

**Advanced
Fuels**



June 2026

Fuelling the Future: SMRs and the Evolution of the Nuclear Fuel Cycle

Content

1. The need for energy and SMRs
2. Urenco and the fuel supply chain
3. Challenges and opportunities
4. Advanced Fuels Facility update

1. The need for energy and SMRs



The need for energy



The Nuclear Advantage

Low
Carbon Output

High
Energy Density

Reliable
Base Load

Compact
& Scalable

Industrial
Integration

Fast
Deployment

Nuclear energy with the deployment of SMRs can be crucial for meeting rising energy demand, enhancing energy security, and achieving net zero.

SMR market demand: a massive opportunity



11 industries representing ~80% of industrial energy demand in **Europe** and **North America**

First movers with high growth

- Upstream oil and gas
- Military applications
- Data centres

Early movers with high demand

- Chemicals
- District energy
- Refining oil and gas
- Food and beverage

Later movers with high demand

- Coal repowering
- Synthetic aviation fuel
- Synthetic maritime fuel
- Iron and steel

SMR market demand: a massive opportunity

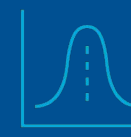
2050 accessible demand based on climate commitments requiring clean baseload



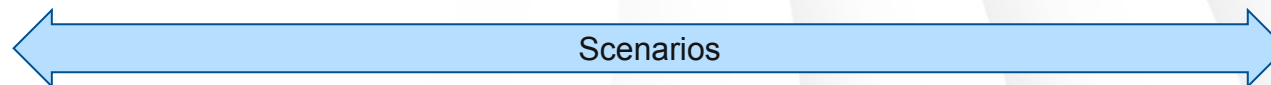
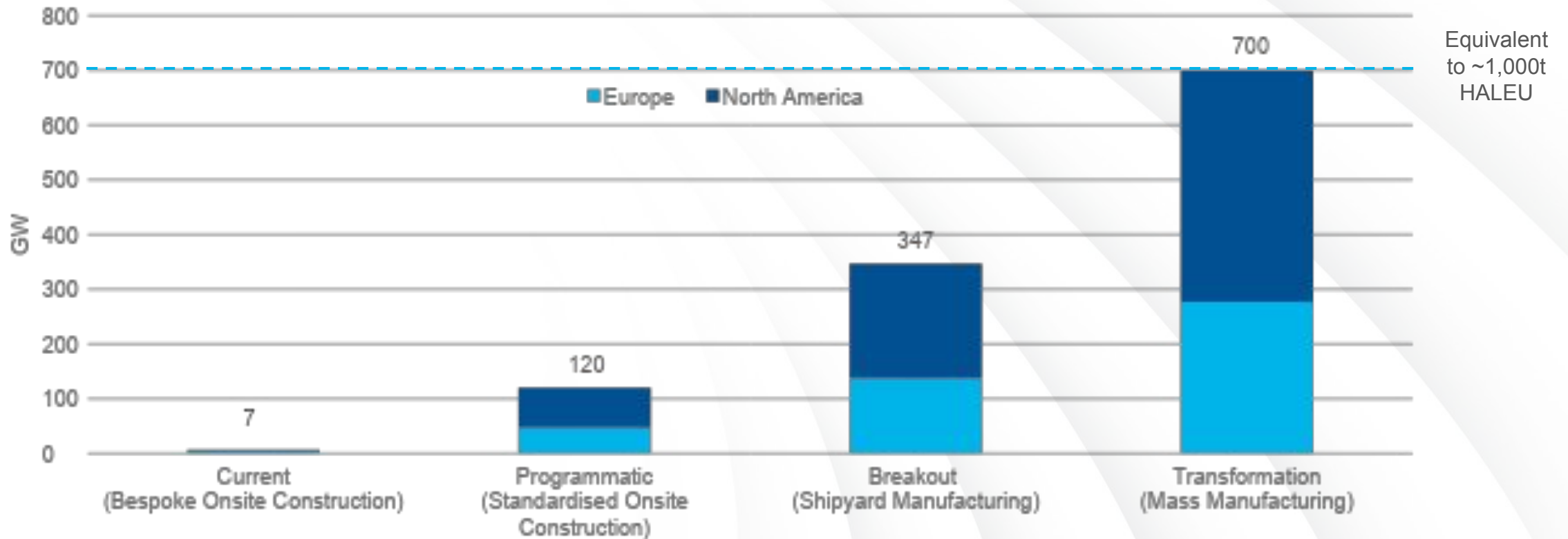
Focus Industries & Countries



Supply & Demand Scenarios



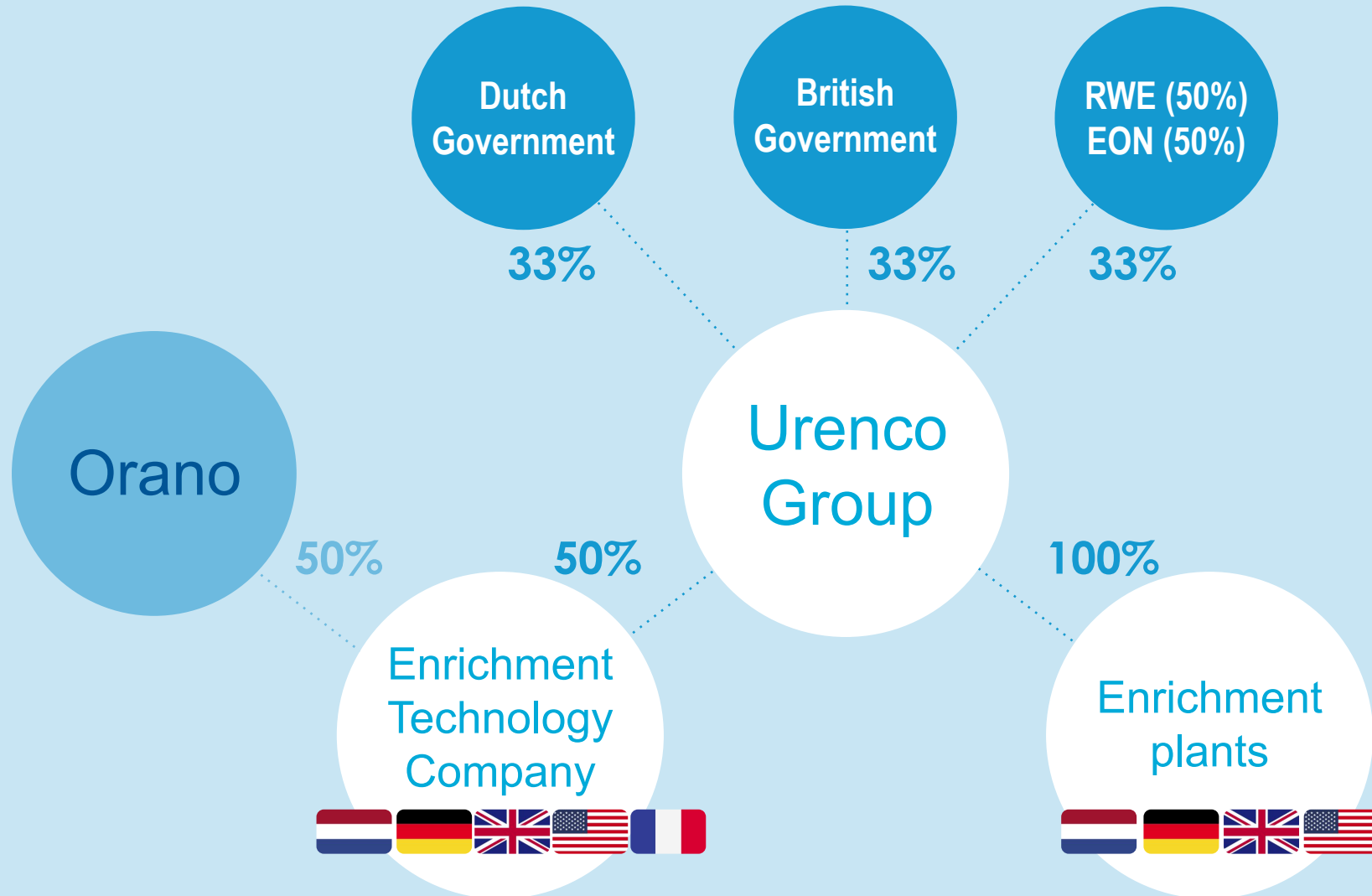
Market Sizing



2. Urenco and the fuel supply chain



Urenco structure



Supplying enrichment services globally

Total capacity: 17.3 million SWU/year



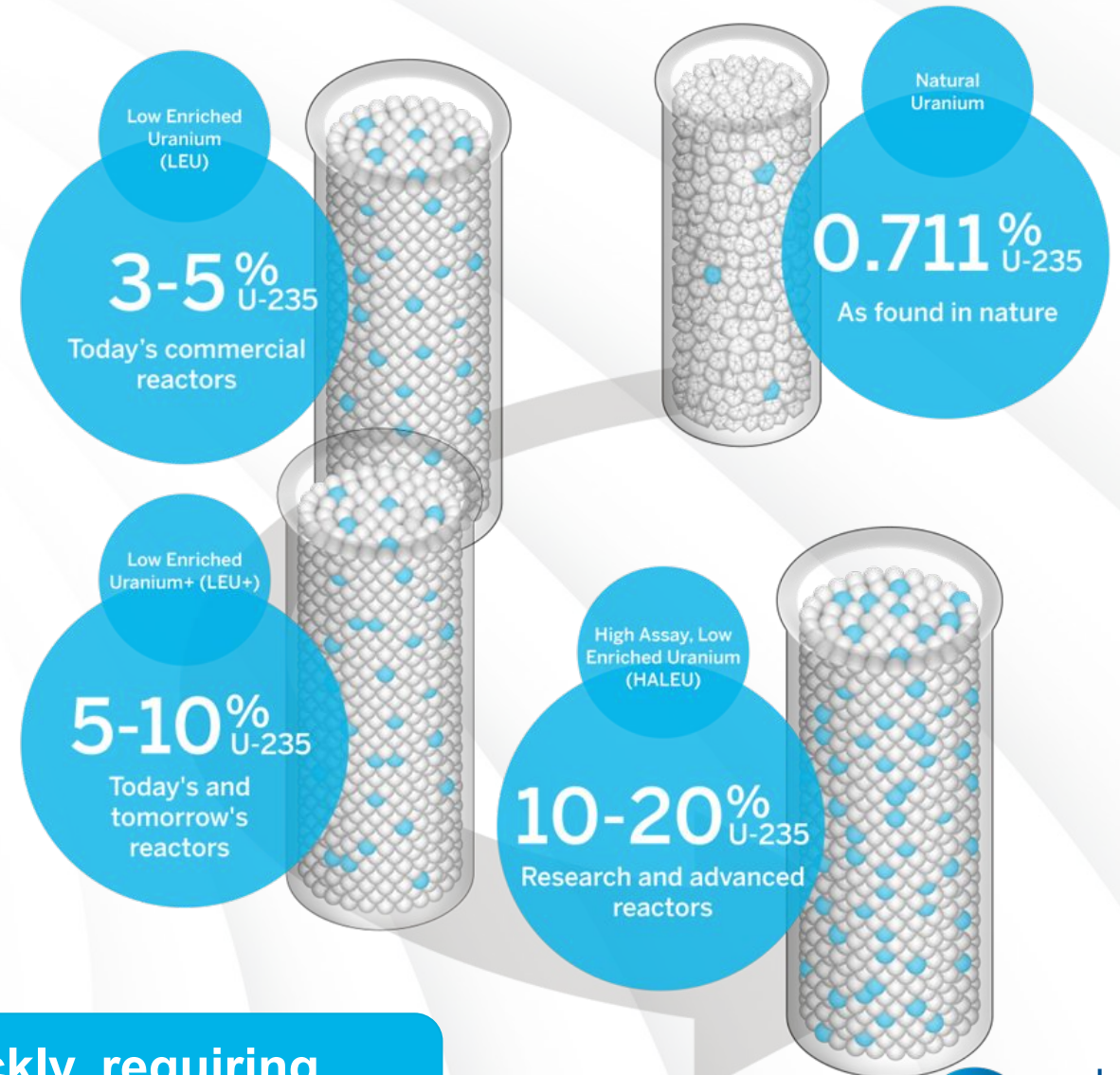
LEU, LEU+ and HALEU

Today we enrich:

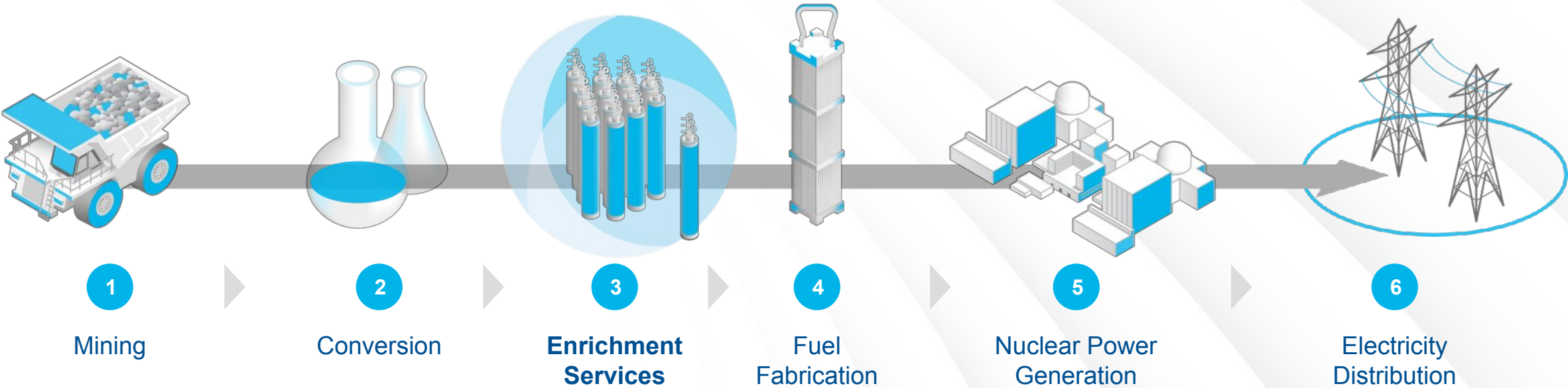
- **LEU** - up to 5% enrichment produced at all four sites.
- **LEU+** - up to 10% enrichment now commercially available at Eunice site.
- Capenhurst to be LEU+ capable soon.

Future enrichment:

- **HALEU** - up to 20% enrichment, required for multiple advanced reactors.
- Will be available from 2031 from Capenhurst Advanced Fuels Facility.

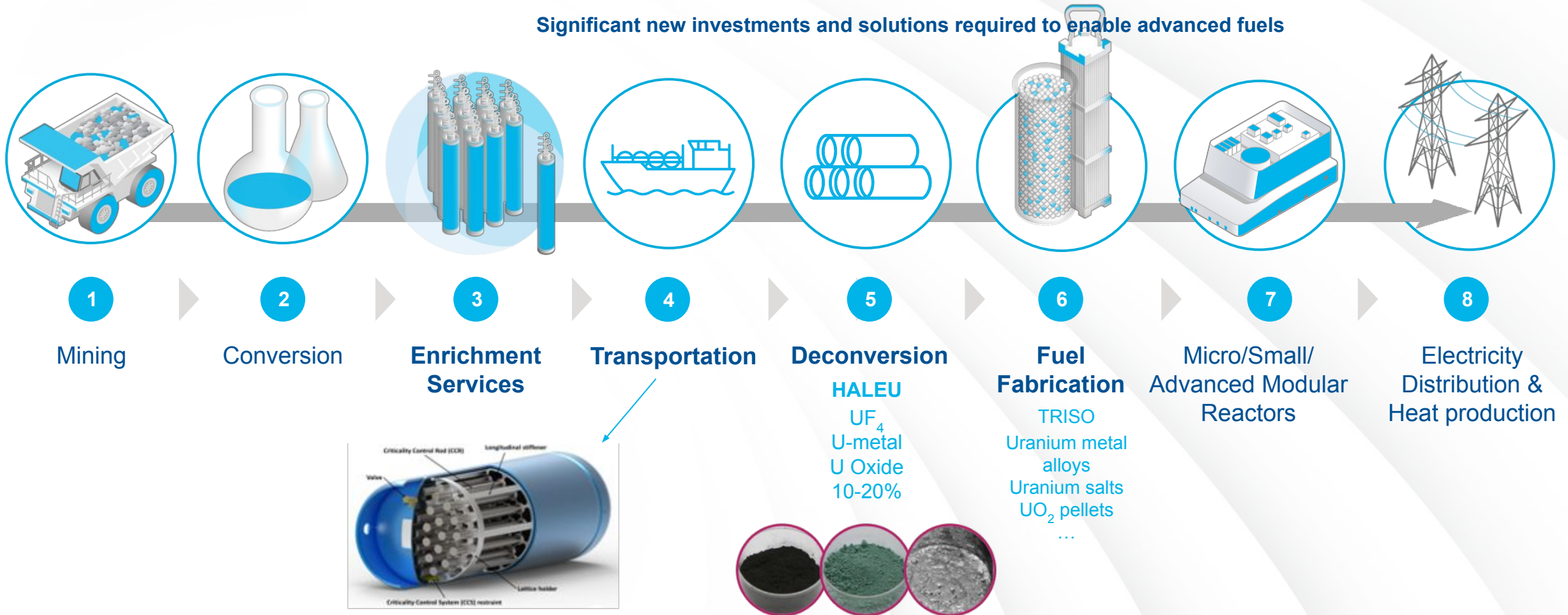


Today's Nuclear Fuel Cycle



The advanced nuclear fuel cycle

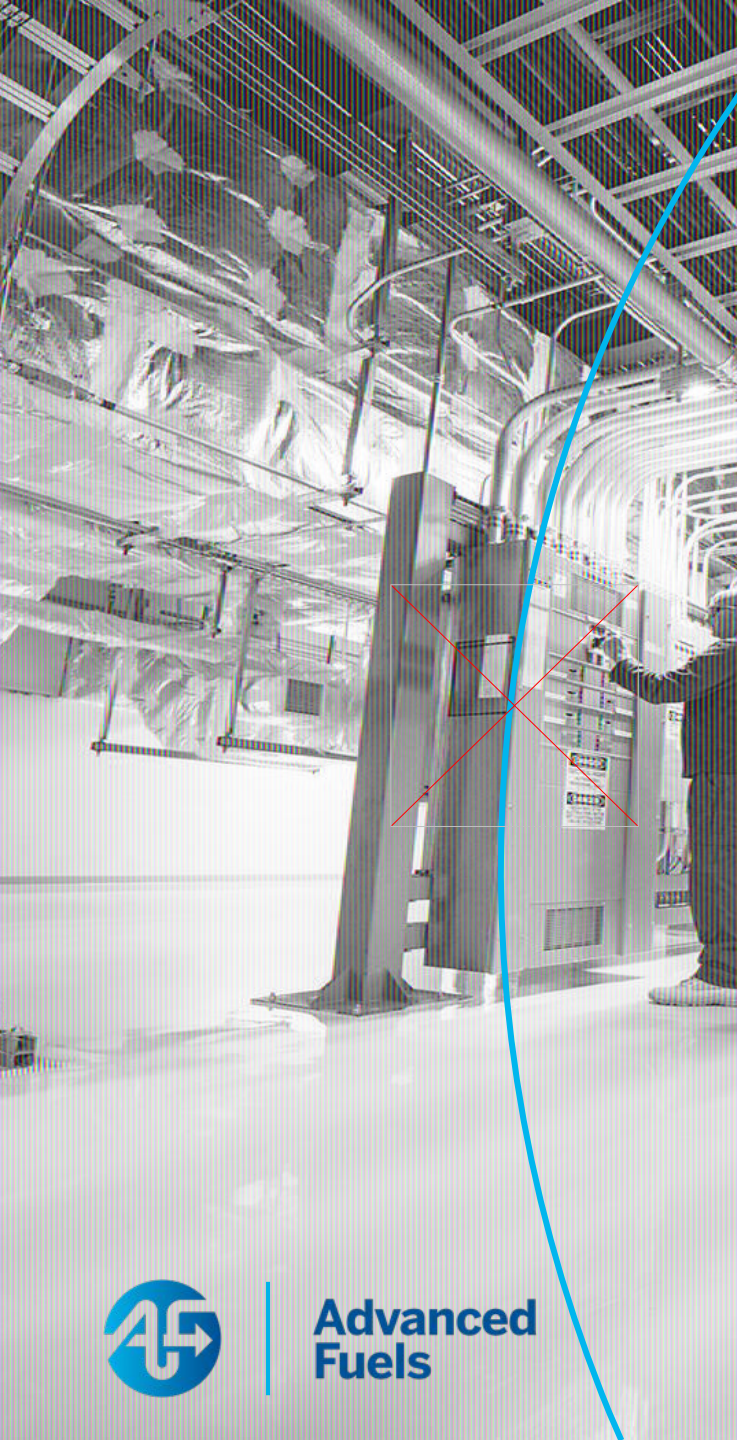
Significant new investments and solutions required to enable advanced fuels



New cylinder design

3. Challenges and opportunities





Advanced Fuels at Urenco: LEU+ up to 10% ²³⁵U



- US Nuclear Regulatory Commission authorised Urenco USA to produce LEU+ in October 2025, after license amendments had been granted successively.
- Initial production of LEU+ has since taken place.
- Our UK site is also expected to be LEU+ capable in 2026.
- The first advanced fuels LEU+ contracts have already been signed.



4. Advanced Fuels Facility update



Advanced Fuels at Urenco: HALEU

UK Project highlights: Enabling works ²³⁵U
Up to 20%



Milestone schedule

Project delivery schedule

Project start	Project end
2023	2031

Project delivery targets

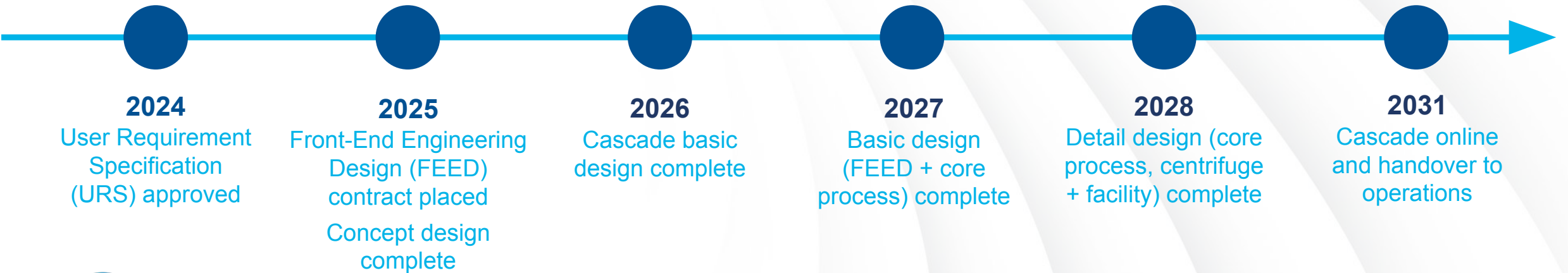
Enabling works complete	Construction commenced	Facility handover
2027	2028	2031

In numbers...

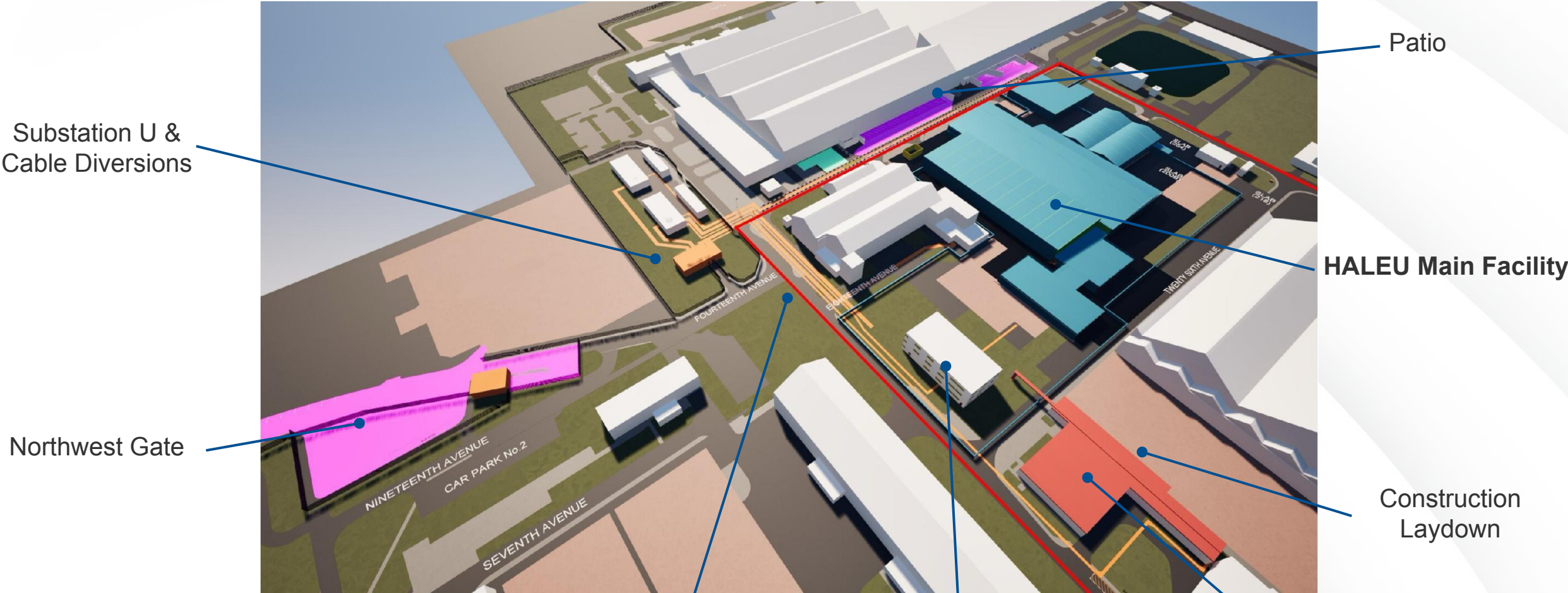


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New jobs at peak of construction



Building the HALEU Facility: Overview



Substation U & Cable Diversions

Patio

HALEU Main Facility

Northwest Gate

Construction Laydown

Fire Main Replacement

Construction Welfare Building

Isolations & Demolition



One last thing about the SMR Market



What does it take to realise the SMR potential?

Simultaneous improvement to six drivers:



SMRs can revolutionize the way energy is delivered: we can drive this change. We all need to contribute to making this potential for 700 GW by 2050 a reality.