

Research & Innovation

– Case study –

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- Technological context:
 - IoT, Big data, Web of Data,
 - AI technologies
 - Autonomous Agents, Personal Assistant Technologies
- Societal context:
 - Digital transformation of our daily activities
 - Activities and actors are facing a more and more complex world
 - Need of automation of (some/all??) cognitive tasks
 - Need of assisting one or several actors for some activity in some situation: manufacturing, health, sport, home, car, energy, ...

Guidelines

- Work in group of 2 students
- Each group will have to define a research proposal for developing a digital supporting system in one of these applicative domains: manufacturing, health, sport, daily life, home, car (one different applicative domain for each group)
- Each project will have to consider issues such as sensors / data / users (individual, social), assistance tasks, ethics, privacy, mobility / communication, context, ...
- Project proposal's structure will follow the *ANR Preproposal Template*
- Evaluation of research proposals will follow the *ANR Evaluation Grid*

Context of the call for project proposal

- Work programme 2019 Generic call for proposals 2019
<http://www.agence-nationale-recherche.fr/fileadmin/aap/2019/aapg-anr-2019-en.pdf>
- Pre-proposal template document www.agence-nationale-recherche.fr/fileadmin/aap/2019/aapg-anr-2019-pre-proposal.docx
- Evaluation Criteria 2019 (Section D. p. 9),
<http://www.agence-nationale-recherche.fr/fileadmin/aap/2019/aapg-anr-2019-en.pdf>

You will submit the Research Project Proposal in the PRC or PRCE Funding Schemes

Pre-proposal template

- ❶ Pre-proposal's context, positioning and objective(s)
 - This paragraph refers to the evaluation criterion “Quality and scientific aim”
 - The criterion “Quality and scientific aims” will be the determining one: only the projects having received an “A” will proceed to the second step of the evaluation process.
- ❷ Partnership
 - This paragraph refers to the evaluation criterion “Organisation and implementation of the project”.
- ❸ References related to the project
 - This paragraph refers to the evaluation criterion “Quality and scientific aim”.
 - Preprints are allowed.
 - If available, please indicate the “open access” link to improve accessibility for the reviewers.
 - Please highlight the references for which one or more of the authors are involved in the project.

Focus is on part I and II

Pre-proposal's context, positioning and objective(s)

This paragraph refers to the evaluation criterion “Quality and scientific aim”.

The following information should be detailed here:

- 1 *Context, Problem Statement*: basic facts and importance of the applicative domain and of the problem existing in it
- 2 *Objective*: project's objectives and research hypothesis ;
- 3 *State of the Art*: position of the project as it relates to the state of the art;
- 4 *Methodology and organization*: methodology to reach the objectives ;
- 5 *Impacts*: Innovative nature of the project, ambitiousness and originality of the objectives and the methodology
- 6 *Evaluation Criteria*: ability of the project to address the research issues covered by the chosen research theme

Some Hints for context, positioning and objective(s)

- Provide a brief and meaningful title to your project
- Be clear, objective, succinct and realistic in your objectives
- What is your research area, the motivation of research, and how important is it for the industry practice/knowledge advancement?
- Problem statement provides a clear and concise description of the issues that need to be addressed - What is the specific problem in that research area that you will address?
- State and justify your objectives clearly ("the fact that it is interesting" is not enough!). Objectives provide a list of goals that will be achieved through the proposed research (for each objective, what are the benefits/impacts, how will its achievement be evaluated?)
- Why this research should be funded and/or why you are the best person/consortium to undertake this project?
- Why this research is important and/or timely.
- Make sure you answer the questions: how will the research benefit the wider society or contribute to the research community?

This paragraph refers to the evaluation criterion “Organisation and implementation of the project”.

For a collaborative research project (PRC, PRCE), the following information should be detailed here:

- *Scientific Coordinator*: his/her experience as a coordinator of projects and his/her experience in the scientific field, his / her involvement in the project;
- *consortium and its complementarity*: quality and complementarity nature of the consortium to reach the objectives, identity of the scientists involved, their institution and all other information providing a framework for judging the quality and complementarity of the partners and of the effectiveness of the partnership.

Some Hints for Partnership

- Academics:
 - Local: LabHC, Cité Design, Mines Saint-Etienne
 - Univ. Lyon: LIRIS, CITI, LIP, ...
 - CNRS, INRIA, Mines-Telecom Institute
 - ...
- Industrial:
 - Minalogic, Digital League, Imaginove ...
 - Recognized actors in the application domain
 - Recognized providers of the required technologies
 - Small and big size companies, Startups, ...