

AIRISE Open Call 5 Pilots

Call Identifier AIRISE OC5 Pilots

Document Proposal Template

Version 1.0

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# Abstract

This template shall enable you to easily prepare and submit a proposal to our call. With the submission, you apply for support from the AIRISE project which has received public funding from the European Commission through the Horizon Europe programme. Please keep in mind that we need to disseminate objectives and results of supported actions. There is a first paragraph in Section 2 to cover this. Please feel free to give a single statement for public dissemination and evaluation, or two separate ones.

This template is for convenience only. For proposal requirements and eligibility, please consult the guide for applicants which is available at [www.airise.eu/calls](http://www.airise.eu/calls)

**Page limit**: The cover pages (Section 2) should not exceed 3 pages. The core proposal (Sections 3 to 10) should not be longer than 8 pages. **Overall, the submitted proposal document should not exceed 11 pages.** All tables, figures, references and any other element pertaining to these sections must be included as an integral part of these sections and are thus counted against the page limit. **Any additional content will be truncated before evaluation**.

**Please erase the previous and this page, as well as all instructions in the template, and fill with your own data as appropriate (starting from Section 2).** Names and values in this template and tables are only for explanatory purposes, please consult the guide for applicants.

<https://www.airise.eu/>

# Cover Pages

AIRISE Open Call 5 (AIRISE OC5P) for industrial AI Pilot experiments on AI application ideas in manufacturing

Acronym of your proposal

Full title of your proposal

## Organisational Information

|  |  |
| --- | --- |
| **AIRISE Experiment  General Data** | |
| **Experiment** | |
| Acronym |  |
| Short description | *(A couple of sentences summarizing the idea, max. 1000 characters)* |
| Expected duration (in months) |  |
| **Main contact person** | |
| Contact Name |  |
| Contact e-mail |  |
| Contact phone |  |

|  |  |
| --- | --- |
| **AIRISE Experiment**  **Company Details** | |
| Legal Name |  |
| Type of entity (SME/MC) |  |
| PIC number |  |
| VAT registration number |  |
| Business register number |  |
| Business register location |  |
| Country |  |
| Legal Address |  |
| Name of legal signatory |  |
| Sector \* |  |
| First European Project | *(Y/N)* |
| Previous expertise with AI | *(new / intermediate / expert)* |
| IT competencies and infrastructure |  |
| Personnel that will be involved in the experiment | *(Short CVs and references)* |

\* [*NACE Sector*](https://ec.europa.eu/eurostat/web/nace) *that your business is working in (e.g. C.25 Manufacture of fabricated metal products, except machinery and equipment)*

## Your background related to information technology and AI

|  |
| --- |
| **Applicants’ background and ambition relating to AI** |
| *Please describe your current position in relation to AI and what is your plan for the future. What is your ambition, what is your roadmap with respect to AI and your overall business objectives? Is your infrastructure ready to handle the data?* |
| **Applicants’ background IT infrastructure and data sources** |
| *Please describe your current IT infrastructure and the sources of data that you will use to scale up your pilot.* |

## Your awareness about Ethics in the field of AI applications

Ethics is key when using AI in a manufacturing environment with respect to safety and people.

Please indicate your level of awareness in the range of 0 points (no awareness) to 10 points (high awareness).

I am aware of the following principles:

| **Topic** | **Awareness**  **(low=0 ... high=10)** | **Comment** |
| --- | --- | --- |
| Involvement of humans on acting and overseeing an AI system |  |  |
| Importance of technical robustness and safety |  |  |
| Need for privacy and governance for data |  |  |
| Need for transparency and traceability of AI applications |  |  |
| Diversity and non-discrimination and fairness of the output of the AI application |  |  |
| Impact on environmental and societal well being |  |  |
| Auditability of the AI application |  |  |

## Your awareness about Data Management related to AI

When applying AI in the manufacturing environment, the management of data is key, especially if it includes personal data. Please indicate your level of awareness in the range of 0 points (no awareness) to 10 points (high awareness).

I am aware of the following principles:

| **Topic** | **Awareness**  **(low=0 ... high=10)** | **Comment** |
| --- | --- | --- |
| Compliance with regulations on personal data (GDPR) |  |  |
| Guidelines for sharing data (FAIR principles) |  |  |
| Passwords or other protection for access to data (access rights) |  |  |
| Cybersecurity for the compute and storage systems |  |  |
| Infrastructure for backup and archiving of data |  |  |

## Your company’s AI maturity and Industry 4.0 readiness

The industrial AI Pilot Applications aim to build on existing solutions and develop and scale with the help of advanced AI technologies. Therefore, the industrial AI Pilot Applications require a solid starting point (TRL5-6).

|  |
| --- |
| **Description of the existing AI application and related competences** |
| *Please describe the existing AI application that you would like to scale up through the Pilot Application. Describe the current maturity level and substantiate the competence that you have in the field of AI with respect to the specific application.* |
| **Description of the starting point of the company** |
| *Please describe your starting point with respect to data and digitalisation in your company, providing details linked to the existing AI application you would like to scale up. Please provide a description of your data acquisition and storage infrastructure.* |

# AI Application Idea

|  |
| --- |
| **Description of the AI application idea (information for publication on the website in case this proposal gets funded)** |
| *Please describe your application idea (public version)*   * *What benefits do you expect for your manufacturing operations?* * *Where will you use AI technology in your company?*   *Please provide images that visualises your application idea (ensure that you have all copyrights for this image. By submitting this image, you allow us to use it for dissemination purposes)* |
| **Description of the AI application idea (confidential version for evaluation)** |
| *Please describe your application idea.*   * *What benefits do you expect for your manufacturing operations?* * *Where will you use AI technology in your company?* |

# Objectives addressed by the AI Application Idea

|  |
| --- |
| **Improve the sustainability of processes and products, significantly reduce or reuse waste and lower the energy and carbon footprint** |
| *Please explain if your application idea addresses this objective.* |
| **Make industrial processes more agile, secure and resilient to future changes** |
| *Please explain if your application idea addresses this objective.* |
| **Make manufacturing jobs more attractive for humans, whichever the age, gender or social and cultural background, through better human-machine interfaces and more intuitive interaction with digital tools** |
| *Please explain if your application idea addresses this objective.* |

# Challenges of the AI application idea

|  |
| --- |
| **Challenges connected to the AI application idea** |
| *Please describe challenges that need to be solved to realise your application idea. Describe how your application idea links to the state of the art in manufacturing and why your organisation needs support to realise the application idea. Please, define appropriate quantifiable criteria for your experiment objectives.* |
| **TRL change through the implementation of the AI application idea** |
| *Provide the current TRL[[1]](#footnote-2) and the TRL you intend to reach after the experiment.*  *(Please note that for the AI Pilot Applications the TRL range is expected to be between 6-8)* |

# Experimentation plan

|  |
| --- |
| **Ambition and development plan** |
| *Please describe how you want to approach the technological AI challenges*   * *Explain which services you select (indicate the amount of support you expect from AIRISE partners per selected service in person months)* * *Describe how the services you selected complement your competencies* * *Provide a plan on how you want to interact with the AIRISE services (list and description included in the Annex of the Guide for Applicants)* * *Give a timeline for your experiment. Please provide a GANTT chart with monthly details.* * *List which resources you plan to allocate for*   + *Personnel*   + *Consumables*   + *Travel and subsistence*   + *External services (subcontracting)* |

# Cost breakdown

Please specify estimated direct cost that is eligible according to Horizon Europe rules for Innovation Actions. The awarded funding will be calculated based on those figures. For further detail, please consult the guide for applicants and the provided Budget spreadsheet.

Please insert the table from the Budget spreadsheet here.

In case you consider subcontracting, please justify its necessity here:

*Please note that, in this call:*

* *Cost for equipment (depreciation) is not eligible*
* *Subcontracting of more than 15% of the total cost is considered to be an inefficient implementation of the experiment. You may provide reasons why more subcontracting is needed for the conduction of the experiment.*

# Results and their Impact

|  |  |  |
| --- | --- | --- |
| **Sectors addressed by the innovative product idea** | | |
| Health | Y/N | *Please indicated in a few words how it links to this sector* |
| Aerospace | Y/N | *Please indicated in a few words how it links to this sector* |
| Automotive | Y/N | *Please indicated in a few words how it links to this sector* |
| Consumer Goods | Y/N | *Please indicated in a few words how it links to this sector* |
| Electronics | Y/N | *Please indicated in a few words how it links to this sector* |
| Energy | Y/N | *Please indicated in a few words how it links to this sector* |
| Industrial Equipment and Tooling | Y/N | *Please indicated in a few words how it links to this sector* |
| Construction | Y/N | *Please indicated in a few words how it links to this sector* |
| **Initial exploitation and communication plan** | | |
| *Please describe:*   * *Exploitation perspectives for a roll-out of the AI application in your company with a cost / revenue balance* * *Plans to share knowledge with other companies* * *Communication channels to disseminate achievements (events, newsletters, social media, etc.)* | | |

# Relevance to European economy

Please describe your experiment and product idea in relation to European economy

|  |
| --- |
| **Description of the European impact and cross border innovation** |
| * *Does the experiment need collaboration at European level?* * *Does a successful experiment address the European economy and its challenges (see also table on global challenges)* |

|  |  |
| --- | --- |
| **Relation to global challenges** | |
| Environment | *Please indicate in a few words how it impacts the challenge* |
| Energy | *Please indicate in a few words how it impacts the challenge* |
| Mobility | *Please indicate in a few words how it impacts the challenge* |
| Health and Well-being | *Please indicate in a few words how it impacts the challenge* |
| Security | *Please indicate in a few words how it impacts the challenge* |

# Signature

We herein confirm that we will have the economic and technological capability to conduct the experiment as described in this proposal.

Applicant 1

I herein confirm that I do not have any economic, social, or political conflict of interest with AIRISE project partners which are listed on the web site (www.airise.eu).

Name of Signatory \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature + Stamp \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Place, Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. http://ec.europa.eu/research/participants/data/ref/h2020/other/wp/2018-2020/annexes/h2020-wp1820-annex-g-trl\_en.pdf [↑](#footnote-ref-2)