

HIGH FLUX REACTOR CONTINUED SAFE OPERATION: OVERVIEW OF SCOPING PROCEDURES

IGORR 2020-IAEA

Luca Ratti, 31st May-4th June 2021



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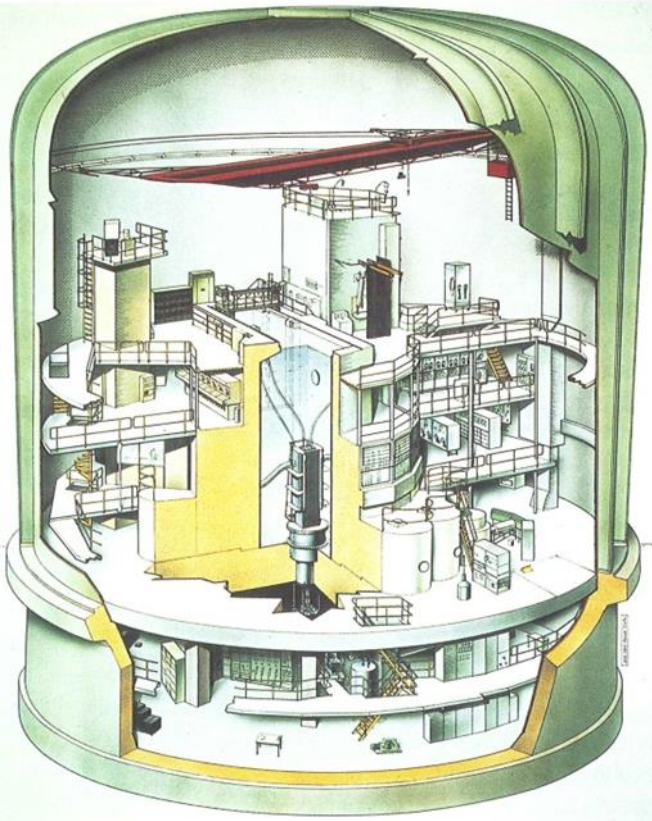


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HFR- High Flux Reactor in Petten



- **Multi-purpose research reactor**
- **Located in Petten**
- **First criticality in 1961**
- **HFR has a time-unlimited operating license**
- **Peer review SALTO-CSO mission in 2021**

CSO Mission

Research Reactor



**Continued Safe Operation (CSO)
mission**



Nuclear Power Plants



**Safety Aspects of Long Term
Operation (SALTO) mission**



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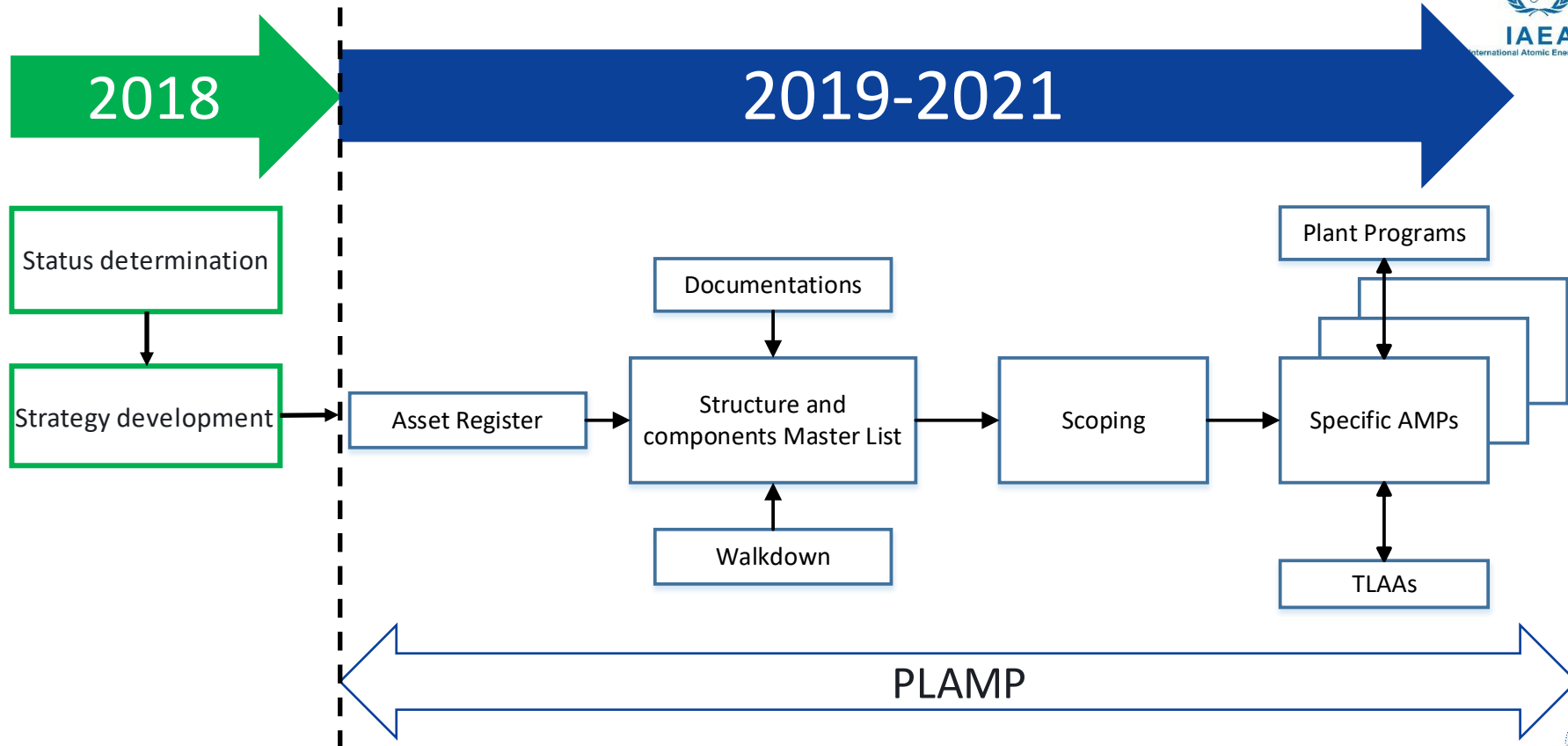
CSO Mission Goals



The main goals of the CSO mission are:

- **Management of the physical ageing**
- **Management of technological obsolescence (non-physical ageing)**
- **Documentations and reports**

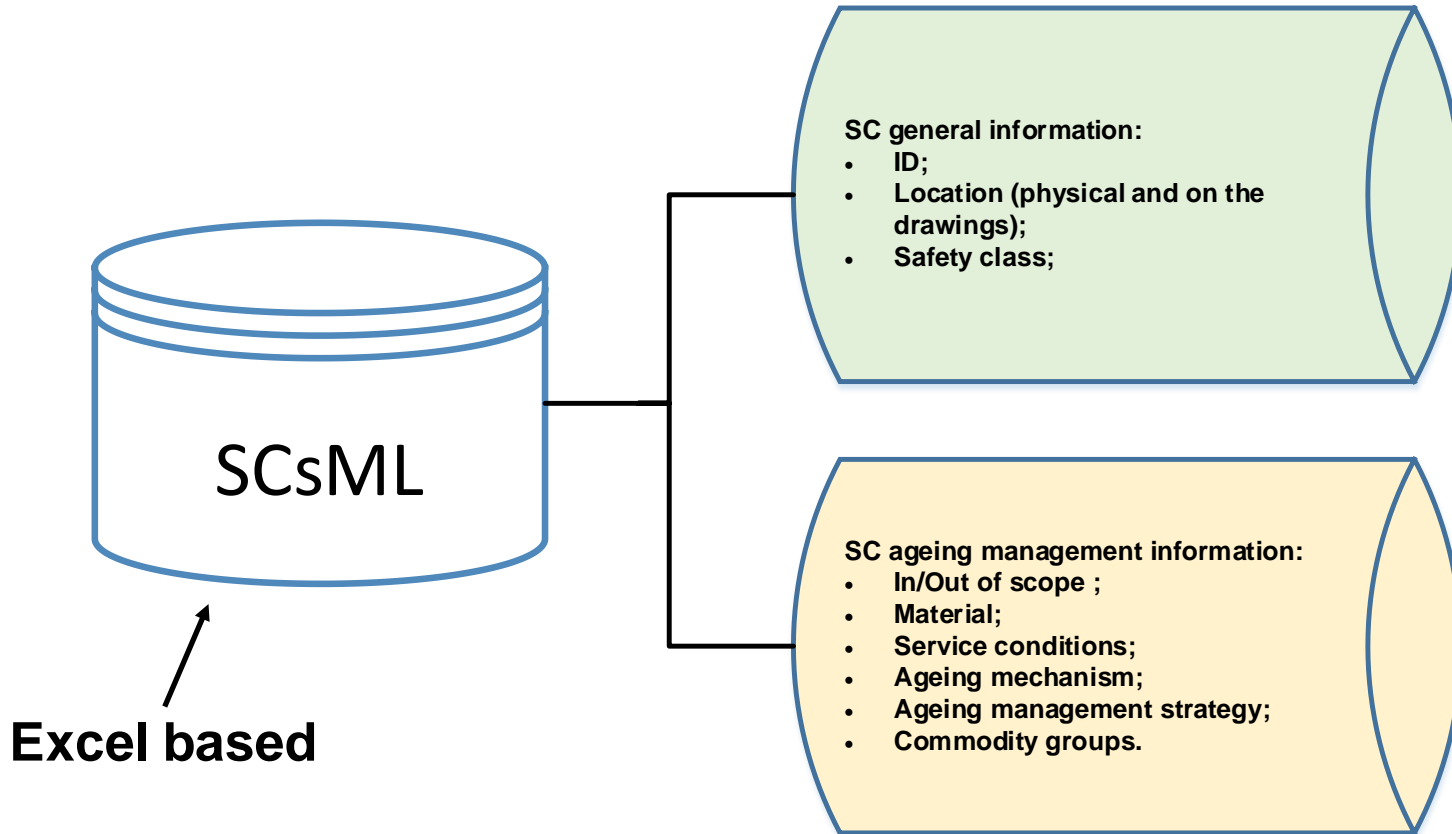
CSO mission- preparation



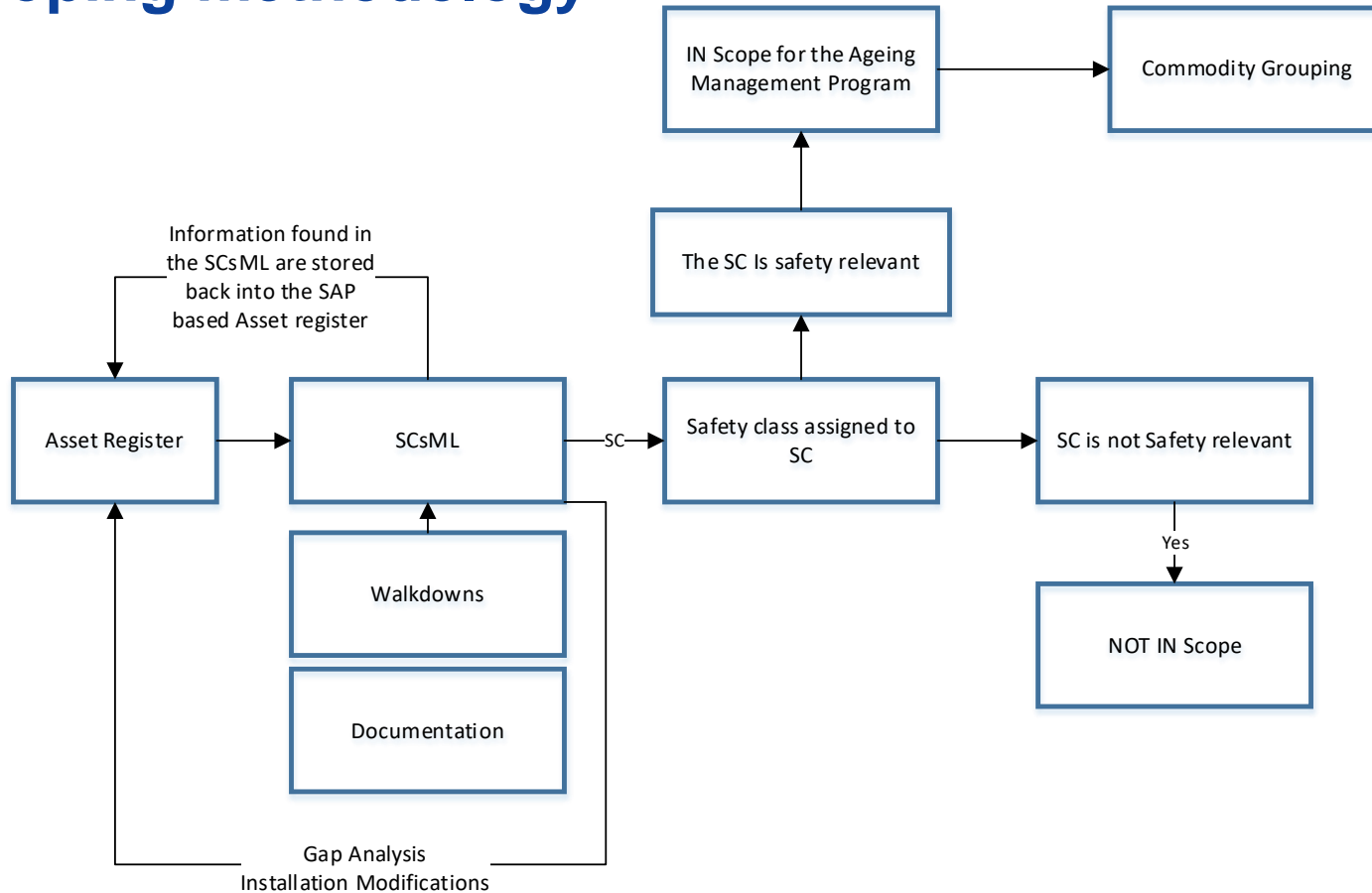
Structure and Components Master List – SCsML



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Scoping methodology



Specific Ageing management Programs



- **Define the scope of the specific AMP.**
- **Define materials and service conditions of the SCs forming the scope of the AMP.**
- **Determine the ageing mechanism that may occur on the scope of the AMP.**
- **Define the Ageing Management strategy for the SCs belonging to a commodity group.**
- **Define, where necessary, improvement actions for the Ageing Management strategy**
- **Review periodically: the scope of the AMP, the Ageing Management strategy and the relevant ageing mechanism.**



Thanks for your attention



Questions ?



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