



Upcycling nuclear for climate

Teaser

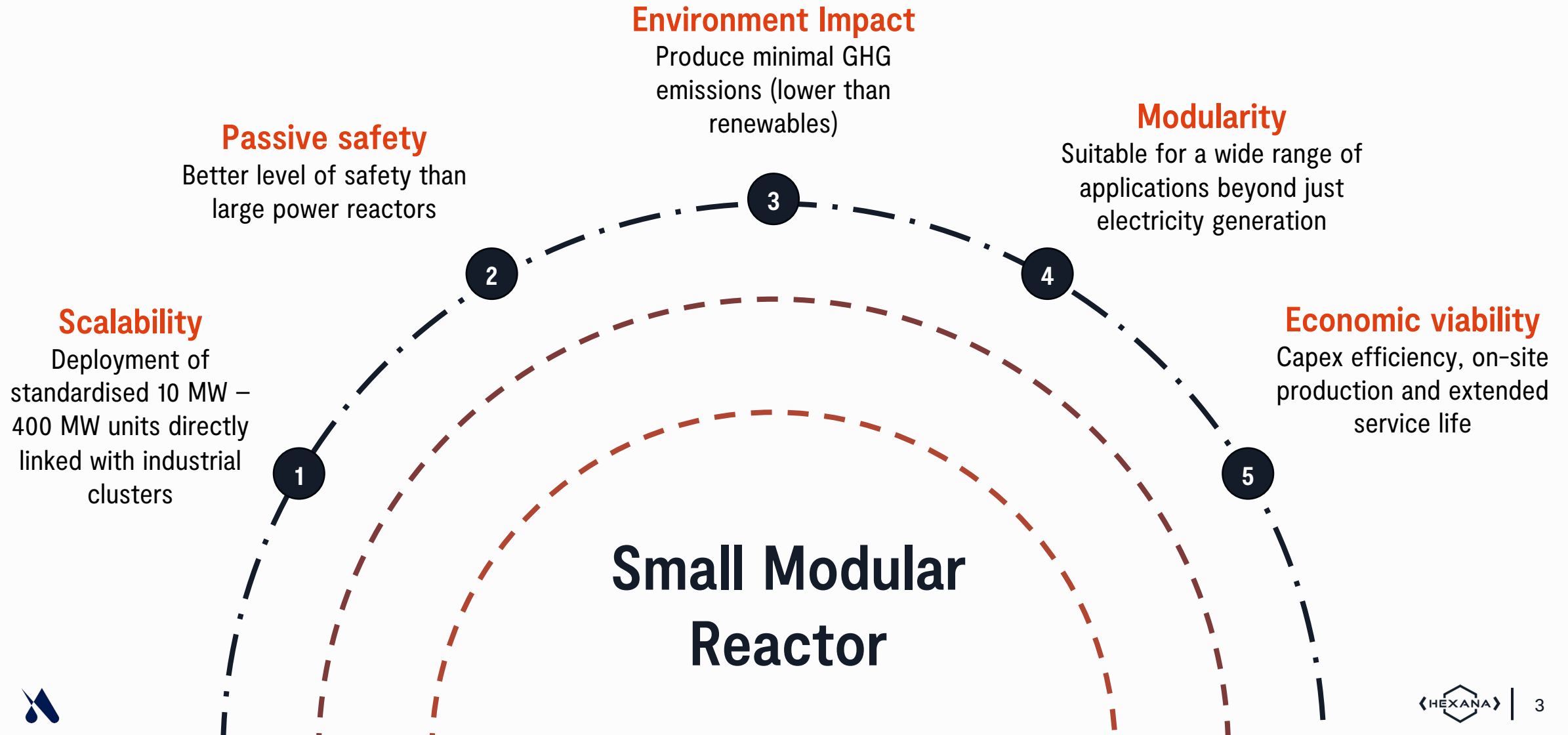


Industry must be massively decarbonized

• **43%** of global CO₂ emissions come from industry

• **90%** of industrial energy is driven by fossil fuels

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





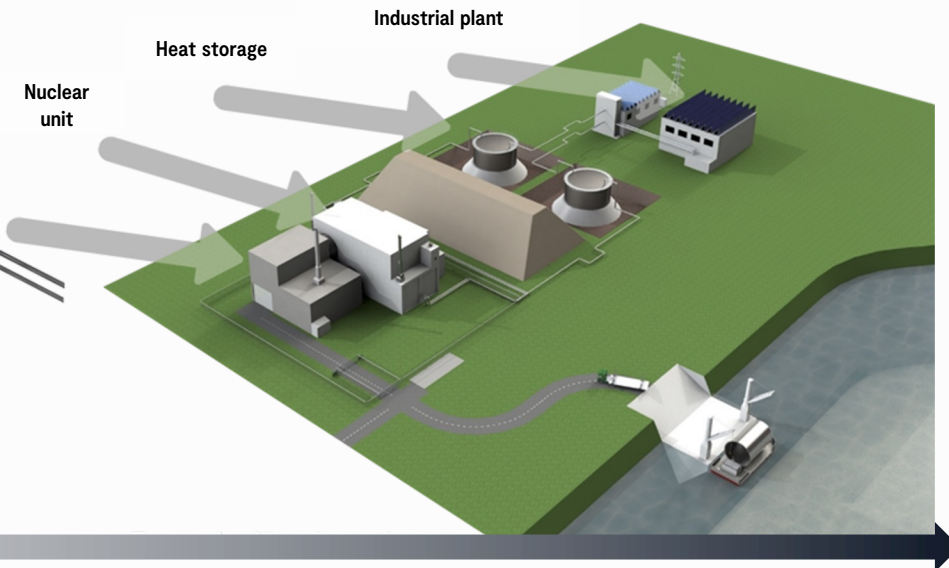
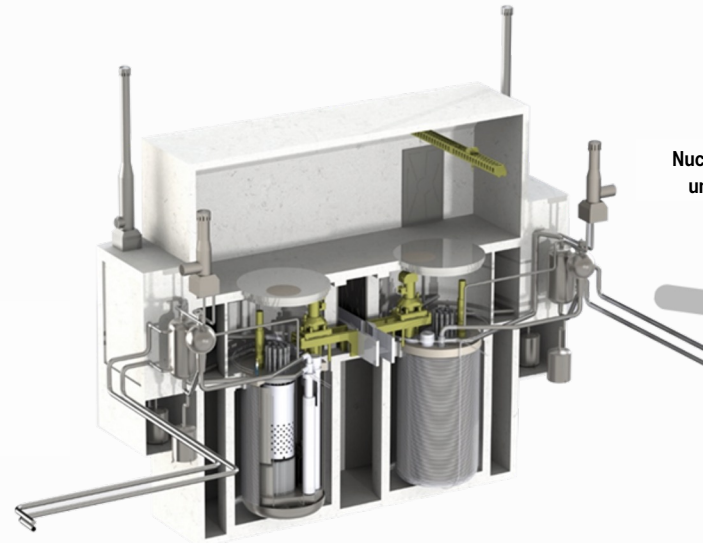
Hexana is on a mission

Decarbonize industry with a nuclear solution meeting all
industry's requirements in terms of long-term
competitiveness and power levels
while enabling upcycling

Introducing a tailor-made solution for industry to massively decarbonize



Module 400 MWe/Ch



1 Modular nuclear unit

Nuclear unit based on a proven core technology (SFR) and a unique conception

2 Energy production unit

2x 400MW thermal power enabling a modular and flexible energy production for industry

3 On-site production

Directly based on an industrial cluster while combining a heat storage unit

A project led by visionary and highly experienced founders



Sylvain Nizou
CEO

- **Carbon circular economy & industrial decarbonization** expert at CEA
 - Engineer industrialization of **micro-energy sources** at STMicroelectronics
 - Initiator of **10 patents**
-



Paul Gauthé
CTO

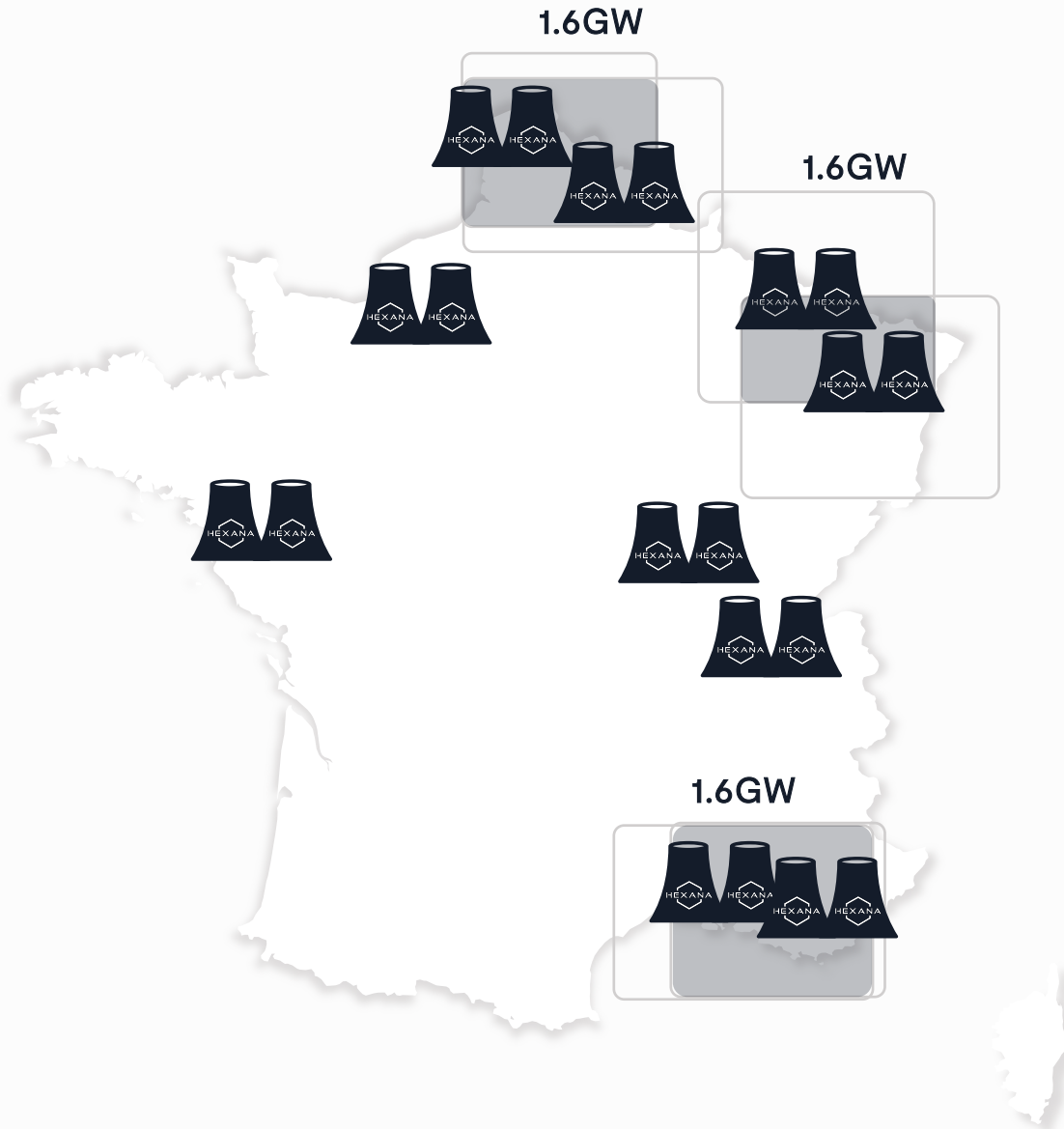
- **15 years** of experience in **SFR**, operation of the **Phénix reactor**
 - R&D Project Manager for **SFR** at CEA
 - Initiator of **1 patents**
-



Jean-Baptiste Droin
CIO

- **10 years** of experience in advanced reactor **design** and safety
 - Expert in reactor **flexibility** and **thermal storage** at CEA
 - Initiator of **9 patents**
-

A clear roadmap to fast-track the deployment of 20 reactors in France



20

reactors in France representing a total capacity of 8 GW

15

LOIs have been secured with top-tier industrial and nuclear players

10

sites identified as the most polluting in France and dependent on fossil fuel sources

Hexana combines all key features needed for a short-term massive deployment

1 Core proven-technology

400 years of global cumulative operations enabling to meet the need for decarbonization in time

2 Tailored for industry

Generate heat up to 500°C through on-site production with standardized units

3 Competitive

Stable pricing, sustained long-term production levels, and a hybrid offer on heat, electricity, and hydrogen

4 Ultra-low-carbon

Lowest carbon production while allowing a closed fuel cycle (use of existing material and reprocessing of MOX)

5 Highly experienced team

20 patents already initiated by the team, demonstrating its strong capacity for innovation

6 IP

Unique project based on an IP strategy that leverages 50 years of R&D

7 Fast-track project

First reactor by 2035 and already 10+ LOIs showing that Hexana is the most credible project at this stage

8 Energy independence

Closed fuel cycle which combines material independence and existing resources for long-term opex stability





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