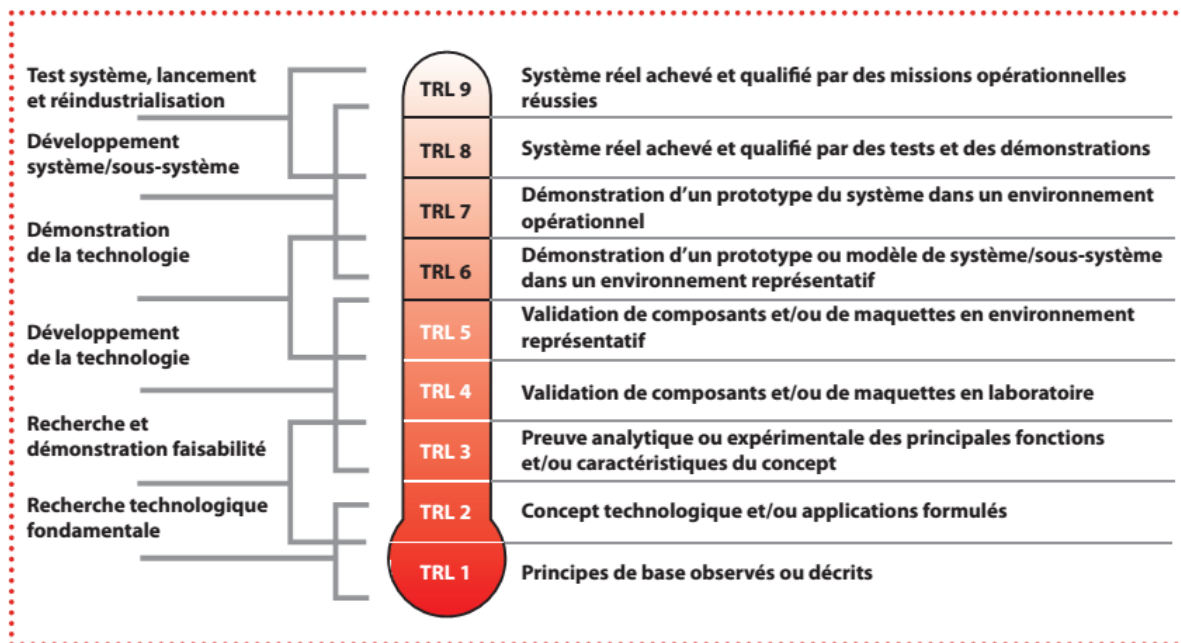


## Explications sur l'échelle des TRL (Technology readiness level) :

Les TRL forment une échelle d'évaluation du degré de maturité atteint par une technologie. Cette échelle a été imaginée par la Nasa en vue de gérer le risque technologique de ses programmes. Initialement constituée de sept niveaux, elle en comporte neuf depuis 1995.

La **pré-maturation** concerne les phases allant de **TRL 1 à 3** (Proof Of Concept). Passé le stade TRL le projet se trouve dans une phase de maturation.



Pour être plus précis, différentes agences gouvernementales (dont le DoD, Nasa, etc...) ont précisés les TRL « matériels » et « logiciels » comme suit :

TRL	Definition	Hardware Description	Software Description	Exit Criteria
1	Basic principles observed and reported.	Scientific knowledge generated underpinning hardware technology concepts/applications.	Scientific knowledge generated underpinning basic properties of software architecture and mathematical formulation.	Peer reviewed publication of research underlying the proposed concept/application.
2	Technology concept and/or application formulated.	Invention begins, practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture.	Practical application is identified but is speculative, no experimental proof or detailed analysis is available to support the conjecture. Basic properties of algorithms, representations and concepts defined. Basic principles coded. Experiments performed with synthetic data.	Documented description of the application/concept that addresses feasibility and benefit.
3	Analytical and experimental critical function and/or characteristic proof of concept.	Analytical studies place the technology in an appropriate context and laboratory demonstrations, modeling and simulation validate analytical prediction.	Development of limited functionality to validate critical properties and predictions using non-integrated software components.	Documented analytical/experimental results validating predictions of key parameters.