

Technology Readiness Levels

Where a call refers to the TRL scheme (Technology Readiness Levels), the following definitions apply:

Table 1: Technology Readiness Levels

Research category	Technology Readiness Levels
Oriented basic research	TRL 1 Basic principles observed
Industrial research	TRL 2 (Technology) concept formulated TRL 3 Experimental proof of (technology) concept at component level TRL 4 Technology validated in lab (on lab scale) at system level
Experimental development	TRL 5 Technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies) TRL 6 Technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies) TRL 7 System prototype demonstrated in operational environment TRL 8 System complete and qualified
Market introduction	TRL 9 System proven in operational environment (competitive manufacturing in the case of key enabling technologies)

Technology Readiness Levels are described in the publication [“Communication from the Commission: A European strategy for Key Enabling Technologies –A bridge to growth and jobs”](#), page 18.