

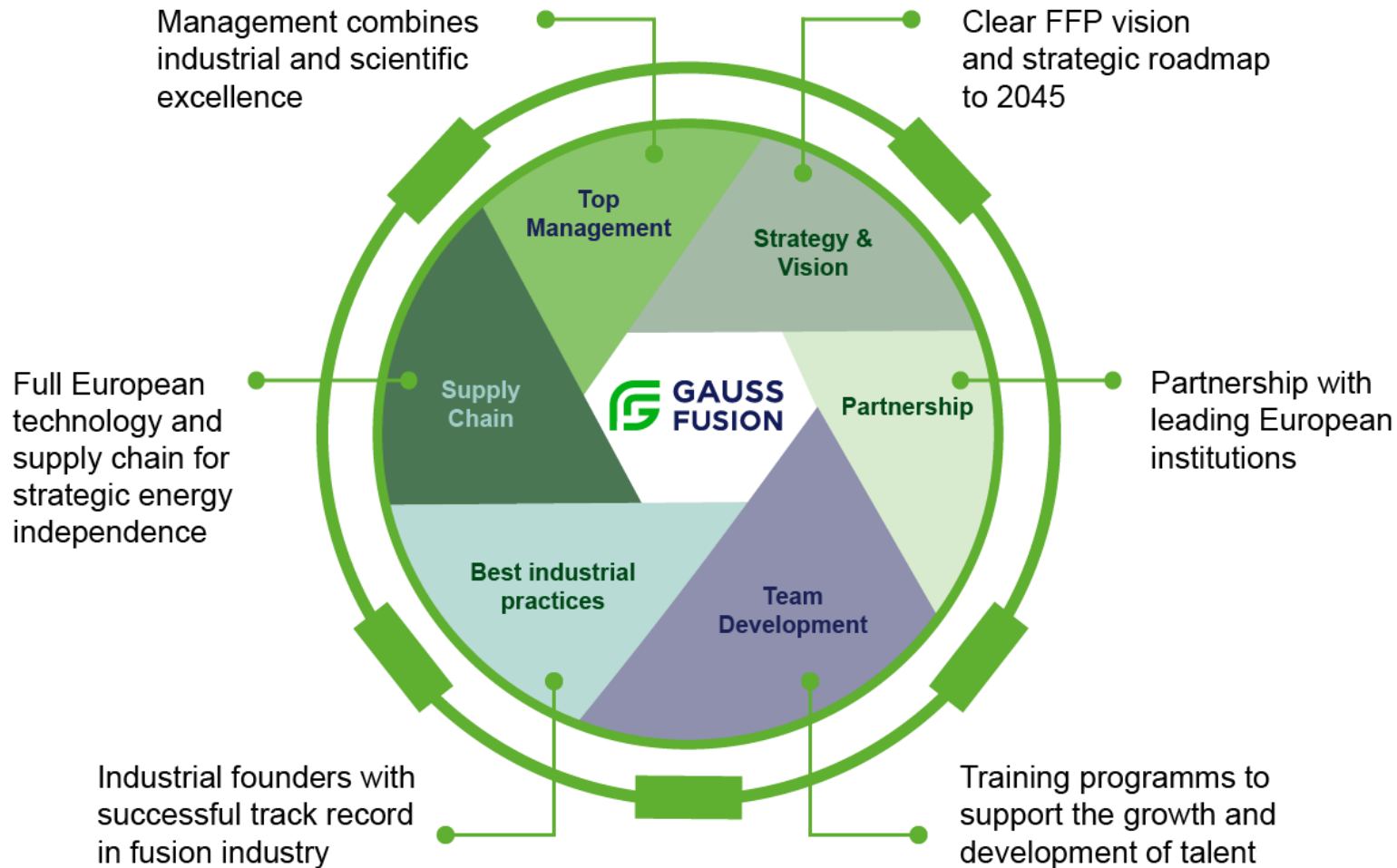
Establishing Commercial Fusion In Europe

Complementing solar and wind for a full
sustainable energy mix

Vision: Combining the best from private and public sector to deliver fusion

FUSION WITH INTEGRITY

Founders

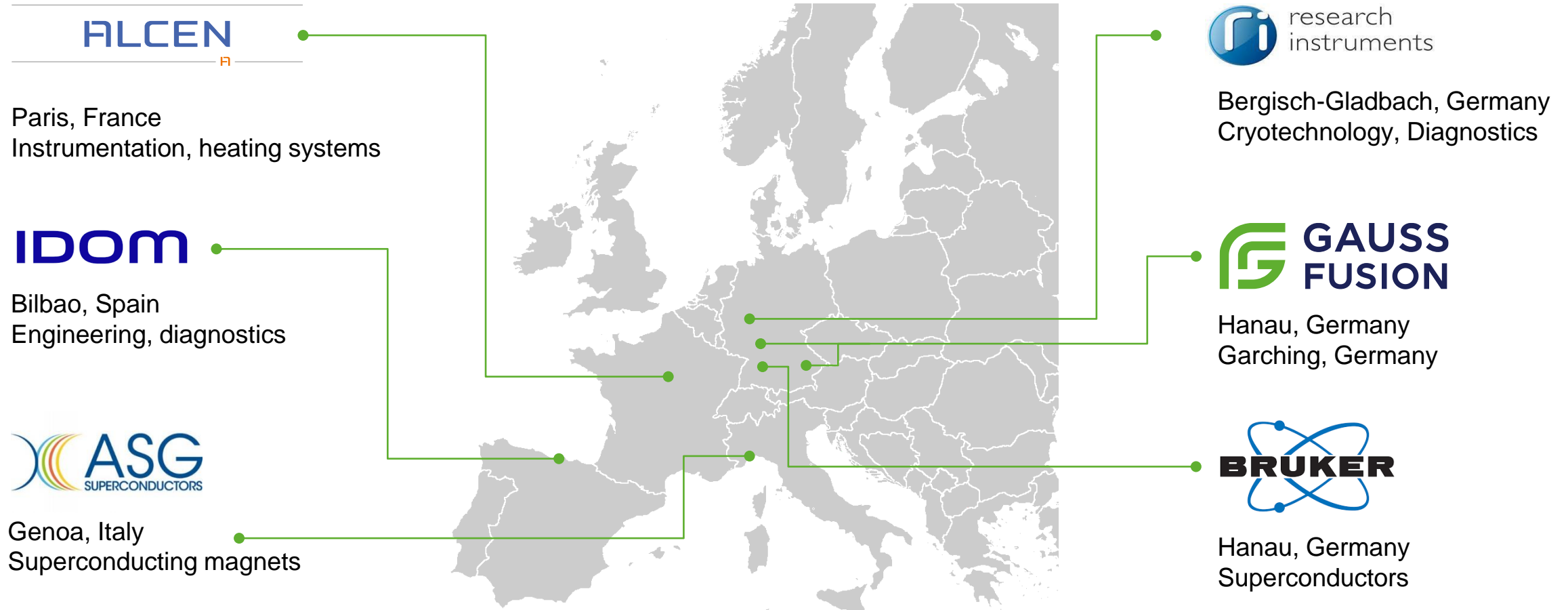


Partnerships

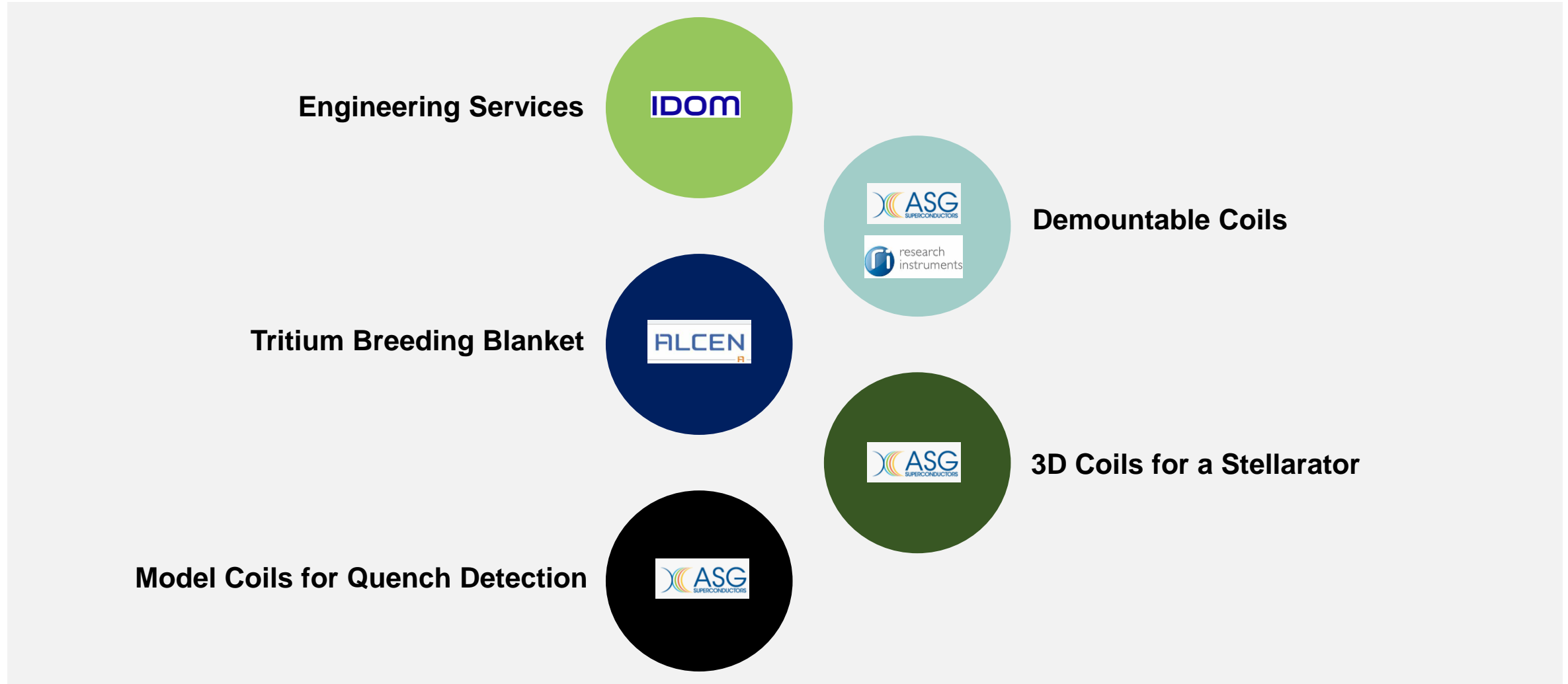


... further partnerships in discussion

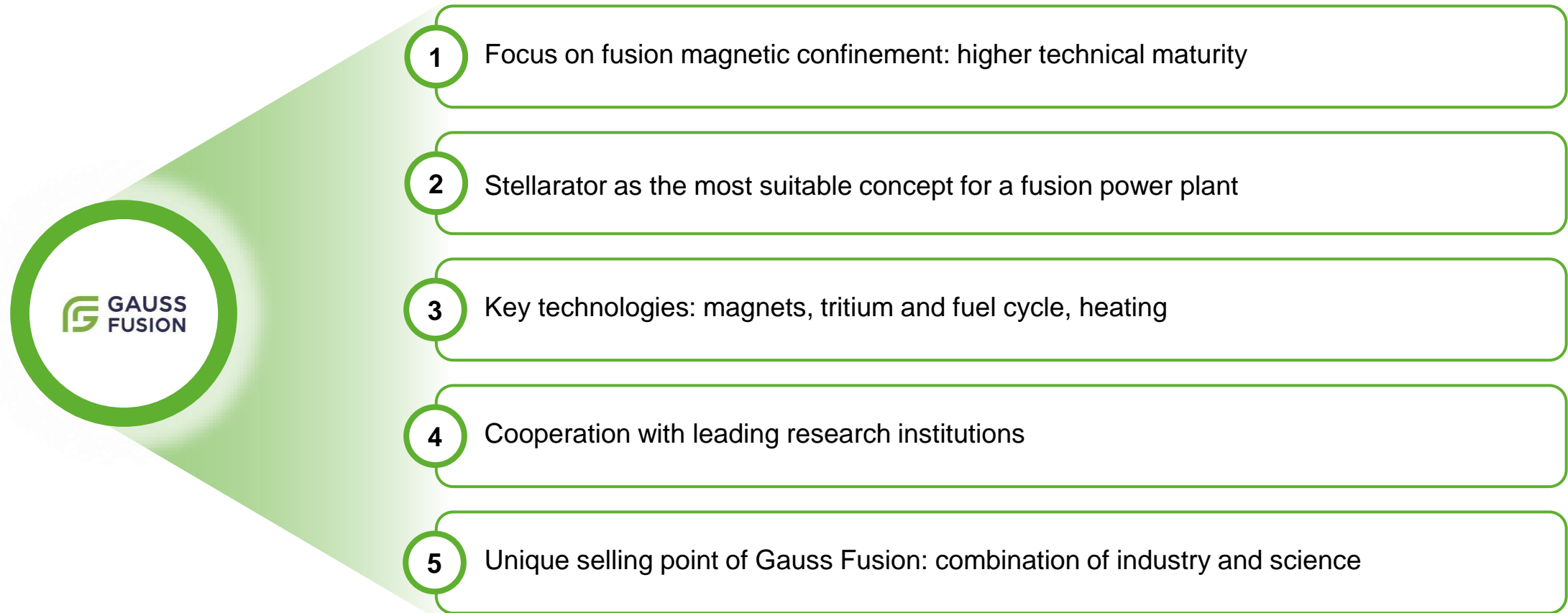
Already key industrial players in the fusion ecosystem today



Projects with current shareholders

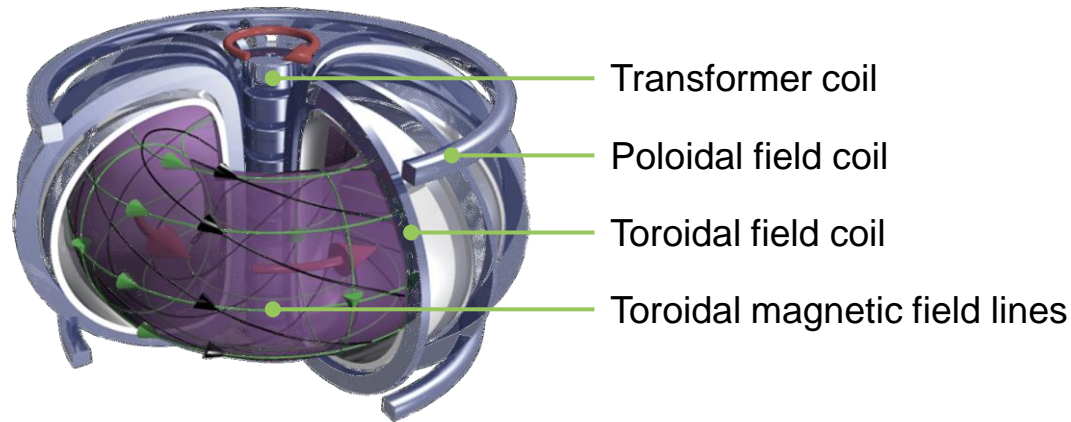


Five key strategic elements for Gauss Fusion

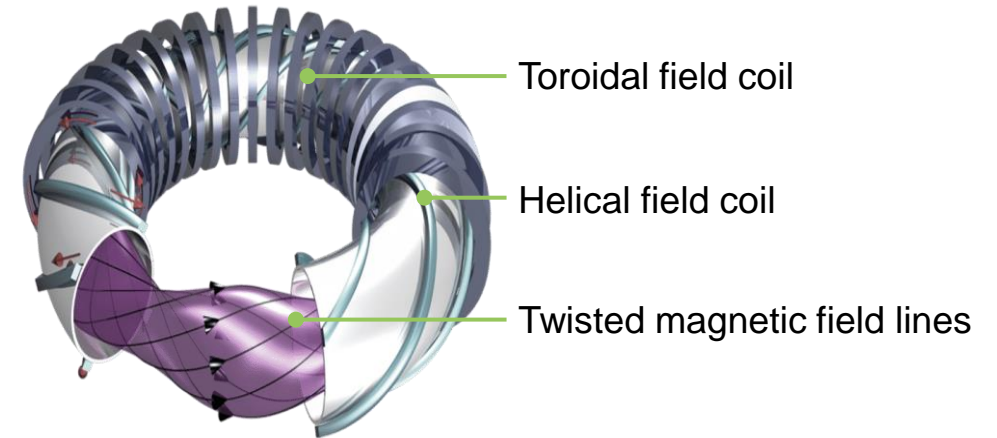


Gauss Fusion study: Stellarators are best-suited for power plants

Tokamak



Stellarator



Overview

- TRL
- Type of coils
- Operation
- Plasma

• **External Coils** and current induced in plasma produce magnetic fields

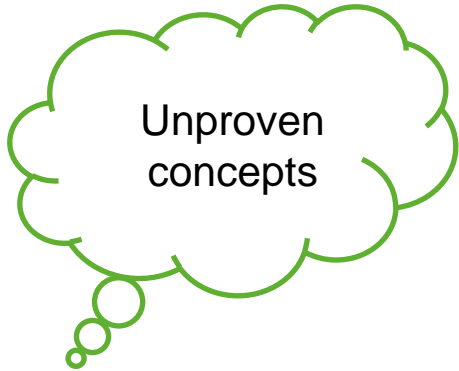
- + High
- + Simple coils
- Limited discharge time
- Instabilities due to plasma current

• **Complex twisted coils produce fields**

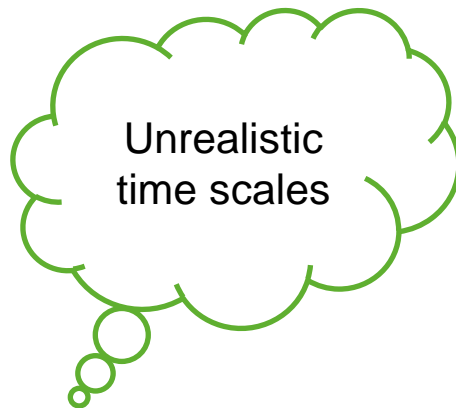
- ~ Medium
- ~ Complex coils
- + **Continuous operation**
- + **Stable plasma**

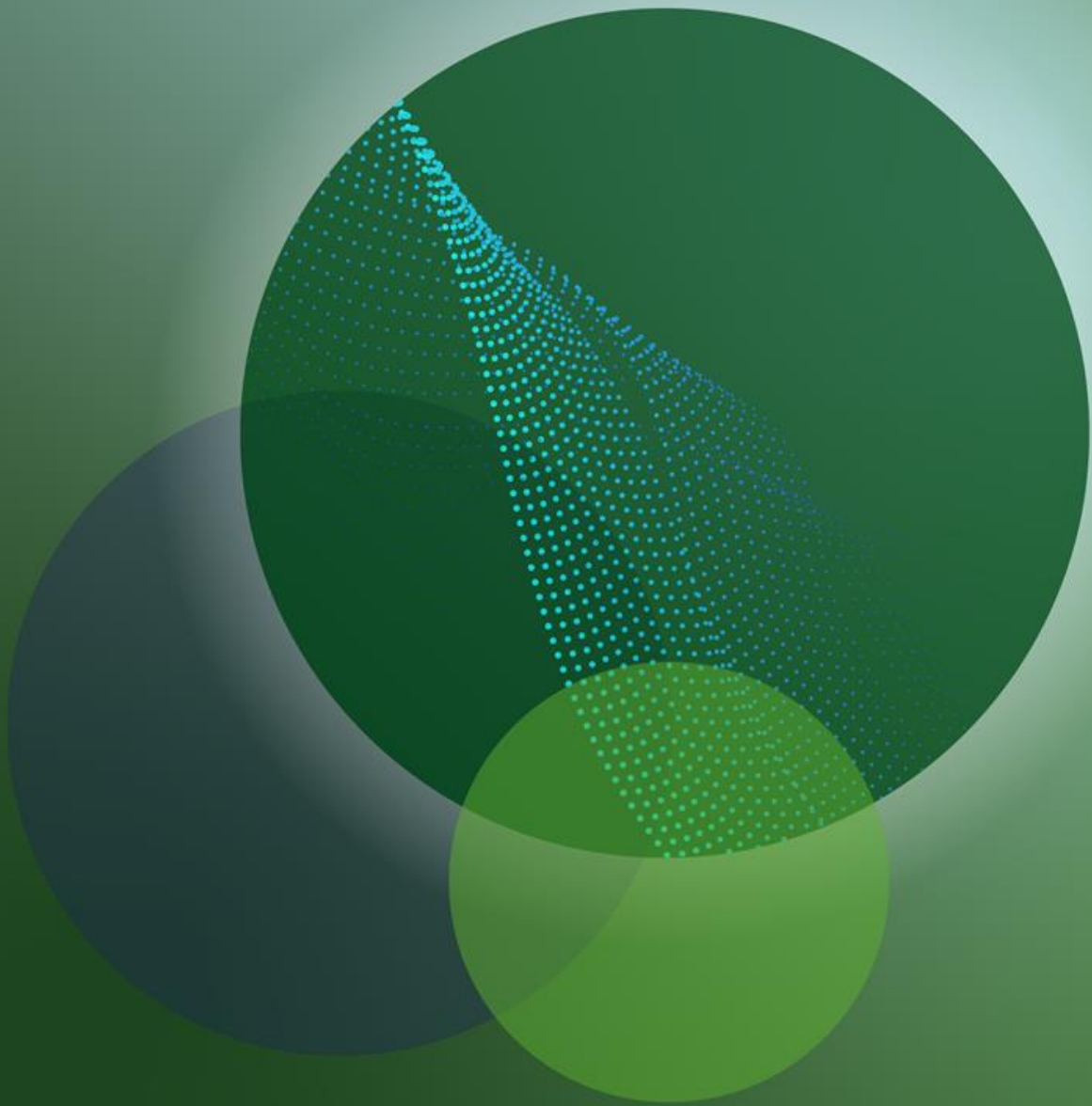
+ Favorable
 ~ Mixed
 - Unfavorable

Misconceptions about fusion

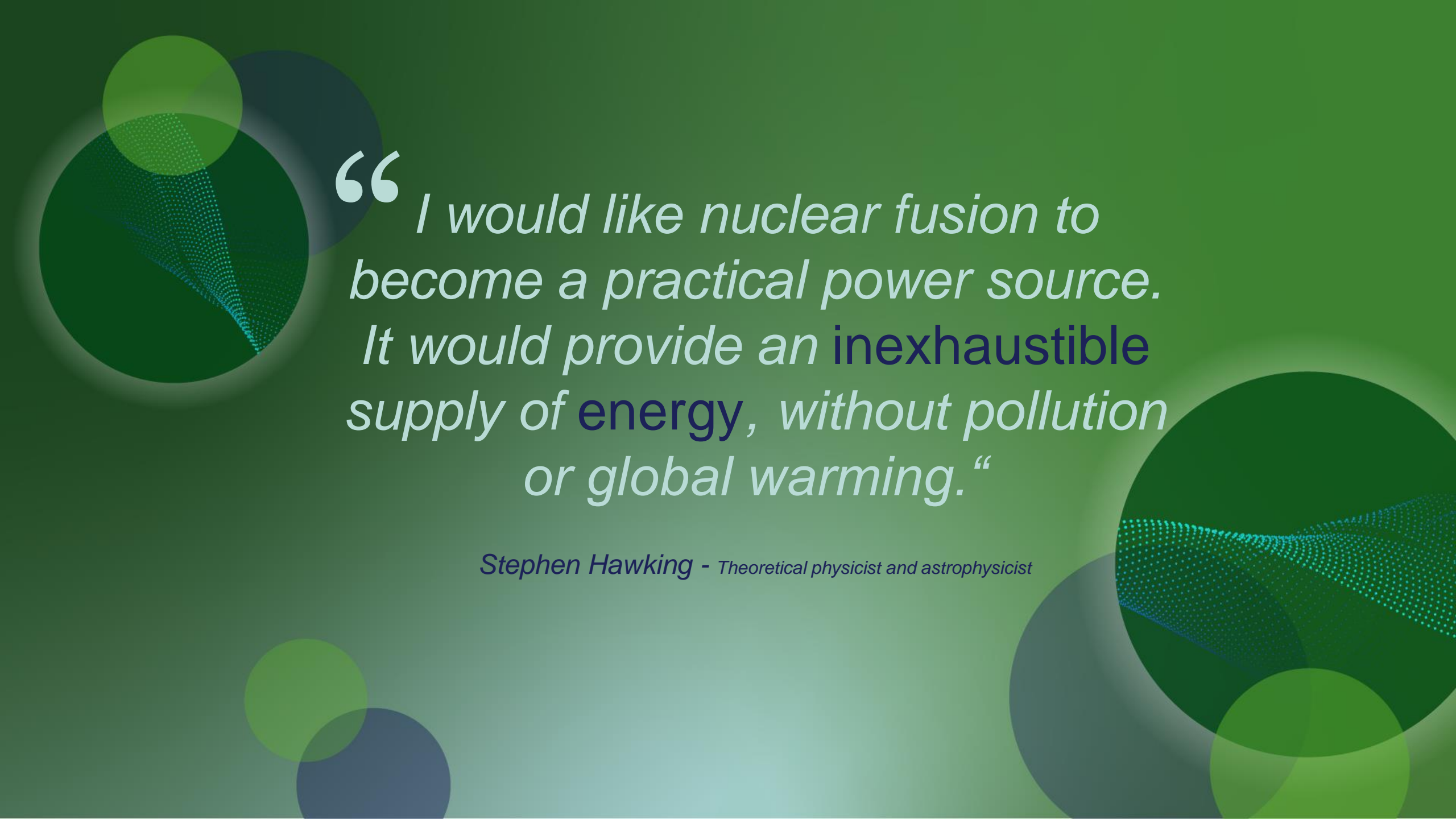


Fusion is always 30 years away, and always will be





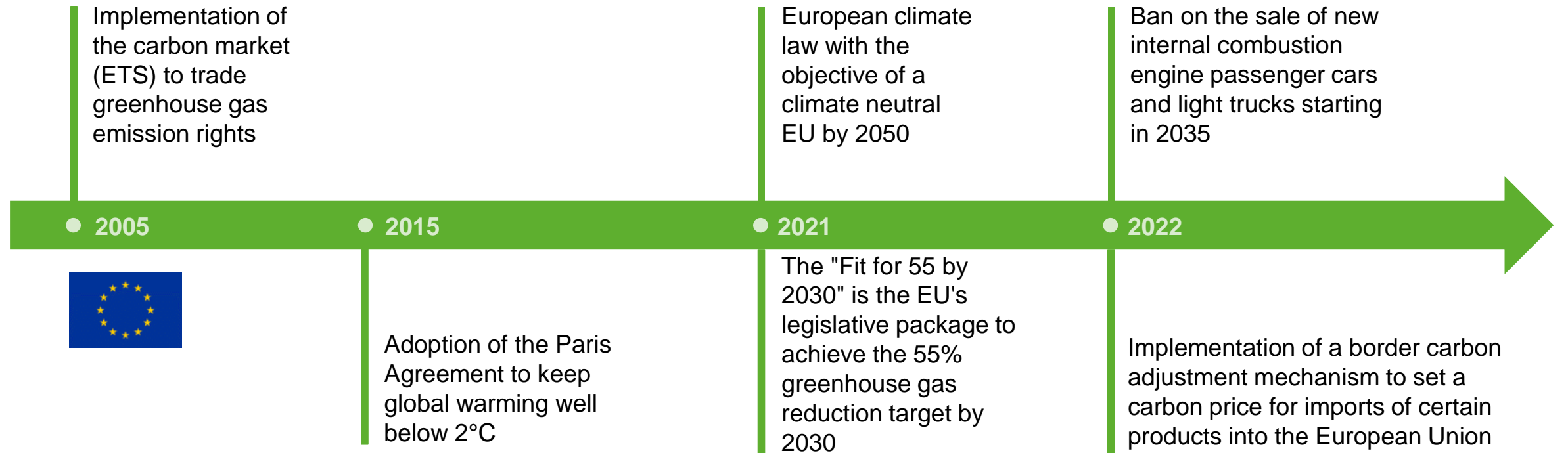
Fusion energy:
Answer to the big energy
question

The background features several overlapping circles in shades of green and blue. A prominent feature is a grid of small dots that forms a curved, wave-like shape, appearing to be a stylized representation of a particle or energy field. The overall aesthetic is clean and modern, with a focus on geometric shapes and a cool color palette.

“ *I would like nuclear fusion to become a practical power source. It would provide an **inexhaustible supply of energy**, without pollution or global warming.* ”

Stephen Hawking - Theoretical physicist and astrophysicist

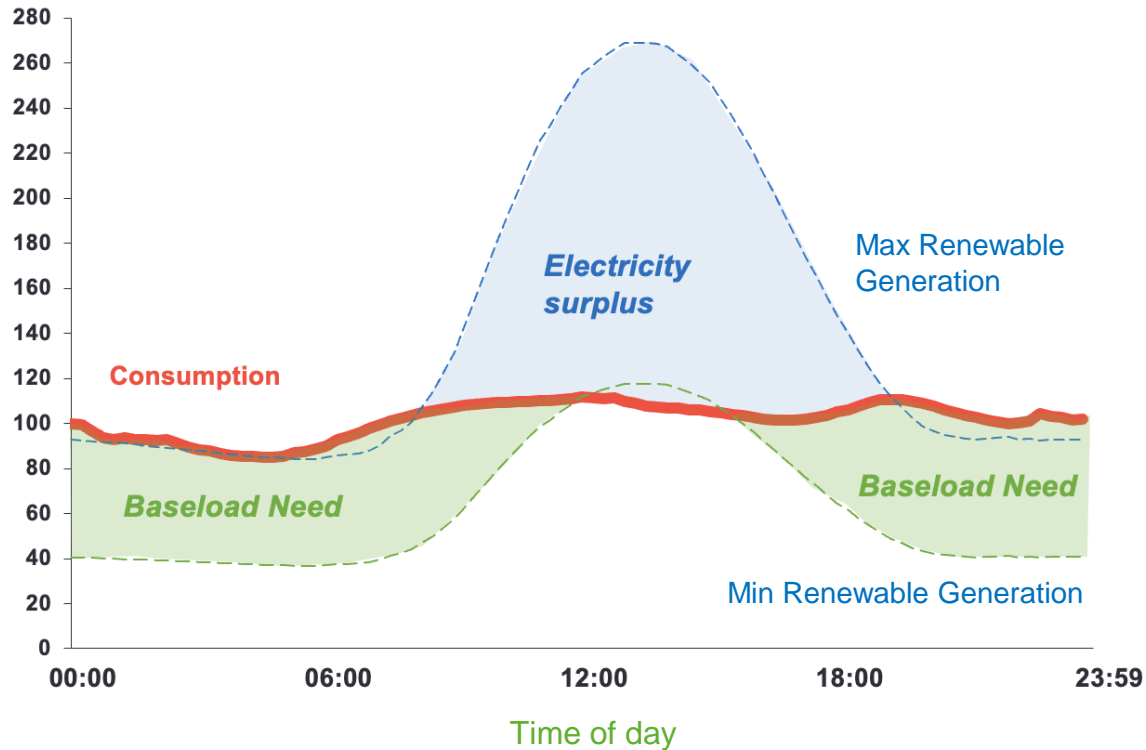
The EU is targeting climate neutrality






Current renewables do not guarantee sufficient and stable energy generation

Consumption vs generation, full wind/solar scenario

% of average demand¹
(06/2022–04/2023)



Solar and wind are clean but imperfect solutions

<p>Intermittence</p> 	<ul style="list-style-type: none"> • Need to balance production fluctuations • Requires storage and/or baseload power
<p>Price volatility</p> 	<ul style="list-style-type: none"> • Dependence on gas/coal costs • Volatility for electricity price
<p>Sovereignty</p> 	<ul style="list-style-type: none"> • Requires interconnection • Increases dependency on other countries

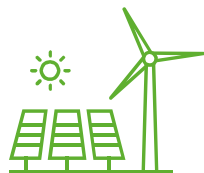
Complementing solar and wind power to provide baseload electricity



Electricity consumption in Europe will increase by +25% to +70% in 2050¹



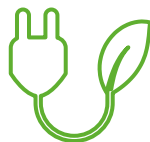
Electricity consumption is increasing due to the penetration of electric vehicles, electrification of industrial process and production of decarbonated hydrogen. Regulation is pushing for cleaner electricity.



Solar and wind are clean, but imperfect solutions



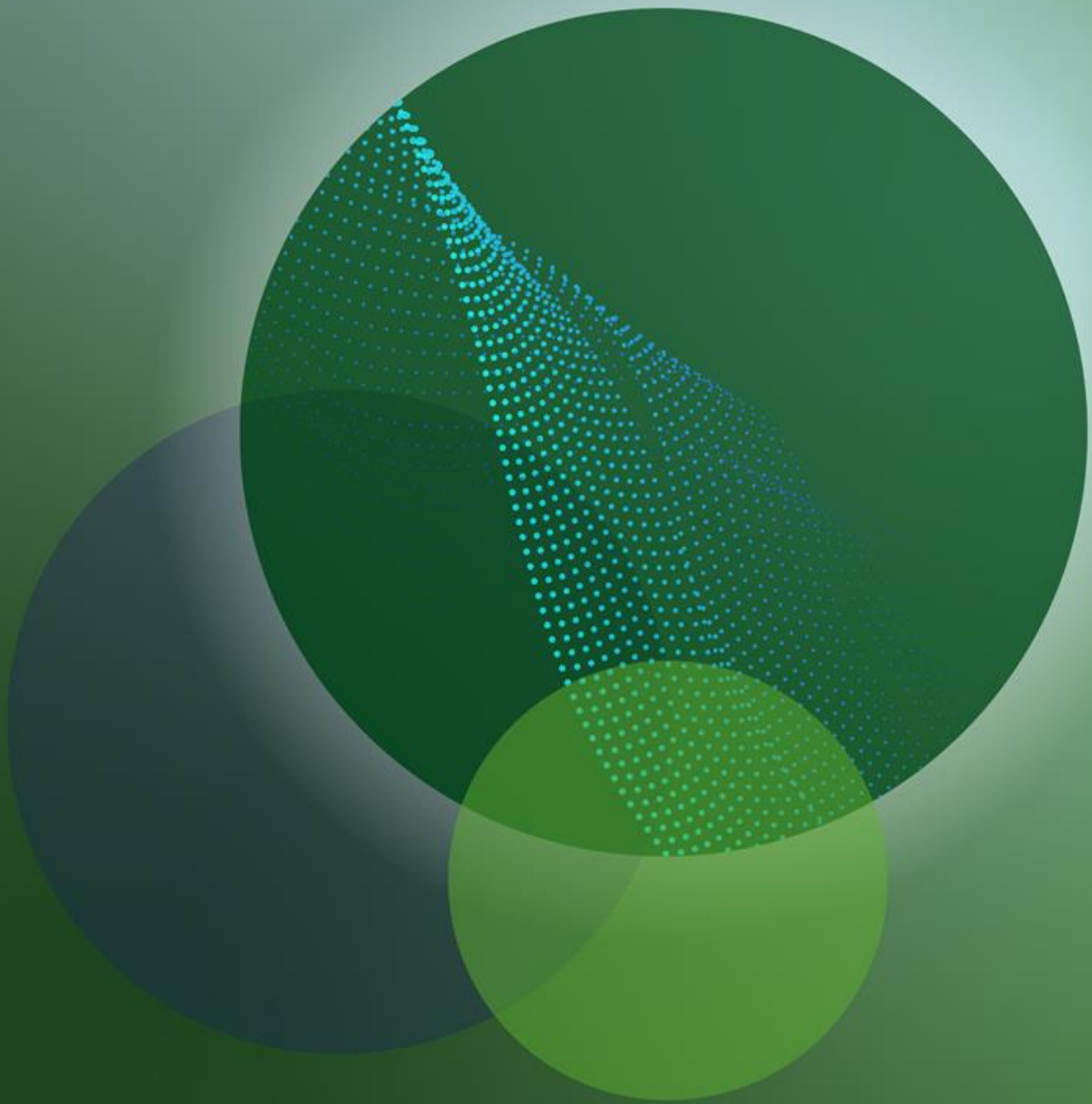
Solar and wind present several drawbacks: both are intermittent and uncontrollable and require massive investment in grid and storage flexibility solutions.



Fusion is the most promising clean solution for baseload electricity



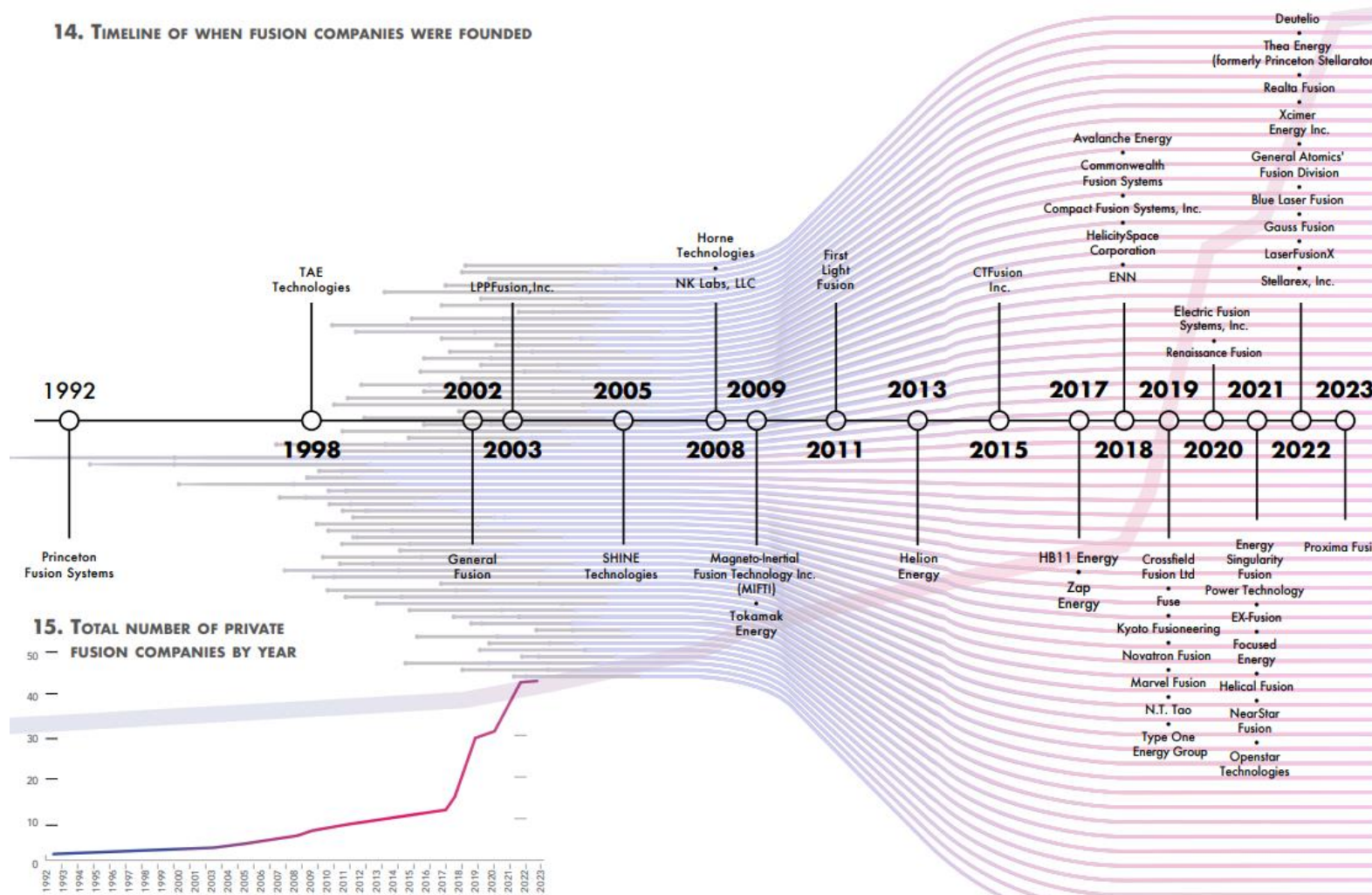
Fusion energy is a clean, safe and reliable source of energy that will complement renewables. It will provide the ultimate in clean baseload electricity, without releasing greenhouse gases or creating long-life waste.



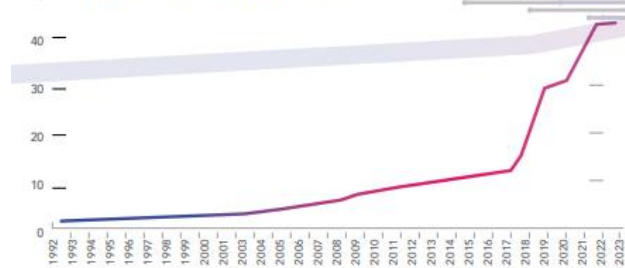
Overview of the current fusion landscape

Fusion investments remain strong

14. TIMELINE OF WHEN FUSION COMPANIES WERE FOUNDED



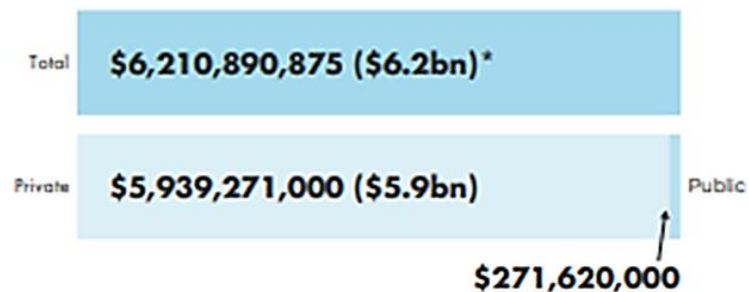
15. TOTAL NUMBER OF PRIVATE FUSION COMPANIES BY YEAR



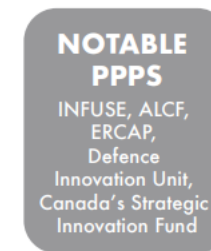
- Fusion investments kept strong after significant capital raises in 2021 and 2022.
- 2023 funding went in smaller amounts to early-stage companies.
- 13 new companies were added, totaling 43 fusion players. Three of them are no longer in business.
- Two increases of over \$100 million – TAE Technologies in California and ENN in China.
- Traditional Venture Capital investors have grown comfortable investing in fusion but limited to the “Seed” or “Series A”.
- To support continued growth and outlast competition, need to bridge a possible “valley of death” by bringing new investors with different pools of capital or following-on financing portfolio companies.

Clear trend towards government interest in fusion, still in early stages

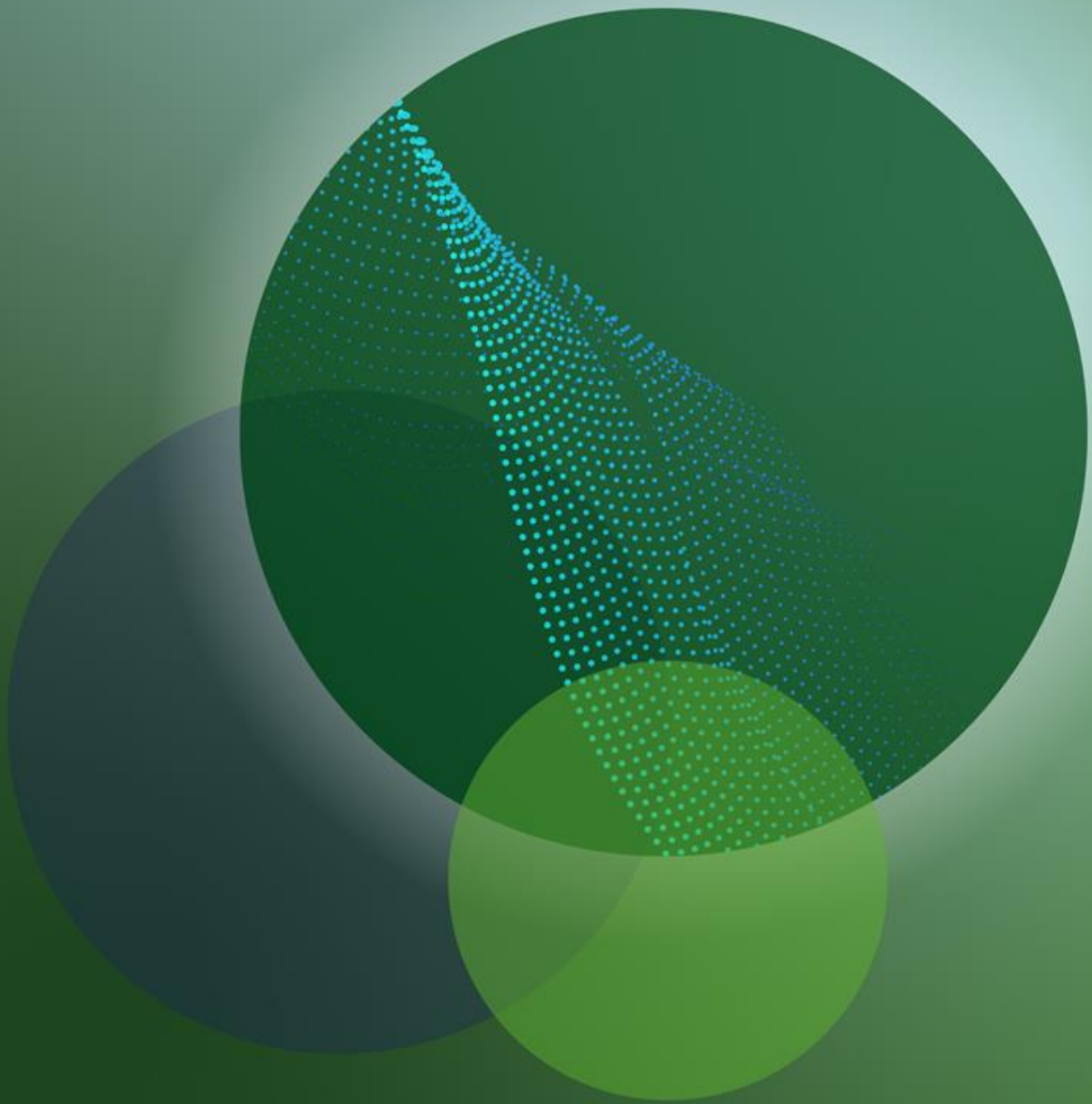
Private Funding on Fusion Companies



Public Private Partnerships

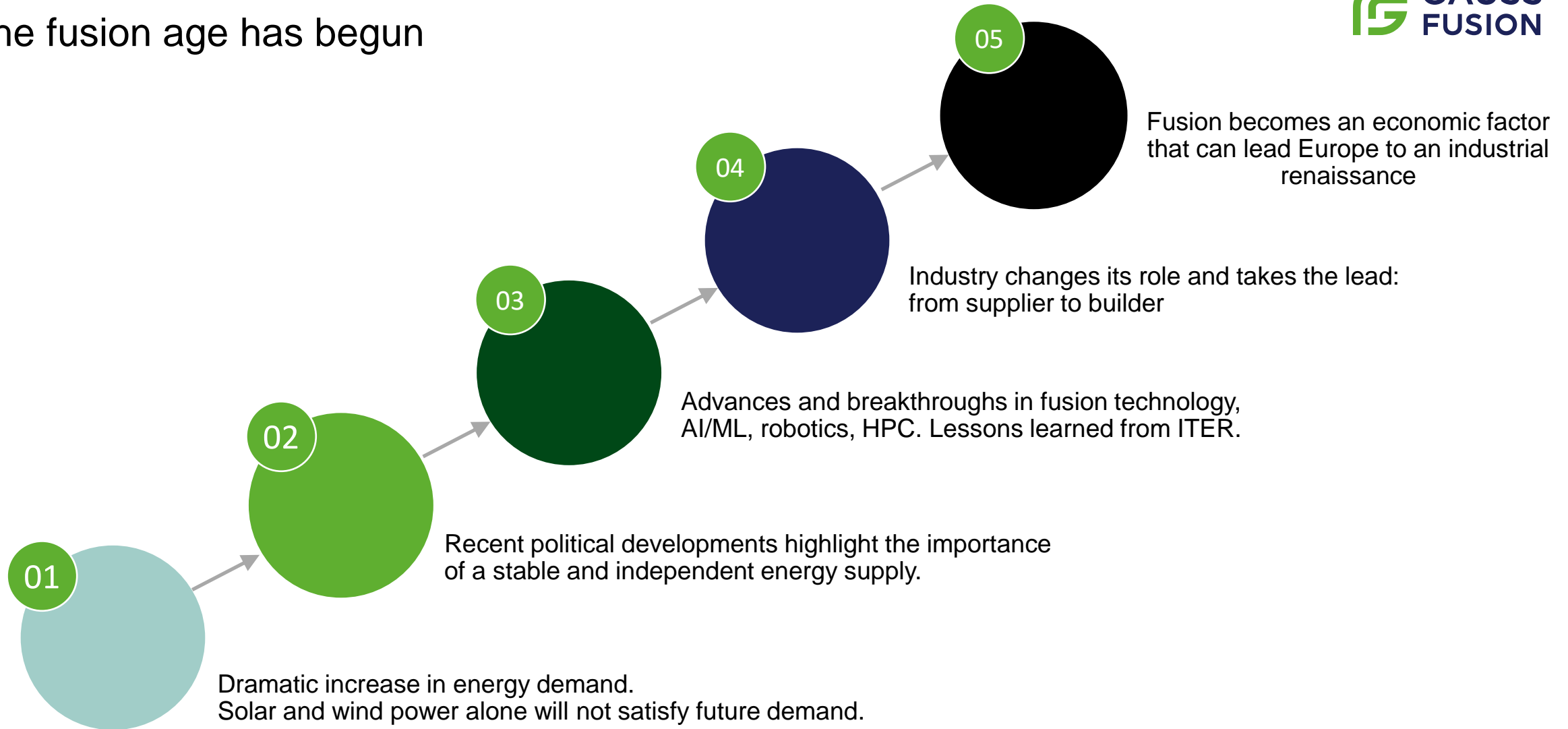


- In 2023 for the first time 18 companies reported involvement in a PPP with government.
- The United States, Japan, and Germany made announcements in early 2023 about new programs to support fusion commercialization, in addition to the already robust support in the United Kingdom.
- A regulatory framework for fusion is moving forward as well, with the United Kingdom being the first-mover, followed by a decision by the U.S. Nuclear Regulatory Commission in April 2023.
- This regulatory expected to de-risk fusion and unlock further private investment.
- As fusion grows, perhaps these public-private partnerships can help to bridge the “valley of death” if private markets cannot.



The fusion age has begun

The fusion age has begun





Thanks for your
attention!

