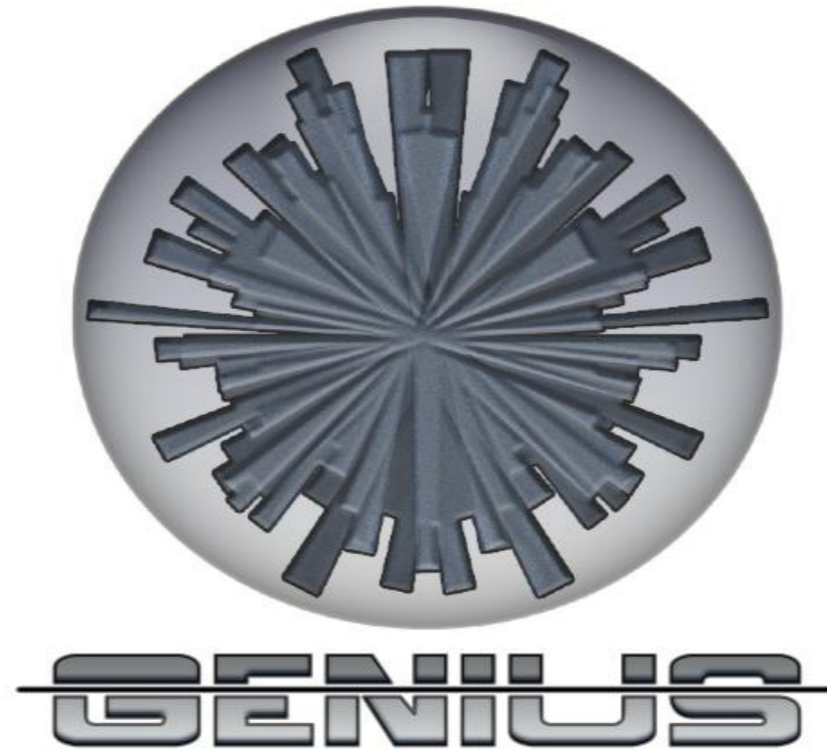
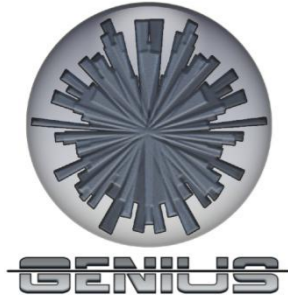


Work package III of Genius

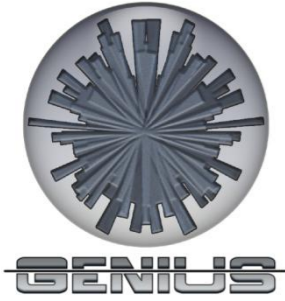




Work package III of Genius

WP III: Safety and Security. WP III is coordinated by Uppsala university with participation from UU, KTH and Chalmers.

WP III addresses the fact that although Gen IV systems are claimed to be “inherently safe”, we may expect as many conceptual precautions on Gen IV systems as for today's technology.



Work package III of Genius

WP III has a very broad scope and comprises activities within:

- Liquid lead dynamics
- Bubble creation due to tube rupture
- Neutron noise analysis
- Propagation of nuclear data uncertainties to global reactor parameters
- Nuclear data
- Novel safeguards technology
- Detector technology
- Core monitoring



Work package III of Genius

The activities within WP III is considered to have a supporting function. This is due to the fact that for most projects, there is a one-to-one correspondence to features likely to be included in a licensing process.

Thus, within WP III, we want to take the very first steps in order to create a Gen IV “cookbook” that can be used as an aid by regulators in a future licensing process.