



Efficient solutions for a responsible management
of radioactive materials and waste

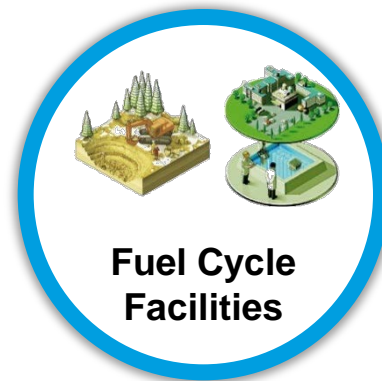
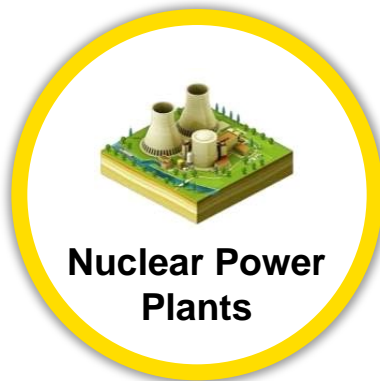
Operation of nuclear facilities and D&D

Dominique Mockly

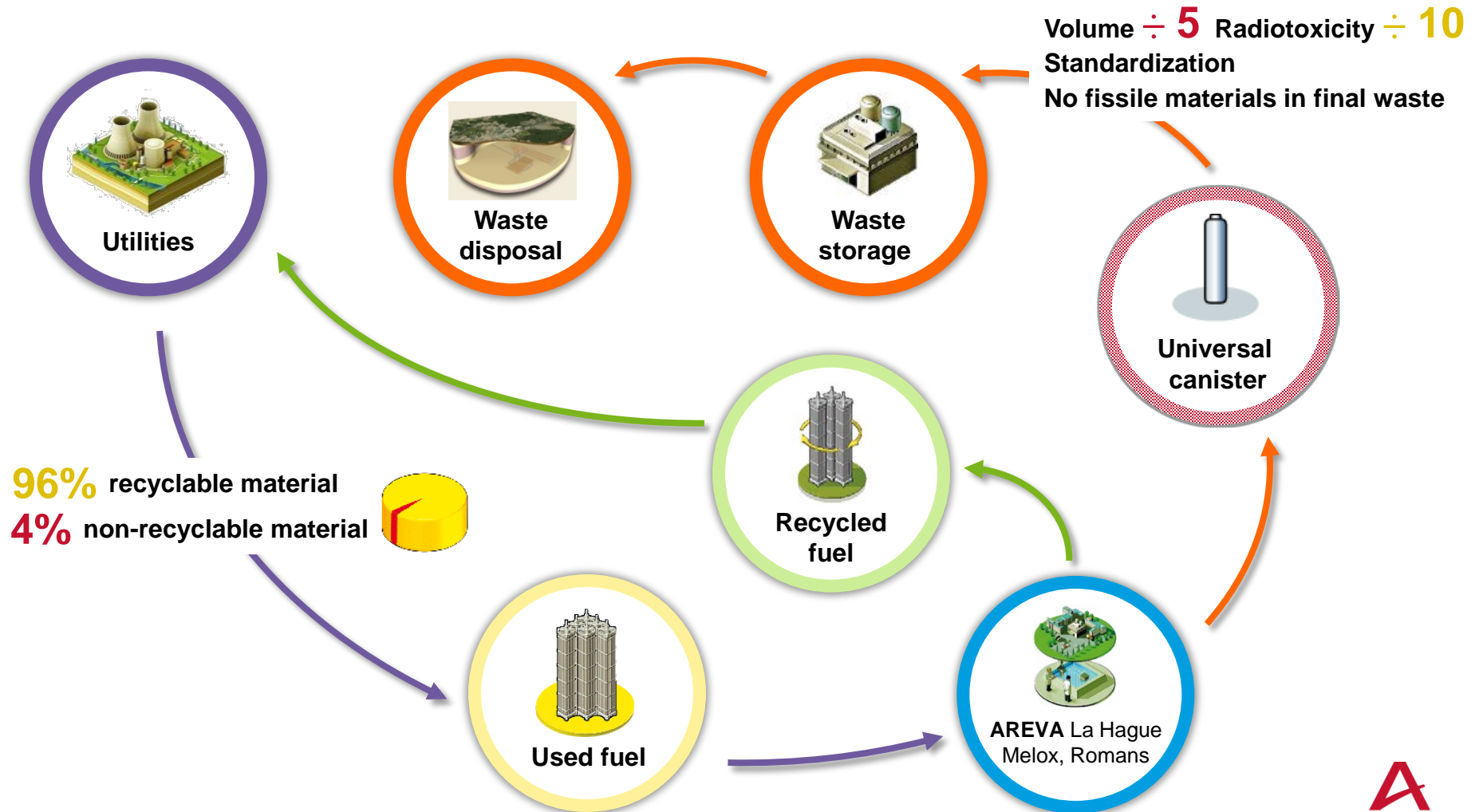
Senior Executive Vice President
International Development



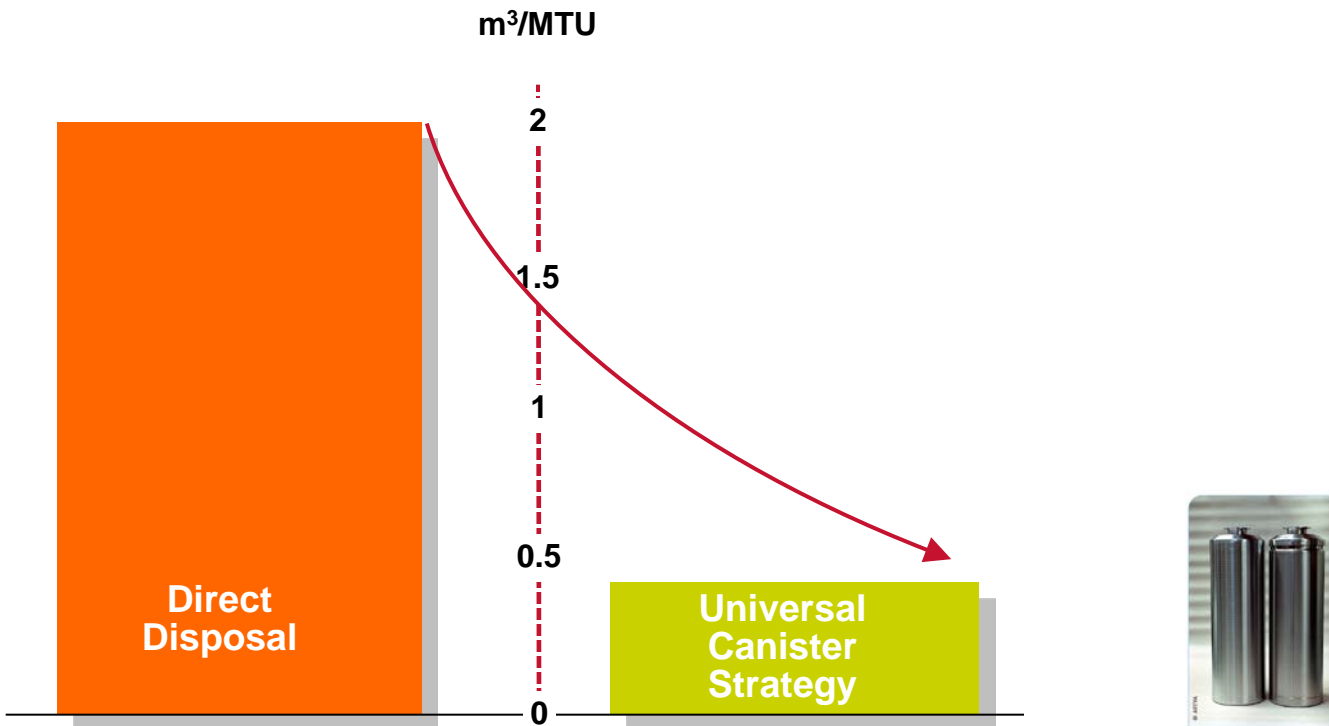
Ensuring Consistency in Waste Management Solutions



Used Fuel Recycling at the Heart of the French Nuclear Program

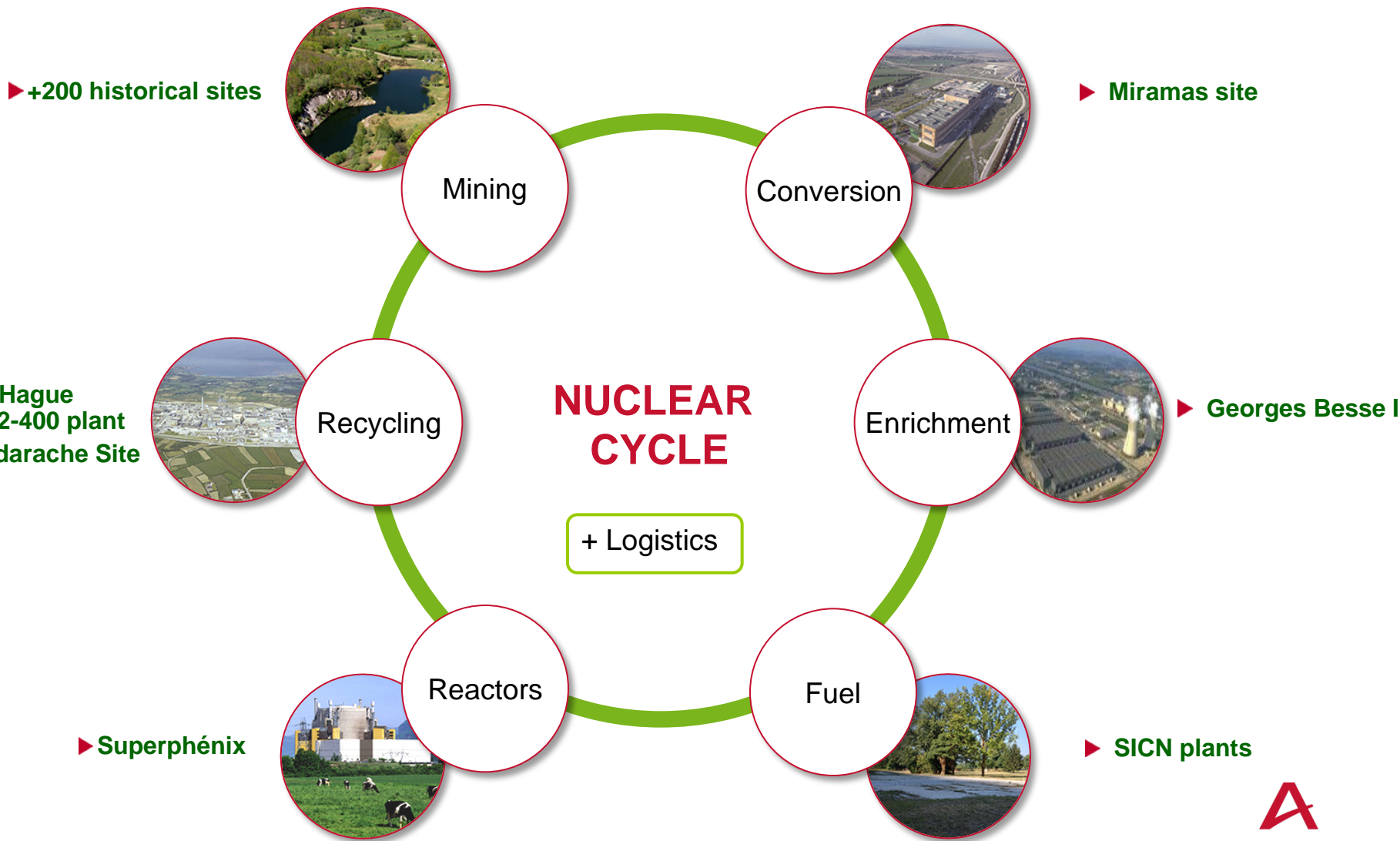


The «Universal Canister Strategy»



➤➤ **RECYCLING + UNIVERSAL CANISTER STRATEGY = DRASTIC WASTE VOLUME REDUCTION**

Capitalizing on the Decommissioning & Dismantling of French Sites, and notably AREVA Facilities



La Hague UP2 – 400: First Dismantling Project of a Civil Used Fuel Recycling Unit

► Description

“A massive Decommissioning & Dismantling program to manage diverse, complex issues (waste retrieval, ponds, silos, concrete buildings, process equipment... in high Rad environment).

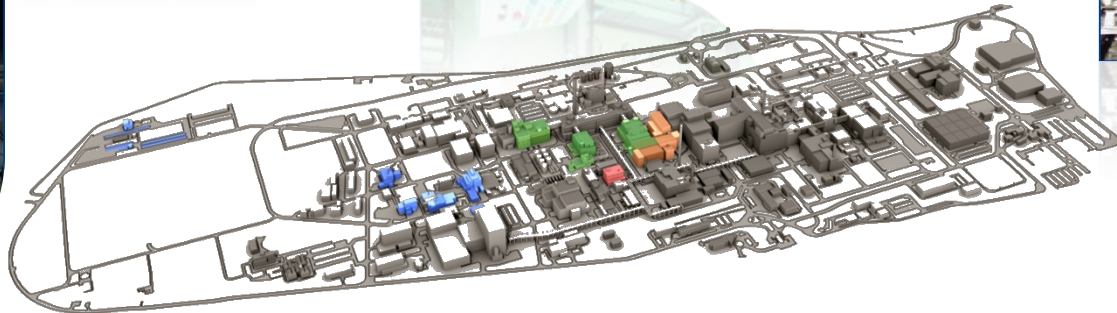
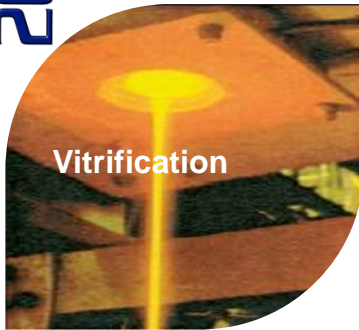
► The key facts

- ◆ A huge program combining waste retrieval and Decommissioning & Dismantling
- ◆ €4Bn of planned expenditures for a project set to last over 25 years
- ◆ More than 500 staff at peak
- ◆ 50,000 m³ of waste to evacuate
- ◆ 6,000,000 working hours

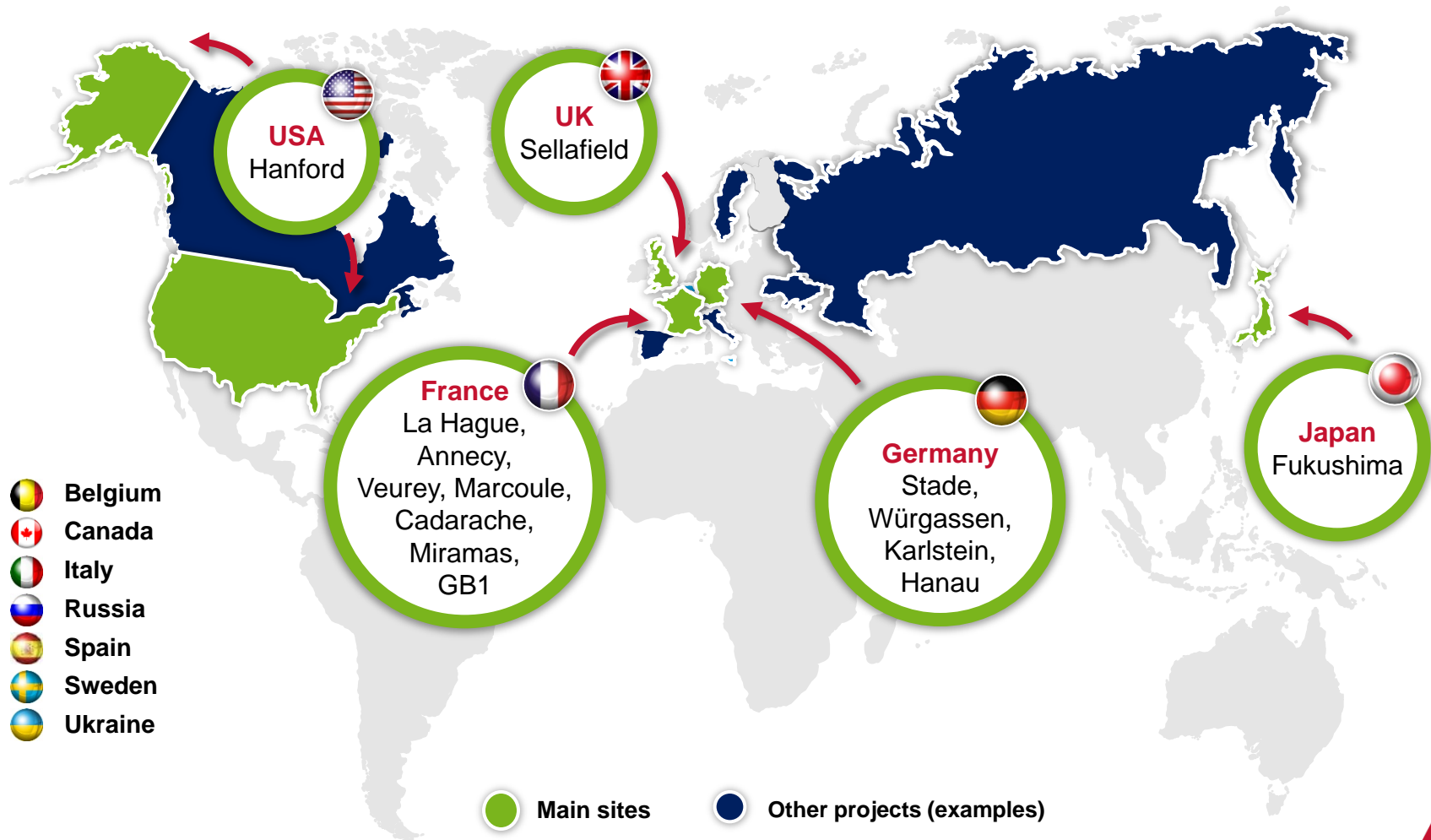


A Broad Range of Processes for Waste Conditioning

Examples from the La Hague Plant



Leveraging Decommissioning & Dismantling Competencies in Complex Projects Across The World



Meeting Safety, Technological, Operational and Cost Challenges

+++ Strong
++ Medium
+ Low

| | Key Competitiveness Drivers | | | |
|---------------------------------|-----------------------------|------|-----------------------|----------------|
| | Technical/ Project mgmt. | Cost | Nuclear capability | Waste mgmt. |
| Engineering companies | ++ | ++ | ++ | + |
| Construction companies | ++ | +++ | + | + |
| Industrial services | + | +++ | + | ++ |
| Nuclear owners/ operators | ++ | ++ | +++ | +++ |

- ▶ **Moving forward with the implementation of waste solutions is crucial to sustaining nuclear programs**
- ▶ **Recycling is:**
 - ◆ key to optimizing the overall waste solution
 - ◆ a lever for designing & implementing solutions for all types of waste
- ▶ **Carrying out Decommissioning & Dismantling projects *safely and efficiently* is part of the global solution**
 - ◆ Complex issues to be resolved, huge financial amounts at stake, strong needs for high level competencies
- ▶ **Increase efficiency through:**
 - ◆ Nuclear operator core skills
 - ◆ Cross-fertilization of experiences and skills
 - ◆ Ability to act as a Complex Project Owner/an Architect Engineer/a Prime contractor and a Nuclear Operator

