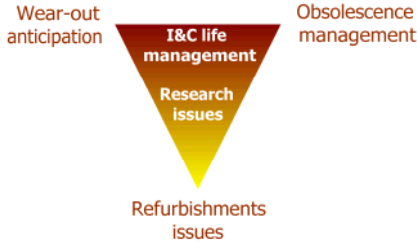


MAGIC

I&C AGEING MANAGEMENT

FP6 2006-2008 Coordination Action

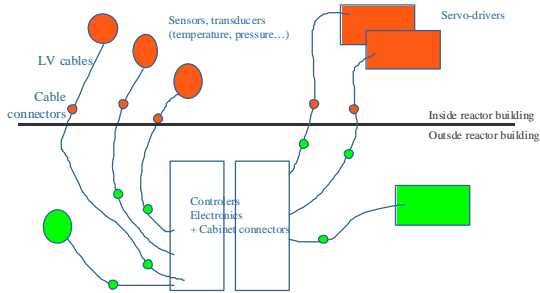
www.fp6magic.net



Exchange of best practices about the management of aging of electronic I&C systems

- WP1 : Develop a common data base of generic aging mechanisms encountered in our power plants
- WP2 : Use this database to study advanced tools to measure ageing indicators
- WP3 : Training support for I&C maintenance staff (ageing sensibilization, established condition monitoring)

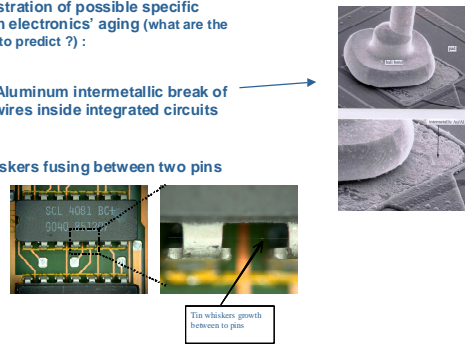
I&C components and MAGIC partition



Some illustration of possible specific studies on electronics' aging (what are the risks, how to predict ?) :

1- Gold / Aluminum intermetallic break of bonding wires inside integrated circuits

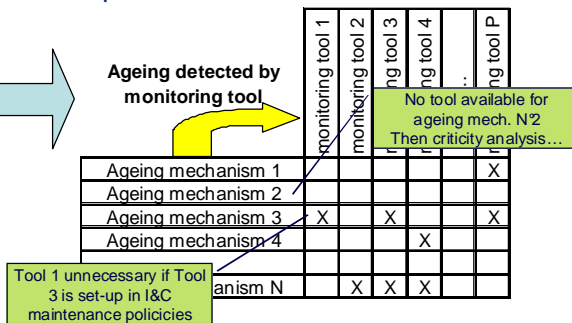
2- Tin whiskers fusing between two pins



Cartography of Monitoring techniques

Ageing Mechanisms Database

A good ageing overview to take the optimized decisions



I&C in NULIFE



GOALS :

1. Develop and maintain the expertise cartography
2. Improve and maintain MAGIC database
3. Disseminate the training module within Europe
4. Turn the EOI into a R&D project to start in 2009.

ACTIONS :

- launch the ad hoc group on I&C (Doireau – Hultqvist - Prunier)
- Ad hoc end-user group meeting proposed on 24-25th of Nov. in Brussels (in order to validate end-user priorities)
- In a second step : build a proposal for a new project.

Jacopo TESTA
Phone : 33 1 60 73 63 90
E-mail : jacopo.testa@edf.fr

EDF
Laurent DOIREAU
Phone : 33 1 60 73 79 69
E-mail : laurent.doireau@edf.fr