**Safety Architect**

The **FMEA method** of All4tec implemented into a tool

- Modelling until the elementary blocks
- Local Analysis: modelling the behaviour of the block by linking failure modes of the outputs to the associated failure modes on the inputs
- Global Analysis: propagation of elementary failure modes to feared events
- Presentation of results in a FMEA table and/or in a Fault Tree
- If necessary, implementation of safety barriers to obtain the objective security level

**Advantages of the Approach**

- **Compliance with all engineering loops**
- **Automation**
- **Fast detection of critical parts**
- **Easy handling of corrections/evolutions**

**The FMEA Method of All4tec Implemented into a Tool**

**Local Analysis**

Each block is examined independently from the others. The risk analysis models the block dysfunctional behavior, and particularly considers the safety barriers or the block failure effects.

**Global Analysis**

This step consists in spreading in the system all the identified failure modes, and to trace those (or combinations of them) that reach a system Feared Event (FE).

**Import Models**

- **Locally Analyse the Risk**
- **Spread to feared events**
- **Generate fault trees**
- **Export enriched models**
**INPUTS**

Safety Architect is able to import models at formats:

- Papyrus®
- Rational System Architect®
- Rational Rhapsody®
- SCADE System®
- CORE®
- Simulink®

**FEATURES**

- Feared events
- Failure modes of inputs
- Effects on outputs
- Conditional event
- Safety barriers
- Underlying hypothesis
- Spread of failure modes

**REPORTING**

- Local analysis report
- Result of the spread as FTA
- Result of the spread as ordered critical paths

**OUTPUTS**

Safety Architect is able to export:

- Results at .csv format
- Enriched models to the input modeler
- FTA at .psa format