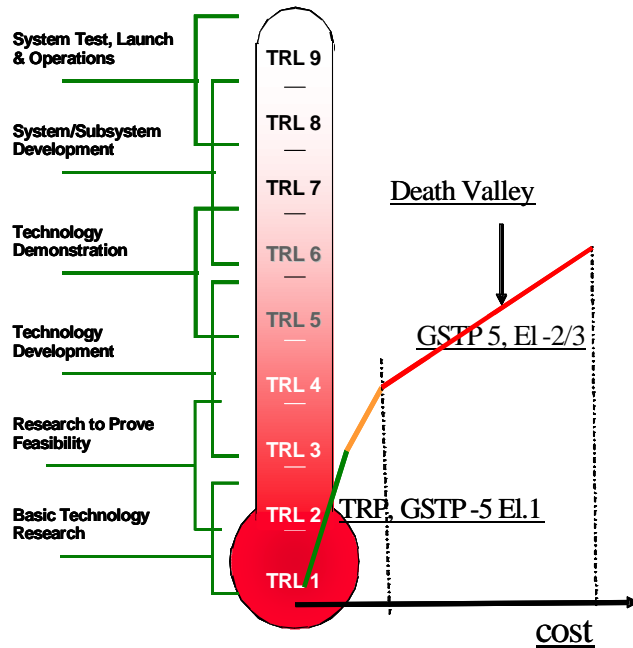


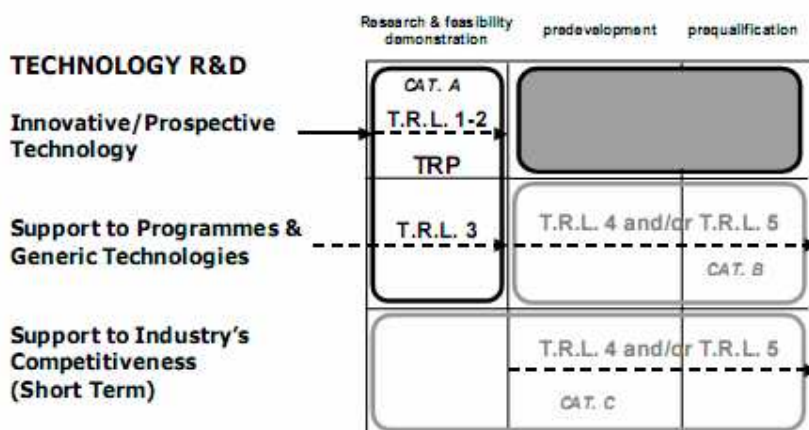
Technology Readiness Level (TRL), as stated by NASA, to be achieved at end of the activity for:

- TRL1 - Basic principles observed and reported
- TRL2 - Technology concept and/or application formulated
- TRL3 - Analytical and experimental critical function and/or characteristic proof-of-concept
- TRL4 - Component and/or breadboard validation in laboratory environment
- TRL5 - Component and/or breadboard validation in relevant environment
- TRL6 - System/subsystem model or prototype demonstration in a relevant environment (ground or space)
- TRL7 - System prototype demonstration in a space environment
- TRL8 - Actual system completed and "flight qualified" through test and demonstration (ground or space)
- TRL9 - Actual system "flight proven" through successful mission operations



Readiness Levels for S/W and tools

- Algorithm Single algorithms are implemented and tested to allow their characterisation and feasibility demonstration.
- Prototype A subset of the overall functionality is implemented to allow e.g. the demonstration of performance.
- Beta Version Implementation of all the software (software tool) functionality is complete. Verification & Validation process is partially completed (or completed for only a subset of the functionality).
- S/W Release Verification and Validation process is complete for the intended scope. The software (software tool) can be used in an operational context.



ESA Technology Landscape (NASA TRL's)