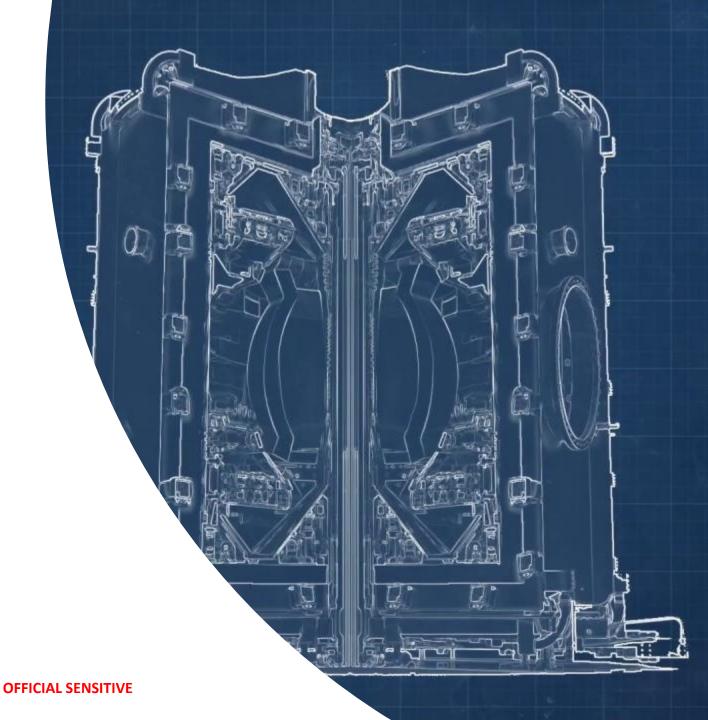
Delivering fusion

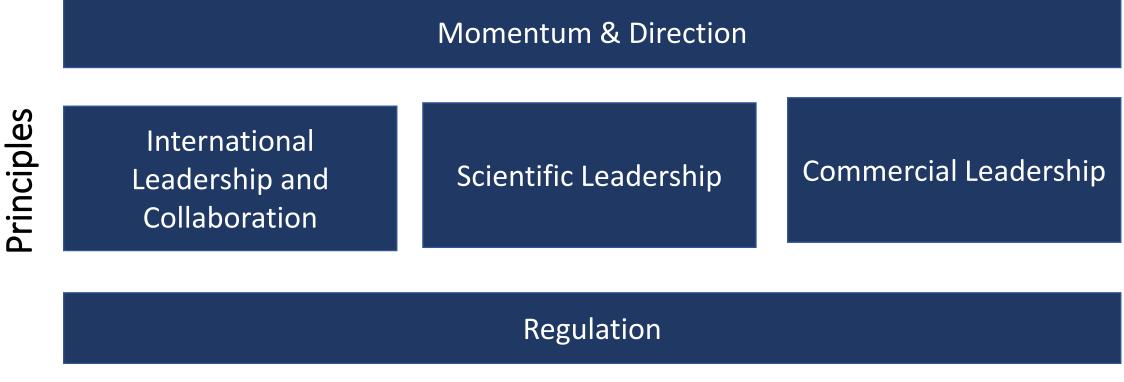
creating space to innovate



July 2022

Overarching UK Fusion Energy Strategy

Capitalise on the UK's capability in fusion R&D to develop, commercialise and export fusion power generation technology for the economic and societal benefit of the UK and the world.



Scientific leadership – role of government

Objectives:

- Correct market failure(s) capability building
- Provide convening power building networks
- Enable collaboration internationally and nationally



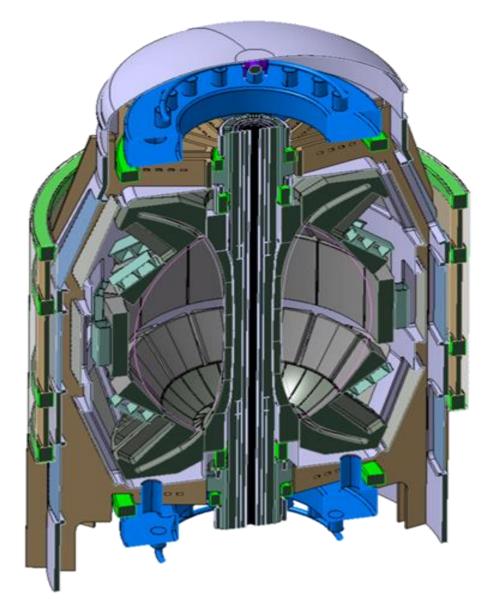
Commercial leadership – create the space

Objectives:

- Stimulate R&D investment risk management
- Convene the sector Anchor project
- Agglomeration effects create the community
- Provide the environment

Spherical Tokamak for Energy Production (STEP)

- Predictable net electricity production
- Lower capital cost than other fusion reactor designs
- As well as overcoming technical challenges, the STEP programme will only succeed with relevant enabling actions from HMG
 - Site selection
 - Regulatory environment
 - Delivery vehicle



Stimulation not competition

- Most SMEs are tightly focussed anchors allow whole plant design
- Anchor projects allow SMEs to "plug-in"
- Develops a supply chain
- Provides investor confidence

Regulation

Why

- Developers need clarity on licensing and permitting
- Investors need certainty
- Public needs assurances around new technology
- Chance for pro-innovation approach to fusion regulation

What are we doing?

- Launched a Green Paper on 1st October.
- Legislation introduced in Energy Bill in July 2022

Final Thoughts

Audacity

Credibility

Flexibility