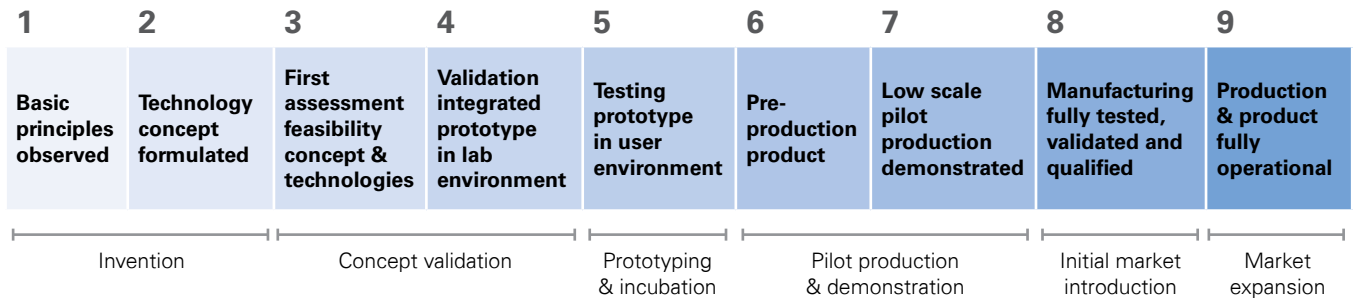
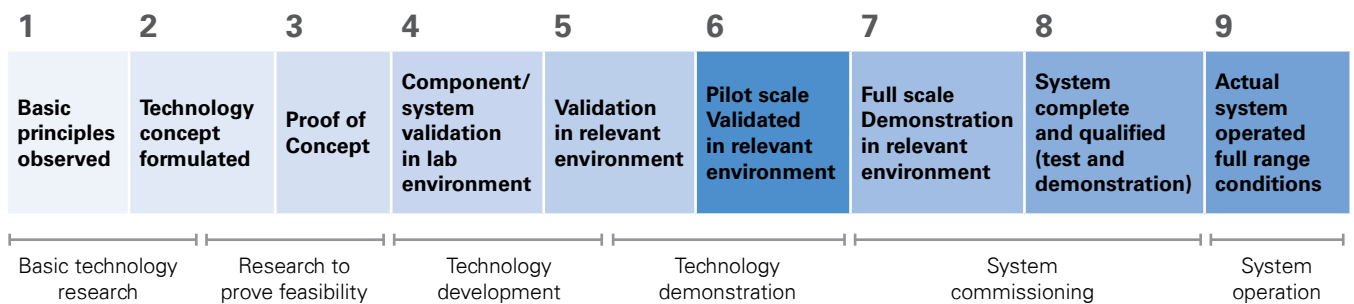


Other Examples

EARTO: EARTO's reading on the TRL scale incorporates manufacturability and includes non-technological aspects in a multi-technology adaption.



US Department of Energy: The US-DoE has adapted the TRL scale to incorporate more energy based and biotechnology aspects.



Summary Sheet

Revenue TRL	Revenue Definition	TRL	H2020 Definition	EARTO reading	KPMG definition and description
0	Idea	0			Idea formulation
1	Basic Research	1	Basic Principles Observed	Basic Principles Observed	Basic principles translated from scientific research.
2	Technology Formulation	2	Technology Concept Formulated	Technology Concept Formulated	A technology concept is formulated in terms of how the basic principles can be applied.
3	Applied Research	3	Experimental Proof of concept	First assessment of feasibility of the concept and technologies	First assessment of concept through actual research assessing technical and market feasibility.
4,5	Small Scale Prototype ----- Large Scale Prototype	4	Validation of integrated prototype in a laboratory	Validation of integrated prototype in a laboratory	Early feasibility tested in laboratory by integrating basic technological components.
6	Prototype System	5	Testing of prototype in a user environment	Testing of prototype in a user environment	System, actual use and manufacturing tested and validated in user environment
7	Demonstration System	6	Technology demonstrated in relevant environment	Per-production of the product, including testing in a user environment	Full integration of product and manufacturing technology now established in pilot line/ plant.
8	First kind of commercial System	7	Low scale pilot production, producing actual commercial products	Low scale pilot production demonstrated	Low scale pilot production demonstrated. Product launched to early markets.
9	Full commercial application	8	System Completed and qualified	Manufacturing fully tested, validated and qualified	Manufacturing of system has been fully completed. Product is launched to majority markets.
		9	Market expansion, incremental changes in product create new versions	Production and product fully operational and competitive	Product fully operational and competitive. Production and manufacturing optimised through continuous incremental innovations.