### 4.9 Schedule

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|  | **Focus a**  **Theory, systematic analysis and description** | **Focus b**  **Design and implementation** | |
| **WP0** | Preliminary research and organisation | | |
| **WP1** | Data collection and analysis | Analysis of ontological design | |
|  | Participant interviews and observations | | |
| **WP2** | Systematization of findings | Systematization of design approach | |
|  | Expert interviews | |  |
| **WP3** | Theorization | Implementation | |
|  | Foundational workshops with participants and experts | | |
|  | Prototyping of ontological propositions for voice assistants derived from workshops | | |
| **WP4** | Evaluation, pubication and dissemination | | |
|  | Completion of the final research report (SNFS) | | |
|  | Dissemination of findings in lectures at international congresses and in peer-reviewed journals, as well as in an open-access guidlines for the future development of voice assistants as assistive technologies; publication of code base and blueprints in a git-based online-code repository | | |

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|  | **Focus a**  **Theory, systematic analysis and description** | **Focus b**  **Design and implementation** | |
| **WP0** | Preliminary research and organisation | | |
|  | 0.1 Approving research project by ethics comittee | |
|  | 0.2 Establishing collaborative network of partner institutions and actors | |
|  | 0.3 Survey on adoption and usage of voice assistants as assistive technologies | |
|  | 0.4 Sample workshops to test setup | |
|  | M0: Q3 2024 Preparing research project, establishing research network and tryout workshop format as well as survey executed | |
| **WP1** | Data collection and analysis | Analysis of ontological design | |
|  | 1.1 Work with source material and review of literature | 1.1 Production of actor-network/ontology map of assistive technologies |
|  | 1.2 Participant interviews | 1.2 Analysis and detailed description of tasks; conceptualization of user scenarios |
|  | 1.3 Participatory observation | 1.3 Determination of design parameters on the basis of the criteria catalogue and the conceptualization and design approaches |
|  | 1.4 Production of a catalogue of criteria and vocabulary for the description of assistive technologies |  |
|  | 1.5 Analysis of voice assistants as assistive technologies |  |
|  | M1: Q4 2025 Work with sources, analysis and description of ATs, examination of user ontologies, relations, and interconnections concluded | |
|  | M2: Q4 2025 determination of user scenarios and mapping of design ontology concluded | |
| **WP2** | Systematization of findings | Systematization of design approach | |
|  | 2.1 Identification and description of open issues | 2.1 Testing and evaluation of the technological feasability |
|  | M3: Q1 2026 detection of open issues in regards to research questions and goals concluded | |
|  | M4: Q1 2026 evaluation of technologial feasability concluded | |
|  | 2.2 Expert interviews | 2.3 Selection of an approach for the implementation of the prototypes |
|  | 2.3  Final evaluation of analyses | 2.4 Systematic description of design ontology of assistive technologies |
|  |  | 2.5 Final evaluation |
|  | M5: Q2 2026 final solution approach selected and evaluated | |

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| **WP3** | Theorization | | Implementation | |
|  | 3.1 Foundational workshops with participants and experts | | 3.1  Evaluation of the voice assistant prototypes | | |
|  | 3.2 Prototyping of ontological propositions for voice assistants derived from workshops | | 3.2  Implementation of VA prototypes | | |
|  | 3.3  Final formulation of the results of the workshops and interviews, as well as of the evaluation | | 3.3  Test of VA prototypes | | |
|  | 3.4  Final description of all parts of the dissertations | | 3.4  Evaluation of VA Prototypes | | |
|  | M6: Q2 2027 workshops, evaluations of interviews and observations results formulated, dissertations completed | | |
|  | M7: Q2 2027 implementation, test and evaluation of prototypes concluded | | |
| **WP4** | Evaluation, pubication and dissemination | | | |
|  | 4.1  Completion of the final research report (SNFS) | | |
|  | 4.2  Dissemination of findings in lectures at international congresses and in peer-reviewed journals, as well as in an open-access guidlines for the future development of voice assistants as assistive technologies; publication of code base and blueprints in a git-based online-code repository | | |
|  | M8: Q4 2027 final research report, conference and exhibition concluded, dissemination of findings initiated | | |
|  | 4.3  Completion of guidelines for the future design of participatory interfaces; consolidation of results | | 4.4 Completion of models of assistive voice assistants; consolidation of results | | |
|  | 4.4  Code documentation |  | |
|  | M9: Q2 2028 design guidelines and code documentation concluded | | |
|  | M10: Q2 2028 design models of assistive voice assistant | | |

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| ***Own personnel expenses*** | | | | |
| *Salary provision for PhD candidate after doc.ch guidelines* | | |  |  |
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|  | WP |  |  |  |
| Salary 1. year | 1 - 4 |  |  | 47'040.00 |
| Salary 2. year | 1 - 4 |  |  | 48'540.00 |
| Salary 3. year | 1 - 4 |  |  | 50'040.00 |
| Salary 4. year | 1 - 4 |  |  | 50'040.00 |
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| **Total salary** |  |  |  | **195'660.00** |
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| ***External personnel expenses*** | | | | |
| *Personnel expenses are calculated with a swiss default of 21 working days per month and 8 hours per day.* | | | | |
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|  | WP | Description | Expenses |  |
| Research assistants | 1 - 4 | 50% during 42 months | - | 97'830.00 |
| Supervisor | 1 - 3 | 20% during 30 month | 100.-/h | 100'800.00 |
| Software developer | 3 | 40% during 12 month | 75.-/h | 60'480.00 |
| Design, support workshop | 3 | per workshop | 280.-/workshop | 1'680.00 |
| Design, for publication | 4 | 50% during 3 month | 75.-/h | 18'900.00 |
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| Honorar Expert Interviews | 1 | max. 9 interviews | 100.-/person | 900.00 |
| Honorar Participant Interviews | 1 | max. 18 interviews | 50.-/person | 900.00 |
| Honorar Workshopteilnahme | 3 | max. 6 workshops à max. 12 participants | 75.-/person | 5'400.00 |
| Proofreading | 4 | Disseration, guide | - | 1'500.00 |
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| **Total personnel** |  |  |  | **288'390.00** |
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| ***Other expenses*** | | | | |
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|  | WP | Description | Expenses |  |
| Literature research | 1 | Specialist literature, access to research documents | - | 250.00 |
| Consumables | 1-4 | Workshop material, office | - | 500.00 |
| Travel expenses | 1-4 | Conferences, research trips | 4 trips/500.- | 2'000.00 |
| Development environment | 3 | Software licences, hosting for applications and code | 250.-/year | 750.00 |
| Hardware, electronics | 3 | Working tools, electronic components, rapid prototyping, borrowing equipment | - | 8'000.00 |
| Infrastructure | 3 | Room and furniture rental for workshops and development work | - | 1'500.00 |
| Digital guide | 4 | Accesibility testing | - | 500.00 |
| Buffer | 1-4 | Unforeseen expenses | - | 1'000.00 |
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| **Total other** |  |  |  | **14'500.00** |
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| **Total project costs** |  |  |  | **498'550.00** |