluechter@vdi.de](mailto:fluechter@vdi.de)



**Dr. Christian Busch**

Phone: 0211 6214 591

Mail: [busch@vdi.de](mailto:busch@vdi.de)