Mastering Systems Integration; Readiness Levels

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Abstract

Readiness level models offer a yardstick to assess the status of specific project aspects. Examples are technology readiness and integration readiness.

June 5, 2018
status: planned
version: 0

logo
TBD

Technology Readiness Levels

TRL 9	actual system proven in operational environment
TRL 8	system complete and qualified
TRL 7	system prototype demonstration in operational environment
TRL 6	technology demonstrated in relevant environment
TRL 5	technology validated in relevant environment
TRL 4	technology validated in lab
TRL 3	experimental proof of concept
TRL 2	technology concept formulated
TRL 1	basic principles observed

after: https://serkanbolat.com/2014/11/03/technology-readiness-level-trl-math-for-innovative-smes/

Integration Readiness Levels

TRL 7	The integration of technologies has been ***verified and validated*** with sufficient detail to be actionable.
TRL 6	The integrating technologies can ***accept, translate, and structure information*** for its intended application.
TRL 5	There is sufficient ***control*** between technologies necessary to establish, manage, and terminate the integration.
TRL 4	There is sufficient detail in the ***quality and assurance*** of the integration between technologies.
TRL 3	There is ***compatibility*** (i.e. common language) between technologies to orderly and efficiently integrate and interact.
TRL 2	There is some level of specificity to characterize the ***interaction*** (i.e. ability to influence) between technologies through their interface.
TRL 1	An ***interface*** (i.e. physical connection) between technologies has been identified with sufficient detail to allow characterization of the relationship.

from: From TRL to SRL: The Concept of Systems Readiness Levels, CSER2006, by Sauser et al.