



HEXANA presentation

PRT-HXN-24-0021 rév. A

Thomas Jeannoutot (Head of synthesis cell)

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A project developed by visionary & experienced leaders



Sylvain Nizou

CEO

Engineer, PhD - Business Developer

Expertise: circular carbon economy,
decarbonization of industries

Strategic partnerships development
Initiator of **10 patents**



Paul Gauthé

CTO

Engineer - 15 years' experience in
advanced nuclear reactors design,
operation of the Phénix reactor

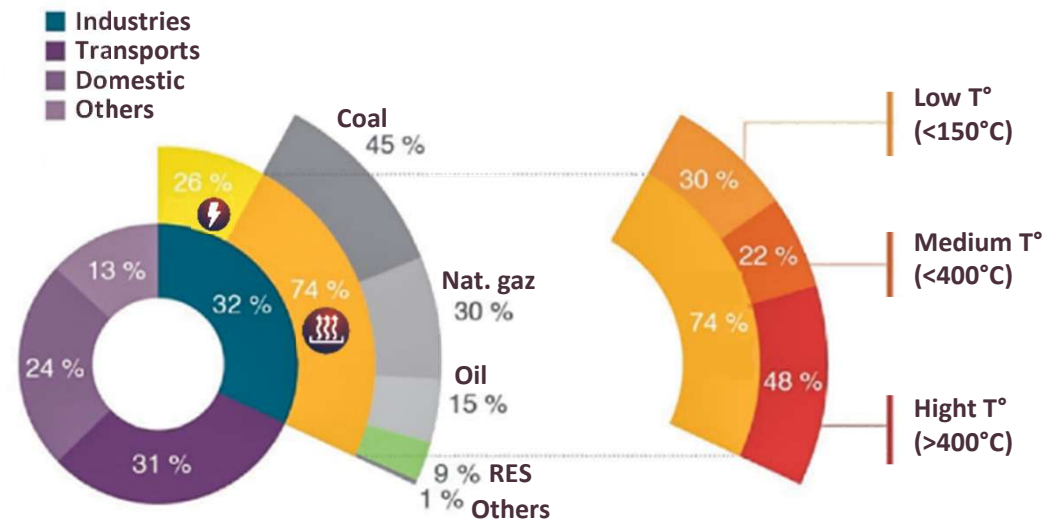
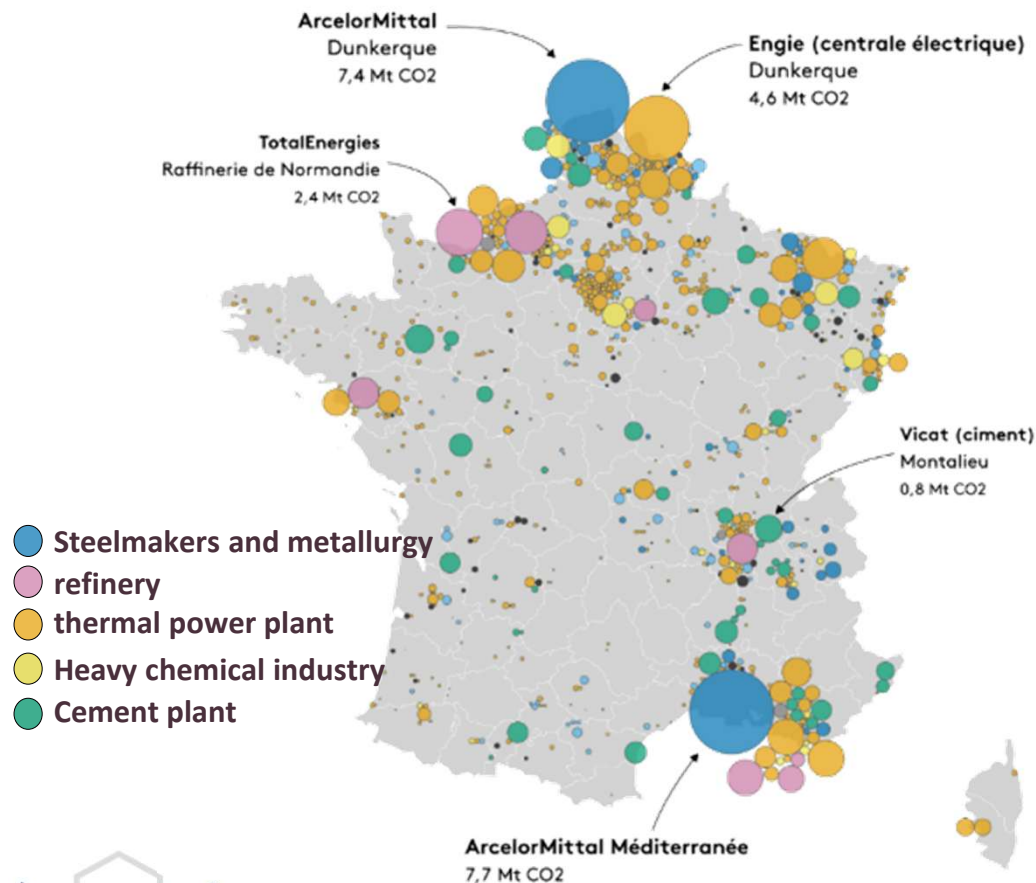
Sodium-cooled Fast Reactor (SFR)
R&D project manager

Expert in safety and design



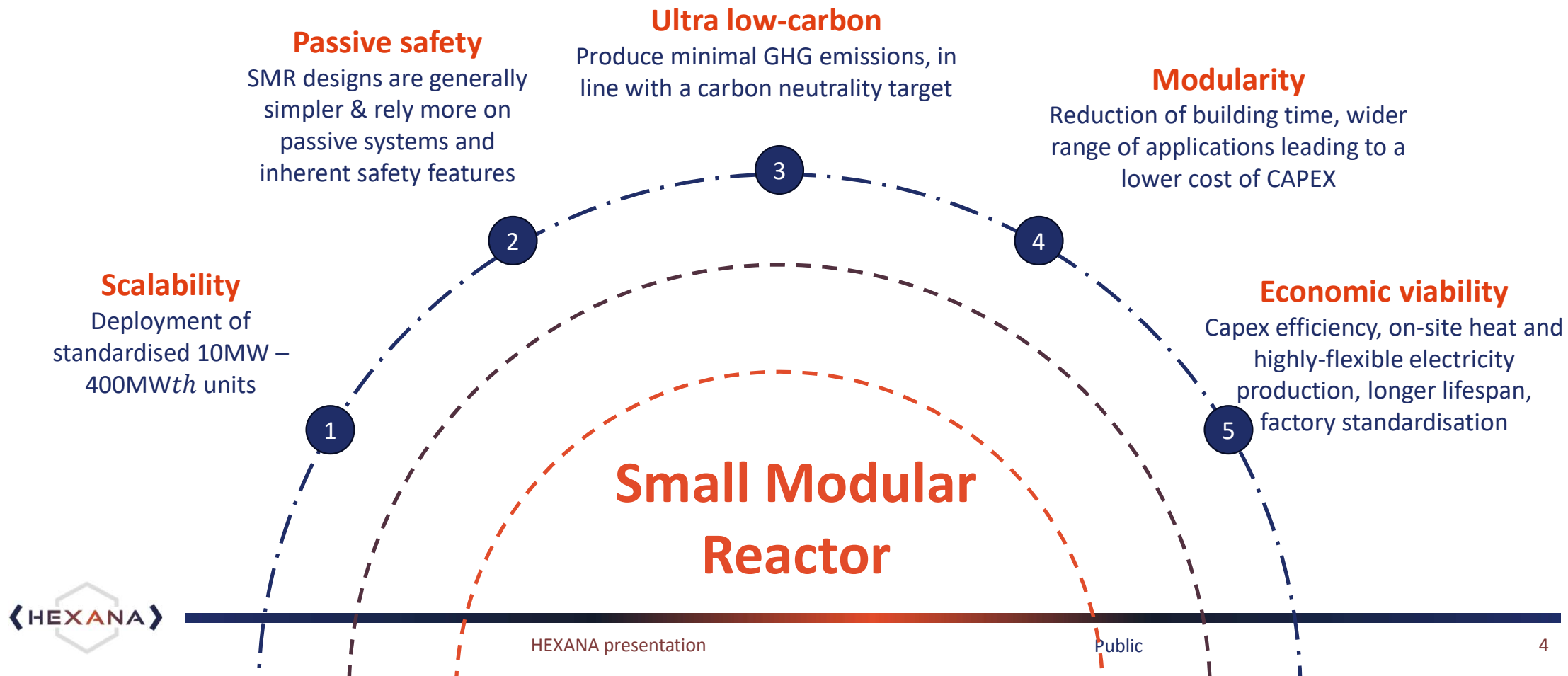
Which industries are they and which kind of energy do they need?

Their common point: **heavy consumers of fossil resources**, without sufficient and credible substitution solutions. Beyond their electrical needs, they consume heat.



➤ The energy supply of the mondial global industry depends 90% on carbon-based sources.

The only clean and scalable solution to provide industry with energy is Small Modular Reactors



Sodium-cooled fast reactors (SFR): a proven technology



1966

MASURCA

Critical model ~100
kW

Fast neutron physics

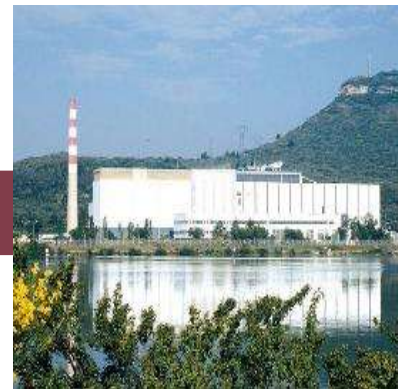


1967

RAPSODIE

Proof of Concept
40 MWth

Feasibility SFR



1973

PHENIX

Demonstrator
250 MWe

Qualification of materials, MOX
fuel, components, operation,
maintenance, power generation



1986

SUPERPHENIX

Industrial FOAK
1200 Mwe

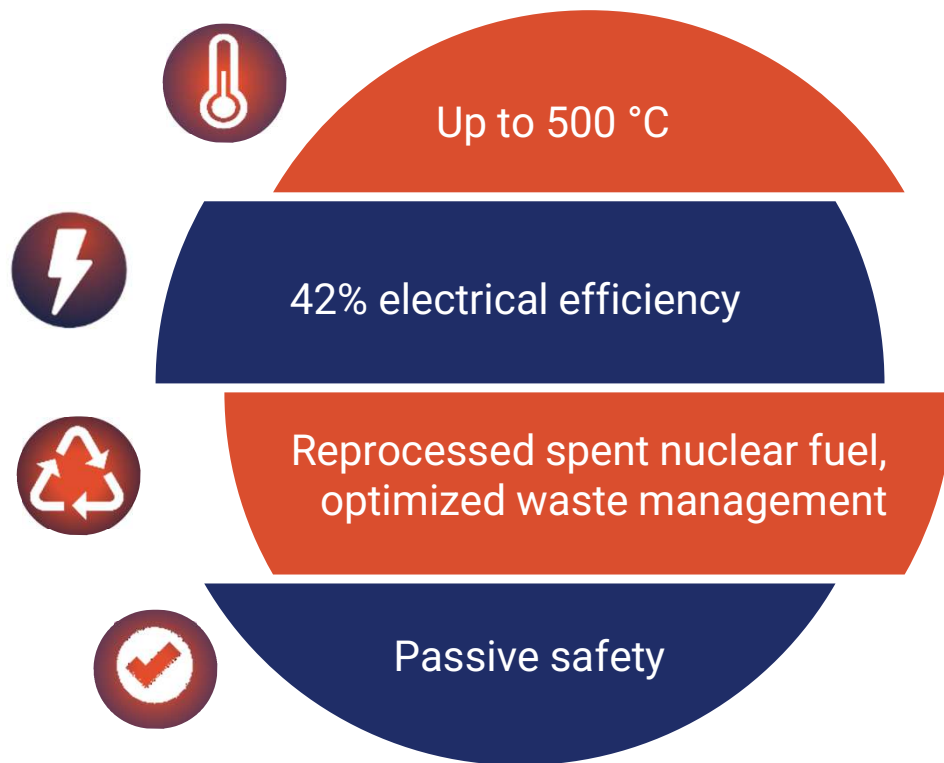
Industrial feasibility of high-
power SFR (construction,
operation, dismantling)

Continuing the legacy, but redesigning the reactor to meet the needs of new applications

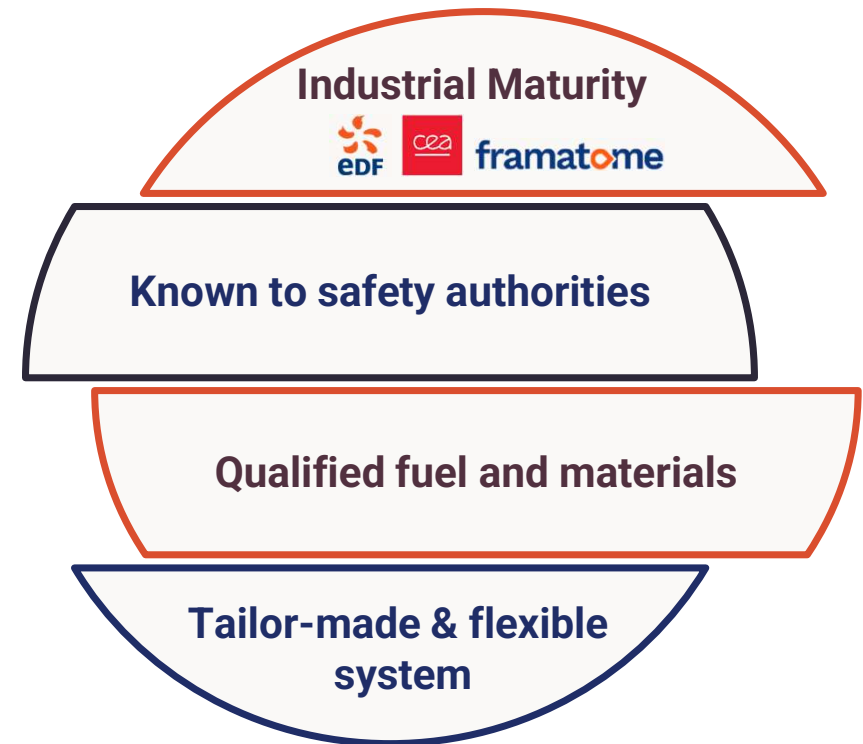


HEXANA's SFR: the only 4th-generation technology capable of meeting the challenges on time

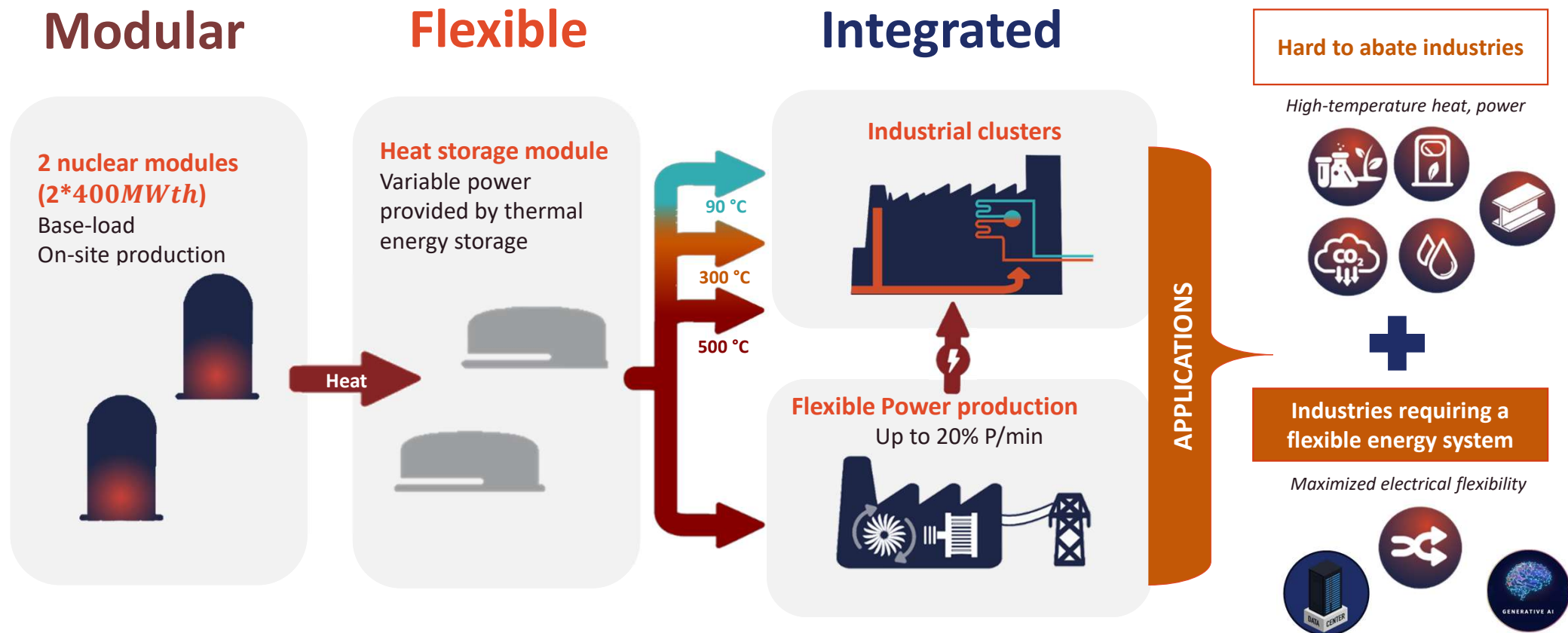
Favorable technical specifications...



.. and above all a **mature, credible** industry!



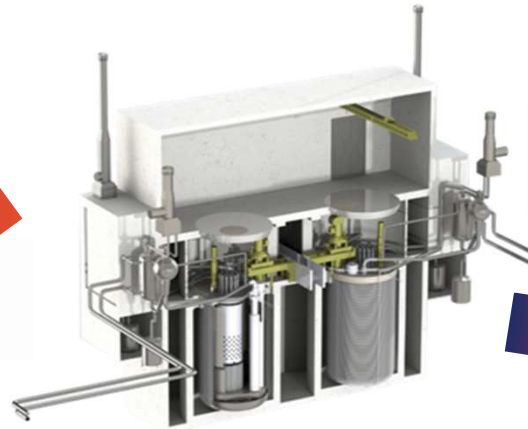
An innovative architecture for modular and flexible energy production



Introducing a tailor-made solution for industry to massively decarbonize

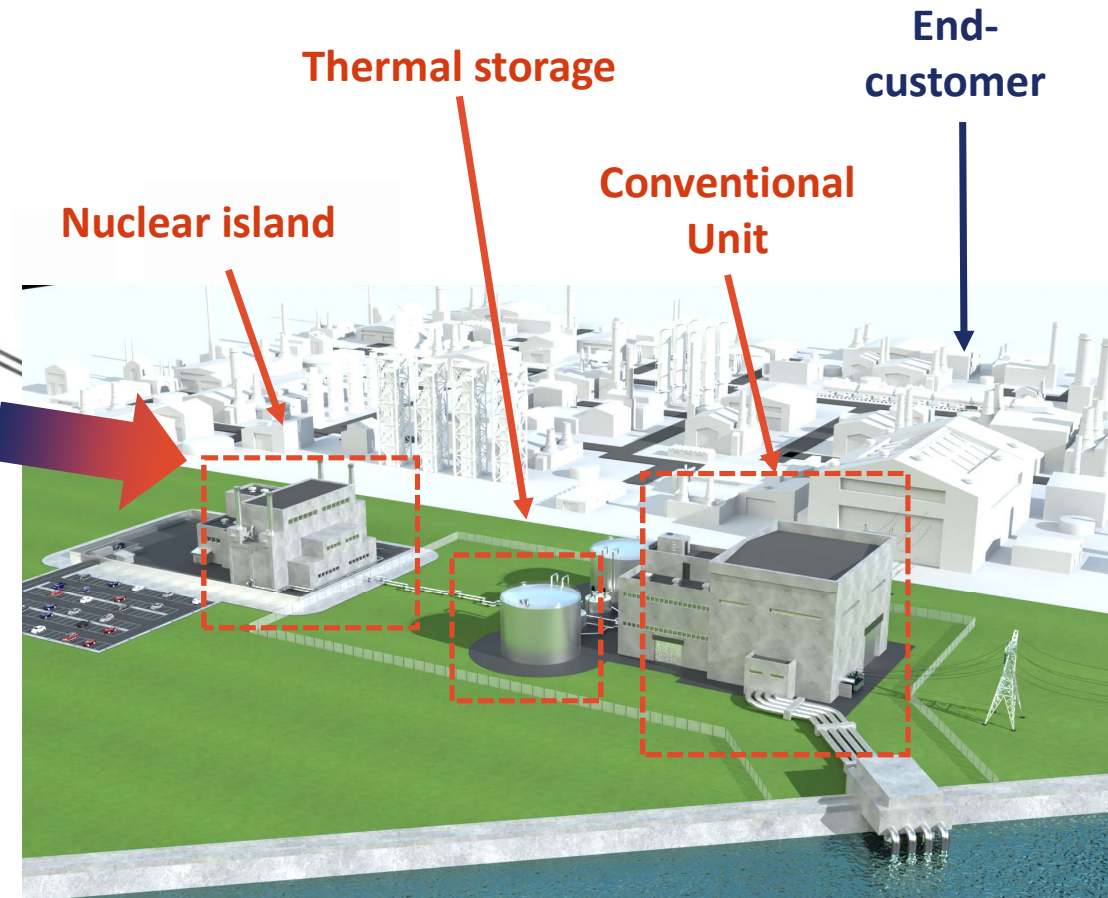


400 MW_{th} module

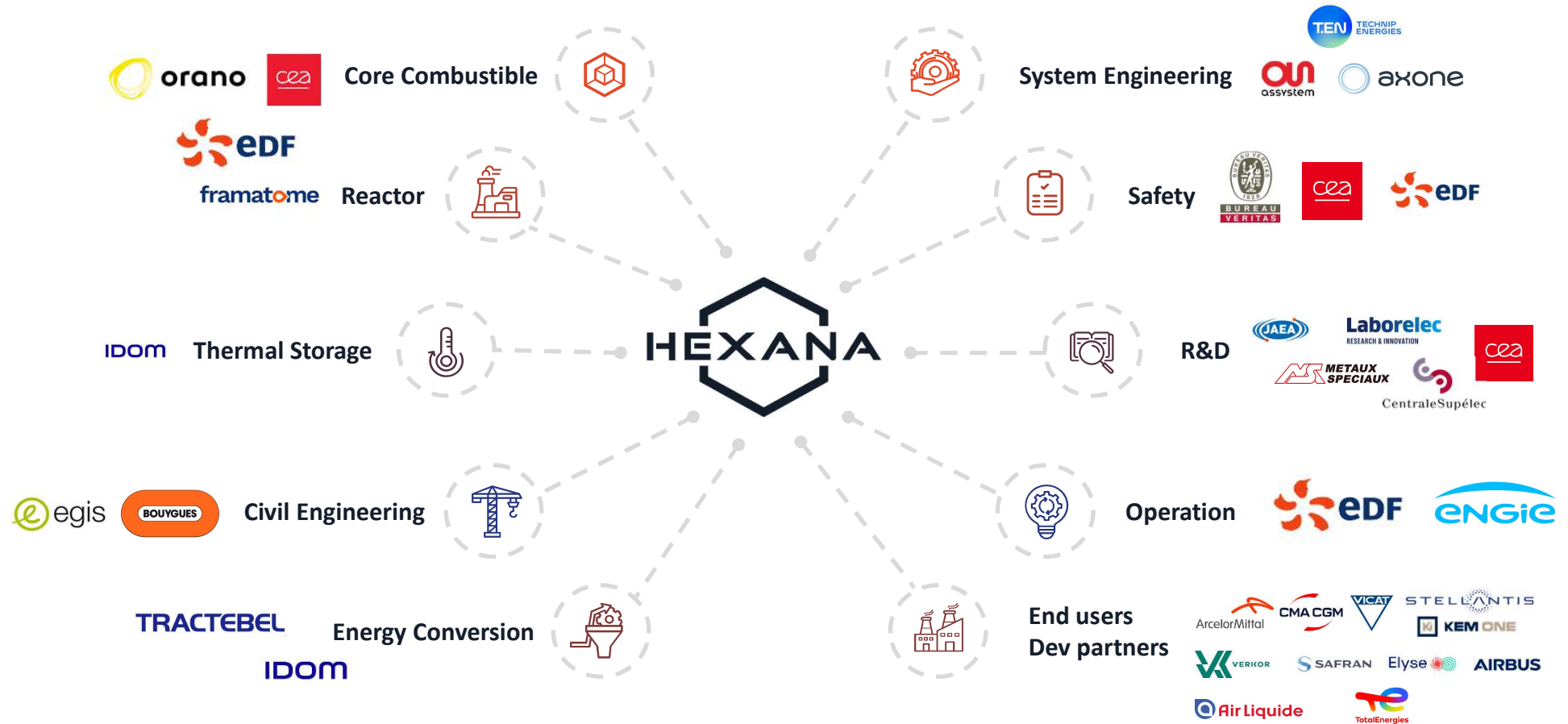


Reactor building
2x400 MW_{th}

4 or 6 reactor configuration possible

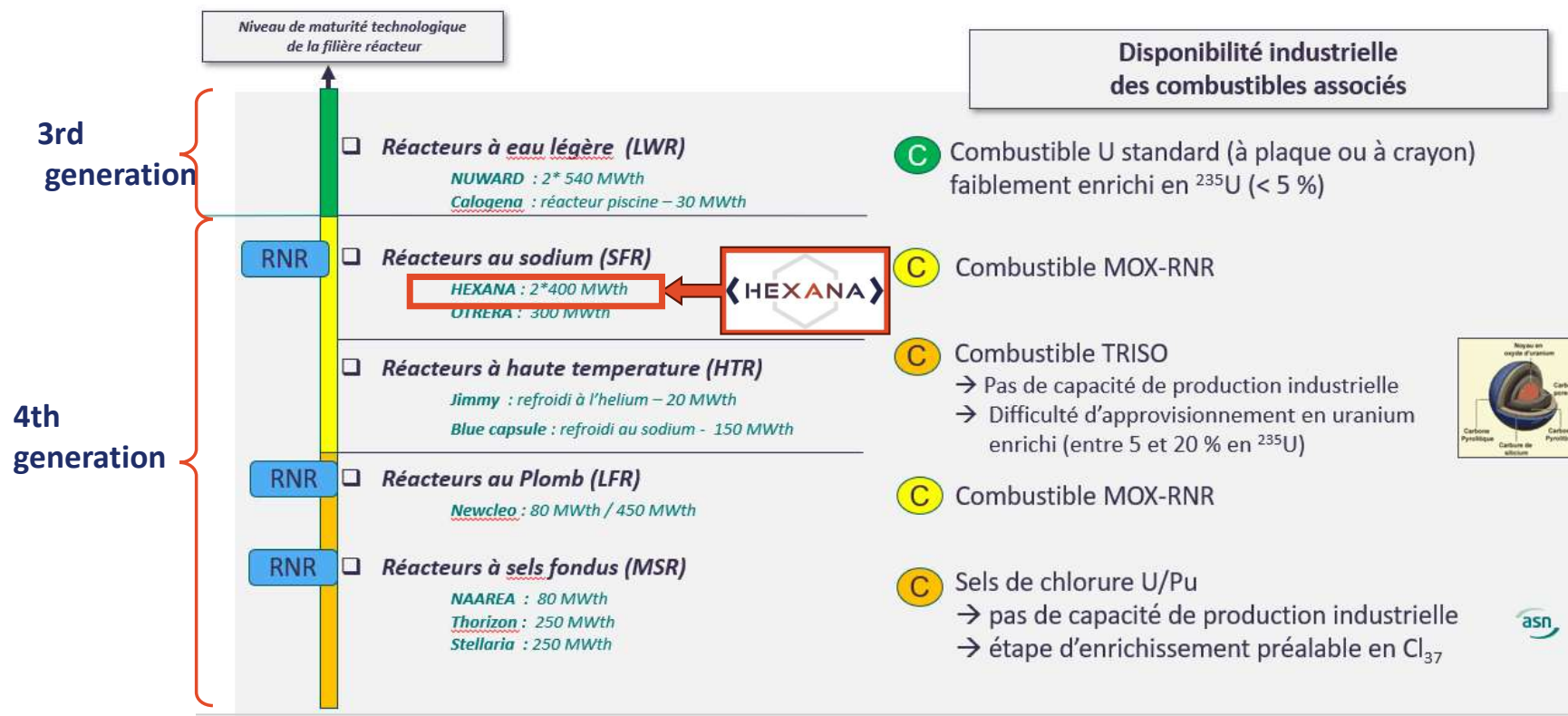


Identified and mature ecosystem already working with us



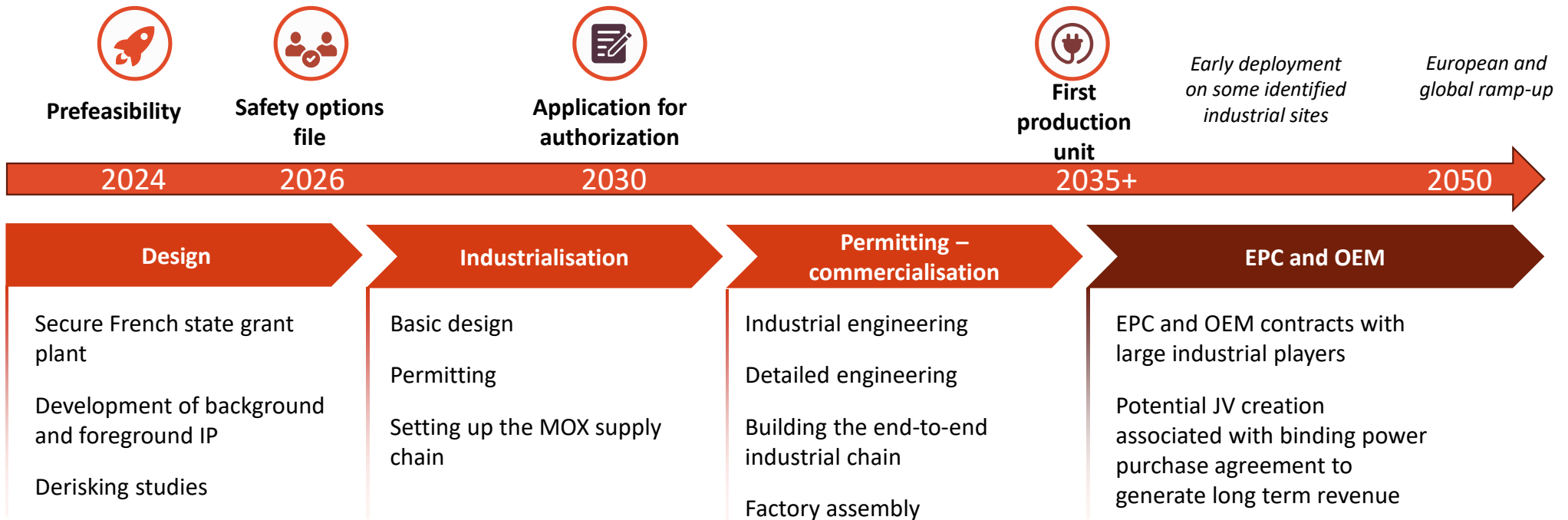
HEXANA : The most mature reactor within the GEN IV

PANORAMA DES PROJETS DE PRM SUIVIS PAR L'ASN



Source : French Nuclear Safety Authority (ASN)

Fast-track project to deploy a first nuclear unit by 2035



Fundraising from private and public investors



- A **credible** alternative to fossil fuels for **industry decarbonization**
- Reviving the sodium-cooled breeder industry
- Committed to **close the nuclear fuel cycle** for a sustainable nuclear

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