**ComFuturo iAGE (IV Edition) Call**

**Research Proposal**

**General Instructions:**

* This research proposal should not exceed 15 pages in total. All tables, figures, references and any other element included in the different sections will be considered integral part of the proposal, and will therefore be counted in this page limit.
* These initial instructions may be deleted from the final version of the document
* Use Arial font size 11, with margins: 3.0 cm sides, 2.5 cm top and bottom, and single line spacing
* Language: English
* References may be listed in footnotes, in Arial font, at least size 8
* Tables and Gantt Chart may be written in Arial font, at least size 8
* The name and surname of the applicant researcher and the title of the research proposal must appear at the top of the document
* Please remember that fellowships are based on an individual, freely-chosen project within the eligible research topics outlined in the ComFuturo Call Guidelines (the chosen research topic must be indicated)
* This document must be converted to PDF and merged with the Curriculum vitae PDF, in a way that a single PDF document is submitted in the corresponding application with a maximum of 7 MB, named as “ComFuturo iAGE\_Surname\_Name\_CV&Research\_Proposal”
* The final PDF document to be submitted must include the digital signature of the applicant

**↘ APPLICANT DATA**

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| **TITLE (Dr. Prof…)** |  |
| **SURNAME(S)** |  |
| **NAME** |  |
| **GENDER** (woman / man / non-binary/ prefer not to say) |  |
| **NATIONALITY**  |  |
| **AFFILIATION (University, organization…)** |  |
| **COUNTRY** |  |
| **LAST FOREIGN COUNTRY (OTHER THAN SPAIN) OF RESIDENCE OR MAIN ACTIVITY (WORK, STUDIES…)** |  |
| **BIRTH DATE***(dd/mm/yyyy)* |  |
| **DATE OF OBTENTION OF FIRST PhD** *(dd/mm/yyyy)**Date of public defence/approval (not diploma). Must be on/after 9 Jan 2018. Counted from first PhD.* |  |
| **PASSPORT / ID NUMBER**  |  |
| **OPEN RESEARCHER AND CONTRIBUTOR ID (ORCID)** |  |
| **TELEPHONE / MOBILE 1**  |  |
| **TELEPHONE / MOBILE 2** |  |
| **EMAIL ADDRESS** |  |
| **CURRENT EMPLOYMENT ORGANISATION** |  |
| **CURRENT EMPLOYMENT POSITION** |  |

**↘ PROJECT DATA**

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| **TITLE OF THE PROJECT** |
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| **ACRONYM***The acronym or short title must be no longer than 20 characters* |
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| **KNOWLEDGE AREA***Underline that applicable (only one)* |
|  **Area 1. CSO / Social Sciences** **Area 2. DER / Law** **Area 3. ECO / Economy** **Area 4. MLP / Mind, language and thought** **Area 5. FLA / Culture: Philology, literature and art** **Area 6. PHA / Studies of the Past: History and Archeology** **Area 7. EDU / Educational sciences** **Area 8. PSI / Psychology** **Area 9. MTM / Mathematical sciences** **Area 10. FIS / Physical sciences** **Area 11. PIN / Industrial production, civil engineering and engineering for society** **Area 12. TIC / Information and communication technologies** **Area 13. EYT / Energy and transportation** **Area 14. CTQ / Chemical Sciences and Technologies** **Area 15. MAT / Materials science and technology** **Area 16. CTM / Environmental Sciences and Technologies** **Area 17. CAA / Agricultural and agri-food sciences** **Area 18. BIO / Biosciences and biotechnology** **Area 19. BME / Biomedicine** |

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| **RESEARCH TOPIC***Underline or highlight that applicable (only one)* |
| 1. **Impact of Cellular Hypoxia on Ageing-Related Diseases***(2 fellowships to be awarded in this topic)*
2. **Natural Language Technologies for Accessible, Cognitive-Aware and Personalized Communication in Older Adults**
3. **Smart Homes for Older Adults: Sensors and Technologies for Invisible and Personalised Care**
4. **Digital Solutions and Platforms for Healthy, Safe and Socially Active Ageing in Older Adults**
5. **AI-Powered Prediction of Early Ageing and Strategies for Rejuvenation** *(Institute for Neuroscience, IN)*
6. **Digital Environmental Sensing and Climate-Aware Urban Ecosystems for Healthy Ageing** *(Desertification Research Centre, CIDE)*
7. **Digital Twins for Anticipatory Geriatric Care** *(Centre for Molecular Biology “Severo Ochoa”, CBM)*
8. **Mechanical Markers of Tissue Dysfunction Due to Ageing: Digital Twins and Machine Learning** *(Institute for Integrative Systems Biology, I2SysBio)*
9. **Big Data and AI to Unravel the Role of Complex Structural Variants in Ageing** *(Botanical Institute of Barcelona, IBB)*
10. **Personalised AI for Healthy Ageing: Social Robots as Adaptive Support Systems** *(Artificial Intelligence Research Institute, IIIA)*
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| **KEYWORDS***Maximum 5* |
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| **PROPOSAL SUMMARY***Summary of objectives and strategies for their consecution. Maximum of 2,000 characters, including blanks. It must not contain confidential information* |
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| **NAME OF PROPOSED CSIC HOST INSTITUTE** *(predefined for eligible topics E-J)* |
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| **RELEVANCE***Explain the relevance of the project in relation to the selected call topic and to the overall scope of the ComFuturo programme. Clearly describe how the project contributes to advancing the current state of knowledge in its field, and why it is important at this point in time, both scientifically and socially. Emphasize how the proposal directly addresses the challenges and priorities defined in the call and aligns with the broader strategic areas of the ComFuturo programme (e.g., ageing, sustainability, digital transformation, or other relevant domains).* |
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| **SCIENTIFIC RATIONALE***Describe the scientific and/or technological challenge the project addresses, and justify its relevance specifically within the context of ageing (key challenge for ComFuturo iAGE projects). Explain its significance for advancing knowledge and for delivering solutions to this challenge. If applicable, indicate how the project contributes to the digital transformation. Provide an assessment of the proposal’s feasibility.* |
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| **ORIGINALITY AND PROGRESS BEYOND THE STATE OF THE ART***Describe what makes the project original and innovative compared to existing approaches. Indicate how it goes beyond the state of the art and its potential to open new research directions or applications. Describe any novel concepts, approaches, or experimental techniques that will be implemented. If the project involves digital technologies, explain their innovative character.* |
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| **INTERDISCIPLINARITY, INTERNATIONALISATION AND INTERSECTORALITY** *Explain how the project integrates knowledge or methods from different disciplines, involves international collaborations, or connects with non-academic sectors (industry, public institutions, NGOs, etc.).* |
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| **GENDER DIMENSION***Explain how sex, gender, and/or intersectional analysis will be integrated into the research content, where relevant. If not relevant, provide a justification. Describe how gender balance and equal opportunities will be promoted within the project team and activities.* |
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| **OPEN SCIENCE***Describe how open science practices will be implemented to ensure project results are accessible to the scientific community and society at large. Indicate how you will provide open access to publications and, whenever possible, openly share other research outputs (e.g. data, protocols, software), in line with the FAIR principles (Findable, Accessible, Interoperable, Reusable).* |
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| **DATA MANAGEMENT***types of data expected and how data quality and integrity will be ensured. State that a Data Management Plan (DMP) will be prepared and updated as the project progresses, following EU and institutional requirements.* |
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**IMPACT**

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| **EXPECTED IMPACT AND APPLICABILITY***Describe the main expected scientific results and outputs of the project, and explain their potential applicability, relevance, or use in society, policy, or industry. Emphasize anticipated benefits for ageing populations and, if relevant, the expected contribution to digital transformation. Indicate how the results could be transferred to the productive sector or support social innovation.* |
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| **DISSEMINATION AND EXPLOITATION PLAN (DEP)***Describe the planned actions for dissemination (e.g., publications, conferences, social media), exploitation (e.g., patents, licensing, industry partnerships), and, where appropriate, public engagement. Explain how findings will be shared with the scientific community, stakeholders, and the general public. Indicate how you plan to maximize uptake, application, or transfer of results, with particular attention to ageing populations and, if applicable, contributions to digital transformation.*  |
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**IMPLEMENTATION**

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| **WORK PLAN***Present the overall structure of the work plan, including main objectives, associated milestones, methodology, tasks, and deliverables. Include an assessment of feasibility, risks, and strategies to mitigate them. Describe the methods and techniques to achieve the objectives, and, if applicable, indicate how digitalization is integrated into methodology, data analysis, or implementation. Provide a clear time schedule aligning activities with milestones; inclusion of a Gantt chart is recommended.* |
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| **Objective 1:** |
| **Milestone 1.1:** |
| **Milestone 1.2:** |
| **Milestone 1.3:** |
| **…** |
| **Assessment of feasibility and Risk analysis:** |
| **Objective 2:** |
| **Milestone 2.1:** |
| **Milestone 2.2:** |
| **Milestone 2.3:** |
| **…** |
| **Assessment of feasibility and Risk analysis:** |
| **Objective 3:** |
| **Milestone 3.1:** |
| **Milestone 3.2:** |
| **Milestone 3.3:** |
| **…** |
| **Assessment of feasibility and Risk analysis:** |
| **Objective 4:** |
| **Milestone 4.1:** |
| **Milestone 4.2:** |
| **Milestone 4.3:** |
| **…** |
| **Assessment of feasibility and Risk analysis:** |

**METHODOLOGY:****TIME SCHEDULE (E.g. GANTT CHART):** |

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| **HOST CSIC INSTITUTE INTEGRATION***Explain how the project will integrate into the host CSIC institute, including available infrastructure, expertise, collaborations, and synergies that will support successful implementation. Justify why the chosen host institute is suitable for achieving the project’s objectives and methodology.* |
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