# Appendix 2

# Application Document ETH4D Research Challenges and

# ETH4D Pilot Grants

# Abstract

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| **Abstract:** Please include an executive summary of your proposed project (max. 300 words), in language appropriate for a non-technical reader. |

# Project Narrative (max. 4 pages)

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| **Instructions**   * Narrative text should use 11-point Arial font and usual margins. * Include responses to ALL questions below. * The narrative should NOT EXCEED 4 SINGLE-SPACE PAGES (excluding attachments). |

1. **Project Title**

Include a project title no longer than 5 words; this title will be used for all correspondence.

1. **Background and Motivation**

What is the broad development challenge you seek to address? Reference evidence from the literature describing the scale, complexity, and drivers of the challenge and describe why the challenge is relevant for the non-academic partner.

1. **Research Plan**

Describe your project design, including how it addresses the development challenge described above. Please reference the scientific literature and any preliminary, unpublished results that have informed your approach. Please also explain the relevance of the proposed research to the overall research of the PI and Chair, and how it connects to other projects in the institute or department.

**3a.) ETH4D Research Challenges**

* + What specific gap(s) in scientific knowledge will your project address? Why is your approach innovative?
  + What questions will the project answer? What specific outcomes will you focus on?
  + Does your research incorporate lessons from multiple disciplines (e.g. engineering, natural science, social science)?
  + Detail and justify your research strategy.
  + Include a distinct section on research design and scientific approach and methodology.
  + If the project collects data, explain the experimental set-up in detail, including the sample size and how the data gathering is planned

**3b.) ETH4D Pilot Grants**

* + Detailed description of the proposed project, including methodology and research approach.
  + Describe how the Pilot Grant project might lead to a larger project or a more intensified/institutionalised partnership.
  + Present potential follow-up activities after the conclusion of the proposed Pilot Grant project. State if you plan to develop and submit a joint proposal based on the results of the proposed Pilot Grant project, and if yes, to which funding agency or call.

1. **Impact**
   * How will the non-academic partner use the research results?
   * What other applications do you foresee stemming from your research (e.g. what other organizations could benefit from it)?
   * What are the potential external validities of your technology/project?
2. **Existing alternatives**
   * What are the two most important alternatives/interventions to address the challenge?
   * How is your technology/solution similar? How is it different? Why is your technology/solution more promising than existing alternatives?
   * What are threats to the internal and external validity of your study and how do you plan to mitigate them (if possible)?
3. **Team and Partners**

What are the unique strengths of your project consortium and partners? How will the work be divided among team members and organisations? What is the role and level of engagement of your non-academic partners? What is their relevant experience in the area of your collaboration? What do you intend to do to guarantee diversity and inclusion in your team?

1. **Matching Funds for Research Challenges**

With this signature I hereby agree that, if the proposal is accepted, the matching funds will be debited from the research reserves of the professorship of the applicant automatically.

Date: Signature Applicant:

**Attachments (in this order):**

* Bibliography
* Work packages and Milestones, shown in a Gantt chart or table, outlining the timeline (up to 18 months) and including key activities and major deliverables.
* Budget, using the budget template (Appendix 3).
* Letter(s) of support from involved non-academic partner(s), clearly stating the interest in the project and the partnership, its relevance to the organisation, and the time-related and financial contributions the partner is willing to make to the project
* CVs of all involved partners (2 pages max. per partner)