

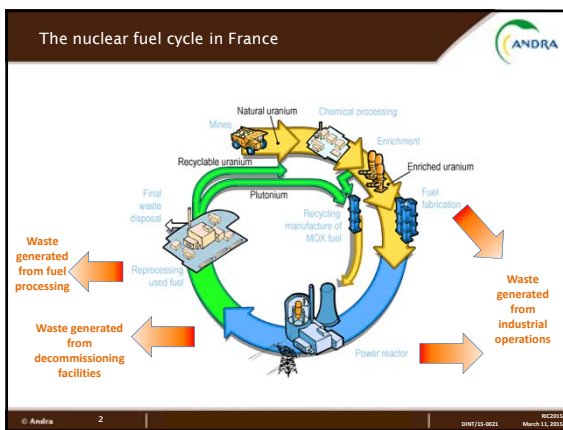


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French Approach to Low-Level Radioactive Waste Management

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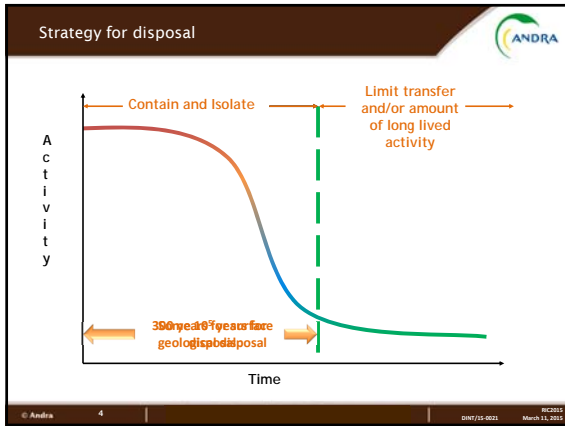
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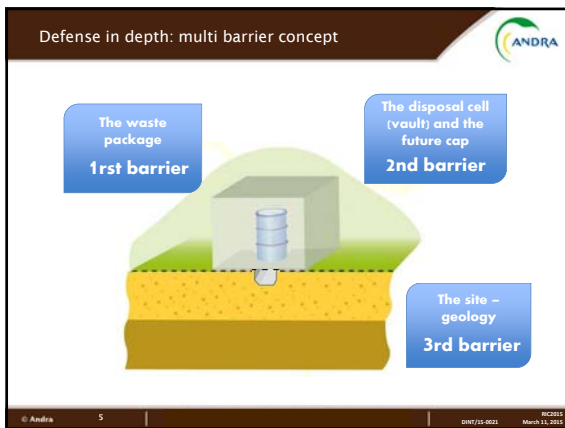


Overview of French radioactive waste classification

	Short-lived waste Period < 31 years	Long-lived waste Period > 31 years
Very low level <100 Bq/g, ~10Bq/g	Waste mainly from dismantling operations (CIRES since 2003)	
Low level A few 10 ² Bq/g	Waste mainly from day-to-day operation of NPPs (CSM from 1969 to 1994) (CSM until 1994 CSA since 1992)	Graphite, radium-bearing waste (under development)
Intermediate level A few 10 ³ Bq/g		
High level > 10 ⁴ Bq/g	Waste stemming from SNF recycling (CIGEO geological disposal facility in France to be commissioned in 2025)	

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Conclusions 

- Over 40 years of operations
- Constant optimization of disposal processes and facilities
 - Safer disposal
 - Workers' dose constant decrease
 - Increased disposal volume
 - Disposal cell geometries
 - Adapt to new waste forms
 - Uncontainerized items
 - Lower disposal costs
 - Fit for purpose VLLW disposal facility
 - Better waste compliance to WAC
 - Audits, on-site waste characterization verification

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