

# Mastering Systems Integration; Readiness Levels

by *Gerrit Muller* [TNO-ESI, University of South-Eastern Norway]

e-mail: `gaudisite@gmail.com`

`www.gaudisite.nl`

## Abstract

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

### Distribution

This article or presentation is written as part of the Gaudí project. The Gaudí project philosophy is to improve by obtaining frequent feedback. Frequent feedback is pursued by an open creation process. This document is published as intermediate or nearly mature version to get feedback. Further distribution is allowed as long as the document remains complete and unchanged.

August 16, 2025  
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 <b>verified and validated</b> with sufficient detail to be actionable.
TRL 6	The integrating technologies can <b>accept, translate, and structure information</b> for its intended application.
TRL 5	There is sufficient <b>control</b> between technologies necessary to establish, manage, and terminate the integration.
TRL 4	There is sufficient detail in the <b>quality and assurance</b> of the integration between technologies.
TRL 3	There is <b>compatibility</b> (i.e. common language) between technologies to orderly and efficiently integrate and interact.
TRL 2	There is some level of specificity to characterize the <b>interaction</b> (i.e. ability to influence) between technologies through their interface.
TRL 1	An <b>interface</b> (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.