

LEANDREA

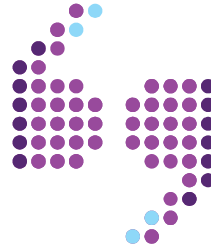
Building Belgium's First
Lead-Cooled Demonstration Reactor

sck cen

Belgian Nuclear Research Centre

.AGORIA

B E L G I A N
N U C L E A R
FORUM



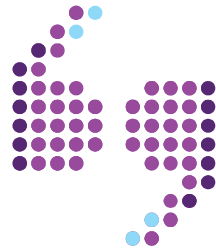
Guido Mulier

Senior Business Development Manager

sck cen

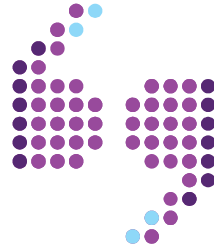
Belgian Nuclear Research Centre





Peter De Brabandere
Director Markets & Industries

.AGORIA



Peter Baeten
Director-General

sck cen

Belgian Nuclear Research Centre





SCK CEN

Pioneer in nuclear research





At Europe's heart

Our Belgian Nuclear Research Centre is based in Mol and Brussels. Our pioneering research is **internationally renowned**

At the forefront of progress

In 1952, we started to explore the possibilities of nuclear science and applications that could **significantly change the world**

Mirroring societal needs

- Circular economy
- Fight against cancer
- **Climate change**

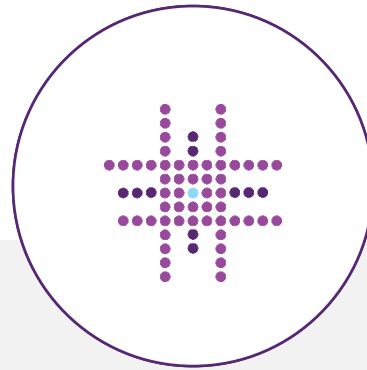


Three strategies for 4 Gigawatt



1

Long term operation
existing NPP



2

New NPP



3

**Small Modular
Reactors**

Small Modular Reactors in a nutshell

Small

Up to 300 Mwe

Smaller in size & power output than traditional reactors

Modular

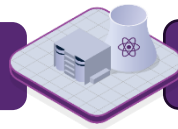
Grouping of individual reactors that form a larger NPP through use of **factory-built modules** assembled on-site

Reactor

Reliable, low-carbon energy generated through **nuclear fission**

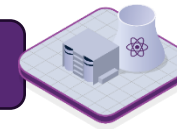
Safety by design

Designs are simpler, often rely on passive systems & inherent safety features that use the natural flow or gravity of the coolant



Lower investment costs

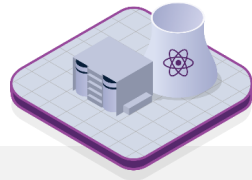
Enabled by standardized, factory assembled components & economies of series



Flexible

Operate one unit or multiple SMRs as one large NPP. Units switched on or off as demand changes. Heat & hydrogen when electricity demand is low

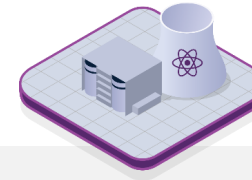
Two main technologies



Water-cooled SMRs

Mature

Light Water Reactor technology:
LWR-SMR



Advanced SMRs

No water as coolant

Fast reactor SMR Technology



Lead-cooled SMRs

Belgium to fund development of advanced small modular nuclear reactors

The Belgian government has announced that it will provide funding of €100-million for research into advanced small modular nuclear reactors (SMRs). The money will be given to the country's SCK-CEN nuclear research centre in tranches of €25-million a year, over four years. The announcement was made at a function marking the seventieth anniversary of the SCK-CEN.

Initiative in Belgium for SMR R&D&I

- Based on innovative concepts
- Horizon 2040
- 100 M€

Why lead?

**Lead keeps neutrons
fast which enables
sustainability benefits**

Benefits:



Better use of natural resources

More efficient fuel use



Reduced high-level waste

in a closed fuel cycle

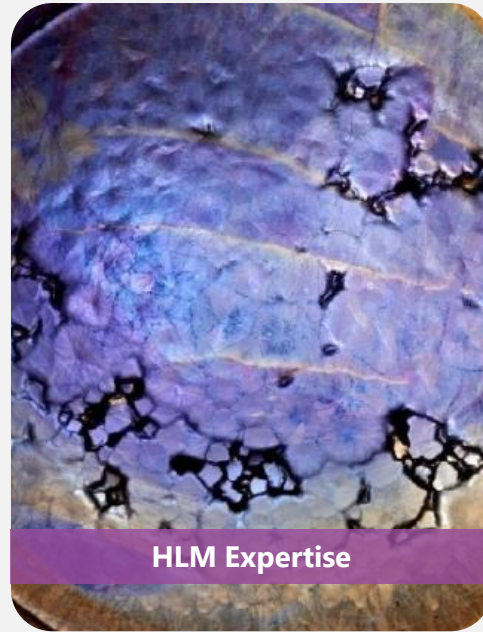
Research infrastructure & expertise in heavy liquid metals



Mechanical testing



VENUS Reactor



HLM Expertise



Materials

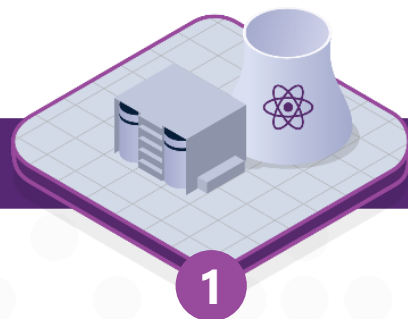


Chemistry

Four partners, **one roadmap**

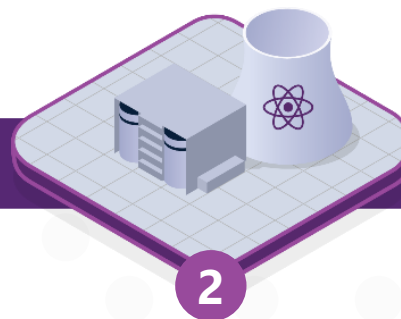


LEANDREA
Technology Demonstrator



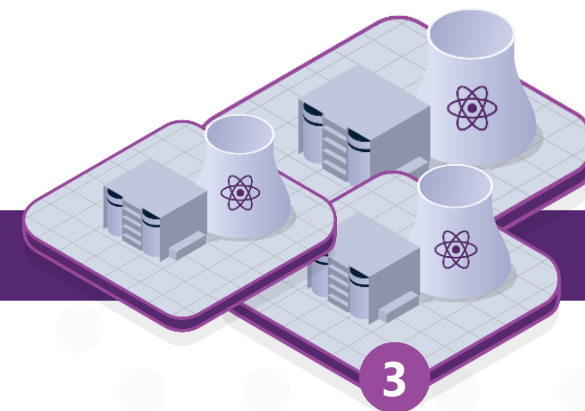
Mol, België

ALFRED
First-of-a-kind



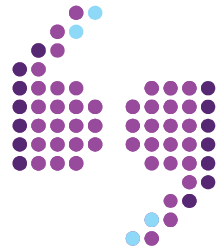
Pitesti, Roemenië

2039
Commercial roll-out





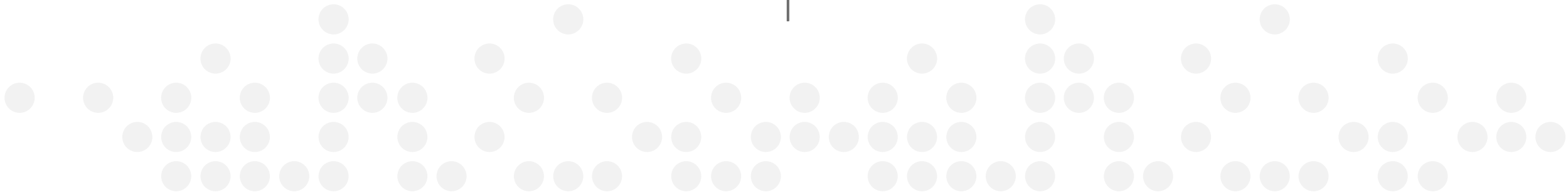
LEANDREA Technology Demonstrator



Roberto Adinolfi

Chairman

ansaldo | nucleare



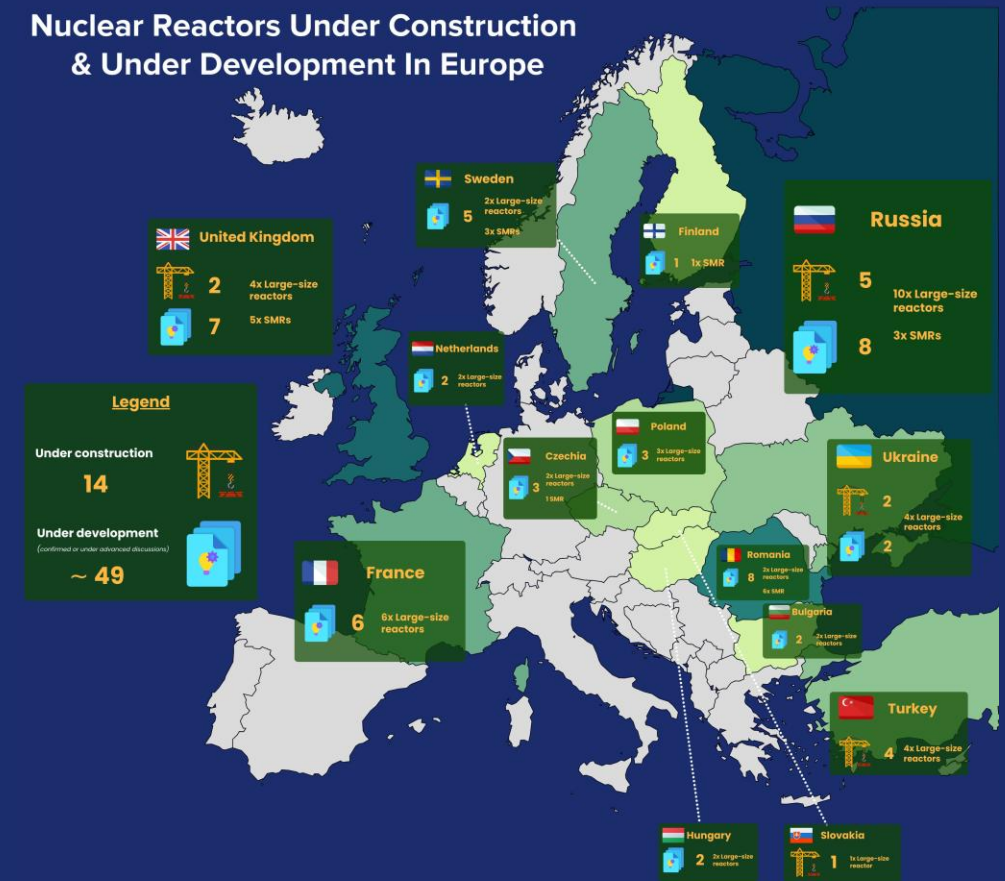
Lead-cooled Reactors: from Leandrea to the AMR fleet for the Europe of the future



A new scenario for nuclear in Europe

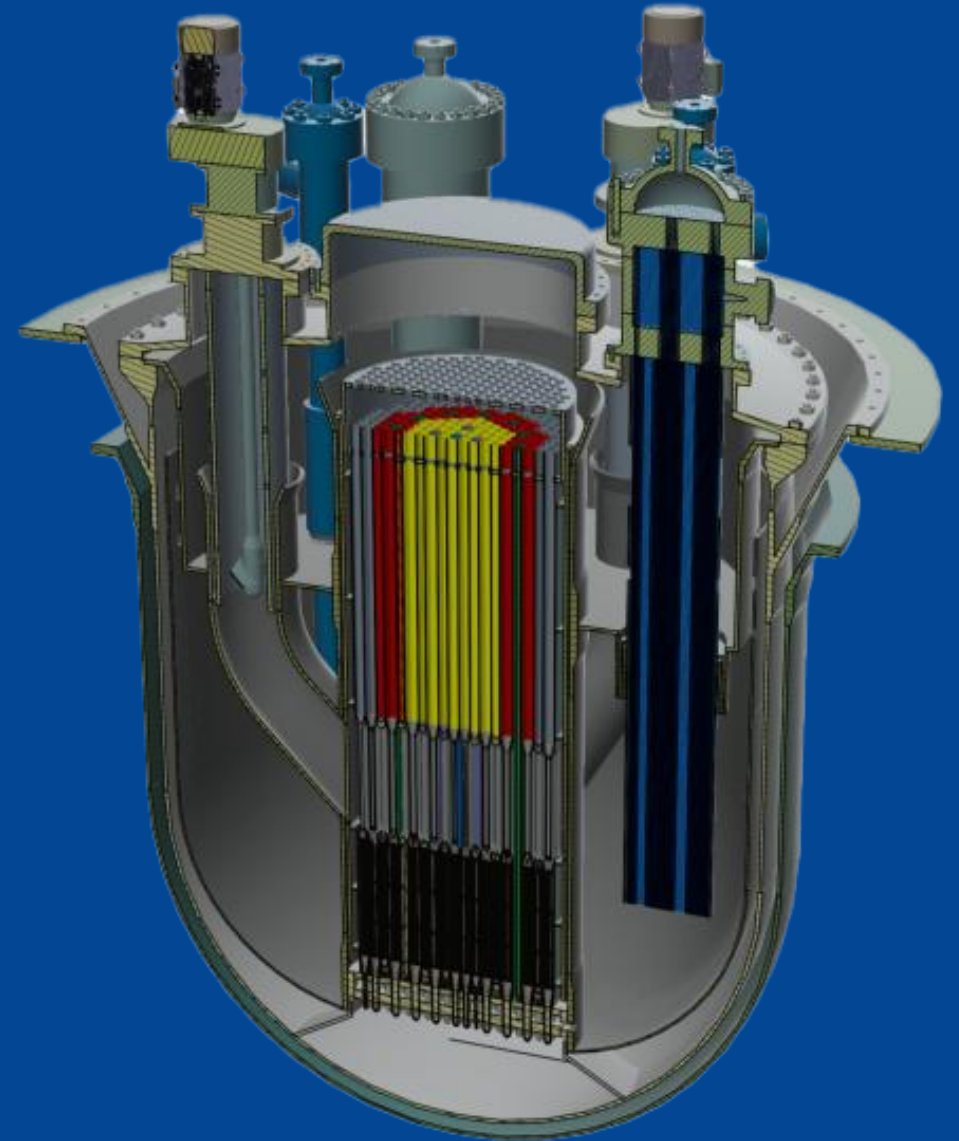
- Europe needs nuclear power to meet its decarbonization goals and to secure its energy supplies
- Demand driven by electrification as well as new end users, e.g. AI
- EU operating plants <35 years old
- Both Large plants and SMR projects underway in many EU countries (14 under construction, 49 under development)

Nuclear Reactors Under Construction & Under Development In Europe



Lead Cooled Fast Reactor: the EU solution for Generation IV

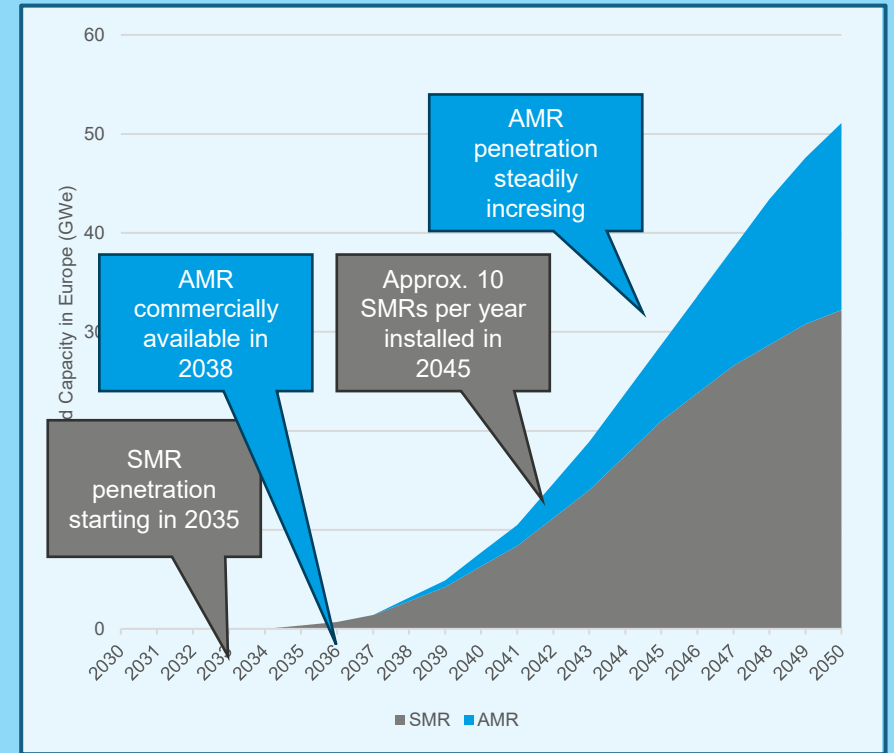
- AMR represent the ultimate solution for nuclear deployment, because of :
 - Better usage of fissile material
 - Possibility to burn nuclear waste
 - Broader applications, e.g. process heat, hydrogen etc
- Lead-cooled Fast Reactors offer optimal safety approach



Which market for Gen IV in Europe?

- LFR under development since almost 20 years, mainly in Belgium & Italy
→ *a truly European technology*
- Need to accelerate development, to catch the turnaround of the EU operating reactors
- LFR recognised by EU SMR Industrial Initiative as a candidate technology for deployment

AMR Accessible Market



Assuming on average 350 MWe power per unit,
51 GWe corresponds to approx.
145 reactors installed by 2050.



ansaldo|nucleare



sck cen



RATEN



ENEA

Our Consortium, our roadmap

1

2000-2020

Distributed large experimental infrastructure

Industrial leader
Architect engineer and Program manager
Delivering nuclear projects since 1966

2 precursors developed largely
in parallel

2

2034

LEANDREA

Technology viability demonstration
Irradiation capabilities
Qualification of materials/fuels



Mol, SCK CEN



3

2038

ALFRED

Prototypical features
Reference temperature conditions
Demonstration of technology maturity



Pitești, RATEN



4

Early 2040x

Investment decisions for commercial reactors
no later than 2040 based on ALFRED



Standard site

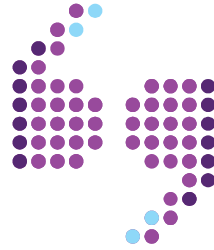


The key to competitiveness:

- standardized design
- factory made components

The SMR business model

- Our journey requires strong interaction with a new supply chain, able to join us in developing *not only new products*, but also *new ways to deliver*
- LEANDREA is the first opportunity to interact on a concrete project
- ...but it is only the first step of a longer journey to ***deliver an LFR fleet around Europe for decades***



Vincent Schryvers
Deputy Institute Director
Innovative Nuclear Systems

sck cen

Belgian Nuclear Research Centre



The LEANDREA Project



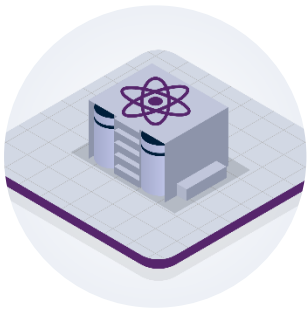
Belgium SMR-LFR programme

Programme structure, scope and timeline

On 20 July 2023, the Council of Ministers approved the work plan (5 years) for the development of SMR LFRs including in total 39 deliverables

SMR 1 Technology

Establish the **conceptual design**, perform the **pre-licensing** and execute the **support R&D**



SMR 2 Industrialization

Enable the industrialization of SMR-LFR: facilitation of a **supply chain**



SMR 3 Integration

Perform studies for the integration of SMR-LFR systems into the Belgian **energy mix**



What is LEANDREA?

Lead-cooled fast SMR – technology demonstrator

LEANDREA is Belgium's technology demonstrator for the first **lead-cooled fast Small Modular Reactor (LFR SMR)**, to be built at the SCK CEN site in Mol.

Belgian initiative to decarbonize Europe's energy supply.

A dual-purpose facility: a technology demonstrator and a test facility for fast-reactor materials and fuels.

Consortium: SCK CEN, Ansaldo Nucleare (Italy), ENEA (Italy) and RATEN (Romania).

First step toward EU-LFR-SMR, a commercial 300 MWe lead-cooled SMR targeted for roll-out by 2039.



High-Temperature, low-pressure Fast-Reactor



From R&D to the Commercial Fleet

Bridging the gap

R&D

> 20 yrs R&D on LFR
Extensive test facilities
in Belgium, Italy and
Romania

LEANDREA

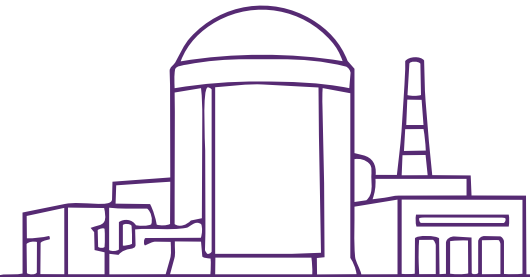
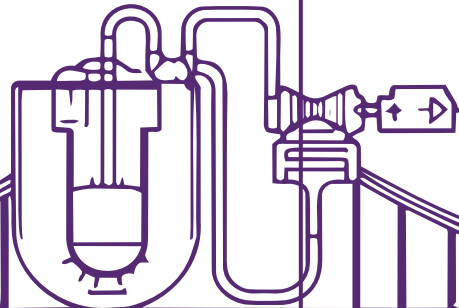
Mol
European's first dedicated fast
neutron test facility
Technological demonstrator
Fuel & Materials testing
Start: 2034

ALFRED

Pitesti (Romania)
Performance demonstrator
of the LFR technology
Start: 2037

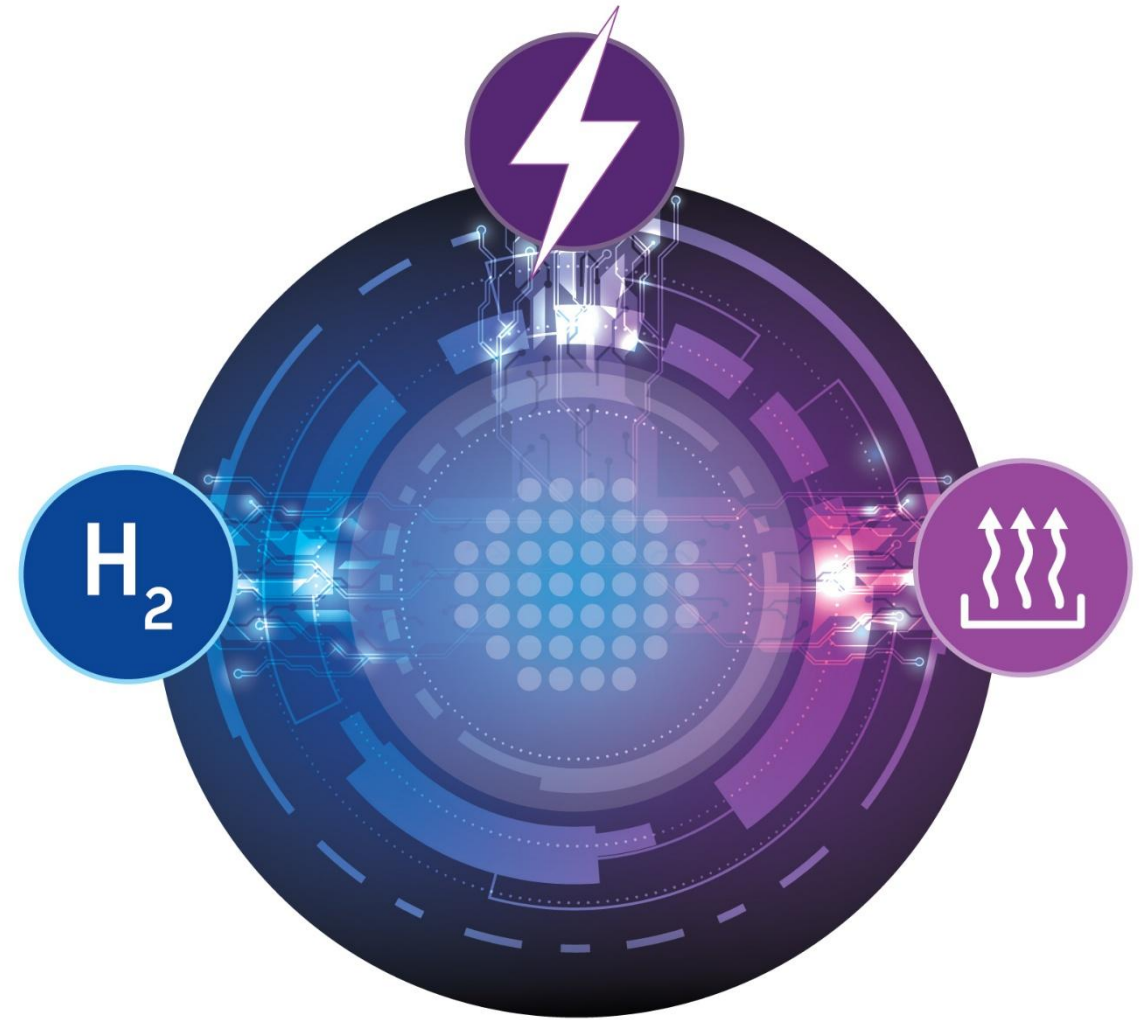
EU-SMR-LFR

Commercial deployment
in 2039



Flexible applications

Cogeneration
Electricity
Heat
Molecules



LFR Advantages



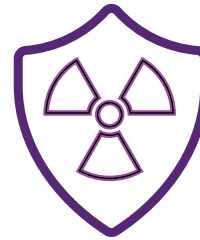
Liquid
at high
temperature



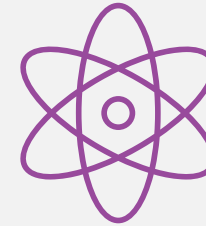
Large
heat
capacity



Chemically
inert



Radiation
shield
&
retention



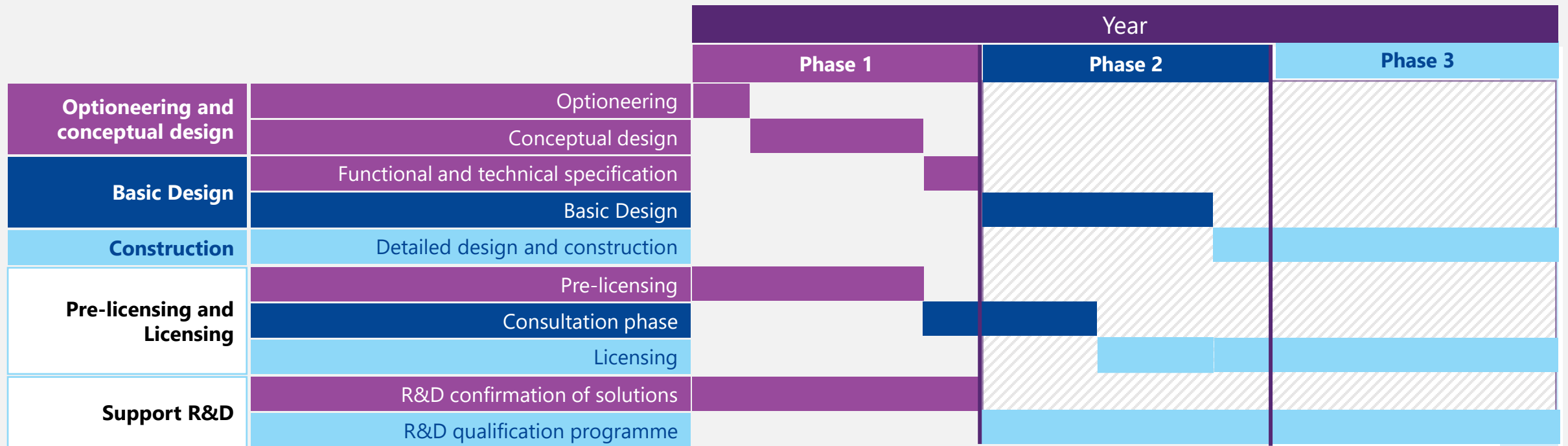
Low neutron
absorption
&
scattering



Breed
&
Burn

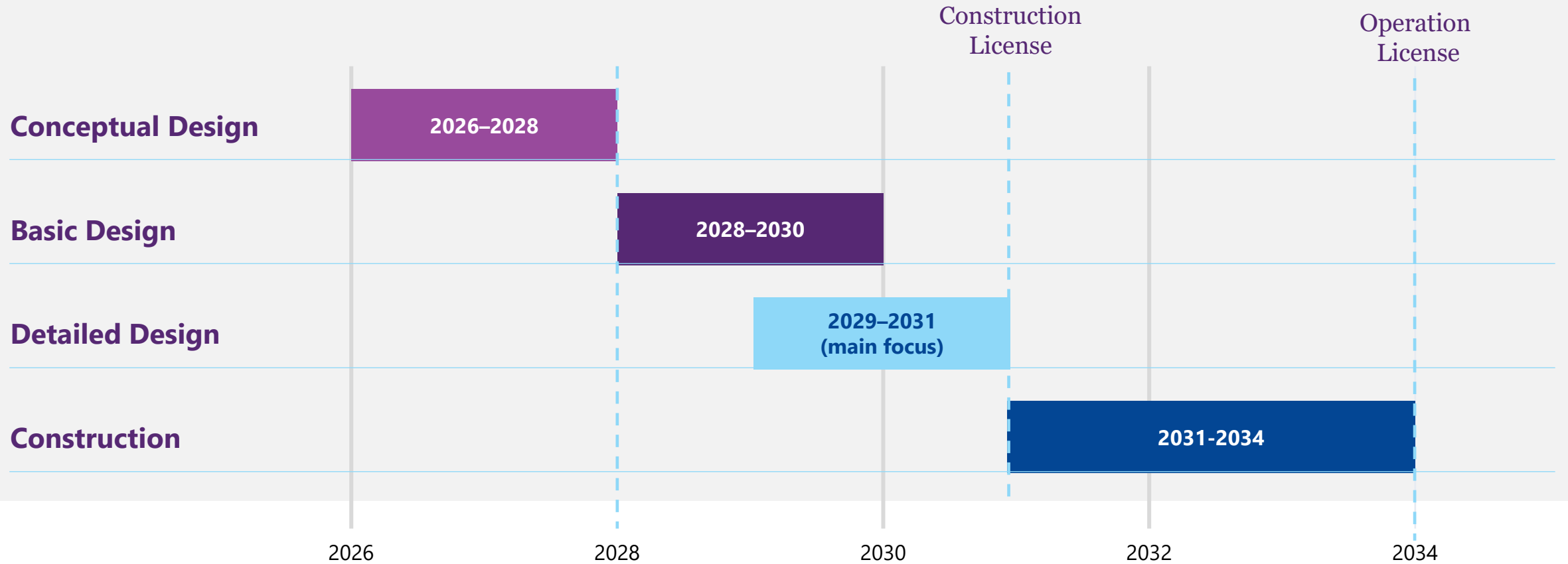
Planning in 3 phases

for a SMR-LFR TD construction



Based on the contributions of consortium partners an acceleration leading to a **planning targeting 2034** for the construction could be envisaged.

Indicative Project timeline



Where industry can contribute

Three integrated contract lots

Lot 1

Owner's
Engineer

Independent technical assurance,
project & construction management
support

Lot 2

Basic Design
Engineer

Basic design (NI + BOP)
Responsible designer (NI+BOP) incl.
design integration
Preparation of licensing-ready design
documentation.

Lot 3

Detailed design
& construction

Detailed design (NI+ BOP)
Construction (NI+BOP)
Procurement
Commissioning

INTEGRATED TEAM

Indicative activity timeline

All 3 lots tendered

Market engagement & tender preparation

2026–2028

Lot 1

Owner's Engineer

2028–2034

Lot 2

Basic Design Engineer

2028–2030
(main focus)

present to 2034

Lot 3

Detailed Design & Construction

2029–2034

2026

2028

2030

2032

2034

Activities open to the supply chain

The large majority of design and construction activities are open to competitive tender

1

Civil & structural works

Site preparation, containment building, balance-of-plant structures

2

Mechanical & primary systems

Primary circuit components, heat exchangers, pumps & valves

3

Lead-coolant technology

Specialist materials, corrosion protection, lead handling & instrumentation

4

Electrical, I&C & controls

Control systems, instrumentation, electrical distribution

5

Nuclear-specific systems*

Fuel-related equipment, shielding, safety systems

6

Engineering, commissioning & site services

Design support, testing, commissioning, site logistics

** A small number of safety systems and security-classified scopes fall outside open competition.*

Contractual options

Characteristic	EPC	Integrated Project Team (' <i>Bouwteam</i> ')	NEC4
Collaboration	Limited, conflict-prone	Intensive from the design phase onward	Strongly collaboration-oriented, alternative to the traditional conflict model
Responsibility	Fully with the contractor	Shared, client remains actively involved; challenging delineation of liability	Shared, with clearly defined roles
Risk allocation	Allocated to contractor, resulting in higher prices due to risk premium	Mainly addressed during design phase, but with limited incentives for risk and cost optimisation	Shared, with proactive risk management (early warnings)
Flexibility	Limited	High	Very high
Best suited for	Large-scale, standardised projects	Complex projects with changing scope and extensive stakeholder consultation	Complex projects, innovative approach
Culture	Traditional, results-oriented	Transparent, open collaboration	Contractually managed collaboration and risk management, with conflict prevention

Inspired by the NEC4 approach

SCK CEN considers structuring LEANDREA's contracts around the NEC4 suite – chosen for its collaborative, proactive approach to managing a first-of-a-kind, multi-partner nuclear project.

1

Collaboration

2

Risk Management

3

**Alignment of
Objectives**

4

Flexibility

A dedicated NEC4 session will provide further details on the proposed contracting approach

Procurement Strategy

Belgian Public Procurement Regulations

Competitive Procedure with Negotiation

Why this procedure?

- Complex first-of-a-kind nuclear project
- Allows optimisation of technical and commercial solutions
- Ensures both competition and flexibility

Procurement Strategy

Belgian Public Procurement Regulations

Competitive Procedure with Negotiation

Two-stage process

Stage 1: Selection

- Demonstration of capabilities and experience
- Shortlisting of qualified candidates

Stage 2: Tender & Negotiation

- Detailed proposals
- Dialogue and negotiation
- Final offer and contract award

Contract structure

Three
integrated
contract lots

Important

- Companies may express interest in multiple lots during market engagement
- To safeguard independence and competition, participation rules between lots will be defined in the procurement documents

Procurement: what happens next?

Indicative timeline

2 October 2026

LEANDREA
Supply Chain
Event

24 November 2026

Technical Webinar

2027

- Publication of Selection Guidelines
- Request for Participation
- Selection of Candidates
- Tender Documents Issued
- Negotiation & Final Tenders
- Contract Award

Today is the start of the engagement process



Procurement: what happens next?

Indicative timeline

Lot	Information		Selection	Tendering & Contracting			
	Supply Chain Event	Tech. Webinar	2027	2027 -			
Owners' Engineer	Today	24 November					
Basic Design Engineering	Today	24 November					
Detailed Design & Construction	Today	24 November					

How can you participate?

What should suppliers do now?

1

Stay informed

Register for upcoming webinars
Follow procurement announcements
- E-Procurement website
www.publicprocurement.be

2

Assess your capabilities

Assess your technical capabilities
and capacity

Identify relevant products,
services or expertise

Consider potential roles
within the LEANDREA supply
chain

3

Explore partnerships

Engage with potential consortium
partners, especially for Lot 3

Identify complementary
capabilities

Build relationships across the
supply chain

Focus today on understanding the opportunity, assessing your potential contribution and building the right partnerships. Detailed qualification requirements will be communicated in the procurement documents.

Communication & Market Engagement

How to engage with LEANDREA?

Supplier interactions with SCK CEN will take place through the appropriate project and procurement channels

All communications will be managed in line with public procurement principles, including transparency, equal treatment and non-discrimination.

No supplier will receive preferential access to information or influence over future procurement decisions

Our objective is to ensure a fair, transparent and competitive procurement process for all potential tenderers.

Communication & Market Engagement

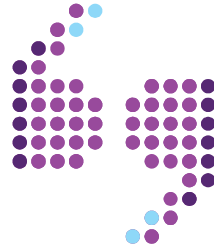
How to engage with LEANDREA?



leandrea@sckcen.be



**Stay
Connected!**



Matteo Greco

Head of Unit

Nuclear Technology Engineering

sck cen

Belgian Nuclear Research Centre

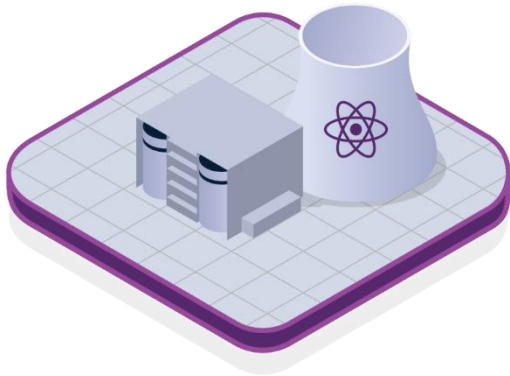


LEANDREA in practice: from design to construction

From Technological Concept to Full Scale Industrial Deployment



Defining high-level requirements

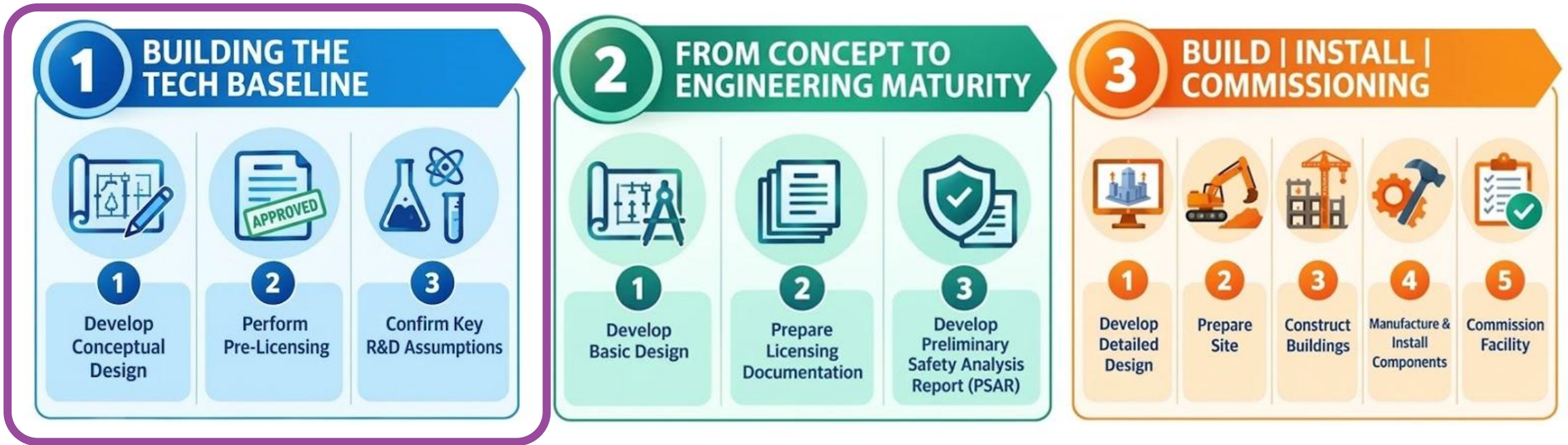


LEANDREA

- **Technology demonstrator**
Prove reliability & efficiency of lead-cooled reactor technology
- **Irradiation capacity**
Test fuels & materials for fast reactors and closed fuel cycle
- **Beyond electricity**
Produce sustainable, low-carbon molecules

LEANDREA: Project Lifecycle

From Concept to Operational Reality

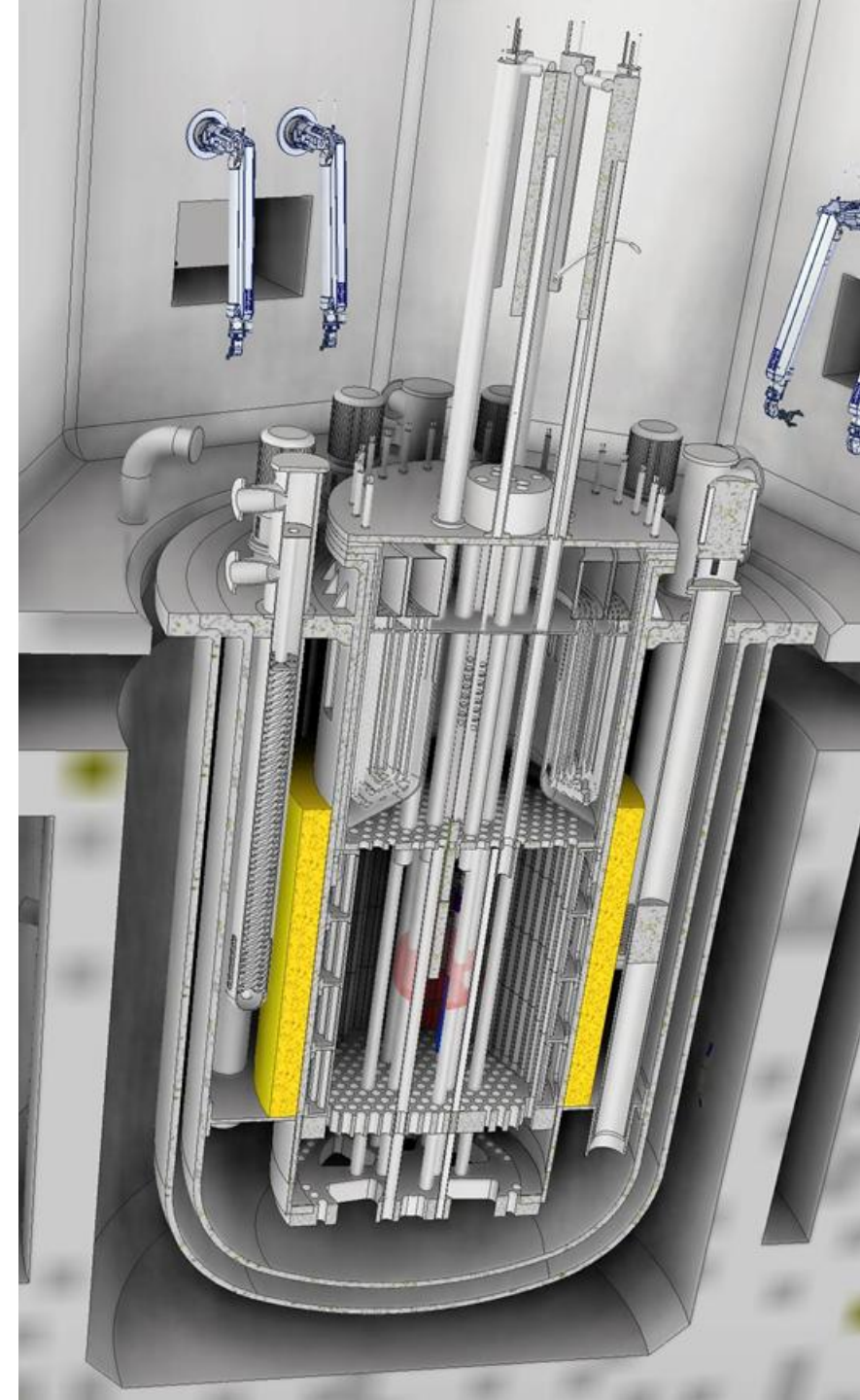


Every phase creates structured opportunities for engineering, manufacturing, and industrial partners

LEANDREA

Current design status

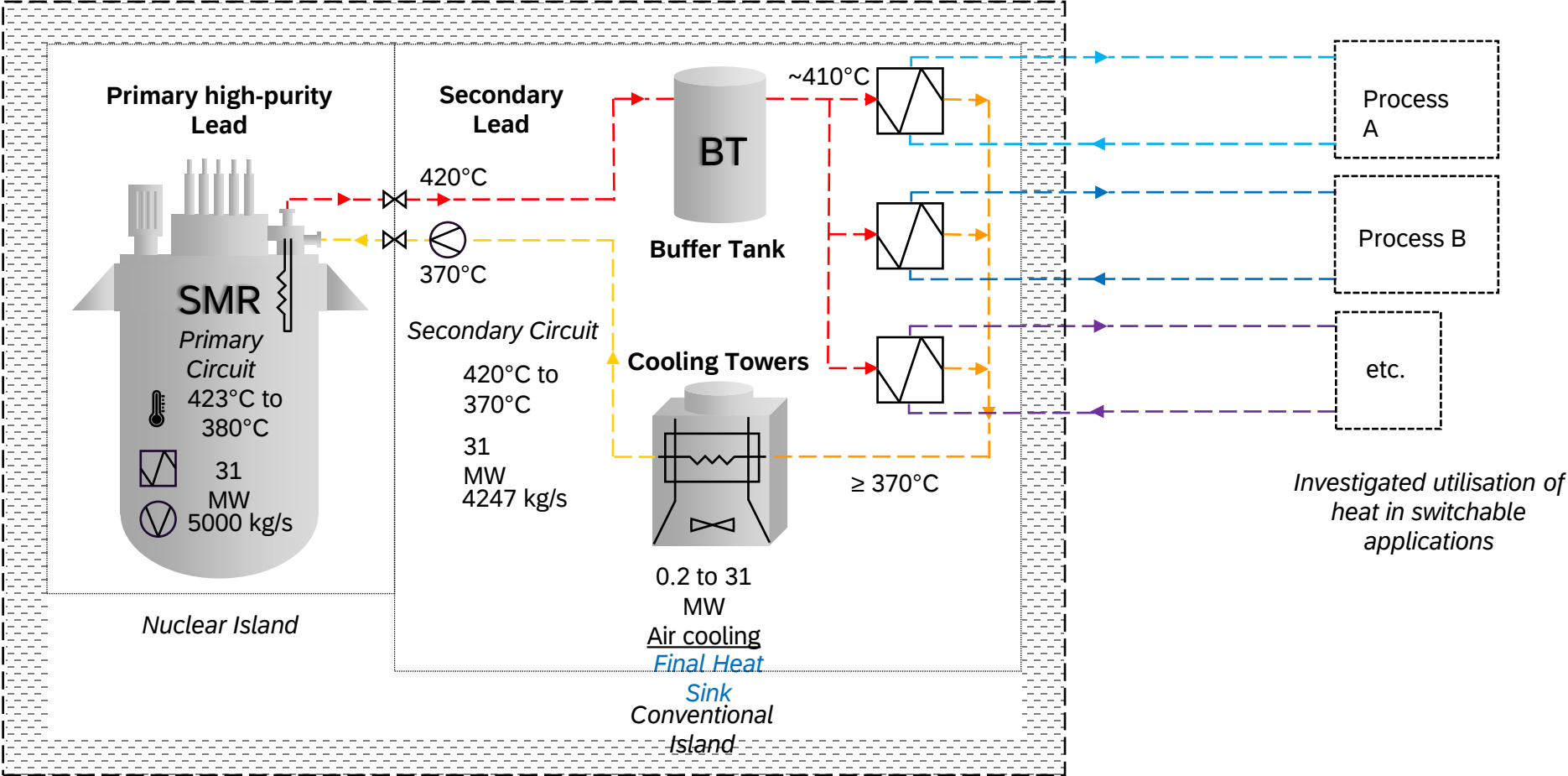
- **Pool-type LFR** → Lead coolant, double vessel
- **Compact core & heat removal** → 380–500°C
- **4 primary pumps** → Vertical-shaft mixed-flow
- **Passive safety** → Water – lead Heat exchangers
- **Lead secondary loop** → Heat utilisation & applications
- **Flexible core** → experiments - qualification
- **Licensing-ready core** → Design & Design Extension



LEANDREA

Current design status

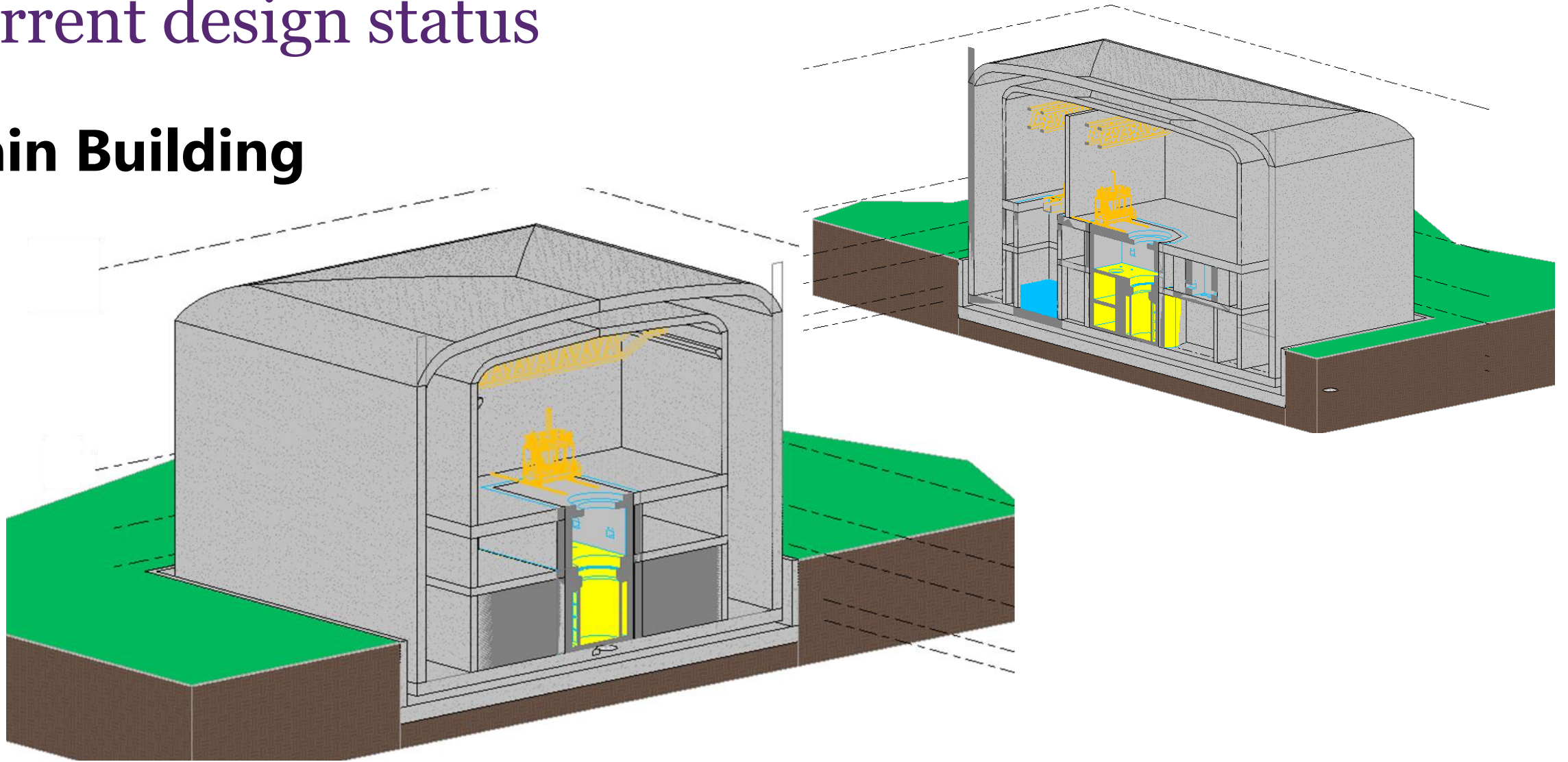
Reactor Heat utilization



LEANDREA

Current design status

Main Building





LEANDREA

Engineering Management

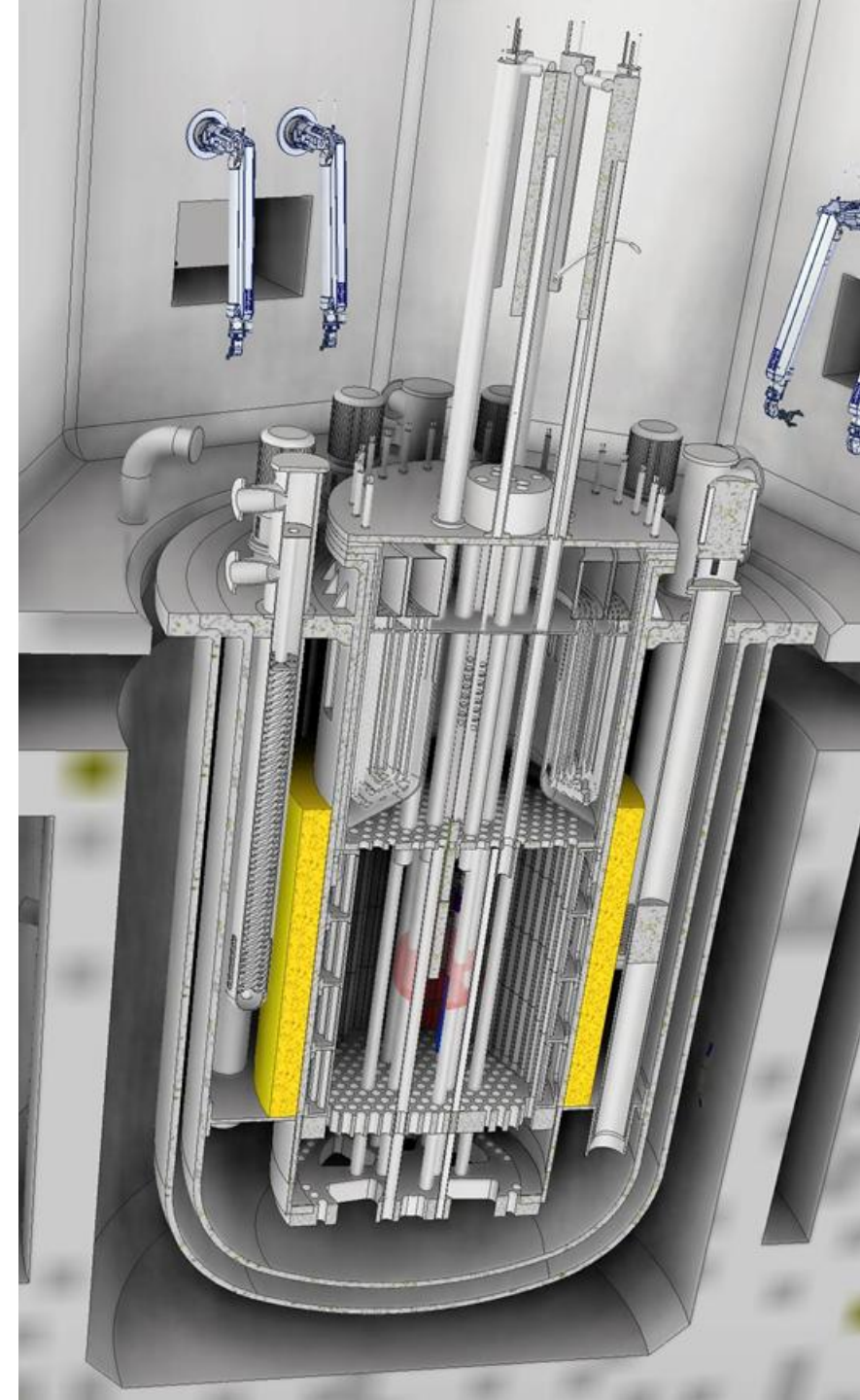


LEANDREA CD:

Transforming an advanced nuclear concept into a stable, integrated plant architecture ready for Basic Design

Current **Conceptual Design (CD)** together with 6 major industrial nuclear partners

Domain	Key Areas & Disciplines Involved
Nuclear	Core, fuel, neutronics, safety analysis, reactor systems
Mechanical	Vessels, Cover, pumps, heat exchangers, valves, piping, remote handling, fuel handling
Process & Utilities	Water systems, gas production and treatment, lead conditioning, waste handling, Power Conversion System
Buildings & Civil	Reactor building, spent fuel building, hot cells, shielding, HVAC, fire protection
Electrical & I&C	Power distribution, emergency power, instrumentation, control architecture

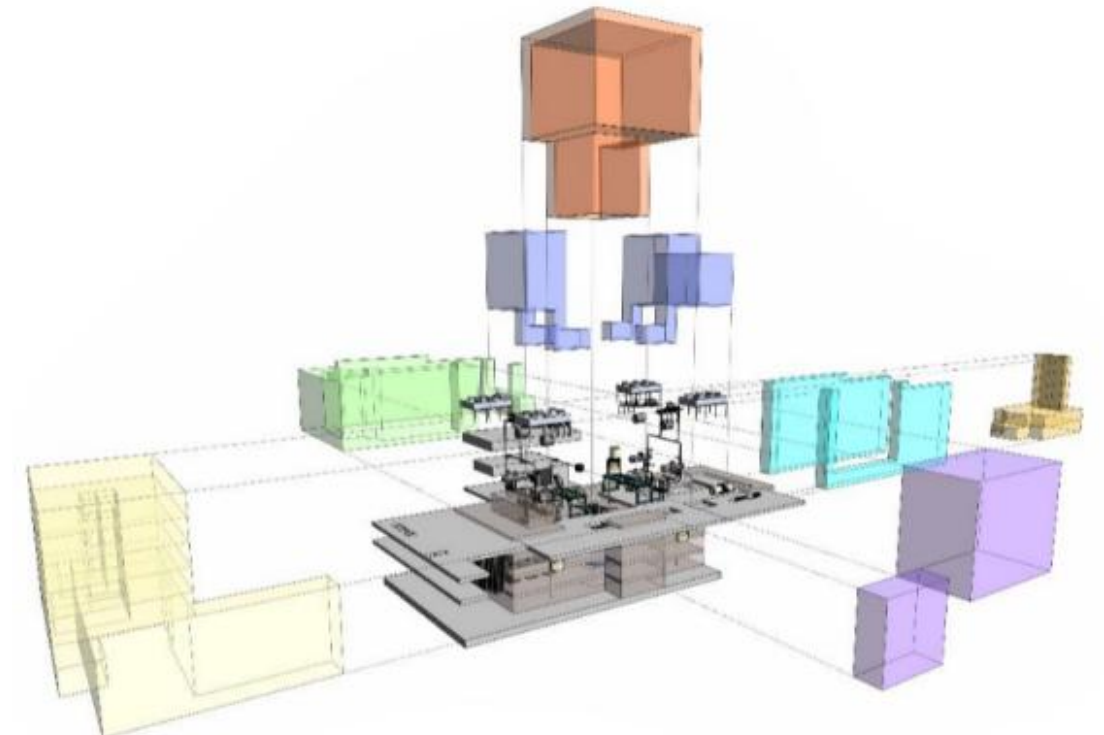


LEANDREA CD:

A Multidisciplinary Activity

Modularity concept

- **Modularity** as independent functional blocks:
Fuel Block, Reactor Block, HVAC Block, etc.
 - **Independent development** – blocks can be designed, studied and modified independently.
- **Modular equipment supply – skid-mounted tanks** delivered ready for installation.
 - Modular equipment can be installed, moved or replaced within the plant.



LEANDREA: Basic Design + Conventional License

Transform conceptual vision into a licensable, stable plant architecture

Engineering Companies

- **Safety & Licensing Baseline (PSAR)**
 - Preliminary Safety Assessment Report and environmental impact assessment
 - Geotechnical investigations
- **System Architecture**
 - Plant Layout & 3D Engineering & System Engineering
 - Electrical & I&C Engineering
 - Nuclear & Mechanical Engineering
 - Civil & Building Engineering
- **Long-Lead Procurement & Site Preparation**

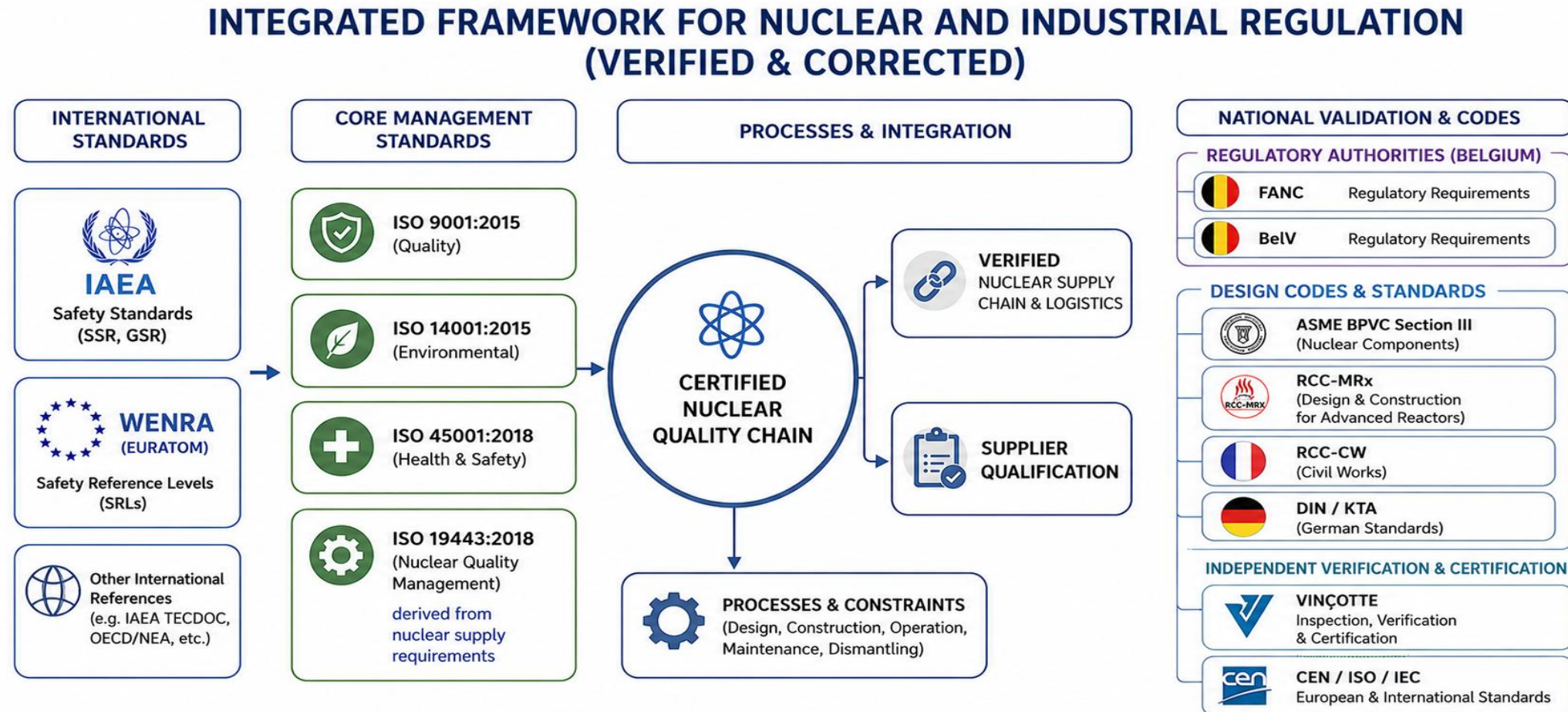


LEANDREA is not just a reactor design — it is a complete industrial project

Plant design baseline frozen and ready for detailed execution packages

LEANDREA: Basic Design

Standards & Compliance: Design codes &
Safety, Security, Safeguards integration



Plant design baseline frozen and ready for detailed execution packages

LEANDREA: Detailed Design

Convert plant specifications into construction and manufacturing blueprints

Engineering Companies

3D Model & Piping Isometrics

Clash-free spatial coordination, detailed routing, and fabrication drawings.

Mechanical & Civil Specifications

Vessel datasheets, rebar re-enforcement, structural supports, and seismic constraints.

Electrical & I&C Wiring Schematics

Cable schedules, distribution panels, and protection system logic diagrams.

Detailed Design, Procurement & Manufacturing, Construction & Integration overseen by the same **Entity**

Full technical package approved for procurement, manufacturing, and erection.



LEANDREA: Procurement & manufacturing

Turning Engineering Packages into Physical Equipment

Suppliers & Manufacturers

Nuclear Equipment

Pressure vessels, primary pumps, heat exchangers, and qualified valves.

Electrical & Power

Transformers, Power Conversion Systems, switchgear, and cabling.

Utilities & Structure

HVAC filtration systems, steel frames, penetration seals, and supports.

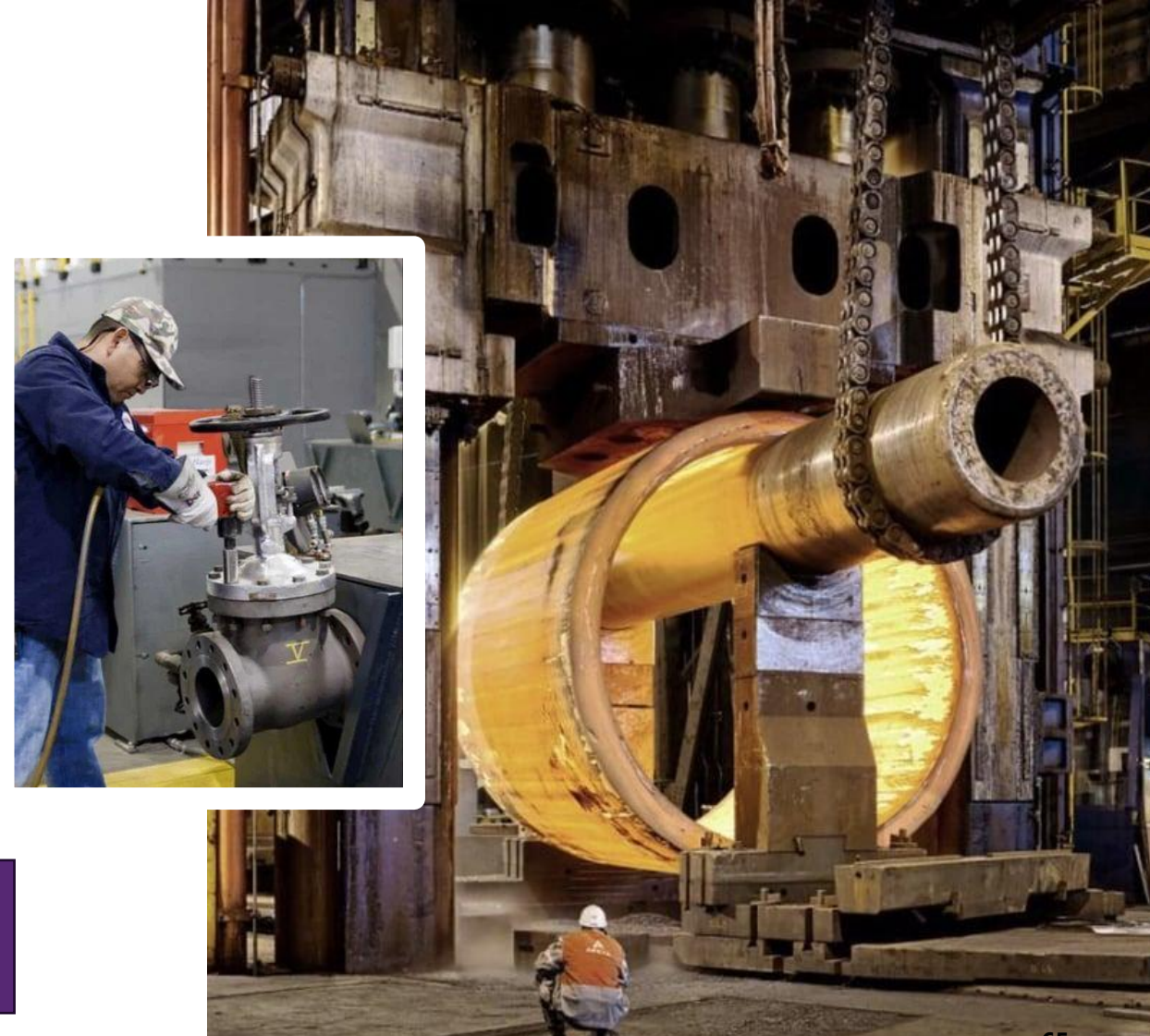
I&C Hardware

Sensors, protection cabinets, radiation monitoring, and control racks.

Metalworks & Fabrication

Metal structures, steelwork, supports, frames, platforms, stairs, doors, windows, and covers.

Detailed Design, Procurement & Manufacturing, Construction & Integration overseen by the same **Entity**



Factory Acceptance Tested (FAT) components delivered to site on schedule.

LEANDREA:

Construction & Integration

From Equipment Delivery to a Fully Integrated Plant

Suppliers & Construction Contractors

1

Civil Works & Shielding Structures

Building foundations, containment structures, and site infrastructure.

2

Mechanical Erection & Piping

Vessel positioning, loop alignment, and heavy equipment rigging.

3

Electrical & I&C Cable Pulling

Panel installation, sensor wiring, grounding, and power hookups.

4

Physical System Integration

Interface verification and mechanical completion sign-off.

Detailed Design, Procurement & Manufacturing, Construction & Integration overseen by the same **Entity**



Integrated facility transferred to commissioning team for functional testing.

LEANDREA:

Commissioning & Operation

From an Integrated Plant to Safe and Reliable Operation

Commissioning Specialists, Suppliers & Operators

01

Cold & Hot Functional Testing

System performance and safety logic verification prior to fuel loading.



02

Nuclear Loading & Power Ascension

Core loading, criticality testing, and grid power synchronization.



03

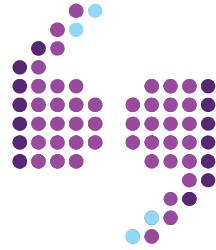
Operating License & Handover

Final regulatory approval and commercial handover to plant operators.



Fully licensed, grid-connected plant delivering safe clean power.





Amanda Meeder
NEC4 consultant and trainer



Introduction to NEC4

a new way of working together

New Engineering Contract, edition 4





NEC4: what & why

NEC4 characteristics

Flexibility

Wide range of model contracts
Payment options matching risks
Tailored risk allocation

Clarity & simplicity

Active and practical language
Clear risk identification
Do what the contract says!

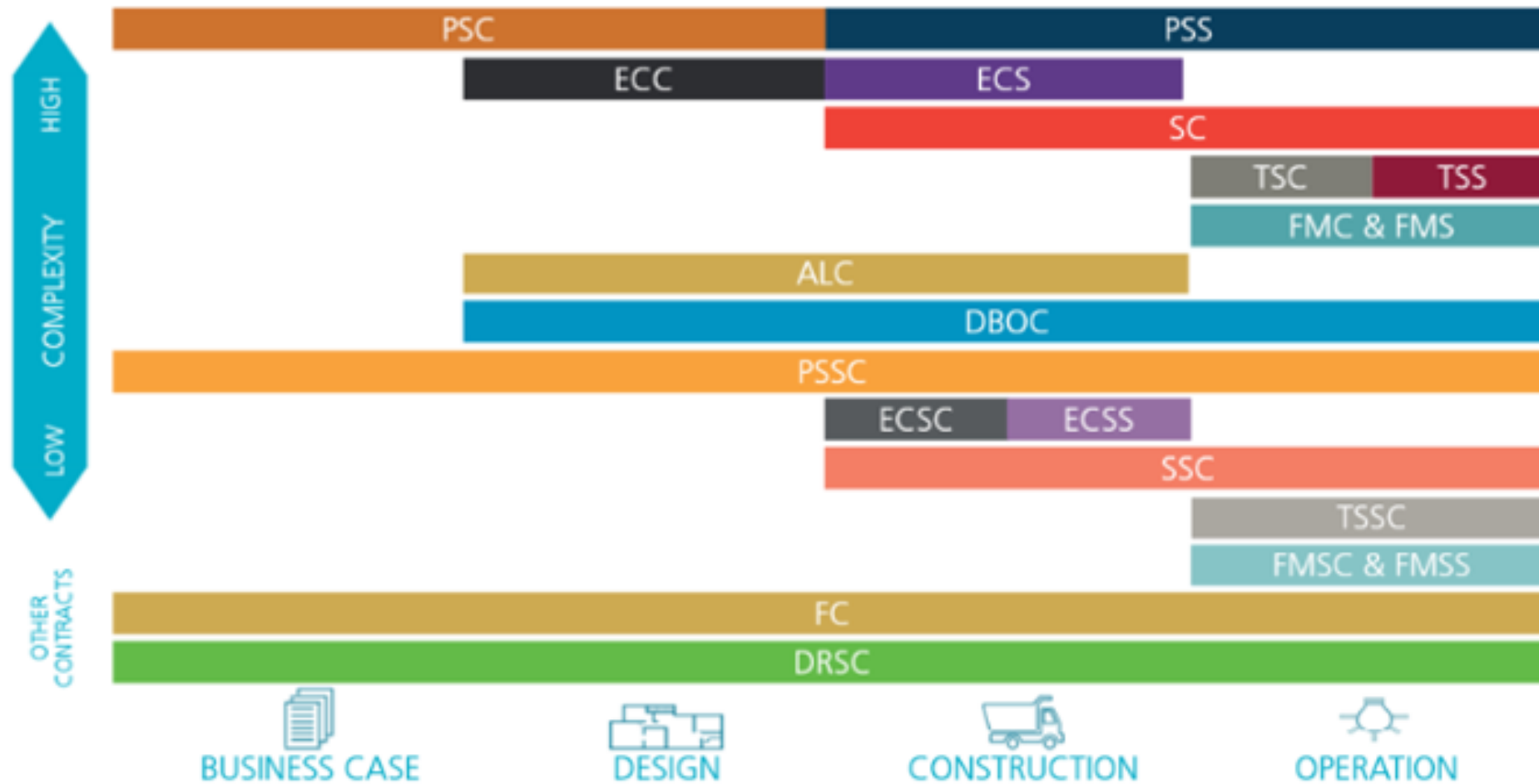
Good project management

Unambiguous mechanisms
Timely decision-making processes
Target Cost= trigger for shared 'gain'

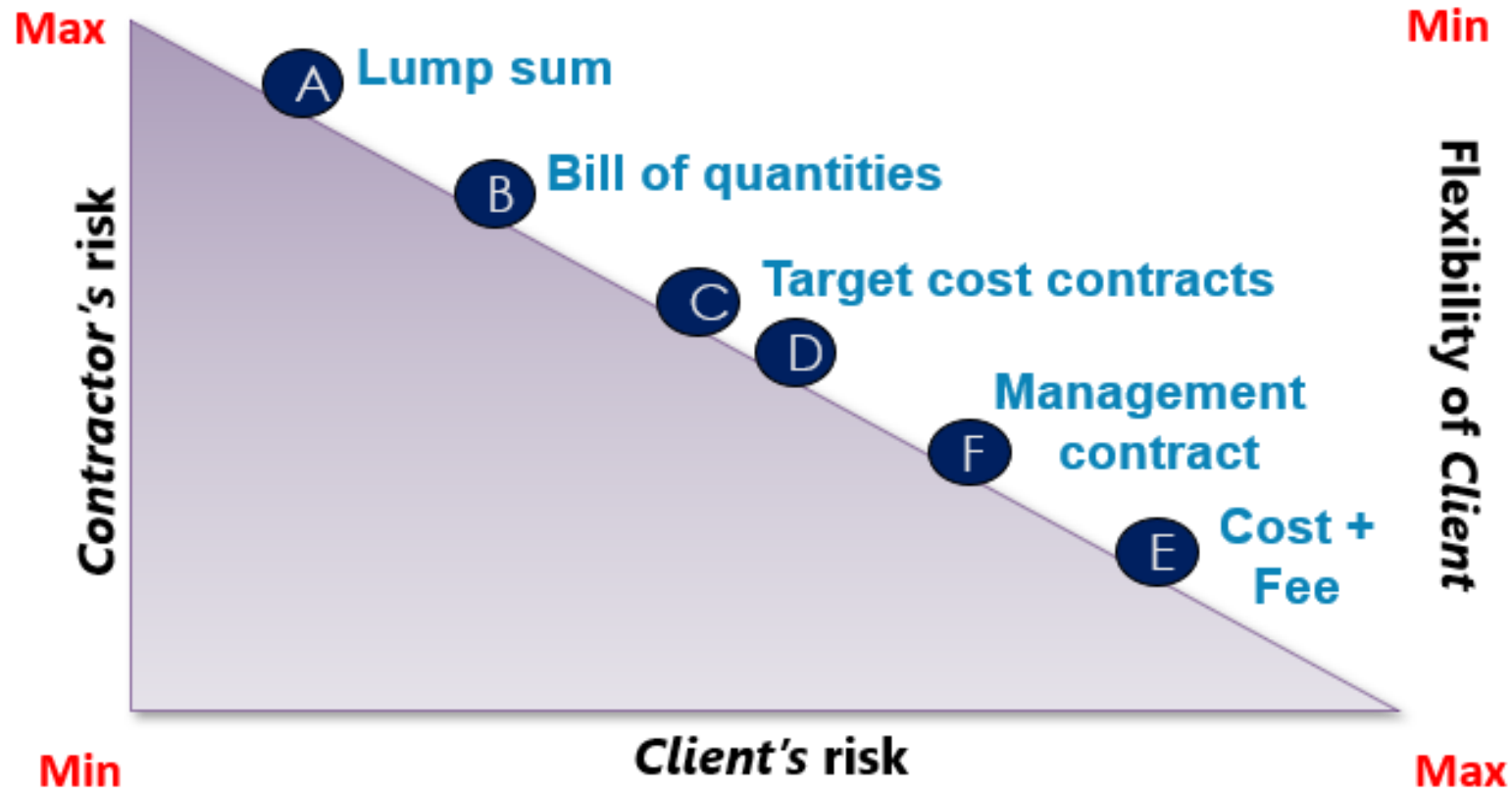
Value of NEC4

Proactive joint risk management
A 'win-win' approach (transparency)
Promotes collaboration & optimisation
Early contractor involvement possible

NEC contracts: when & where



Financial risk of main Options



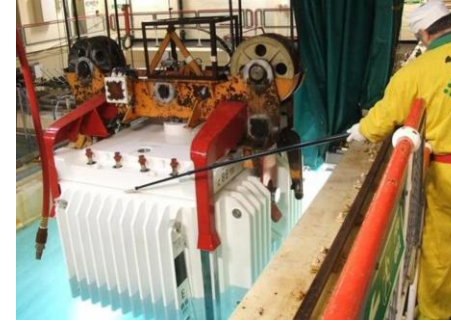
NEC-contracts in nuclear projects



Hinkley Point C (UK)
(ECC Option C, PSC, TSC & Alliance)



Sellafield decommissioning (UK)
(ECC Option E & PSC)



Magnox 12 nuclear sites decommissioning (UK)
(ECC/ECSC, FC, PSC, TSC & SC)



Pallas isotopes reactor (NL)
(ECC Option C)

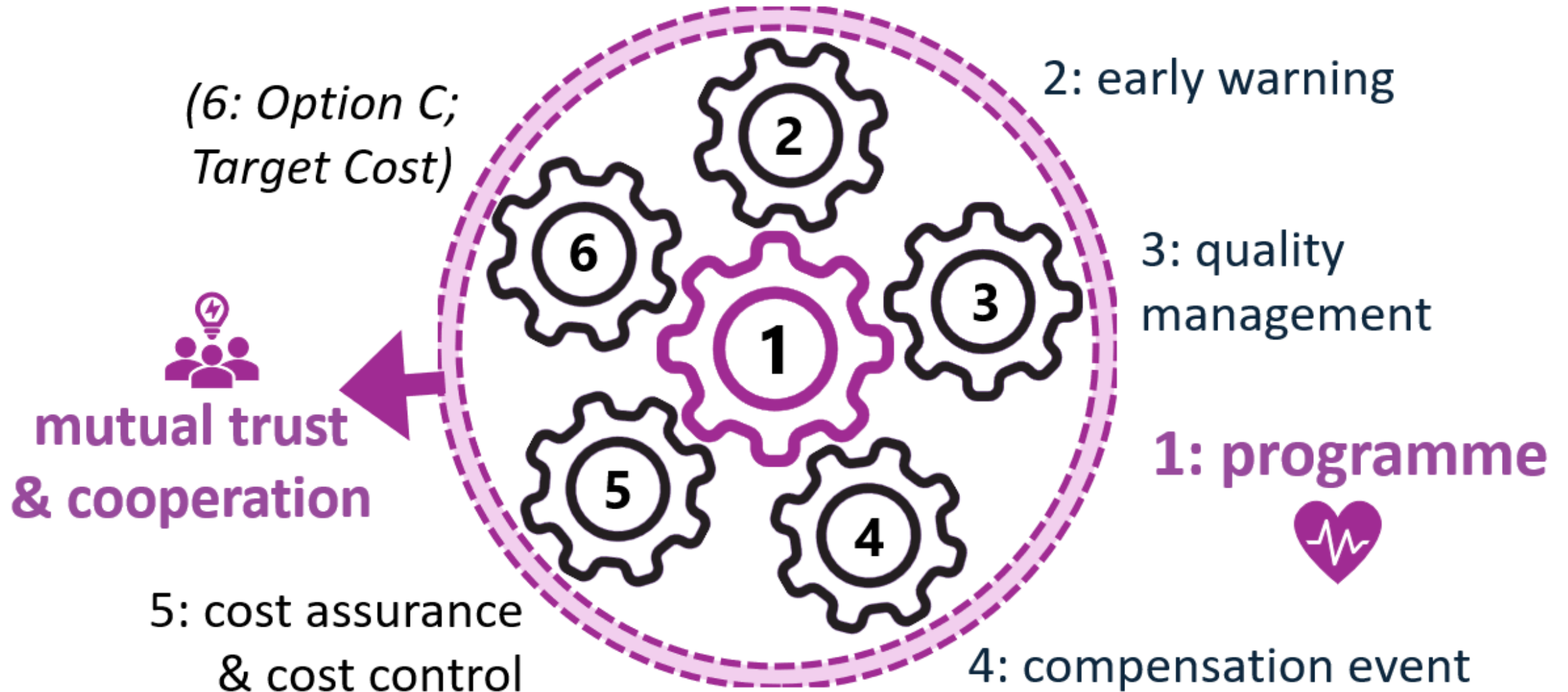
current NEC4-contracts in Belgium:



Oosterweel Link in Antwerp
(2x ECC Option C)



NEC4 core mechanisms

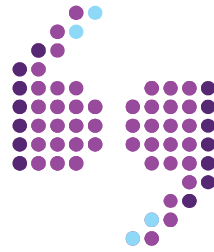


Conclusion

NEC4 benefits for (sub-)contractors & the whole supply chain

- Clear allocation of responsibilities and risks
- Early identification of potential risks
- Early contractor involvement possible
- Clear division of roles and responsibilities
- Timely and transparent decision-making processes
- Collaborative 'win-win' approach
- Minimizing failure costs of contractor through Quality Assurance
- Focus on continuity with minimal pre-financing by contractor
- Under payment option C: financial potential for shared 'gain'





Steven Verlinden

**Head of Safety, Security,
Health, Environment and Quality**

sck cen

Belgian Nuclear Research Centre



Nuclear specifities

Working on a Belgian Class I Nuclear Project

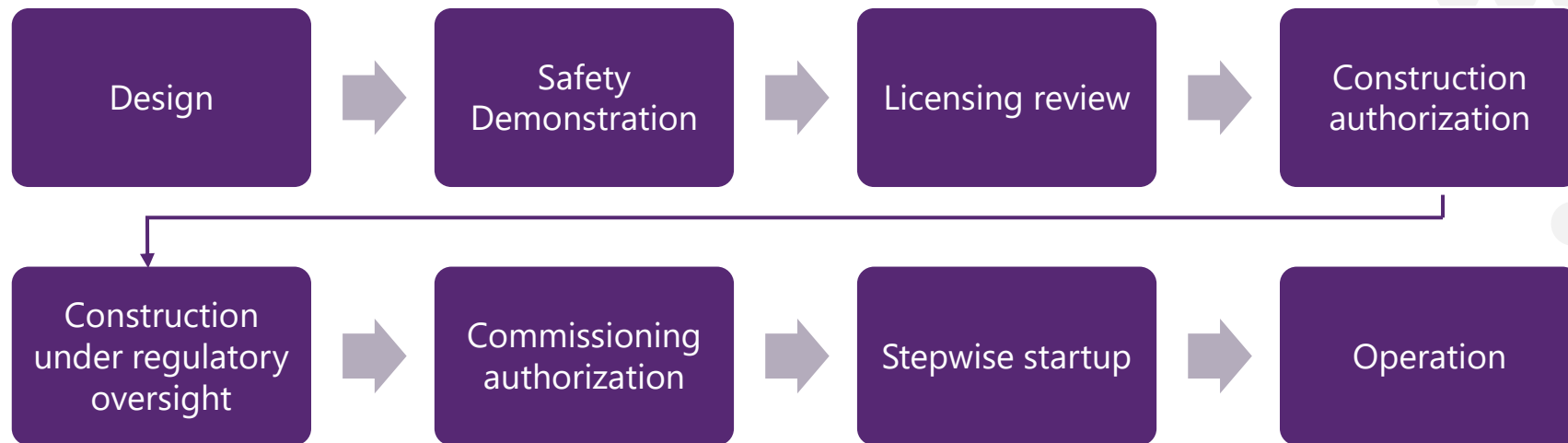
Understanding Licensing, Construction Oversight and Security Requirements



Why nuclear projects are different

Licensing and commissioning

- Conventional projects
Design → Build → Test → Operate
- Nuclear project



Why nuclear projects are different

The regulator expects evidence, not assumptions



Deliverables often become inputs to the safety case:

- Calculations
- Material certificates
- Inspection/test records

Traceability, Hold Points and Witness Points

The NIN-guidance establishes regulator expectations

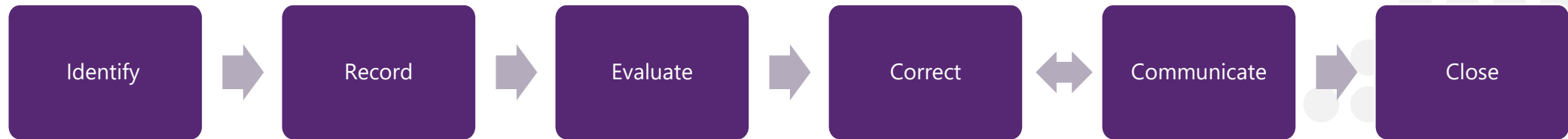
- Every important component should be traceable to:
 - Design requirements
 - Procurement/manufacturing records
 - Inspection/test records
 - Installation records
- Hold points: work cannot proceed until approval is granted
e.g. rebar inspection before concrete pouring
- Witness points: the regulator/notified body/customer may witness activities
e.g. commissioning demonstration
- Schedule assumptions must include inspection and release activities
➔ Failure to plan for these interactions creates avoidable delays



Non-conformities and Management of Change

Transparency in Reality Management

- A non-conformity is not necessarily a problem, an undocumented one is



- Disposition may include Correction, Use-as-is, Compensation
- Regulatory communication where required
- Closure with evidence

Non-conformities and Management of Change

Transparency in Reality Management

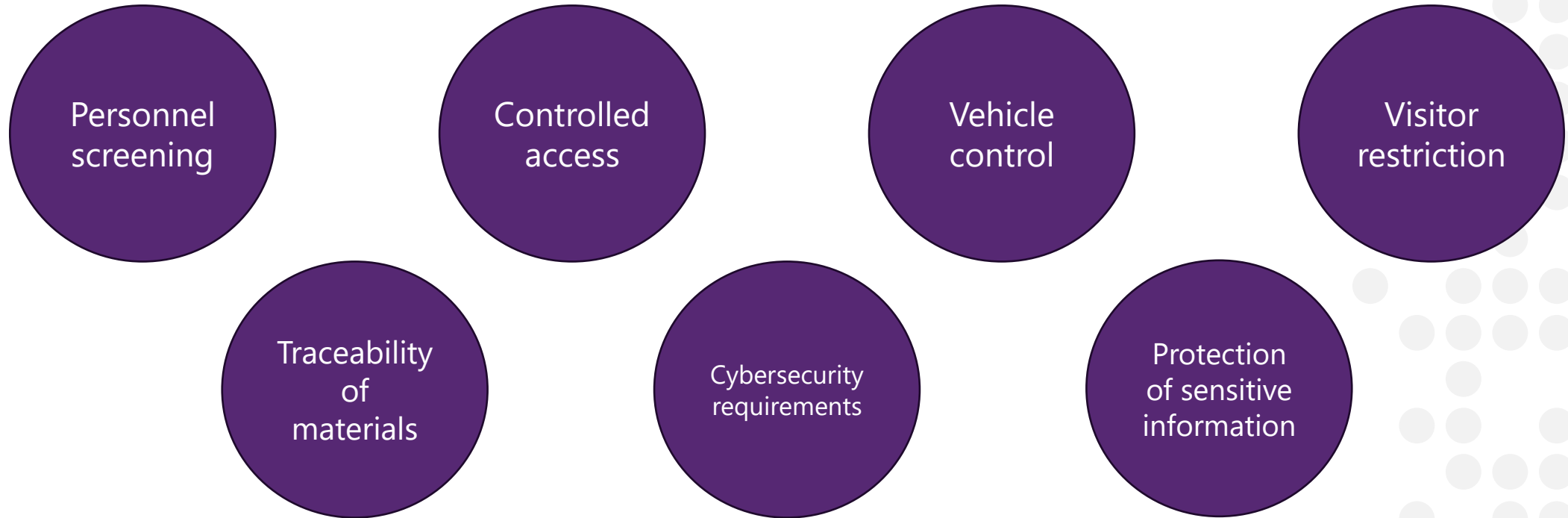
- Seemingly small changes can affect:
 - Licensing basis
 - Safety analysis
 - Qualification assumptions
 - Commissioning plans
- ➔ Changes therefore require formal review before implementation



Security on a Nuclear Construction Site

Requirements apply long before fuel is present

Typical expectations



Security on a Nuclear Construction Site

Building adjacent to, but outside, an existing Class I site

- **Advantages**
 - Experience
 - Reduced interference
 - Work outside nuclear protected zones
 - (Partly) Simplified access management
- **However, adjacent $\neq$ exempt...**
 - Progressive transition into a stricter security environment as commissioning approaches
 - Information protection (this starts early, e.g. procurement process)
 - Trustworthiness
 - ...



Final Takeaways

What suppliers should remember

Nuclear licensing drives the project

Construction completion $\neq$ regulatory readiness

Documentation is a deliverable

If it is not traceable, it effectively does not exist

Expect regulatory presence

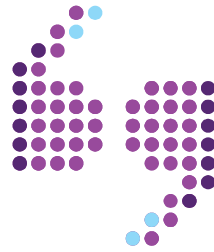
Inspections, witness and hold points are normal project activities

Manage deviations openly

Early reporting prevents larger issues later

Security requirements start early

Plan workforce screening and access arrangements



Serge Dauby
CEO

B E L G I A N
N U C L E A R
F  **RUM**



Future for Nuclear energy in Belgium



ACTUAL SITUATION OF THE BELGIAN NPP



BELGIAN COALITION AGREEMENT

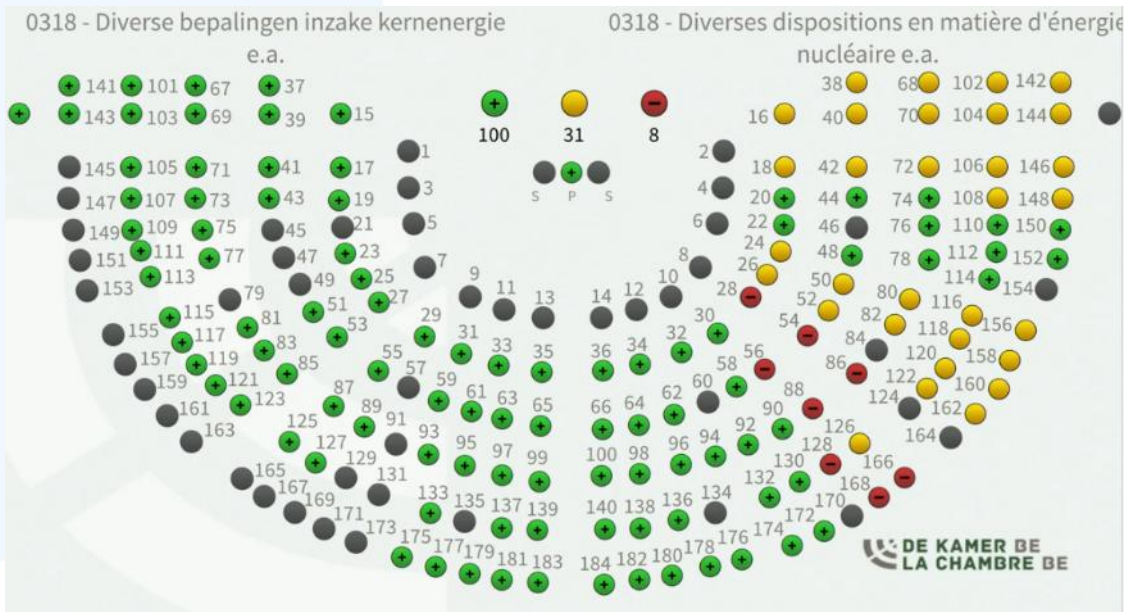
ACCORD DE
COALITION
FÉDÉRALE

2025-2029

- Nuclear power = a key component of the future energy mix
- **4 GW of nuclear power** in the mix
- Amend the nuclear phase-out law
- **Extend D4/T3 by at least a further 10 years (> 2045)**
- **Remove obstacles to facilitate and accelerate the construction of new nuclear reactors** without compromising nuclear safety requirements

AMENDMENTS TO THE NUCLEAR PHASE-OUT LAW

- 15 May 2025
- The “Bihe Law” approved in Parliament
- A convincing majority



DUE DILIGENCE PROCESS (OCT 2026)



Regering-De Wever sluit deal met Engie om alle Belgische kerncentrales te nationaliseren



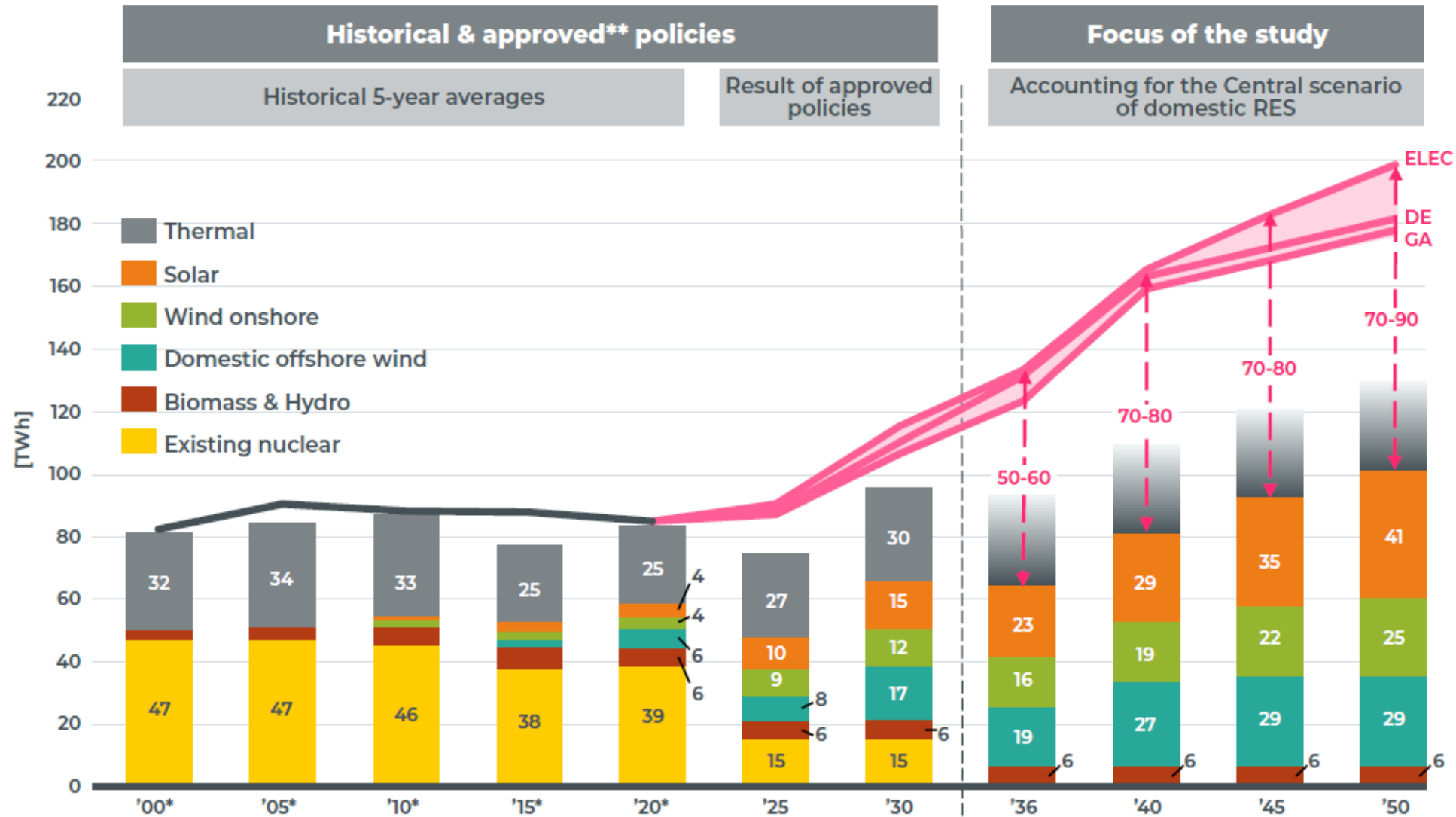
Premier Bart De Wever (N-VA) en minister van Energie Mathieu Bihet (MR). ©BELGA

ENGI
0.00% ☆

WIM VAN DE VELDEN, DAVID ADRIAEN, CHRISTINE SCHARFF

30 april 2026 08:02

INCREASING ELECTRIFICATION



* For year X, the 5-year average in the range [X-2,X+2] is shown instead

** Approved policies: Extension of offshore wind in Belgium to 5,8 GW, extension of D4/T3 for 10 years, National/Regional energy climate plans (domestic RES, electrification, energy efficiency...), CRM



BELGIUM'S NUCLEAR STRATEGY



1. LTO LIFETIME EXTENSION OF EXISTING REACTORS



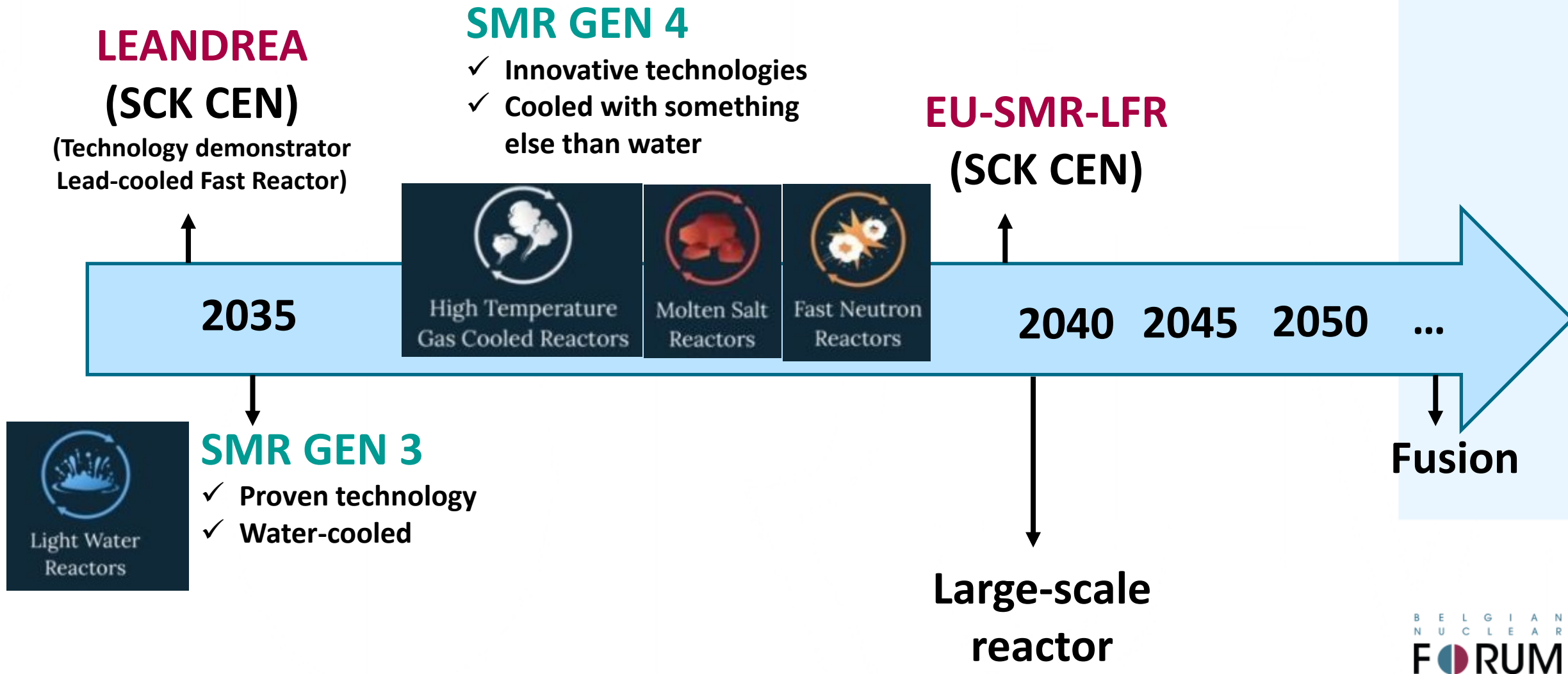
2. DEPLOYMENT OF NEW SMR's (SMALL MODULAR REACTORS)



3. CONSTRUCTION OF NEW LARGE REACTORS

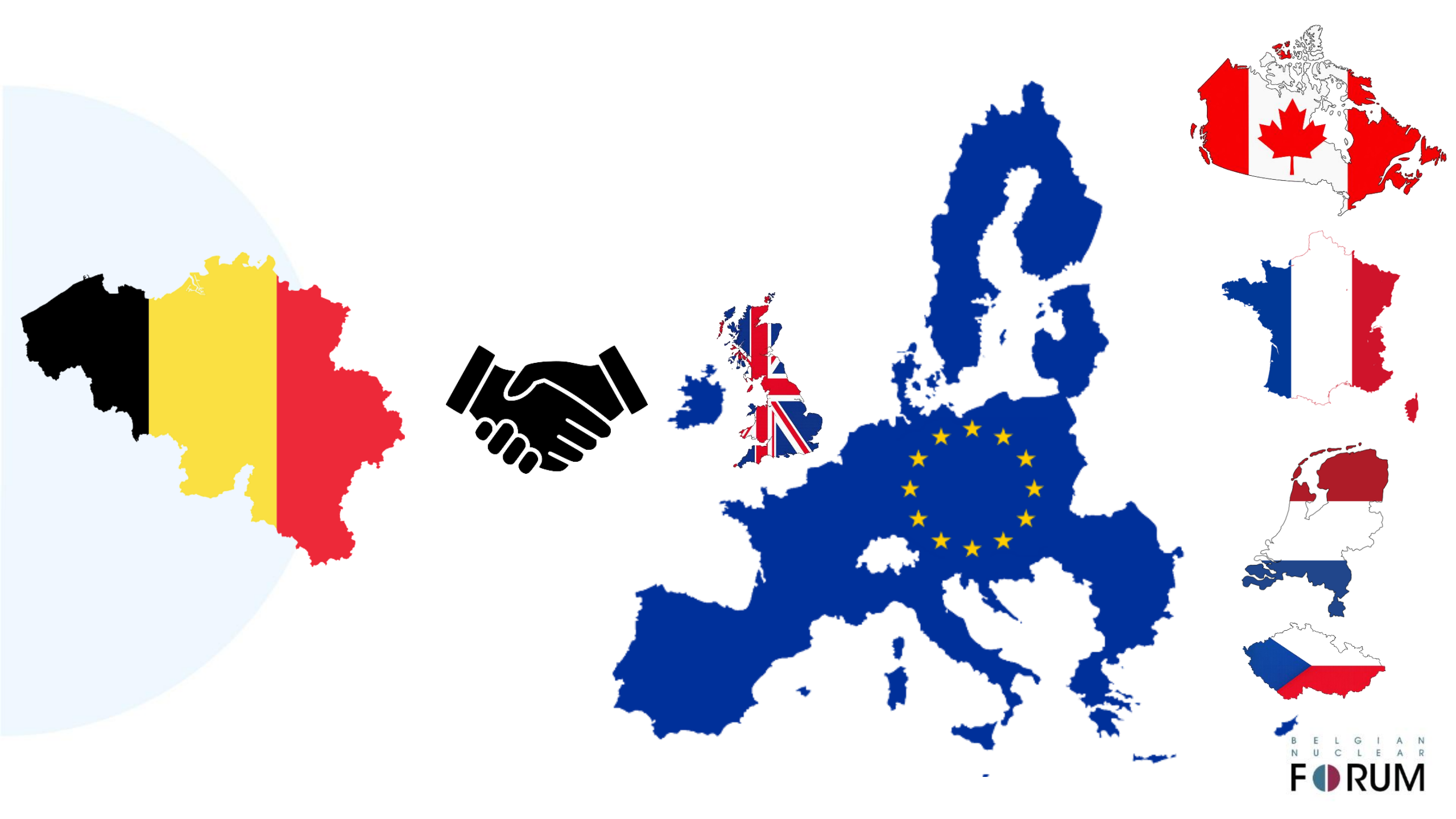


TIMELINE IN BELGIUM – POTENTIAL ROADMAP



BIGGEST CHALLENGE: REINFORCING THE SUPPLY CHAIN





LEANDREA

Building Belgium's First
Lead-Cooled Demonstration Reactor

**Stay
Connected!**



We look forward to
continuing the conversation.

Copyright © SCK CEN

PLEASE NOTE!

This presentation contains data, information and formats for dedicated use only and may not be communicated, copied, reproduced, distributed or cited without the explicit written permission of SCK CEN.

If this explicit written permission has been obtained, please reference the author, followed by 'by courtesy of SCK CEN'.

Any infringement to this rule is illegal and entitles to claim damages from the infringer, without prejudice to any other right in case of granting a patent or registration in the field of intellectual property.

SCK CEN

Belgian Nuclear Research Centre

Foundation of Public Utility

Registered Office: Avenue Herrmann-Debrouxlaan 40 – BE-1160 BRUSSELS

Operational Office: Industriezone Boeretang Zuid - Boeretang 190 – BE-2400 MOL