Decommissioning
The World-wide Challenge

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Presentation to the IAEA Scientific Forum - Nuclear Power Life Cycle Management

Liability Management

- **World-wide Task**
- **Current Activities**
- **Technologies and Lessons Learned**
- **The Challenges Ahead**

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World-wide Task

World-wide, the following nuclear facilities have been retired from operation and are either awaiting or undergoing decommissioning:

- **93** commercial power reactors
- **22** research reactors
- **5** reprocessing facilities
- **14** fuel fabrication plants and
- **60** mines

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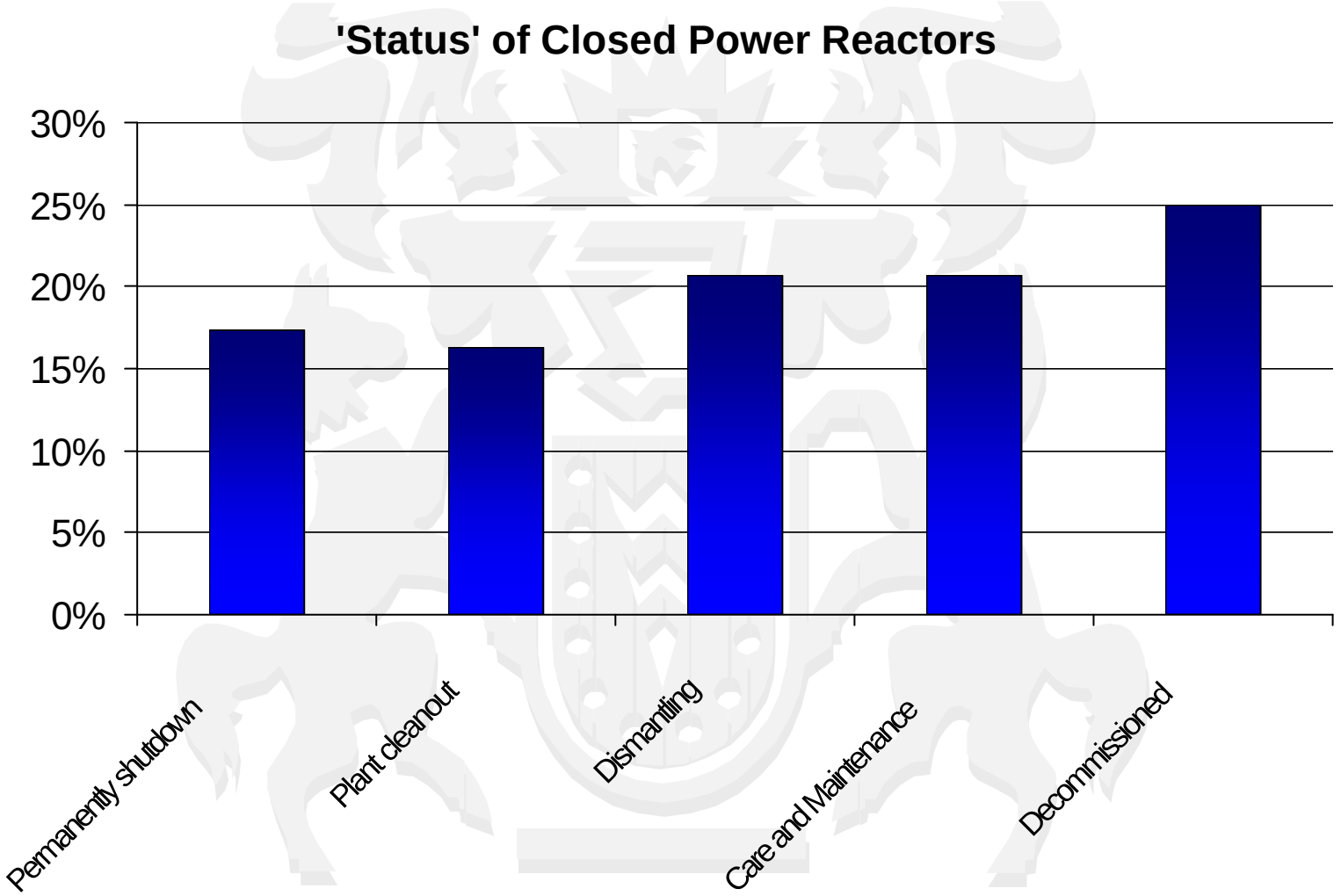
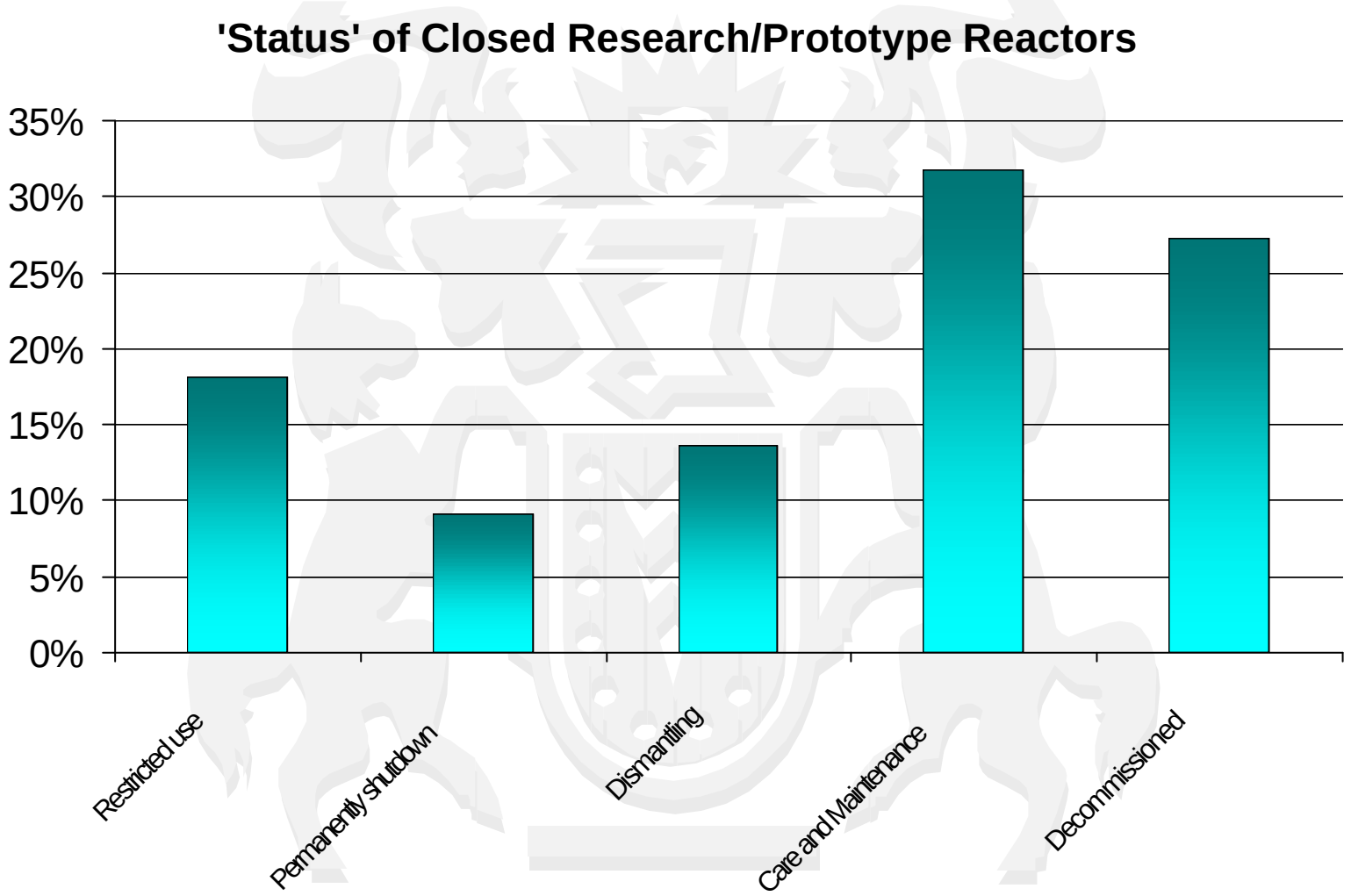
Source - World Nuclear Association, Decommissioning Database, Sept 02

Current Activities



Source - World Nuclear Association, Decommissioning Database, Sept 02

Current Activities



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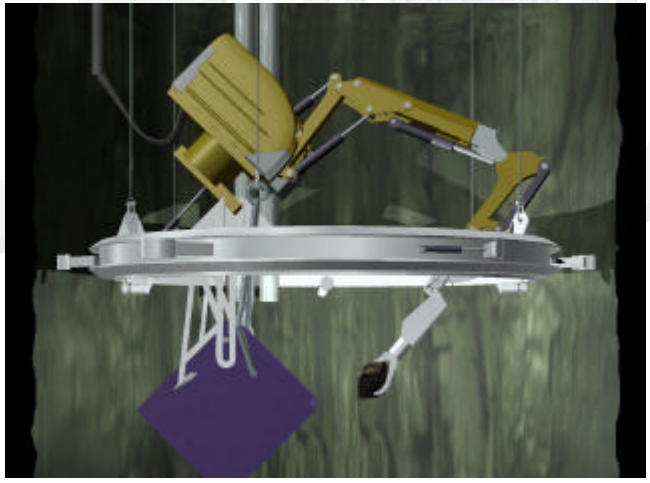
Technology and Lessons Learned (1)

- Simple is Best
- Where possible, use commercially available equipment - adapting as necessary
- Test remote operations in a mock-up facility



- manage waste to meet existing and final disposal requirements
- Segregate waste to minimise cost and resources

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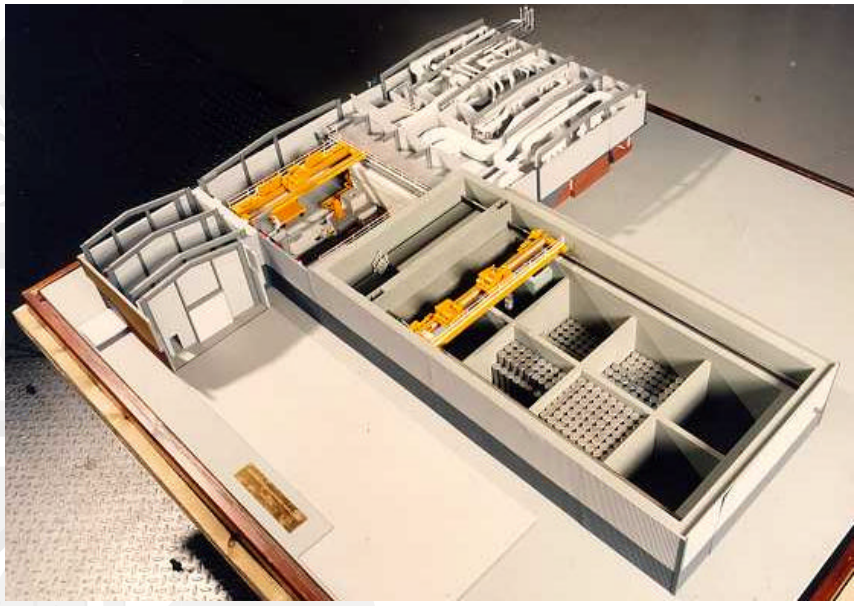
Technology and Lessons Learned (2)

- **Prioritise work against objective criteria to ensure programmes are optimised and ‘best value for money’**
- **Start decommissioning whilst facilities are in ‘good’ condition - solve tomorrows problems today**
- **develop plans for waste storage and longer term waste management**



- **Learn from the experience of others - ‘be second first’**
- **Spend wisely early and benefit later**

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The Challenges

- Recruiting and maintaining necessary skills and expertise
- Developing robust cost effective strategies
- Gaining and maintaining public acceptance
- Disposal of nuclear waste to standards acceptable to regulators and ‘above all’ in a way acceptable to the general public
- Secure Funding to implement agreed programmes of work

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