Product Readiness Levels across Product Types

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| PRL Scale | PRL Description | CIHR/ eHIPP Stage | Technology Product | | Service Product | | Policy & Practice Product | |
| Outputs | Activities | Outputs | Activities | Outputs | Activities |
| TRL 1 | Basic principles and research data observed and reported. | INNOVATION RESEARCH | Product concepts developed | Presentations, posters, articles; Engagement with industry or community partners | Problem identification; market analysis | Needs analysis and definition; user-focused research- interviews/focus groups/ workshops; literature work etc. | Scoping Review | Needs analysis and definition; user-focused research- interviews/focus groups/ workshops; literature work etc. |
| TRL 2 | Technology concept and/or practical applications formulated. | INCUBATOR | Initial Prototype designed, software architecture drafted & budgeted; Full proposal for R&D phase; preliminary business plan;  IP strategy drafted | Initial Prototype designed, software architecture drafted & budgeted | concept development; new service strategy development; Standardizations of service offering; Developing partnerships | Engagement of end user/participant; discussions with partners | Project concept validated by stakeholders; | Concept development; scenarios; scoping research- current knowledge products/projects/publications; stakeholder ideas workshops, Industry and stakeholders (min 3 groups) feedback collected |
| TRL 3 | Analytical and experimental proof of concept of critical function and/or characteristics. | Beta version/prototype created; if applicable, patent should be drafted – US application Number | Basic market research- market size and structure; exploring barriers to market with end-users and stakeholders. Preliminary Business Plan validated by AW commercialization team | end user participation; putting supporting facilities in place; | Analysis of economic, technological and operational issues | Use cases; requirements definition/ initial prototype/Mock-up. Proof of concept report | Workshops and interviews with demos of initial idea paper/ storyboard/Theatre methods; Proof of concept completed with small group of users (min 5 users) |
| TRL 4 | Validation of the technology in the laboratory. | PROTOTYPE | Agreement signed with partner | Prototype tested and validated at the scientific level (studies conducted). | Service blueprint development Evaluation of developed service | Large target population (seniors) study conducted; participant feedback collected; service modifications conducted | Basic system validated by end-users | Feedback on demonstration of basic prototype to end-users; lab-testing of components with end-users; Large target population (seniors) study conducted; Users feedback collected |
| TRL 5 | Validation of technology in a relevant environment. | Production of several prototypes; Start-Up created or company licensing | On site/ real environment (e.g., company site) beta testing study |  | Iterative development and refinement service system design | Final lab prototype validated by end-users | Iterative development and refinement of prototype with end-users |
| TRL 6 | Demonstration of technology in relevant environment. | EXPERIMENTAL IMPLEMENTATION | Proof-of-concept provided in controlled situation/ creation of pre-commercial prototype |  |  |  | Demonstration report | Limited testing of demonstrator/prototype with a end-users in real or simulated environment |
| TRL 7 | Technology prototype demonstrated in an operating environment. | Creation of final product- Pre-commercial system/device tested and validated in large-scale real environment |  | Market testing | Field trial of service in real environment without supervision; participant satisfaction study conducted and report produced | Process evaluation report; End user satisfaction study conducted and report produced | Limited field trial of pre-commercial system/device in operational environment with end-users Field trial of pre-commercial system/device in real environment without supervision; Modifications based on End-users satisfaction study completed (Finalizing color, appeal, etc…) |
| TRL 8 | Technology system completed and qualified through test demonstration. | OUTCOMES | Technology is proven to work - Actual technology completed and qualified through test and demonstration; Legal validation and process (FDA, industry standard, etc.) |  |  | Marketing; | Field trial report | Large-scale field trial |
| TRL9 | Technology system in its final form ready for full (commercial) deployment in relevant operating environment. | Full-scale production; market strategy defined, legal agreements in place with industry partners (e.g., manufacturing, etc.), and founders, solution ready to be launch on the market. Market deployment and maturity |  | Post introduction of service evaluation | Service is proven to show benefits; customer satisfaction surveys service | Economic and social impact study | Social and economic analysis of technology adoption, usage and impact |

