# Early definition of the maintenance plan is essential to achieve a feasible EU DEMO

## Maintenance Management Plan

- Development of the EU DEMO maintenance strategies is being undertaken to understand:
  - The plant design driving maintenance requirements
  - Suitable maintenance-oriented strategies that are required to achieve the plant availability
  - Technologies that are required that have a low readiness level

- A maintenance management plan is being written to control the design development by:
  - Defining standard maintenance systems, tools and interfaces to be used across the plant
  - Defining the classification of maintenance operations and associated design rigour
  - Preventing unnecessary complexity developing in the maintenance burden
  - Considering the safety principles for human risk mitigation (industrial as well as nuclear risks)
  - Technical risks and the development work and associated cost to mitigate them

- The maintenance management plan must be defined early to achieve a feasible DEMO:
  - The maintenance-oriented strategies are a device defining driver
  - It would be very costly to develop the facility design without having thoroughly considered the plant maintenance activities that drive the plant layout and those related to plant safety

- As the design develops the MMP will be developed to define:
  - Arrangements for the regular and systematic examination, inspection, maintenance and testing of all plant systems, with particular arrangements for safety related components
  - Guidance on how to comply with IAEA guidelines and national regulations on site licencing