

# European Research Council Convocatorias WP 2024



## Algunos consejos

21 de septiembre de 2023

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NCP ERC FECYT

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## Algunos consejos

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- 2. Escribir la part B1 (CV + track record)**
- 3. Escribir la part B1a + part B2**

## Algunos consejos

- 1. Entender el proceso**
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- 3. Escribir la part B1a + part B2**




# ERC 2024 – individual Schemes - Structure of the proposal

One deadline | 2 steps evaluation process

**The ERC full proposal = part B1 + part B2 + Part A\***

## Part B1 - pdf

Cover Page and summary (1p)  
Extended Synopsis (5p)  
Curriculum vitae +  
Track-record (4p) 

*Evaluated in Step 1*

## Part B2 - pdf

Section a: SoA & objectives  
Section b: Methodology (14p)

*NOT evaluated in Step 1  
(only in Step 2)*

## Part A – online forms

**A1 General Information**  
**A2 Participants**  
**A3 Budget\***  
table + description (8000c)  
**A4 Ethics and security**  
**A5 Other questions**  
% Time commitment\*  
Excluded Reviewers (up to 3)

## Annexes

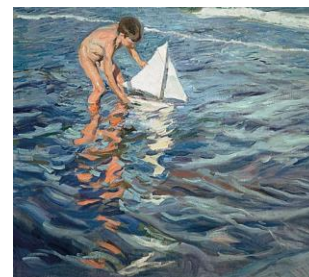
HI support letter  
PhD certificate  
Ethics and security issues  
Eligibility window

# The ERC proposal

**Intrigue** (part B1)

**Convince** (part B2)

**Inspire** (Parts B1+B2+ interview)



- Important challenges
- Ambitious objectives beyond SoA (novel concept or approach)
- Feasibility of outlined scientific approach
- Appropriate research methodology and working arrangements
- Timescales and resources and PI commitment

# ERC 2023 - Evaluation panels

There are in total 28 panels, divided between three main domains:

- Physical Sciences and Engineering (PE) with 11 panels
- Life Sciences (LS) with 9 panels
- Social Sciences and Humanities (SH) with 8 panels

Each panel is composed by **12-18 panel members**.

The panel chair is known during the evaluation however the composition is made public once the results are published.

A panel may not include an expert in your discipline, they are semi-generalists

**The members of ERC panels alternate to allow panel members to apply to the ERC calls in alternate years.**

**Only the Panel chairs are public knowledge !**

The full list of **panel members and remote referees** will be published later.



## ERC-2023-Advanced Grant.

### Panel Chairs

Physical sciences and engineering

PE1 Prof. Sara van de Geer

PE2 Prof. Maria Borge

PE3 Prof. Cait MacPhee

PE4 Prof. Malcolm Levitt

PE5 Prof. Bruno Chaudret

PE6 Prof. Peter Druschel

PE7 Prof. Peter Kennedy

PE8 Prof. Michael Graetzel

PE9 Prof. Carlos Frenk

PE10 Prof. Stefan Wiemer

PE11 Prof. Jean-Marie Tarascon

# ERC Panel Structure 2024

## Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical & Analytical Chemical Sciences
- PE5 Synthetic Chemistry and Materials
- PE6 Computer Science & Informatics
- PE7 Systems & Communication Engineering
- PE8 Products & Process Engineering
- PE9 Universe Sciences
- PE10 Earth System Science
- PE11 Materials Engineering



**Open to any field  
of research**

## Life Sciences

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions
- LS2 Integrative Biology: from Genes and Genomes to Systems
- **LS3 Cell Biology, Development, Stem Cells and Regeneration**
- LS4 Physiology in Health, Disease and Ageing
- **LS5 Neuroscience and Disorders of the Nervous System**
- LS6 Immunity, Infection and Immunotherapy
- LS7 Prevention, Diagnosis and Treatment of Human Diseases
- LS8 Environmental Biology, Ecology and Evolution
- LS9 Biotechnology and Biosystems Engineering

## Social Sciences and Humanities

- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Governance and Legal Systems
- SH3 The Social World and its **Interactions**
- SH4 The Human Mind and Its Complexity
- SH5 **Text and Concepts**
- SH6 The Study of the Human Past
- SH7 Human Mobility, Environment, and Space
- **SH8 Studies of Cultures and Arts**



# ERC Evaluation panels + Panel Members



**European Research Council**  
Established by the European Commission

Search the website

Search

- Apply for a grant
- Manage your project
- Projects & statistics
- Support
- News & events
- About the ERC

Panel member name [Reset filters](#)

Review panels

(LS) Life Sciences

- LS1  LS2
- LS3  LS4
- LS5  LS6
- LS7  LS8
- LS9

(PE) Physical Sciences & Engineering

- PE1  PE2
- PE3  PE4
- PE5  PE6
- PE7  PE8
- PE9  PE10
- PE11

(SH) Social Sciences & Humanities

- SH1  SH2
- SH3  SH4
- SH5  SH6
- SH7

(SyG) Synergy Grants

- 

Showing results 1 - 50 of 73

[Export as XLS](#)

Review panel	Funding schemes	Review panel member name	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014
SH6	StG	Renata Ago										
SH6	StG	Gadi Algazi										
SH6	StG	Bethany Aram										
SH6	StG	David Armitage										
SH6	StG	Pascal Arnaud										
SH6	StG	Judith Barringer										
SH6	StG	John Bintliff										
SH6	StG	Felix Bittmann										
SH6	StG	Maria Christina Chatzioannou										
SH6	StG	Samuel Cohn										
SH6	StG	Felipe Criado Boado										
SH6	StG	Julia Crick										
SH6	StG	Francesco D'Errico										
SH6	StG	Roumen Daskalov										
SH6	StG	Raf De Bont										
SH6	StG	Luuk de Ligt										
SH6	StG	Jean-Denis Charles J. Dupuy										



# ERC Evaluation panels + Panel Members

## SH7 Human Mobility, Environment, and Space keywords

- SH7\_1 Human, economic and social geography
- SH7\_2 Migration
- SH7\_3 Population dynamics: households, family and fertility
- SH7\_4 Social aspects of health, ageing and society
- SH7\_5 Sustainability sciences, environment and resources
- SH7\_6 Environmental and climate change, societal impact and policy
- SH7\_7 Cities; urban, regional and rural studies
- SH7\_8 Land use and planning
- SH7\_9 Energy, transportation and mobility
- SH7\_10 GIS, spatial analysis; big data in geographical studies

The full list of ERC peer reviewers (**panel members and remote referees**) is been published by the European Commission after the conclusion of the current peer review process.

## SH7 Human Mobility, Environment, and Space Panel members in the ERC Starting Grant 2022 peer review, appointed by the ERC Scientific Council.

1. Arnstein Aassve (**Panel Chair**)
2. Francois Bousquet
3. Albert Esteve
4. Davide Geneletti
5. Michael Frank Goodchild
6. Sigal Kaplan
7. Rob Kitchin
8. Allan Krasnik
9. Helga Leitner
10. Elena Nikitina
11. Lennart Olsson
12. Susan Parnell
13. George Petrakos
14. Jenny Phillimore
15. Christopher Raymond
16. Mark Rosenberg Hanne Svarstad
17. Elisabet Viladecans-Marsal

[https://erc.europa.eu/sites/default/files/2023-01/Panel\\_Members\\_ERC\\_Starting\\_Grant\\_2022.pdf](https://erc.europa.eu/sites/default/files/2023-01/Panel_Members_ERC_Starting_Grant_2022.pdf)

Remote referees. Experts list. Year: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents>

# ERC 2023 Evaluation panels + Panel Members

## SH7 Human Mobility, Environment, and Space keywords

- SH7\_1 Human, economic and social geography
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(Principal Investigator)

## SH7 Human Mobility, Environment, and Space Panel members in the ERC Starting Grant 2022 peer review, appointed by the ERC Scientific Council.

1. Arnstein Aassve (Panel Chair)
2. Francois Bousquet
3. Albert Esteve ← (Lead Reviewer)
4. Davide Geneletti
5. Michael Frank Goodchild
6. Sigal Kaplan
7. Rob Kitchin
8. Allan Krasnik
9. *Helga Leitner*
10. Elena Nikitina
11. Lennart Olsson
12. Susan Parnell
13. *George Petrakos*
14. *Jenny Phillimore*
15. Christopher Raymond
16. Mark Rosenberg Hanne Svarstad
17. Elisabet Viladecans-Marsal

By default, the proposal is allocated to the panel indicated at submission

- **Your choice** is respected as much as possible but...
- The panel chair can decide to **transfer** a proposal (with the agreement of the receiving panel chair)
- Once transferred, it is treated **the same** as the other proposals in the (new) panel

# ERC 2023 Evaluation panels + Panel Members + External Referees

## SH7 Human Mobility, Environment, and Space keywords

- SH7\_1 Human, economic and social geography
- SH7\_2 Migration
- SH7\_3 Population dynamics: households, family and fertility
- SH7\_4 Social aspects of health, ageing and society
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- SH7\_8 Land use and planning
- SH7\_9 Energy, transportation and mobility
- SH7\_10 GIS, spatial analysis; big data in geographical studies

(Principal Investigator)

## SH7 Human Mobility, Environment, and Space Panel members in the ERC Starting Grant 2022 peer review, appointed by the ERC Scientific Council.

1. Arnstein Aassve (Panel Chair)
2. Francois Bousquet
3. Albert Esteve ← (Lead Reviewer) →
4. Davide Geneletti
5. Michael Frank Goodchild
6. Sigal Kaplan
7. Rob Kitchin
8. Allan Krasnik
9. Helga Leitner →
10. Elena Nikitina
11. Lennart Olsson
12. Susan Parnell
13. George Petrakos →
14. Jenny Phillimore →
15. Christopher Raymond
16. Mark Rosenberg Hanne Svarstad
17. Elisabet Viladecans-Marsal

## External referees

Proposes 10 external referees for the second step of the evaluation

+ 10



+ 10



+ 10



.....



**Experts identification tool: Prophy** The ERCEA informed the ScC members about Prophy, the support tool for the identification of potential panel members and remote referees for the evaluation of proposals

<https://www.prophy.science/referee-finder/>

**Experts identification tool: Prophy**

# The interview

Presentation (3-10 min.) + Question (15-25min) = Total 30min

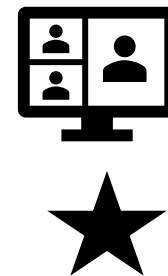
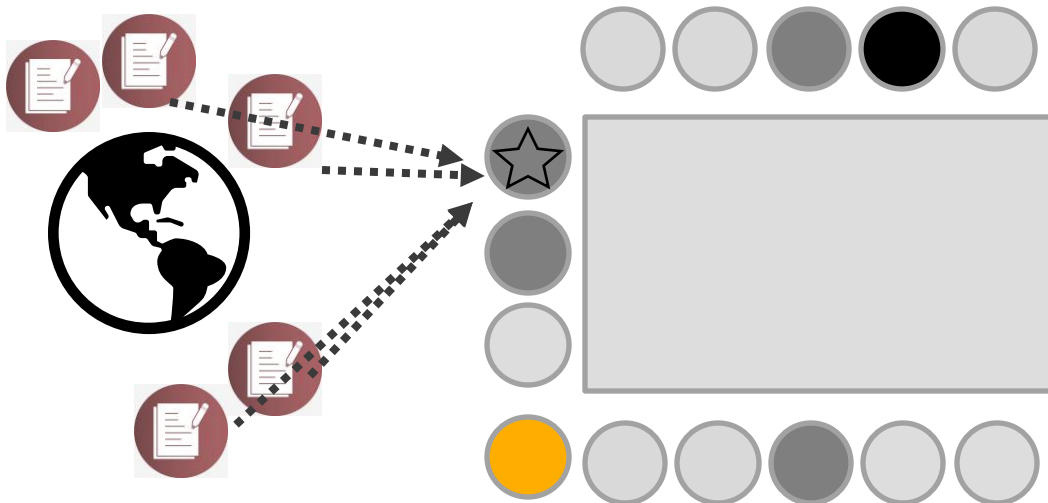
Panel members: Top Science Experts, but possibly no expert in your field

Reports from Top Science Experts in your field

**Consensus** must be reached

## Challenges:

- Present your project to general audience
- Answer technical questions from experts
- Answer broad questions from non-experts
- English
- Panel members on site but PI remote



- Panel Chair
- Panel members involved
- ★ Lead reviewer
- Other panel members
- Reporter
- Evaluation Summary Reports from External experts
- ★ Principal Investigator



## Algunos consejos

- 1.** Entender el proceso
- 2.** Escribir la part B1 (CV + track record)
- 3.** Escribir la part B1a + part B2

# ERC 2024 - CV & track record (4 pages)



New **CV and Track Record template** (4 pages)

**Personal details:** education, key qualifications, current position(s) and relevant previous positions.

**Research achievements (<=10)** a list of up to 10 research outputs:

- demonstrating advancement in the field
- emphasis on more recent achievements
- short narrative on significance of achievements

**Peer recognition:** a list of selected examples of significant prizes, fellowships, academy membership, etc.

**Additional information:**

- career breaks, diverse career paths, life events
- other contributions to research community

## The Declaration on Research Assessment (DORA)

- Journal Impact Factor NOT allowed
- Short narrative achievements

**COARA** The Agreement on Reforming Research Assessment

**A short explanation of the significance of the selected outputs**, the role of the applicant in producing each of them, and how they demonstrate the applicant's capacity to successfully carry out their proposed project may be included, as well as a short explanation of the importance of the listed examples of significant peer recognition.

The applicant may also include relevant information on, for example, career breaks, unusual career paths, as well as any particularly noteworthy contributions to the research community. These will not in themselves be evaluated but are important to provide context to the evaluation panels when assessing the principal investigator's research achievements and peer recognition in relation to their career stage.

# ERC 2024 - CV & track record (4 pages)

Applicant's last name Part B1 ACRONYM

Section b: Curriculum vitae and Track Record (max. 4 pages)

*[You may modify the below template if necessary.]*

## PERSONAL DETAILS

*[Provide your personal details, your education and key qualifications, current position(s) and relevant previous positions you have held.]*

Family name, First name:

Researcher unique identifier(s) (such as ORCID, Research ID, etc. ...):

URL for web site:

### • Education and key qualifications

DD/MM/YYYY PhD

Name of Faculty/ Department, Name of University/ Institution, Country

Name of PhD Supervisor

YYYY

Master

Name of Faculty/ Department, Name of University/ Institution, Country

### • Current position(s)

YYYY - YYYY Current Position

Name of Faculty/ Department, Name of University/ Institution/ Country

YYYY - YYYY Current Position

Name of Faculty/ Department, Name of University/ Institution/ Country

### • Previous position(s)

YYYY - YYYY Position held

Name of Faculty/ Department, Name of University/ Institution/ Country

YYYY - YYYY Position held

Name of Faculty/ Department, Name of University/ Institution/ Country

## RESEARCH ACHIEVEMENTS AND PEER RECOGNITION

Research achievements

*[Provide a list of up to ten research outputs that demonstrate how you have advanced knowledge in your field with an emphasis on more recent achievements, such as publications, articles deposited in a publicly available preprint server, books, book chapters, conference proceedings, data sets, software, patents, licenses, standards, start-up businesses or any other research outputs you deem relevant in relation to your research field and your project.]*

*[You may include a short, factual explanation of the significance of the selected outputs, your role in producing each of them, and how they demonstrate your capacity to successfully carry out your proposed project.]*

Peer recognition

*[Provide a list of selected examples of significant recognition by your peers if applicable, such as prizes, awards, fellowships, elected academy memberships, invited presentations to major conferences or any other examples of significant recognition you deem relevant in relation to your research field and project.]*

*[You may include a short explanation of the significance of the listed examples.]*

Applicant's last name Part B1 ACRONYM

## ADDITIONAL INFORMATION

*[You may provide relevant additional information on your research career to provide context to the evaluation panels when assessing your research achievements and peer recognition as described above.]*

Career breaks, diverse career paths and major life events

*[You may include a short factual explanation of career breaks or diverse career paths such as secondments, volunteering, part-time work, time spent in different sectors or the effects of major life events such as long term illness as well as the effects of pandemic restrictions on research productivity.]*

Other contributions to the research community

*[You may include a list of particularly noteworthy contributions to the research community you have made other than research achievements and peer recognition and a short explanation of these contributions. The purpose of this section is to allow the panels to take a more rounded view of your career and achievements and to ensure that any additional responsibilities, commitments and leadership roles that you have taken on beyond your individual research activities are recognised and taken into account.]*

*[(for more information see 'Information for Applicants to the Starting and Consolidator Grant 2024 Calls')]*

**Do NOT split the sections and/or references in Part B1 and do NOT upload them as separate documents. The peer reviewers will only receive one single document for evaluation at Step 1. Hence, Part B1 should contain all elements as explained in this template. If some parts of Part B1 are uploaded in the submission system as separate attachments, the peer reviewers will not have access to them.**



# Section B1 CV+TR

## Personal details

- **Personal Information:** declaración de hechos/ actualizar webs
- **Education:** PhD, Master, Licenciatura/ director(a) PhD/ distinciones
- **Current Position(s):** dobles afiliaciones/ posición adecuada para el proyecto
- **Previous Position(s):** si no hay movimientos, destacar los hechos por etapa

POSITION	FUNDING: GRANTS AND FELLOWSHIPS
2013 – 2018 Ramón y Cajal Fellow, Group Leader. ICMol, UV, Spain	Ramón y Cajal Fellowship (Spanish government)
2011 – 2013 Research Associate, ICMol, UV, Spain	
2010 – 2011 Marie Curie fellow, ICMol, UV, Spain	Marie Curie Int. Out. Fellowship (CORDIS-FP7)
2008 – 2010 Marie Curie fellow, PITP, UBC, Canada	
2007 – 2008† Postdoctoral fellow, PITP, UBC, Canada	Postdoctoral Fellowship, (Spain)
2007†: Postdoctoral fellow, ICMol, UV, Spain † : until I resigned to accept the next Fellowship	Postdoctoral Fellowship (Valencian regional government)
2004 – 2007 Research Associate, ICMol, UV, Spain	
2000 – 2004: Early Stage Researcher, Dept. Inorg. Chem, UV, Spain	Predocctoral Grant (Valencia)
1998 – 1999 Student Collaborator, Dept. Inorg. Chem, UV, Spain	Collaboration Grant, (Spain)



# Section B1 CV+TR

## Personal details

Section b: Curriculum Vitae

**PERSONAL INFORMATION**

Gaita-Ariño, Alejandro Date of birth: May 26, 1976  
Instituto de Ciencia Molecular, Universidad de Valencia (UV)  
c/ Catedrático José Beltrán, 2, 46100, Paterna, Spain  
Tel: +34 96 354 4421 Fax: +34 96 354 3273

web page: <http://www.uv.es/gaita> e-mail: [alejandro.gaita@uv.es](mailto:alejandro.gaita@uv.es)  
Researcher ID: D-2110-2014



**EDUCATION**

2004	PhD in Chemistry (grade: excellent Cum Laude)	University of Valencia, Spain
1999	MSc in Chemistry (grade: excellent)	Prof. E. Coronado and Dr. J.M. Clemente-Juan University of Valencia, Spain

**POSITION**

2013 – 2018	Ramón y Cajal Fellow, Group Leader. ICMol, UV, Spain	<b>Ramón y Cajal Fellowship</b> (Spanish government)
2011 – 2015	Research Associate, ICMol, UV, Spain	
2010 – 2011	Marie Curie fellow, ICMol, UV, Spain	<b>Marie Curie Int. Out. Fellowship</b> (CORDIS-FP7)
2008 – 2010	Marie Curie fellow, PITP, UBC, Canada	
2007 – 2008†	Postdoctoral fellow, PITP, UBC, Canada	<b>Postdoctoral Fellowship</b> , (Spain)
2007†	Postdoctoral fellow, ICMol, UV, Spain † : until I resigned to accept the next Fellowship	<b>Postdoctoral Fellowship</b> (Valencian regional government)
2004 – 2007	Research Associate, ICMol, UV, Spain	
2000 – 2004	Early Stage Researcher, Dept. Inorg. Chem, UV, Spain	<b>Predoctoral Grant</b> (Valencia)
1998 – 1999	Student Collaborator, Dept. Inorg. Chem, UV, Spain	<b>Collaboration Grant</b> , (Spain)

**RESEARCH INTERESTS**

My research interests are in molecular magnetism and quantum computing. I am currently interested in

- (1) the theoretical modeling of molecular nanomagnets (in particular rare-earth single-ion magnets),
- (2) the rational design of molecular spin qubits and of schemes for implementing quantum gates and
- (3) the modeling of the coupling of lattice phonons with molecular excitations.

**SUPERVISION OF GRADUATE STUDENTS (2004-2014) and RESEARCH TEAM**

Masters + PhD thesis (past): S. Cardona-Serra, M. A. Abdallah Aldamen  
Masters + PhD thesis (ongoing): J. J. Baldovi Jachán, L. Escalera Moreno  
I currently lead a small research team formed by S.CS (postdoc), JTB (PhD) and LEM (Master).

**RESEARCH STAYS and MAIN COLLABORATORS**

ongoing collaborations with	Prof. D. Loss, Universität Basel, CH	
	Dr. S. Hill, National High Magnetic Field Lab., US	
	Dr. F. Luis, Universidad de Zaragoza, ES	
	Dr. L. Bogani, Universität Stuttgart, DE	
	Dr. M. Schächter, Ben Gurion University, IL	

2013	1 short research stays at Institut für Physik (Basel, CH).	3 weeks
2007-2010	1 postdoctoral stay at Pacific Institute of Theoretical Physics (Vancouver, CA)	3 years
2006	2 research stays at Institut für Physik (Basel, CH).	3 months
1999 – 2005	5 short visits to the Institut Laue Langevin (Grenoble, FR)	2 weeks
2005 – 2006	2 research stays at Université Paul Sabatier (Toulouse, FR)	7 months

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<https://www.uv.es/gaita/decrecim.html>

Baroni Part B1 ALIEN

Section b: Curriculum vitae

**PERSONAL INFORMATION**

Family name, First name: Baroni, Marco  
ORCID: 0000-0001-5066-3580  
Date of birth: November 1<sup>st</sup>, 1970  
Nationality: Italian  
URL for web site: <https://marcobaroni.org/>  
Google Scholar: <https://scholar.google.com/citations?user=l-xu2w0AAAAJ&hl=en>  
GS indicators (retrieved July 24<sup>th</sup> 2020): h-index 51 (42 since 2015); tot. citations 14,288 (10,060 since 2015)  
Full curriculum: [https://marcobaroni.org/baroni\\_short\\_cv.html](https://marcobaroni.org/baroni_short_cv.html)

- EDUCATION**

2000	PhD: Department of Linguistics, UCLA (California, USA)
1997	Master: Department of Linguistics, UCLA (California, USA)

- CURRENT POSITIONS**

2019 –	ICREA research professor Department of Translation and Language Sciences, Pompeu Fabra University (Spain)
2016 – 2021	Research scientist Facebook AI Research (France)

- PREVIOUS POSITIONS**

2006 – 2018	Associate professor (tenured researcher until Feb 2013) Center for Mind/Brain Sciences, University of Trento (Italy)
2002 – 2006	Tenured researcher SITTEC Department, University of Bologna (Italy)
2001 – 2002	Researcher Austrian Research Institute for Artificial Intelligence (Austria)
2000 – 2001	Computational linguist Conversay Conversational Computing (Washington, USA)

- FUNDED PROJECTS (as PI), FELLOWSHIPS AND AWARDS**

2015 – 2017	Marie Skłodowska-Curie project (supervisor) (EU)
2011 – 2016	ERC Starting Grant (EU)
2014 – 2018	ICT Cost Action (dissemination officer until 2015) (EU)
2010	Google Research Award (USA)
2010 – 2012	National PRIN project (Italy)
2009 – 2011	National FIRB project (Italy)
2007	Invited Scholar Fellowship, National Institute for Japanese Language (Japan)
2005	Marco Polo Research Abroad Scholarship, University of Bologna (Italy)
1995 – 2000	Chancellor Fellowship, UCLA (USA)
1993 – 1994	EAP Fellowship, UCLA (USA)

**Publication awards and nominations:** ACL 10-year Test of Time award (2020), ACL 10-year Test of Time nomination (2020), IJCAI-JAIR 5-Year Best Paper award (2017), EMNLP Best Paper nomination (2013), WAC4 Workshop Best Paper award (2008)

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<https://marcobaroni.org/alien/>

# Section B1 CV+TR

## Research achievements (<=10)

**Research achievements (<=10)** a list of up to 10 research outputs:

- demonstrating advancement in the field
- emphasis on more recent achievements
- short narrative on significance of achievements

**A short explanation of the significance of the selected outputs, the role of the applicant in producing each of them, and how they demonstrate the applicant's capacity to successfully carry out their proposed project may be included**

***the importance of narrative!***

# Section B1 CV+TR

## Research achievements (<=10)

- **Publications (some Selected Publications)**
- **Research monographs / Books (w. translations)**
- **Funding: Projects:** los pasados. Los actuales en sección Funding ID
- **Outreach – Press – Media**
- **Patents**
- **Documentaries/audiovisual productions**
- **Archaeological campaigns**
- **Research Expeditions:** no son field works/ larga duración/lideradas o participadas
- **Industrial/Architectural Designs**
- **Innovation leadership:** para aquellos campos que tenga una relación directa entre el estudio y la aplicabilidad en el mundo real
- **Contributions to regulations/normatives**

# Section B1 CV+TR

## Research achievements (<=10)

- **Publications (some Selected Publications)**
- Research monographs / Books (w/ translations)
- Funding:
- Outreach
- Patents
- Documents
- Archaeology
- Research Experiences: no son field works / larga duración / lideradas o participadas
- **Industrial/Architectural Designs**
- **Innovation leadership:** para aquellos campos que tenga una relación directa entre el estudio y la aplicabilidad en el mundo real
- **Contributions to regulations/normatives**

***“field-relevant bibliometric indicators may also be included”.***

✓ Sólo si agregan valor a su presentación como investigador/a.

**Sólo indicadores que sean relevantes para tu campo.**

✓ Si el H-Index no es relevante para el campo, no lo uséis. Si hay una alternativa mejor, usad esa. Si no, no mencionar ningún indicador.



# Section B1 CV+TR

## Research achievements (<=10)

<https://marcobaroni.org/alien/>

*Journals and selected book chapters*  
*Journal Citation Reports if available; in all other cases, journal category from European Science Foundation ERIH Initial List: Linguistics (2007)*

M. **Baroni** and A. Lenci. To appear. Distributional Memory: A general framework for corpus-based semantics. *Computational Linguistics*. Journal ranked in Q1 of *Linguistics and Computer Science, Interdisciplinary Applications*. Citations: 1. Here and in the Cognitive Science paper below, I introduce a new corpus-based semantic model of word meaning that adapts flexibly to multiple semantic tasks and shares interesting properties with human semantic cognition. The model and its extensive evaluation work reported in these articles will constitute starting points for COMPOSES model and evaluation.

G. Kremer and M. **Baroni**. To appear. A set of semantic norms for German and Italian. *Behavior Research Methods*. Journal ranked in Q1 of *Psychology, experimental* and *Psychology, mathematical*. Citations: 0.

M. **Baroni**, B. Murphy, E. Barbu and M. Poesio. 2010. Strudel: A corpus-based semantic model based on properties and types. *Cognitive Science* 34 (2): 222-254. Journal ranked in Q1 of *Psychology, experimental*. Citations: 9.

V. Pirrelli, E. Guevara and M. **Baroni**. 2010. Computational issues in compound parsing. In S. Scalise and I. Vogel (eds.), *Cross-disciplinary issues in compounding*, Amsterdam: Benjamins: 271-286. Citations: 0.

M. **Baroni**, S. Bernardini, A. Ferraresi and E. Zanchetta. 2009. The WaCky Wide Web: A collection of very large linguistically processed Web-crawled corpora. *Journal of Language Resources and Evaluation* 43 (3): 209-226. ERIH B category (formerly *Computers and the Humanities*, ERIH A category). Citations: 28. The corpus construction and annotation work described here has recently been extended with a full dependency parse of the English corpus and of the English Wikipedia. The resulting enlarged corpus will constitute the main data source of COMPOSES.

M. **Baroni**, E. Guevara and R. Zamparelli. 2009. The dual nature of deverbal nominal constructions: Evidence from acceptability ratings and corpus analysis. *Corpus Linguistics and Linguistic Theory* 5 (1): 27-60. ERIH C category. Citations: 1. We study a linguistic problem by combining corpus data, Web-collected graded linguistic judgments and advanced statistical analysis (mixed effect linear models). We will apply similar elicitation and analysis techniques in COMPOSES.

### SELECTED ACHIEVEMENTS



Front-page feature on international migration in *The New York Times* based on my PhD research (2007)



Award of largest-ever project grant in the welfare research area of the Research Council of Norway (2010)



Co-editing the 50th Anniversary Issue of the *International Migration Review*, the most prominent journal in my field (2014)



Discovery of 'scripts' as a conceptual tool for making sense of the social dynamics of remittances (2014)



Invitation to serve as expert panellist on migrant smuggling, United Nations, Vienna (2017)

Carling  
 Part B1  
 FUMI

**SELECTED PUBLICATIONS (REVERSE CHRONOLOGICAL ORDER)**

**Jemz** Carling, J. and Schewel, K. (2017, online ahead of print) 'Revisiting aspiration and ability in international migration.' *Journal of Ethnic and Migration Studies*:1-19. Google Scholar citations:..... 3

**IMR** Carling, J. (2014) 'Scripting remittances: making sense of money transfers in transnational relationships.' *International Migration Review*, 48:S218-S262. Google Scholar citations:..... 58

**Migration Studies** Carling, J., Endal, M.B. and Ezzati, R. (2014) 'Beyond the insider-outsider divide in migration research.' *Migration Studies*, 2(1):36-54. Google Scholar citations:..... 77

**IMR** Carling, J. and Pettersen, S.V. (2014) 'Return migration intentions in the integration-transnationalism matrix.' *International Migration*, 52(6):13-30. Google Scholar citations:..... 47

**BJPIR** Carling, J. and Hernandez-Carretero, M. (2011) 'Protecting Europe and protecting migrants?' *British Journal of Politics and International Relations*, 13(1):42-58. Google Scholar citations:..... 84

**ETHNIC RACIAL STUDIES** Carling, J. (2008) 'The human dynamics of migrant transnationalism.' *Ethnic and Racial Studies*, 31(8) 1452-1477. Google Scholar citations:..... 205

**Economic Policy** Carling, J. (2008) 'The determinants of migrant remittances.' *Oxford Review of Economic Policy*, 24(3):582-599. Google Scholar citations:..... 210

**IMR** Carling, J. (2007) 'Migration control and migrant fatalities at the Spanish-African borders.' *International Migration Review*, 41(2):316-343. Google Scholar citations:..... 238

**ETHNIC RACIAL STUDIES** Haugen, H.O. and Carling, J. (2005) 'On the edge of the Chinese diaspora: The surge of baihuo business in an African city.' *Ethnic and Racial Studies*, 28(4):639-662. Google Scholar citations:..... 162

**Journal of Ethnic and Migration Studies** Carling, J. (2002) 'Migration in the age of involuntary immobility: theoretical reflections and Cape Verdean experiences.' *Journal of Ethnic and Migration Studies*, 28(1):5-42. Google Scholar citations:..... 390

An analytical review article that examines bottlenecks and potential in migration research over the past fifteen years, identifies 'two-step approaches' and informs the current proposal.

A theory-building article that draws upon more than 100 ethnographic studies of migrant remittances and makes sense of the dynamics at work by invoking the sociological concept of 'scripts'.

A jointly authored article in which we draw upon personal experience to examine the role of the researcher's background in migration research. The article is currently on reading lists at several universities worldwide.

An empirical article on return migration that introduces an innovative framework for studying relations between integration and transnationalism.

A theoretical explanation of why extraterritorial surveillance and control has become a preferred approach to migration management. The refugee crisis of 2015-16 gave the article renewed relevance, reflected in citations.

An ethnographically based analysis of unequal relationships between migrants and the people they leave behind. It is referenced in the work of the foremost scholars in the field, including R King, P Levitt, C Menjivar, and B Yeoh.

A review article that systematizes approaches to statistical analysis of the determinants of remittances. It quickly became a recurrent reference in new empirical work in economics and other disciplines.

The first systematic analysis of migrants' risk of dying at sea along Europe's southern borders. The article informed the growth of research on the dynamics of migrant smuggling and migrant fatalities in Europe.

An early study of Chinese economic expansion in Africa. This article became a key reference for the burgeoning study of China-Africa relations in the decade that followed its publication.

A key theoretical contribution to migration studies, focused on the aspiration/ability model and the notion of involuntary immobility. This article is cited with increasing frequency after fifteen years, rising to 63 citations in 2017.

# Section B1 CV+TR

## Research achievements (<=10)

### short narrative on achievements

**SELECTED ACHIEVEMENTS**

**The New York Times**  
Front-page feature on international migration in *The New York Times* based on my PhD research (2007)

**PREMIG**  
Possibilities and Realities of Return Migration  
Award of largest-ever project grant in the welfare research area of the Research Council of Norway (2010)

Co-editing the 50th Anniversary Issue of the *International Migration Review*, the most prominent journal in my field (2014)

**Discovery of 'scripts' as a conceptual tool for making sense of the social dynamics of remittances (2014)**

Invitation to serve as expert panellist on migrant smuggling, United Nations, Vienna (2017)

<https://jorgencarling.files.wordpress.com/2019/10/carling-erc-cv-and-track-record.pdf>

#### *Selected publications in leading peer-reviewed journals and selected book chapters*

*Journal rank quartile from ISI Web-of-Science Journal Citation Reports if available; in all other cases, journal category from European Science Foundation ERIH Initial List: Linguistics (2007)*

M. **Baroni** and A. Lenci. To appear. Distributional Memory: A general framework for corpus-based semantics. *Computational Linguistics*. Journal ranked in Q1 of *Linguistics* and *Computer Science, Interdisciplinary Applications*. Citations: 1. Here and in the Cognitive Science paper below, I introduce a new corpus-based semantic model of word meaning that adapts flexibly to multiple semantic tasks and shares interesting properties with human semantic cognition. The model and its extensive evaluation work reported in these articles will constitute starting points for COMPOSES model and evaluation.

G. Kremer and M. **Baroni**. To appear. A set of semantic norms for German and Italian. *Behavior Research Methods*. Journal ranked in Q1 of *Psychology, experimental* and *Psychology, mathematical*. Citations: 0.

M. **Baroni**, B. Murphy, E. Barbu and M. Poesio. 2010. Strudel: A corpus-based semantic model based on properties and types. *Cognitive Science* 34 (2): 222-254. Journal ranked in Q1 of *Psychology, experimental*. Citations: 9.

Pirrelli, E. Guevara and M. **Baroni**. 2010. Computational issues in compound parsing. In S. Scalise and I. Vogel (eds.), *Cross-disciplinary issues in compounding*, Amsterdam: Benjamins: 271-286. Citations: 0.

**Baroni**, S. Bernardini, A. Ferraresi and E. Zanchetta. 2009. The WaCky Wide Web: A collection of very large linguistically processed Web-crawled corpora. *Journal of Language Resources and Evaluation* 43 (3): 209-226. ERIH B category (formerly *Computers and the Humanities*, ERIH A category). Citations: 28. The corpus construction and annotation work described here has recently been extended with a full dependency parse of the English corpus and of the English Wikipedia. The resulting enlarged corpus will constitute the main data source of COMPOSES.

**Baroni**, E. Guevara and R. Zamparelli. 2009. The dual nature of deverbal nominal constructions: Evidence from acceptability ratings and corpus analysis. *Corpus Linguistics and Linguistic Theory* 5 (1): 27-60. ERIH C category. Citations: 1. We study a linguistic problem by combining corpus data, Web-collected graded linguistic judgments and advanced statistical analysis (mixed effect linear models). We will apply similar elicitation and analysis techniques in COMPOSES.

[http://marcobaroni.org/composes/composes\\_ERC\\_2011\\_StG\\_PartB1.pdf](http://marcobaroni.org/composes/composes_ERC_2011_StG_PartB1.pdf)



# Section B1 CV+TR

## Research achievements (<=10)

### COMPUTATIONAL LINGUISTICS RESOURCES

More information: <http://gboleda.utcompling.com/resources>.

- Corpora** **Leader**, [Wikicorpus](#): Freely available Wikipedia-based trilingual corpus (Catalan, Spanish, English), automatically annotated, over 750 million words.  
**Coordinator**, CUCWEB: 166-million word Web corpus for Catalan, automatically annotated.
- Tools** Collaborating researcher, POS-Tagger for Old Spanish. Freely available as part of the open source suite of language analyzers [FreeLing](#).  
Collaborating researcher, CatCG: Tagger and shallow parser for Catalan.
- Datasets** **Leader**, four freely available (CC BY-SA) [semantic datasets](#) on adjective semantics and regular polysemy.  
Collaborating researcher in a [fifth dataset](#) on the semantics of color terms.

[https://gboleda.github.io/proposals/B1-AMORE-ERC\\_StG\\_2016-def.pdf](https://gboleda.github.io/proposals/B1-AMORE-ERC_StG_2016-def.pdf)

### Selected publicly available tools and resources

- [WaCky](#) (with Silvia Bernardini and others): huge linguistically annotated corpora for multiple languages
- [DM](#) (with Alessandro Lenci): precompiled corpus-based semantic model and utilities
- [Semantic norms](#) for German and Italian (with Gerhard Kremer)
- [zipfR](#) (with Stefan Evert): a toolkit for lexical statistics in R
- [BootCaT](#) (with Silvia Bernardini): a toolkit for bootstrapping corpora and terms from the Web
- [Morph-it!](#) (with Eros Zanchetta): a free Italian morphological lexicon
- [La Repubblica corpus](#) (with Silvia Bernardini and others): a large corpus of Italian newspaper text

[http://marcobaroni.org/composes/composes\\_ERC\\_2011\\_StG\\_PartB1.pdf](http://marcobaroni.org/composes/composes_ERC_2011_StG_PartB1.pdf)

### FUNDED PROJECTS (as PI), FELLOWSHIPS AND AWARDS

- 2015 – 2017 Marie Skłodowska-Curie project (supervisor) (EU)
- 2011 – 2016 ERC Starting Grant (EU)
- 2014 – 2018 ICT Cost Action (dissemination officer until 2015) (EU)
- 2010 Google Research Award (USA)
- 2010 – 2012 National PRIN project (Italy)
- 2009 – 2011 National FIRB project (Italy)
- 2007 Invited Scholar Fellowship, National Institute for Japanese Language (Japan)
- 2005 Marco Polo Research Abroad Scholarship, University of Bologna (Italy)
- 1995 – 2000 Chancellor Fellowship, UCLA (USA)
- 1993 – 1994 EAP Fellowship, UCLA (USA)

**Publication awards and nominations:** ACL 10-year Test of Time award (2020), ACL 10-year Test of Time nomination (2020), IJCAI-JAIR 5-Year Best Paper award (2017), EMNLP Best Paper nomination (2013), WAC4 Workshop Best Paper award (2008)

[http://marcobaroni.org/composes/composes\\_ERC\\_2011\\_StG\\_PartB1.pdf](http://marcobaroni.org/composes/composes_ERC_2011_StG_PartB1.pdf)

# Section B1 CV+TR

## Research achievements (<=10)

### short narrative on achievements

Camprubí

DEEPMED

B1

#### Section c. Early achievements track record

##### PUBLICATIONS

According to Google Scholar, I have over 165 citations and an h-index of 6. Here is a selection of over 30 academic publications):

##### Books:

I have published 2 books and co-edited 2 volumes (the last one, currently under contract and under review, is to appear in 2020 with Springer's *Synthese Library* and brings together analytic philosophy with history of science, a highly risky, innovative, and fun endeavour). I have also co-edited 2 special issues. Here is a selection of the books:

1. *Engineers and the Making of the Francoist Regime* (Cambridge, Mass.: The MIT Press, 2014).

**The MIT Press, is the leading history of technology publisher. The book has been cited over 65 times and received 10 academic reviews, becoming a landmark in the history of science and technology in Spain, as well as a reference for studies on technoscience and fascism, political economy, and state building. I wrote an extended version for a Spanish audience which, with two editions of more than a thousand copies each, it has reached an audience well beyond historians of science and technology, leading to several interviews and reviews major Spanish media. Academicall, it has triggered important academic debates within the field of Spanish history and was awarded the ICOHTEC's 2018 book prize.**

2. co-edited with David Pretel, *Technology and Glonalisation: Networks of Experts in World History* (Palgrave MacMillan, Economic History Series, 2018). It brings together leading scholars from **history of technology and history of political economy** in an engaging conversation on **world history**, which we discuss in our historiographic introduction. Palgrave's Economic History Series is very prestigious in the field.

3. Lino Camprubí, Xavier Roqué, and Sáez de Adana, *De la Guerra Fría al calentamiento global: Estados Unidos, España y el nuevo orden científico mundial* (Madrid: La Catarata). This book, prepared in

[https://www.academia.edu/49122878/B1\\_ERC\\_CoG\\_DEEPMED\\_Discovering\\_the\\_Deep\\_Mediterranean\\_Environment\\_A\\_History\\_of\\_Science\\_and\\_Strategy\\_1860\\_2020](https://www.academia.edu/49122878/B1_ERC_CoG_DEEPMED_Discovering_the_Deep_Mediterranean_Environment_A_History_of_Science_and_Strategy_1860_2020)



# Section B1 CV+TR

## Research achievements (<=10)

### Personal Statement

**Personal statement:** I have an excellent publication record that stands out for its quality, coherence, and ambitious scope. I have a solid graduate training in philosophy of science (U Sevilla), STS (Cornell University) as well as in history and history of science and technology (UCLA). Moreover, I have worked at the Universidad Autónoma de Barcelona (as post-doctoral fellow for an ERC-StG project with 4 partner universities), the Max Planck Institute for the History of Science (three years as a Research Scholar in one of the leading history of science world hubs and one more year as a visitor to the research group Epistemes of Modern Acoustics), the University of Chicago (with a very prestigious program in History of Science), and Universidad de Sevilla. This has given me unique access to excellent international networks of scholars and collaborators as well as unique teamwork skills. My success in editing collective work speaks to this.

I have also strong experience in organizing and supervising research. At the MPIWG I hired a total of 4 research assistants to help me conduct research on Russian-written sources about Soviet involvement in the Mediterranean as well as with digital text mining and a historical GIS of the Western Sahara. I also organized two workshops with scholars from all over the world, leading to a special issue of a QI journal. As an MPIWG Research Scholar with administrative duties, I was in charge of organizing a bi-weekly colloquium for two consecutive years. Finally, teaching at the masters level in Barcelona and Sevilla, as well as my collaboration with the H2020 SALTGIANT, has prepared me to supervise PhD students at my transition from starting to consolidated researcher, which The ERC grant would be essential to complete.

Lastly, I have published over 15 extra-academic papers, worked for an exhibit, participated in three documentaries (one as producer), and in other public fora. This shows my interest and capacity for public outreach and my ability to engage with stakeholders and relevant audiences, which I intend to mobilize to enrich public perceptions of the Mediterranean space, as well as its challenges and opportunities.

[https://www.academia.edu/49122878/B1\\_ERC\\_CoG\\_DEEPMED\\_Discovering\\_the\\_Deep\\_Mediterranean\\_Environment\\_A\\_History\\_of\\_Science\\_and\\_Strategy\\_1860\\_2020\\_](https://www.academia.edu/49122878/B1_ERC_CoG_DEEPMED_Discovering_the_Deep_Mediterranean_Environment_A_History_of_Science_and_Strategy_1860_2020_)

# Section B1 CV+TR

## Research achievements (<=10)

### The particularities of your field research

#### Top ten publications in the last ten years

*Note:* In my field, the top conferences are ACM CHI and ACM UIST. Publication in these conferences is considered as prestigious as in the top journals in the field (ACM TOCHI, IJHCS). I work collaboratively with students and colleagues. As the most senior researcher, my name is usually last in the list of authors. However I only co-sign papers for which I have substantially contributed to both the work and the writing.

#### My application in 2014

The followings are five selected papers. ...

#### Improvement in 2016

In theoretical computer science, the most important venues of publications are conferences and not journals. STOC and FOCS are widely recognized as the most prestigious conferences in the field worldwide. I have published X papers in FOCS and STOC ...

The followings are five selected papers. ...

# Section B1 CV+TR

## Peer recognition

- **Fellowships & Awards:** también las rechazadas
- **Supervision of Students:** capacidad de gestionar un equipo y de crear escuela
- **Teaching Activities (if Applic):** relac. temática del proyecto/distinguir nivel
- **Organis. Scientific Meetings:** muestra liderazgo
- **Institutional Responsibilities:** muestra capacidad de gestión/administrativa
- **Reviewing Activities:** regular reviewer/editorial boards...
- **Memberships Scientific Societies**
- **Major Collaborations:** con nombres e institución/ consorcios, co-autores...
- **Commissions of Trust:** experto del Plan Nacional, de COST Actions...
- **Invited presentations to internationally established conferences and/or international advanced schools:** Key note speaker/participadas/conf. relevantes en tu campo
  
- ***Not exhaustive list***

# Section B1 CV+TR

## Peer recognition

short explanation of the importance of the listed examples of significant peer recognition.

- **ORGANISATION OF SCIENTIFIC MEETINGS (selection)**

- 2019 Lorentz Center Workshop on Compositionality in Brains and Machines, co-organizer (Netherlands)
- 2019 FAIR Understanding Machine and Human Intelligence Workshop, co-organizer (USA)
- 2016 NIPS Machine Intelligence Workshop, co-organizer (Spain)
- 2014 SemEval Task 1, co-organizer (Evaluation of distributed compositional models) (Ireland)

- **REVIEWING ACTIVITIES**

- 2019 Member of the ERC Consolidator Grant SH4 Panel (The Human Mind and Its Complexity)
- 2017 – 2021 Editorial Board, Transactions of the Association for Computational Linguistics (TACL)
- 2014 – 2016 Editorial Board, Computational Linguistics
- 2013 Program Chair, \*SEM 2013 (Second Joint Conference on Lexical and Computational Semantics)

- Area chair for: ICLR 2021, ACL 2020, EMNLP 2015, EACL 2014, CLIC.it 2014, \*SEM 2012
- Reviewer of more than 25 research projects, including assignments by the national science councils of Israel, the Netherlands, Italy, Canada, UK, Belgium, US and by the ERC (starting, consolidator and advanced grants)
- In program committee of 45 conferences and more than 40 workshops
- Reviewer of more than 30 journal articles, 1 book and 3 articles in edited volumes
- External examiner of 18 PhD candidates in Europe, the UK and the USA

- **INSTITUTIONAL RESPONSIBILITIES (selection)**

- 2013 – 2020 Elected information officer of SIGSEM, the Special Interest Group on Semantics of the Association for Computational Linguistics
- 2011 – 2016 Director of the CLIC laboratory at CIMeC, University of Trento (Italy)
- 2012 – 2014 Coordinator of the Language and Multimodal Interaction track of the Cognitive Science Master program at the University of Trento (Italy)
- 2009 – 2013 Coordinator of the BA and MA majors in Philosophy and Informatics at the University of Trento (Italy)
- 2007 – 2009 Elected secretary of SIGWAC, Special Interest Group on the Web as Corpus of the Association for Computational Linguistics



# Section B1 CV+TR

## Peer recognition

short explanation of the importance of the listed examples of significant peer recognition.

### Scientific community activity

- **Referee** for peer-reviewed journal: Physical Review Letters, Angewandte Chem., Advanced Materials, Advanced Functional Materials, Biomaterials, Journal of Materials Research, Materials Research Bulletin, Surface and Coatings Technology, Composites Part A, Crystal Growth and Design, Journal of the American Ceramic Society, Chemical Engineering Journal, International Journal of Applied Ceramic Technology, Biomedical Materials, International Journal of Materials Research, Polymer, Ceramics International, Biomacromolecules, Journal of the Royal Society Interface, Journal of Microscopy, Journal of Chemical Technology & Biotechnology, Acta Materiala, Journal of the European Ceramic Society
- **Contributing editor** for the Journal of the American Ceramic Society
- **Referee** for the French National Research Agency (ANR, 2008 and 2009), NSF career program (2010)
- **Advisory board** for ECERS 2009 and CIMTEC 2011
- **Initiator and co-organizer** of the 1<sup>st</sup> International and Multidisciplinary Workshop on the Solidification of Colloidal Suspensions (2010, Avignon, France). Co-organized by the CNRS, Saint-Gobain and the University of Oxford

[https://figshare.com/articles/journal\\_contribution/My\\_successful\\_ERC\\_Starting\\_Grant\\_Proposal/7110767](https://figshare.com/articles/journal_contribution/My_successful_ERC_Starting_Grant_Proposal/7110767)

### Other activities

- **Workshop (co-)organization:** GEMS 2010 (submitted), ESSLI 2008 Distributional Lexical Semantics (Hamburg), Contextual Information in Semantic Space Models at Context 2007 (Roskilde), Web as Corpus 1 (2005, Forli), 2 (2005, Birmingham) and 3 (2006, Trento)
- The Italian part-of-speech tagger developed by my team was ranked second best in the  **EVALITA 2007 evaluation campaign**
- Co-organized the first  **CLEANEVAL shared task** for Web page cleaning (2007)
- Co-founder and secretary of the  **Special Interest Group** of the Association for Computational Linguistics (ACL) on  **Web as Corpus**
- **ESSLLI 2006 course** instructor (with Stefan Evert): Counting words: an introduction to lexical statistics (Malaga)
- I maintain, with Stefan Evert,  **SIGIL**, an  **online introduction to statistics for linguists**
- In  **program committee** of more than 10 international conferences (including ACL, EACL, COLING, IWCS, EMNLP – best reviewer award at EMNLP 2010) and more than 15 international workshops
- **Reviewer** for more than 15  **journals** (including Natural Language Engineering, IEEE Intelligent Systems, Language Resources and Evaluation Journal, Cognitive Linguistics, Europhysics Letters, Artificial Intelligence Journal, Morphology and the Journal of the Acoustical Society of America) and  **2 books**
- **Reviewer** for several  **funding agencies**, including the US National Science Foundation and the UK Economic and Social Research Council

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# Section B1 CV+TR

## Peer recognition

short explanation of the importance of the listed examples of significant peer recognition.

**Publication awards and nominations:** ACL 10-year Test of Time award (2020), ACL 10-year Test of Time nomination (2020), IJCAI-JAIR 5-Year Best Paper award (2017), EMNLP Best Paper nomination (2013), WAC4 Workshop Best Paper award (2008)

### *Other activities*

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- **Reviewer**  for more than 15  **journals**  (including Natural Language Engineering, IEEE Intelligent Systems, Language Resources and Evaluation Journal, Cognitive Linguistics, Europhysics Letters, Artificial Intelligence Journal, Morphology and the Journal of the Acoustical Society of America) and 2  **books**
- **Reviewer**  for several  **funding agencies** , including the US National Science Foundation and the UK Economic and Social Research Council

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# Section B1 CV+TR

## Additional information

### Additional information:

- career breaks, diverse career paths, life events
- other contributions to research community

The applicant may also include relevant information on, for example, **career breaks, unusual career paths, as well as any particularly noteworthy contributions to the research community.**

These will not in themselves be evaluated but are important to provide context to the evaluation panels when assessing the principal investigator's research achievements and peer recognition in relation to their career stage.

# Who could be competitive in the ERC?

## Evaluators say:

- Independence
- CLARITY: Vague information won't help you.
- QUALITY vs QUANTITY
- The track record must be in line with the proposed research
- Numbers are ok but explain your contribution
- EXPLAIN: The panel members may not know if your merits are relevant or not (prizes, grants, journals...)
- Post-doctoral stays: CLARITY
- Contribution at each career step: explain gaps

## Most common errors:

- Lack of coherence between your track record and your proposal.
- Core competences missing (and you don't give any solution)
- Not structured/selected info

## Evaluation criteria ERC 2024

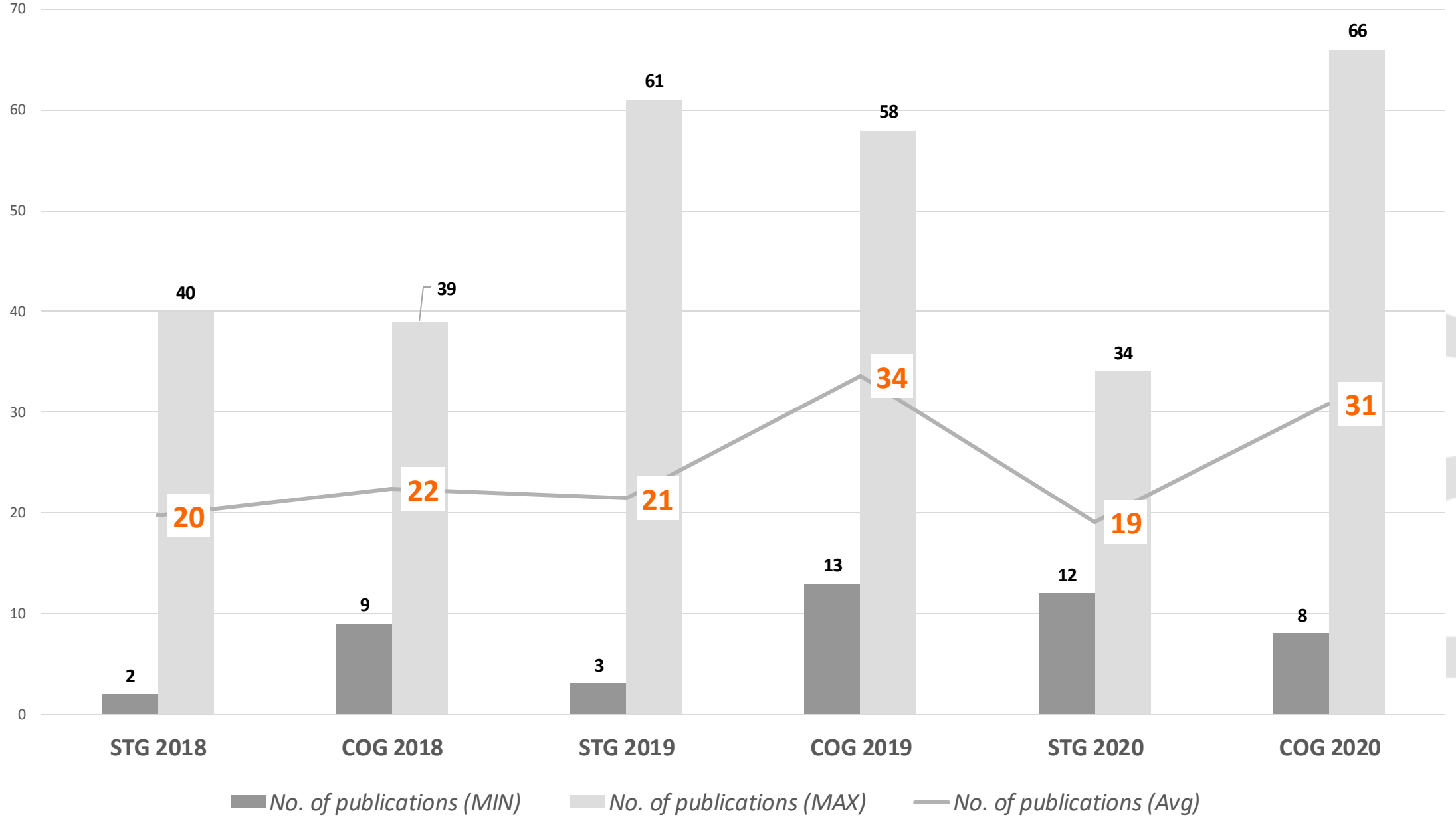
### Principal Investigator

- Intellectual capacity and creativity

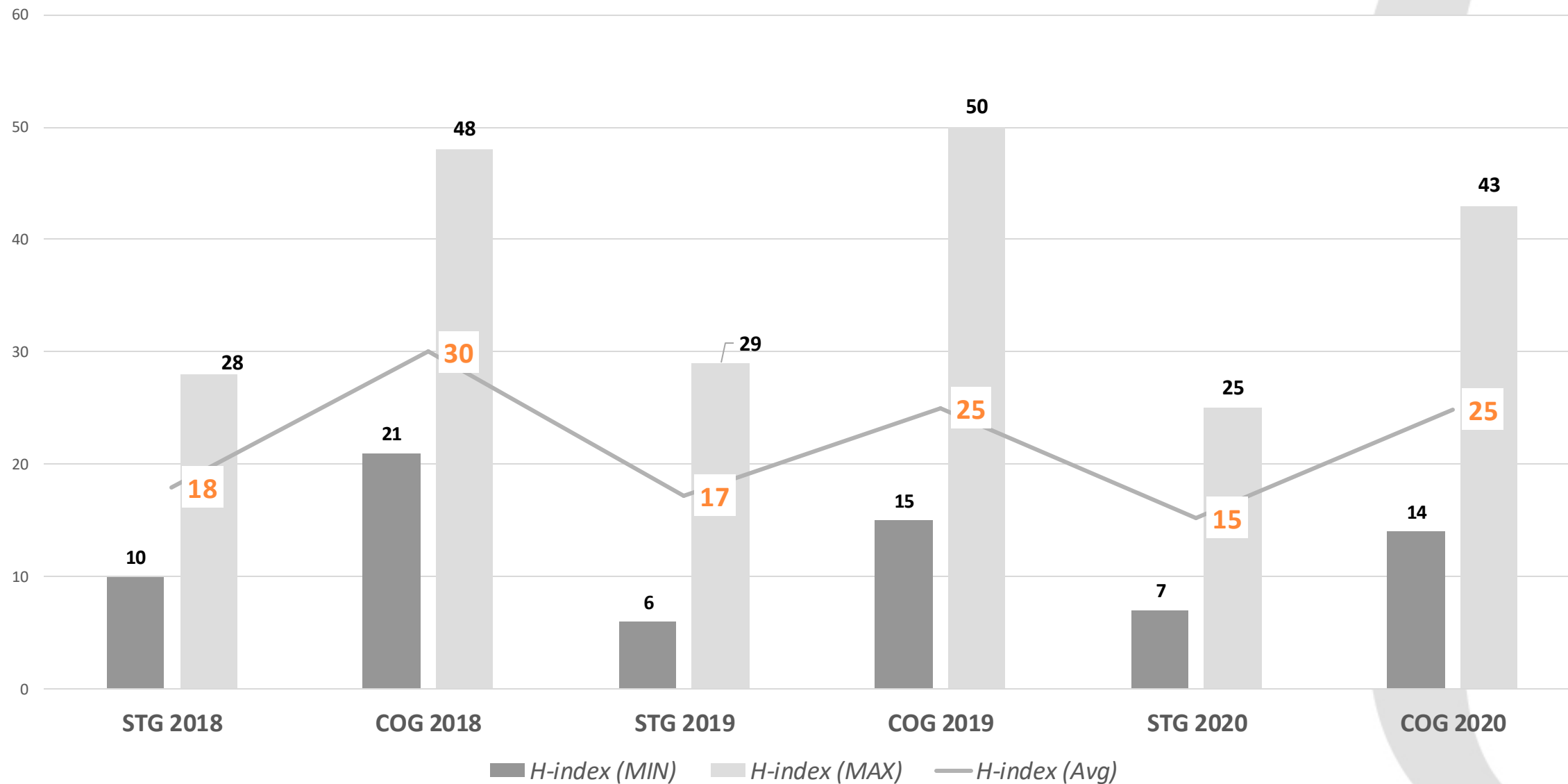
- **demonstrated** the **ability** to conduct ground-breaking research?
- evidence of **creative** and original thinking?
- required scientific **expertise** and capacity to successfully execute the project?



# LS8 Environmental Biology, Ecology and Evolution



# PE10 Earth System Science



## Algunos consejos

1. Entender el proceso
2. Escribir la part B1 (CV + track record)
3. Escribir la part B1a + part B2



# Evaluation criteria ERC 2024 StG, CoG, AdG

## Excellence is the sole evaluation criteria

applied to the Research Project + PIs

NEW

### Research Project

- Ground-breaking nature, ambition and feasibility

#### Ground-breaking nature and potential impact of the research project (B1+B2)

- does the proposed research **address important challenges**?
- are the **objectives ambitious** and beyond the state of the art? e.g. novel concepts and approaches or development between or across disciplines?

#### Scientific Approach

- is the outlined scientific approach feasible ... ground-breaking nature and ambition of the proposed research? (B1)
- are the proposed research methodology and working arrangements appropriate to achieve the goals of the project? (B2)
- are the proposed timescales, resources and PI commitment adequate and justified? (B2)

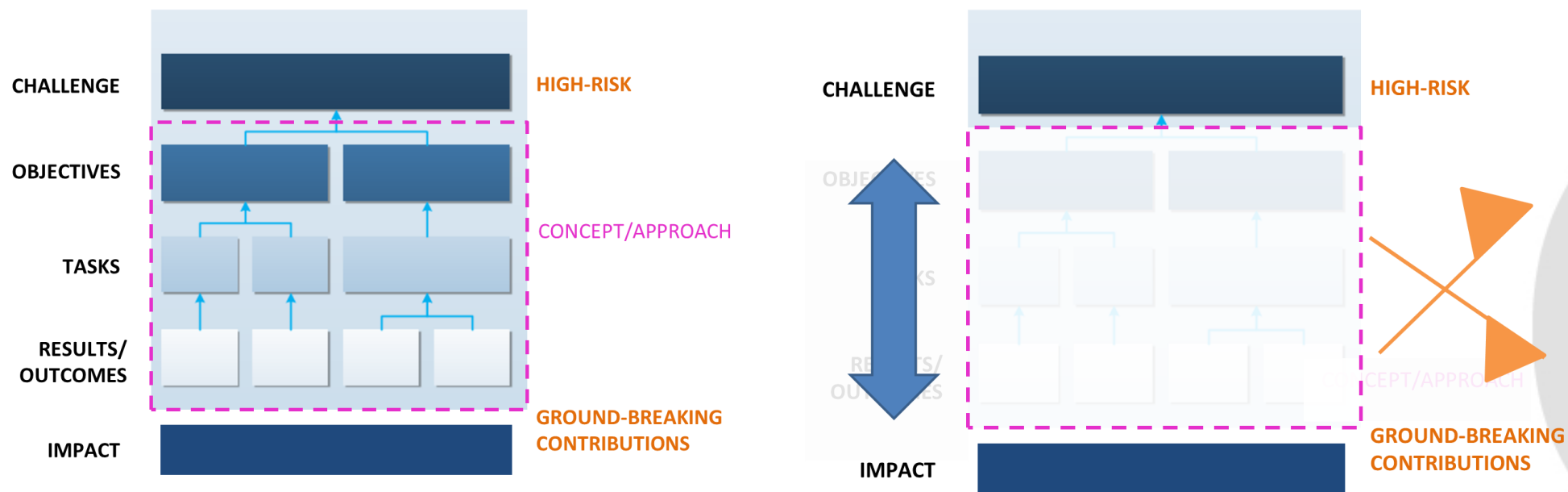
**Ground-breaking nature and potential impact  
address important challenges**

**scientific approach feasible  
research methodology**

# Estructura

Narración de la propuesta encuadrada en un marco lógico-conceptual que permita entender la ejecución del proyecto como consecuencia de un conjunto de acontecimientos relacionados y que tienen un orden conceptual.

Hilo argumental que conteste a los criterios de evaluación



# What are *important challenges*?

¿Cuál es la Gran Pregunta de Investigación?

¿Qué es lo que tenemos que entender?

¿Qué es lo que debemos saber sobre (X fenómeno) para poder empezar a hacer algo que impacte en Y (campo científico, industria, sociedad,...)?

¿Cómo es la naturaleza de este reto que quieres acometer?  
¿Es un reto teórico, conceptual, aplicado?

¿Es un reto común en tu campo de investigación?

por ej. curar el cáncer...

En este caso el proyecto necesitará de una idea y concepto de proyecto radicalmente novedosa

¿Cuál es la Gran Pregunta de Investigación?



Gran Respuesta de Investigación

***Breakthrough***

# What are *important challenges*?

BBC Menú

NEWS | MUNDO

Noticias | América Latina | ¿Hablas español? | Internacional | Economía | Tecnología | Ciencia

## Por qué la turbulencia es uno de los más grandes misterios irresueltos de la Física

Redacción  
BBC Mundo

16 diciembre 2017

f t e Compartir



GETTY IMAGES

¿Quién no ha sufrido con la turbulencia de un avión?

EL PAÍS

Te quedan 8 artículos gratis este mes

## Desentrañando la turbulencia

Recientemente se ha probado un resultado sobre la turbulencia, la conjetura de Riemann, que ayuda a precisar los modelos de fluidos

f t e 1

ANTONIO CÓRDOBA t G+

4 MAY 2017 - 18:15 CEST



Llegar a [comprender la naturaleza de los fenómenos turbulentos](#), desde sus primeros principios matemáticos, es un objetivo a la vez importante y ambicioso en el que todavía nos queda un largo camino por recorrer. La turbulencia está detrás de los tornados, los huracanes, las mangas marinas, y entenderla es clave para predecir la evolución de los frentes atmosféricos. Hace poco ha sido resuelto uno de los problemas concretos que era un

# What are *important challenges*?

## ¿Cuál es la Gran Pregunta de Investigación?

**Turbulence is a fundamental unsolved problem**, at whose core are the multiscale processes that transfer, for example, energy across the inertial range of scales, or momentum across wall-bounded shear flows.

**Turbulence is also key to applications**, from industrial design and energy generation to climate dynamics, where the worst uncertainties are often due to its modelling....

The premise of this proposal is that those **new capabilities should allow us to elucidate, once and for all, the physics underlying the multiscale transfer processes in turbulence in the next five years**, especially in shear flows near walls. That will allow the formulation of more realistic engineering models, but the immediate goal of the proposal is to answer the fundamental questions that have resisted two centuries of attack by physicists and engineers [...]

Neither large-scale computing nor data mining are trivial activities, but **our group has specialised in both during the past 20 years, particularly for the study of turbulence.**

**Multiscale dynamics of turbulent flows**

**MULTIFLOW** ERC-2010-AdG PE8

**challenge**

**Groundbreaking nature/  
Groundbreaking contributions**

**feasibility**



# What are...*ambitious objectives beyond SoA?*

## Operacionalizar la Gran Pregunta de Investigación

DEEPMED aims at unravelling the discovery of the deep Mediterranean environment. My ground-breaking hypothesis is that, from the late 19<sup>th</sup> century to the present, joint developments in science and strategy transformed perceptions of the Mediterranean retooling it into a deep three-dimensional maritime space that in turn shaped scientific and strategic approaches to the Sea. I identify three interrelated domains in which this process took shape: science and technology, strategy, and the environment. DEEPMED explores each of these through three specific objectives (SO). SO1 (Topographies): Tracking the development of volumetric notions of the Mediterranean from the late 19<sup>th</sup> century to the present; SO2 (Temporalities): Understanding the interplay between human and natural temporalities in past and present three-dimensional conceptions of the Mediterranean; and SO3 (Globalities): Analysing historical ideas about the place of the 3D Mediterranean with regards to the world oceans, global climate, and world history. Our deep history demands a novel methodology that is decisively interdisciplinary (bringing together the history of science and technology with strategic studies, environmental history, and the natural sciences), transnational (building a team with broad geographic and linguistic expertise), and digital (developing Historical GIS to understand the transformation of this marine space in scientific and strategic terms). DEEPMED bridges a major division between the views of the Mediterranean held by the natural sciences and studies of the human past, where the environment is no longer Braudel's durable structure but a fragile regime dependent on political events and decisions. As such, the project will highly impact the fields of Mediterranean Studies, maritime history, and the history of oceanography, among others. It will also inform more integrated public views of this Sea. The future of the Mediterranean depends on managing its deep environment. Knowing how it came to be opens up new possibilities about ways to face that future.

Borders of state of the art	DEEPMED's novelties	DEEPMED's impact
<p><b>Mediterranean Studies:</b></p> <ul style="list-style-type: none"> <li>o Gap between human sciences and natural sciences</li> <li>o Difficulty in locating Mediterranean's modern significance</li> </ul> <p><b>Maritime History, oceanic history and history of oceanography:</b></p> <ul style="list-style-type: none"> <li>o Not entire basin</li> <li>o Overlooks specificities</li> </ul>	<p><b>Aim:</b> Historical discovery of the deep Med</p> <p><b>Specific objectives:</b></p> <ul style="list-style-type: none"> <li>• Topographies of deep Mediterranean</li> <li>• Natural and human volumetric temporalities</li> <li>• New globalities of the 3D Mediterranean</li> </ul> <p><b>Methodology:</b></p> <ul style="list-style-type: none"> <li>• <i>Interdisciplinary:</i> history science &amp; tech, strategy, environmental hist., oceanography</li> <li>• <i>Transnational:</i> broad linguistic and geographical expertise; plural and non-linear</li> <li>• <i>Digital:</i> Historical GIS unveils spatial links</li> </ul> <p><b>Domains:</b></p> <p>•Science &amp; Technology •Strategy •Environment</p> <p><b>Work Packages:</b></p> <p>•Space•Territory•Change•Synthesis•Management</p>	<ul style="list-style-type: none"> <li>➤ Disrupts Mediterranean studies through attention to depth</li> <li>➤ Contributes to oceanic history with study of entire basin</li> <li>➤ Integrates disciplinary approaches from the humanities and the sciences to understand change</li> <li>➤ Fosters active understandings of Mediterranean's volume by relevant audiences</li> </ul>



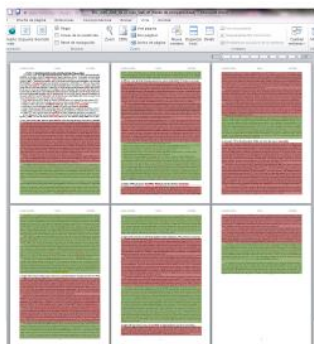
# What are...*ambitious objectives beyond SoA?*

## Objetivos relacionados con el Estado del Arte

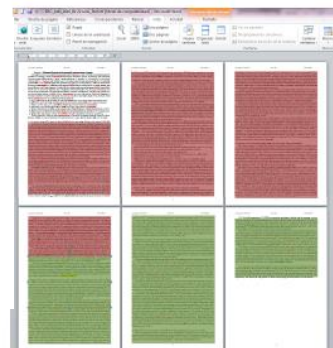
- ✓ No piden una revisión del SoA del campo
- ✓ No es un artículo científico
- ✓ Otorgan el dinero por los cambios (el efecto) que seáis capaz de producir en el campo científico, no por escribir un buen SoA.

## Preliminary evidences

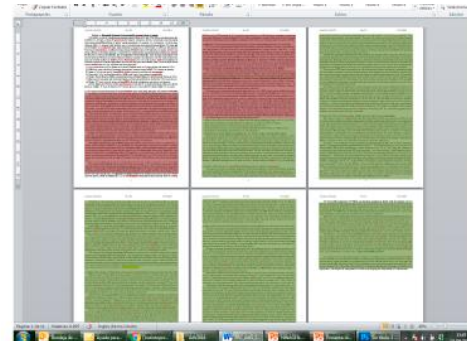
ROJO = SoA  
VERDE = proyecto



Agrupando >>



Debería quedar algo así con respecto a las proporciones del proyecto y los objetivos en relación al SoA



## References

## Aportaciones al SoA del IP

References (in blue CPSC-PC areas, in bold IP)

1. European Commission, Impact Assessment (2017)
2. Wessendrup, A. *3D Technology for commercial aircraft*. In *3D-ATY von Karman Institute Lecture Series* (ed. G. Penago and J. Serrano) (2017)
3. **WU Kling, B. F. CRYSTALLINE**. *Indigenes fuelcell aircraft - state and challenges*. In *Int. J. Space Europe* (2015)
4. **Teves, J., Penago, G. & Collado-Mora, E.** Thermodynamic analysis of a gas turbine engine with a rotating detonation combustor. *Appl. Energy* (2017). doi:10.1016/j.apenergy.2017.01.047
5. **Ruiz-Ruiz, A. M., Maccioni, J., Ferrer, E., Rubio, G. & Valero, E.** A p-enthalpy strategy with aerodynamic p-regularization based on innovation areas for high-order discontinuous Galerkin methods. *J. Comput. Phys.* (2017). doi:10.1016/j.jcp.2016.11.059
6. **Teves, E.** An inverse genetic algorithm for aerodynamic discontinuous Galerkin Fourier solvers for explicit large eddy simulation. *J. Comput. Phys.* (2017). doi:10.1016/j.jcp.2017.07.049
7. **Wang, Y., Teves, E., Martinez-Cava, A., Dong, Y. & Valero, E.** Enhanced stability of flow through contraction channels: Combining shape optimization and linear stability analysis. *Phys. Fluids* (2015). doi:10.1063/1.500602
8. **Martinez-Cava, A., Wang, Y., De Vicente, J. & Valero, E.** Pressure fluctuation phenomenon on reentrant flowing leading edges. *ASIA J.* (2015). doi:10.2514/6.2015-956
9. **Galbraith, V., Valero, E., Martinez-Cava, A., Penago, G. & Serraglio, B. H.** Study of the atomized flow topology in a reentrant flow leading edge at various flow rates. In *34th AIAA Aerospace Sciences Meeting* (2014). doi:10.2514/6.2014-499
10. **A. Martinez-Cava, M. Chaves-Molina, E. Valero, J. De Vicente, E. F. Teves** Sensitivity to surface shape modifications based on stability analysis: Application to turbine and turbomachinery flows. *Therm. Sci. Phys. Aer. Fluids* (2015)
11. **Teves, E., Teves, J. & Penago, G.** Numerical assessment of the convective heat transfer in rotating detonation combustors using a reduced-order model. *Appl. Sci.* (2018). doi:10.3390/app8080801
12. **Salda, C. et al.** Development of a laboratory experimental testing platform for rotating detonation engine cells. In *35th AIAA SciTech Forum - 35th AIAA Aerospace Sciences Meeting* (2017). doi:10.2514/6.2017-0785
13. **Chaves, F. & Galda, M.** Study of genetic contribution to an optically accessible combustor near rotating detonation engine. In *AIAA SciTech 2017 Forum* (2017). doi:10.2514/6.2017-0675
14. **Teves, J., Serraglio, B. H. & Penago, G.** Overall performance of rotating detonation engine with different exhaust nozzles. *J. Propuls. Power* (2017). doi:10.2514/6.2017-0674
15. **Teves, E. & Penago, G.** Characterization of the non-resonant starting process of supersonic diffusers. In *34th AIAA SciTech Aerospace Sciences Meeting*, 2014 (2014). doi:10.2514/6.2014-499
16. **Collough, C. D.** Design of Turbine Nozzle Suitable for Supersonic Relative Inlet Velocities and the Investigation of Their Performance in Cavities. Part II-Experiments, Results and Discussion. *J. Mach. Eng. Soc.* (1961). doi:10.1243/jmes\_jour\_1961\_308\_322\_0
17. **Alonso, A., De Vicente, J. & Valero, E.** Aerodynamic technologies to improve aircraft performance. *Aerospace Science and Technology* (2017). doi:10.1016/j.ast.2017.01.008
18. **Di Van Zante, E. & Soria, M. T.** Paper 2007-1261. In: *Proceedings of the International Symposium on Airbreathing Engines* (2007)
19. **Lin, Z., Wang, J. & Penago, G.** Performance of axial turbines exposed to large fluctuations. In *34th AIAA SciTech Aerospace Sciences Meeting*, 2017 (2017). doi:10.2514/6.2017-4817
20. **Teves, E., Rubio, J., Benito, B. & Serrano, F.** 3D Turbine Response to Rotating Detonation Combustor Exhaust Flow. *J. Eng. Gas Turbine Power* (2015). doi:10.1115/1.404133
21. **Mun, G. B. Y., Serraglio, B., Valero, E.** Efficient Design and Analysis of Multi-Pulsed Experiments for High Dimensional Aerodynamic Test Space. (Spain, 2015)
22. **Juan Maccioni, Esteban Ferrer, Gonzalo Rubio, and E. Valero.** Towards robust Large Eddy Simulations for discontinuous Galerkin methods. In *ITC18/2017* (2015)
23. **Ruiz-Ruiz, A. M., Rubio, G., Ferrer, E. & Valero, E.** Transition Error Estimation in the p-Aerodynamic Discontinuous Galerkin Spectral Element Method. *J. Sci. Comput.* (2015). doi:10.1007/s11434-015-0773-4
24. **S. Rubin** Improved E.V. Valero Stability and sensitivity of Axial and turbomachinery flows (2015)

# What are... *novel concepts and approaches or developments between or across disciplines*

El concepto y enfoque sería la idea subyacente (considerada en su conjunto) de la propuesta

## Una idea no convencional

- nuevos conceptos que no existían antes
- uso de conceptos existentes a un contexto o campo diferente
- nuevas combinaciones de principios científicos relacionados
- nuevas combinaciones de principios científicos no relacionados hasta ahora

## Una nueva idea necesitará un nuevo enfoque

*novel theoretical framework (SH)*

Air transport has by and large been studied as a **transportation process**, in which different elements, e.g. aircraft or passengers, move within the system. While intuitive, **this approach entails several drawbacks** [...]. The lack of a better approach is in part responsible for our inability to fully understand delay propagation, one of the most important phenomena in air transport. ARCTIC proposes an ambitious program to **change the conceptual framework used to analyse air transport, inspired by** the way the brain is studied in **neuroscience**. It is based on **understanding air transport as an information processing system**, in which the movement of aircraft is merely a vehicle for information transfer. [...] The approach also entails important challenges, [...] point towards a radically new way of thinking about the dynamics of air transport. [...]

**Air Transport as Information and Computation ARCTIC ERC-2019-STG SH2**

# Feasible scientific approach vs. methodology

## B1a

- *feasible outlined scientific approach bearing in mind the research ground breaking nature and ambition*

- Concise and clear (5 pages)
- All the essential information
- General overview of the project
- Emphasis on ground-breaking nature
- **Feasibility** (≠ detailed methodology)
- Support feasibility with preliminary evidences
- Know your competitors and the state-of-art
- Why is your idea and scientific approach outstanding?  
Risk assessment
- Explain collaborations
- Research design

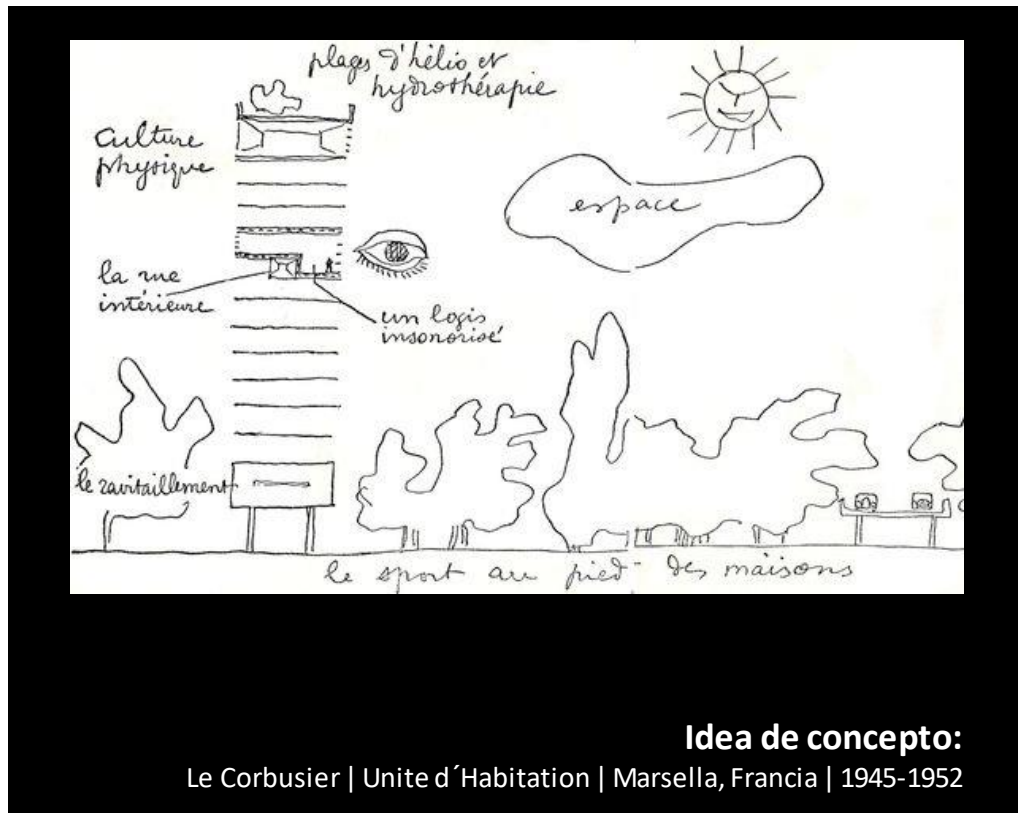
## B2

- *research methodology and working arrangements*
- *timescales, resources and PI commitment*

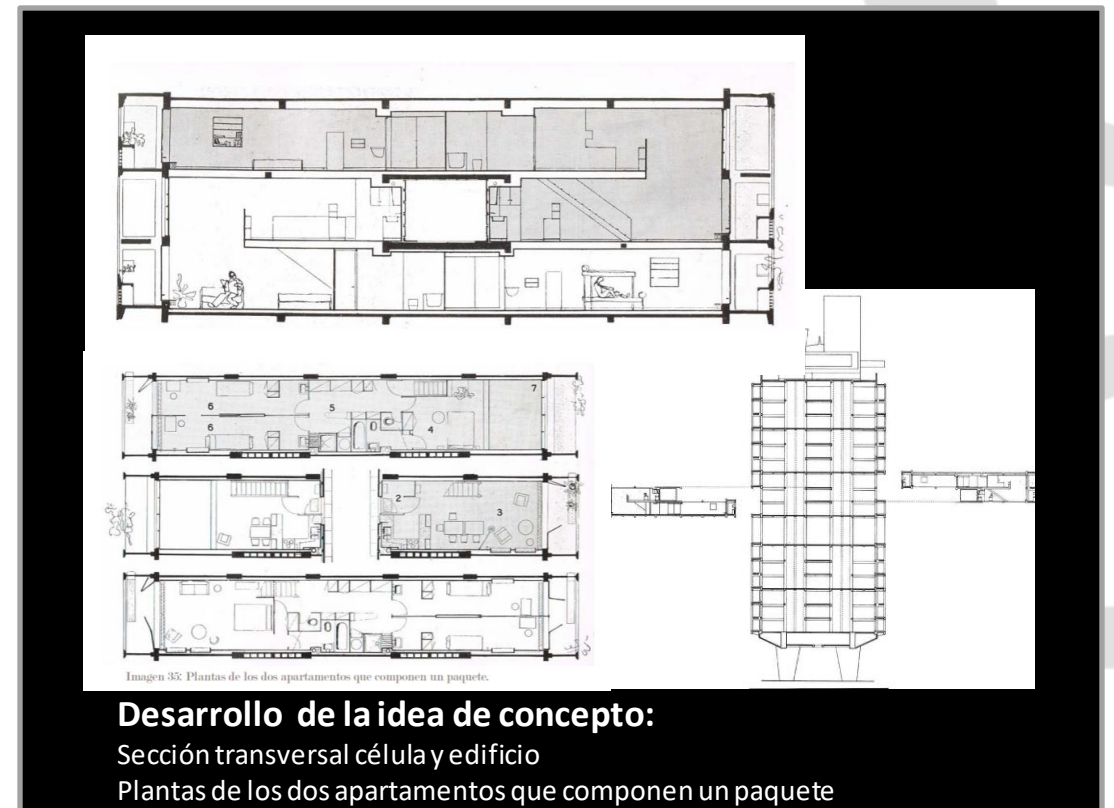
- Do not repeat extensively from part B1. Do not copy-paste
- Provide detail –thoroughly- on **methodology**, work plan, selection of case studies,...
- Explain any risk mitigation strategy
- Explain your timeline, link them to the research objectives or tasks.
- Explain need of additional team members (if applicable)

# Feasible scientific approach vs. methodology

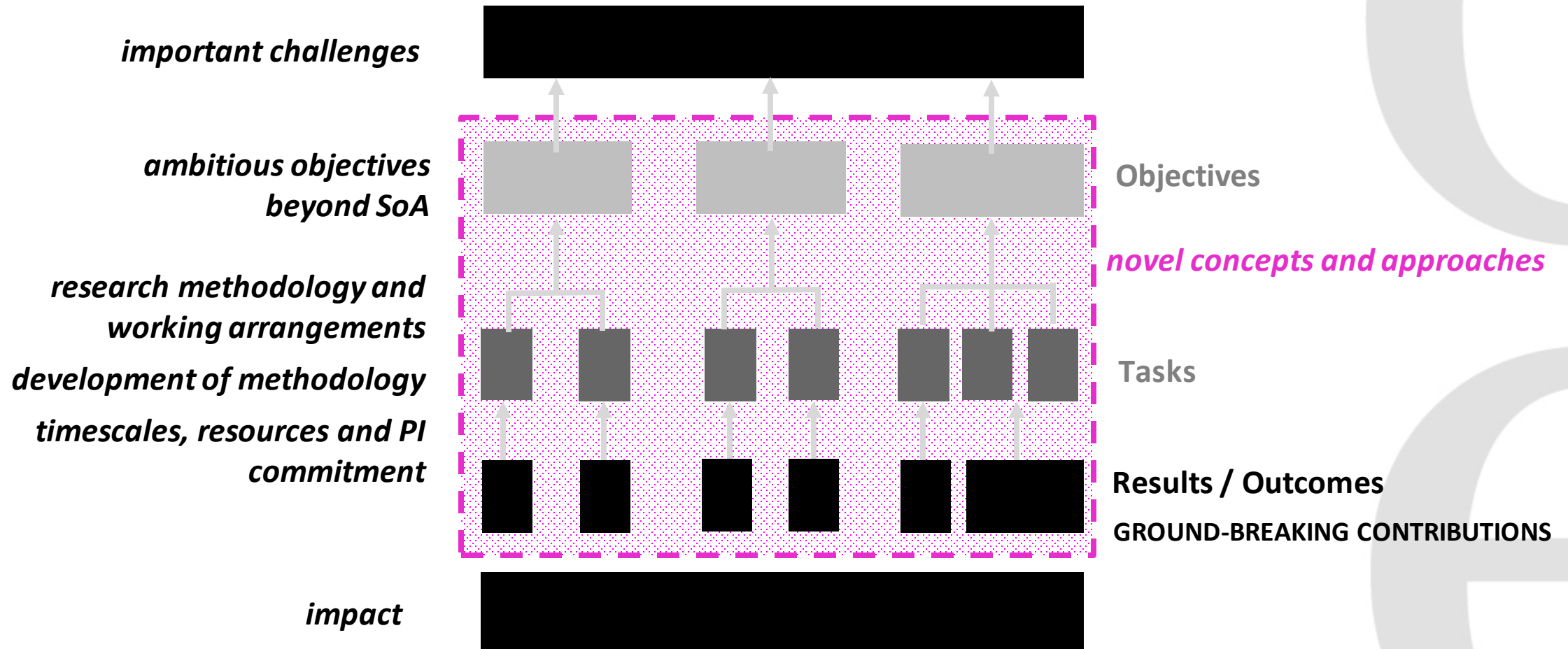
## B1a



## B2



# Feasible scientific approach vs. methodology





# Impact & risk assessment

## B1a

### Impact

ALiEN will trigger a shift in the standard approach to complex **deep learning** architectures from ad-hoc interfaces towards flexible connectivity and, ultimately, autonomous agent interaction, a long-term aim of **Artificial Intelligence**. The emphasis on shared representations brings a new perspective to **representation learning** and **interpretability**. Furthermore, ALiEN provides **cognitive science** and **linguistics** with a new body of evidence on the limits of communication, and new tools to analyze it.

**Coordination between DNN-controlled devices** will become a major challenge for industrial deployment of AI in the coming years. Beyond **multiagent information processing** and **home automation**, as directly simulated in ALiEN, coordination is a pervasive issue. A communication-based approach has recently been proposed for **self-driving cars** (e.g., [60]) and **robot arms** ([61]). The same ideas can be applied to machine-learning components in fields such as **communication networks** and **finance** ([62, 63]). **ALiEN puts Europe at the forefront** of this important next frontier in AI. Fittingly, it does so by **building on the long European tradition of language evolution studies**.

### Risk table (B2 presents a more detailed risk table)

Risk	Mitigation actions
Problems generalizing to new referents	Work with (still useful) protocols limited to fixed but large class set. Explore special training techniques to encourage 0-shot generalization.
Problems generalizing to new agents	Explore simplified setups, e.g., limit architecture variety. Focus on emerged-language supervision.
Language-layer tuning of pre-trained DNNs does not suffice	Explore full-architecture re-training (emergent language should still have beneficial properties) and simplify. For example, limit to specific architectures or to visual models only.
DNNs do not learn to play full Grocery Challenge	Identify problematic aspects and simplify (e.g., simplify value and price structure).

## B2

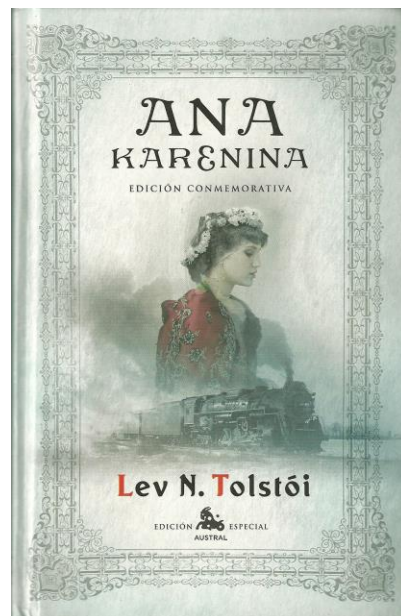
### b.3 Risk table

Risk	Mitigation actions
WP1, WP2, WP3: Dependencies?	Although the experiments in the three simulation WPs are related and some techniques should ideally be prototyped in WP1 and then applied to WP2 and WP3, there is no crucial dependency such that delays in a WP would prevent concurrent progress in the other WPs.
WP1: Problems generalizing to new referents	i) Work with (still useful) protocols limited to a large but fixed number of object classes. ii) Special training methods to encourage 0-shot generalization: in particular, add many training examples where target and distractors are same-class or extremely similar, to spur emergence of a granular attribute-level language. iii) Study problem at the class level: are there specific classes where fast generalization works better? Does this depend on similarity to training classes? Can we capitalize on this observation, if confirmed?
WP1, WP2, WP3: Problems generalizing to new agents	i) Explore simplified setups, e.g., limit DNN architecture variety. ii) Focus on supervised imitation learning. iii) Study if community-evolved languages have other advantages, even if they are not as fast to transmit as hypothesized.
WP1, WP2: Supervision is not beneficial.	For the time being, we won't get a single "universal" language, but methods to evolve useful languages will still be delivered. Extensive study of <i>why</i> supervision does not help: Is it because language drift undoes its benefits? Does supervision hamper generalization?
WP2: Language layer tuning does not suffice to let communication emerge.	Consider both the full-architecture re-training approach (emergent language should still have beneficial properties) and problem simplification (e.g., limit to visual models only, etc.).
WP3: Cannot scale to full Grocery Challenge setup.	Identify problematic aspects and simplify (e.g., simplify reward function).

<https://marcobaroni.org/alien/>

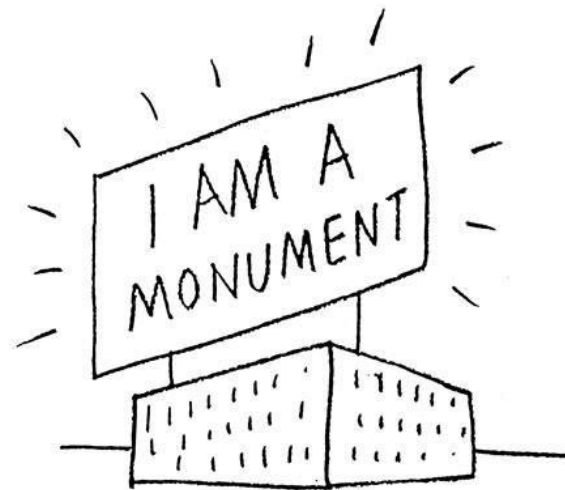
## Cuestiones prácticas

## 1. Piensa cómo empezar la B1a – seduce al lector



*“Todas las familias felices se parecen unas a otras; pero cada familia infeliz tiene un motivo especial para sentirse desgraciada.”*

1. Piensa cómo empezar la B1a
2. Recuerda que no existe posibilidad de corregir errores entre la fase 1 y la fase 2.
3. No digas simplemente que tu propuesta es excelente, *¡Demuéstralo!* En la B2 tienes que convencerles



I Am a Monument: On Learning from Las Vegas. MIT Press, 1972

1. **Piensa cómo empezar la B1a – seduce al lector**
2. **No existe posibilidad de corregir errores entre la fase 1 y la fase 2.**
3. **No digas simplemente que tu propuesta es excelente, *¡Demuéstralo!* En la B2 tienes que convencerles**
4. **Usa cualquier recurso gráfico que facilite la comprensión**
  - negrita, headings, figuras, esquemas.
  - cuidado con los hipervínculos y los colores
  - Cuidado con abreviaciones y jerga muy científica
5. **Sé muy específico** (evita ambigüedades many, some, would,...)
6. **¿En qué persona narro mi historia? I/The PI/We**
  - Toma responsabilidad personal por la ideación de la propuesta de investigación*



## 7. Dale un toque personal





## 8. Ilusiónate y transmite tu pasión por la disciplina

# Final message

## DO NOT EXCLUDE

### Yourself from participating in ERC calls

- **Take risks**, explain your project's high scientific impact if you reach your aims, and **provide evidence that you can do it**.
- **If you fail, try again!** Gain experience from evaluation. Panel feedback is useful and resubmissions have higher success rate.

# ¡MUCHAS GRACIAS!



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