

# Welcome

## Fusion Futures - Industry Capability Briefing

**Chris Neeson – Head of Programme**  
**Colette Broadwith – Commercial Lead**



UK Atomic  
Energy  
Authority

# Fusion Futures Industry Capability Team



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Commercial Manager



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Industry Engagement Lead



# Priming Industry Capability & Capacity

**Create a strong UK industrial sector that leads the world in operationalising and commercialising fusion energy**

- Secure access to, or provide directly, large scale **design and build** opportunities to UK industry.
- These are opportunities to develop industry **capability and capacity** which are key to the development of future fusion powerplants.

# Industry Capability Programme

**Up to £200 million investment, to ensure that industry can design and develop technologies for future fusion powerplants**

## Our preference is to use the funding to support the ITER Programme

- This could include both resource and hardware, financed by UKAEA and provided as an in-kind contribution
- We continue to actively pursue new ways to collaborate with the ITER Programme
- If this is not possible, we will seek to deliver the same impacts through different mechanisms, focusing activities in areas that will build the capabilities required to deliver a fusion power plant

# Programme Shape

	£M	FY24/25	FY25/26	FY26/27	FY27/28
<b>Fusion Futures Industry Capability</b>		<b>11.75</b>	<b>30.9</b>	<b>48.8</b>	<b>56</b>

*Subject to funding approval*

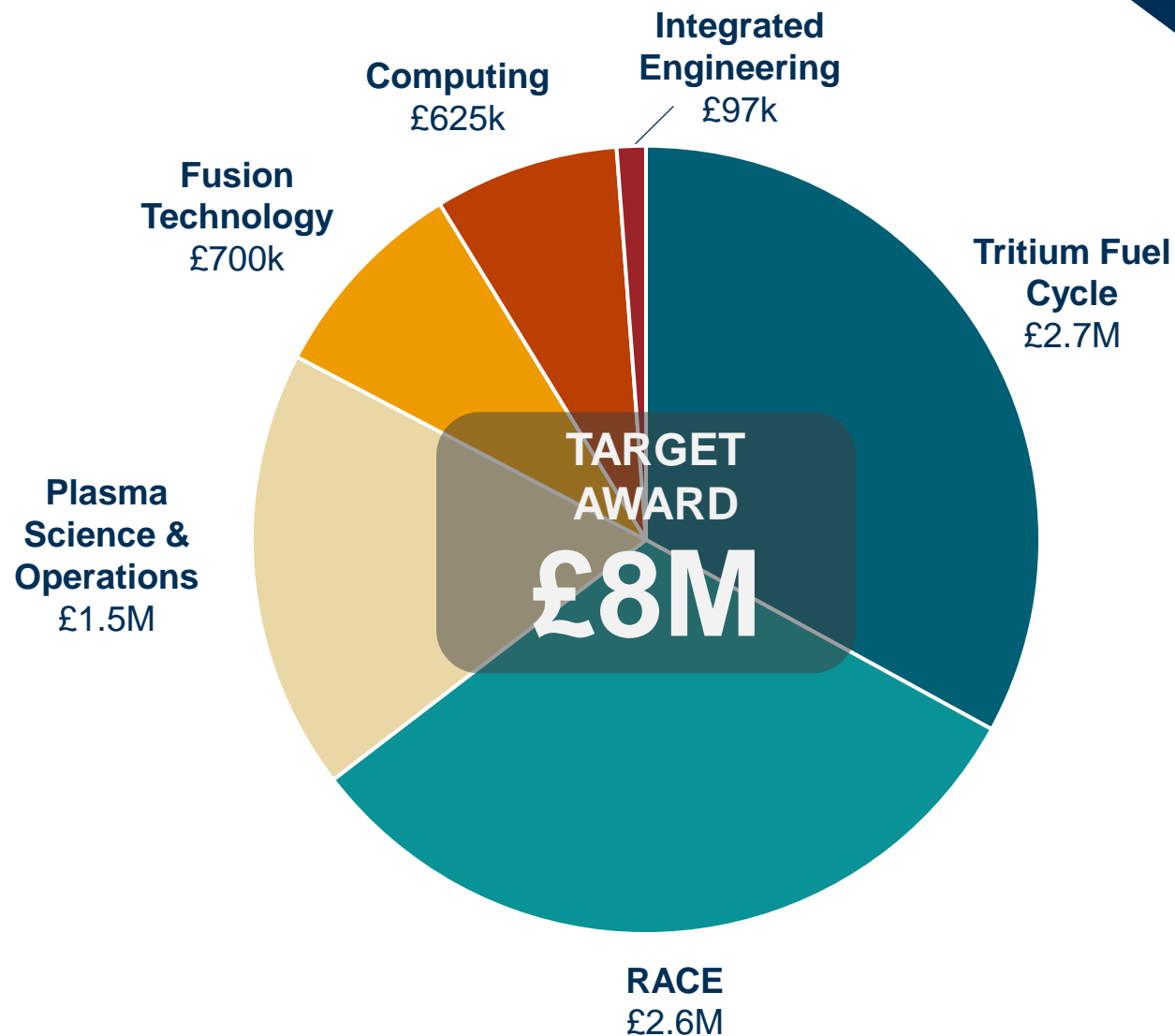
Year 1 is a  
**mobilisation**  
year

Longer term funding  
subject to a **Full  
Business Case & SR  
Review**

Circa **£8M** in  
contracts in  
**FY24/25**

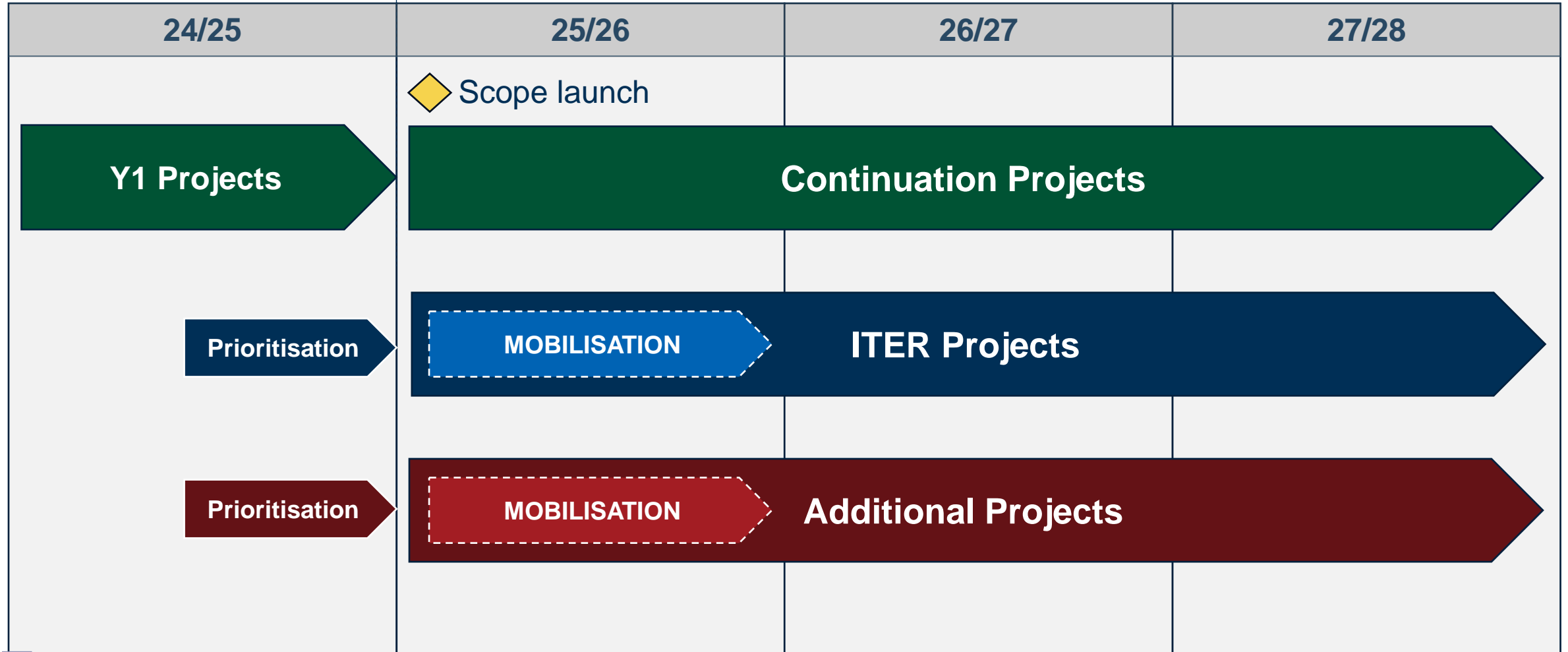
# Year 1 Portfolio – Technology Themes

Technology Theme	FY 24/25 Planned Spend
Remote Handling	£2,610,000
Tritium Fuel Cycle Technology	£2,435,500
Plasma & Microwaves	£1,433,500
Fusion Diagnostics	£835,000
Magneto Hydro Dynamics	£575,000
Active Waste Management	£287,625
Materials Testing & Development	£81,000



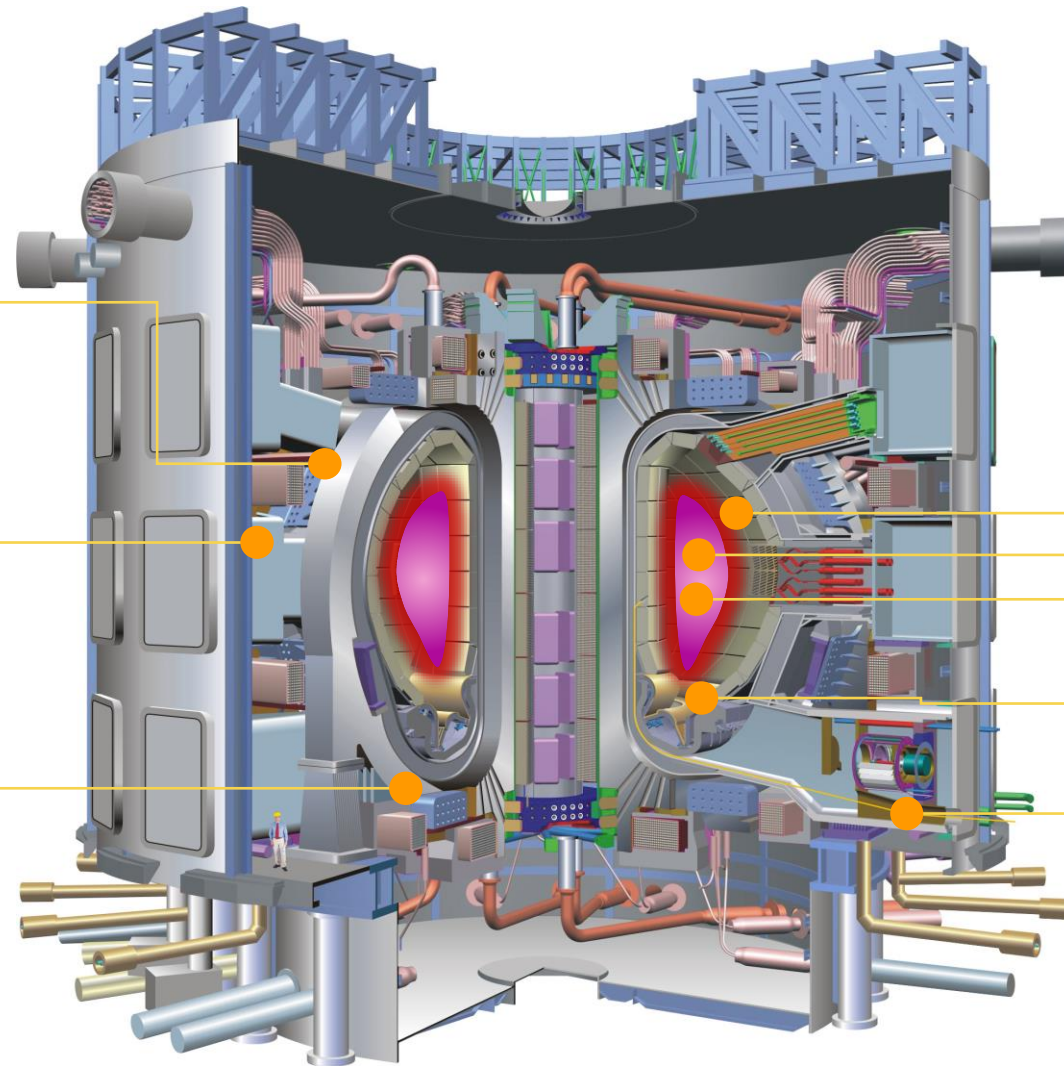
# Future Programme Scope

The programme is taking shape as a blend of project continuation from Year 1 and ITER specifics projects (depending on output from final negotiations)





# Technology Themes



**FUEL  
CYCLE**

**HEATING &  
CURRENT DRIVE**

**INSTRUMENTATION  
& CONTROL**

**ACTIVE WASTE**

**HOT CELL**

**TEST BLANKET  
MODULE**

**PHYSICS AND  
OPERATIONS**

**PLASMA &  
DIAGNOSTICS**

**FIRST WALL /  
DIVERTOR**

**REMOTE  
HANDLING**

**BROADER  
APPROACH**



# Project Types

## Technology Themes

**Engineering  
Design & Support**

**Rig Development  
& Build**

**Prototype  
Development**

**Manufacturing  
and Fabrication**

**Resource  
Deployment**

# Proposed Commercial Strategy

- Lead by UKAEA Commercial team and compliant with public procurement rules
- Intelligent packaging of opportunities
- A key programme requirement will be the ability to supply industry staff on secondment at ITER

## Existing Frameworks

Engineering Design Services (EDS)

Embedded Engineering Resource  
(EER)

Plant Maintenance & Operational  
Support Services (PMOSS)

## New Frameworks

EDS Successor

EER Successor

**UKAEA Manufacturing & Fabrication**

**New Design and Build**

**CCS Workforce Solutions Resource**

**Tactical Procurement Tenders**

# Additional Framework Opportunities









	PROPOSED VALUE	PROPOSED ITT	TARGET AWARD
<b>Manufacturing &amp; Fabrication</b>	<b>£9.5M</b>	Q1 2025	Jun 2025
<b>Design and Build</b>	<b>£9.5M</b>	Q1 2025	Apr 2025
<b>Engineering Services Enhancement</b>	<b>&gt;£10M</b>	TBC	TBC
<b>Embedded Engineering Resource Successor</b>	<b>£9.5M</b>	Q3 2024	Apr 2025




# FF-IC Design & Build Framework

## Design & Build FW1

Design, build, integration and interface requirements

	1 year +		FF-IC Programme specific
	£9.5m		PCR 2015
	Webinar Jan 2025		ITT Feb 2025
	Award Apr 2025		Multiple Suppliers

 Mechanical/Electrical/Process/Civil/Design Engineering  
Installation & commissioning, rigs development  
Simulation & modelling

# Benefits Realisation

## CORE PROGRAMME BENEFITS

Growth in **UK** fusion supply chain powerplant science, design and build capabilities

Growth in **UK** fusion sector company capacity that creates a more robust supply chain



**Circa 30% Social Value Assessment  
Reserved Procurements  
Contract KPI Metrics**

## PROCUREMENT ASSESSMENT CRITERIA

# Social Value Assessment Examples

Create a diverse supply chain to deliver the contract including new businesses and entrepreneurs, start-ups, SMEs, VCSEs and mutuals

Demonstrate collaboration throughout the supply chain, and a fair and responsible approach to working with supply chain partners in delivery of the contract.



Create opportunities for entrepreneurship and help new organisations to grow, supporting economic growth and business creation.

Create employment and training opportunities particularly for people in industries with known skills shortages or in high growth sectors.



# Examples KPI Metrics



**KPI**



**MEASURE**

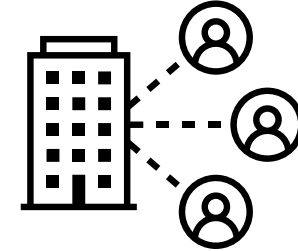


**REPORT**

Support learning relevant to the fusion through on-the-job experience for fusion skilled UK workforce	<b>Number of person hours engaged in the FF specific project (includes all subcontractors)</b>	Annual and/or end of contract feedback form
Foster a fusion ecosystem to attract and retain domestic and international fusion workforce	<b>Sum of estimated number of non-administrative individuals who worked on each funded project</b>	Annual and/or end of contract feedback form
Create a diverse supply chain to deliver the contract including SMEs and new businesses	<b>Number of subcontracts awarded to SMEs and new businesses</b>	Monthly, annually and/or end of contract
Readiness of UK Supply Chain across key fusion powerplant technologies	<b>Supply Chain survey</b>	Annual and/or end of contract survey

# Supplier and SME Information

- Register for all portals:
  - [Find high value contracts in the public sector - GOV.UK](#)
  - [Contracts Finder - GOV.UK](#)
  - [UKAEA Procurement Pipeline - GOV.UK](#)
- [How to bid for government contracts as an SME effectively - GOV.UK](#)
- Consider forming partnerships, consortia with other SMEs and larger companies
- Participate in supplier events, PIN webinars and other engagements
- Use support services & resources to help: [Doing business with government: guide for SMEs - GOV.UK](#)

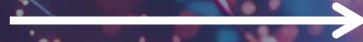


## During Tender Process:

- Read tender documentation carefully and understand requirements
- Feedback through formal tendering process (EU Supply Platform)

# Wrap Up

**Visit our procurement portal**  
Updated Quarterly



**Come and visit us at our exhibition booth**

**Contact our team:**  
Enquiries@FusionFutures.ukaea.uk

**Next communication – Feb / Mar 2025**





# Q&A

## Feedback form – have your say!

