

Expected improvements from AREVA in the domain of Numerical Analysis

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Numerical Analysis is an essential tool for AREVA especially :

- in designing equipments for Nuclear power Plants
- in defining the loads
- in margins assessments
- In evaluating Manufacturing processes impacts on material
- In explaining observed behavior on structures under operation

Moreover good predictive tools allow not only predictions and justifications of the behavior but are also a mean to save money avoiding numerous physical tests.

Numerical Analysis concern a wide range of fields . The purpose is not here to be exhaustive. In this presentation we will consider only some traditional domains of the numerical simulation performed within AREVA like :

- Fluid Mechanics
- Structural Mechanics
- Manufacturing Processes

In each case, the AREVA needs are identified.