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European Research Council
Established by the European Commission

ERC 2024 Advanced Grant Call Webinar

Session 1:

Overview of the ERC, eligibility and
proposal development

10 June 2024

erc-uk@ukro.ac.uk





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What will be covered in this webinar?



Introduction to UKRO & UK Participation in Horizon Europe



Overview of the ERC programme



Eligibility criteria



Proposal development



Questions and answers session



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TESTIMONIAL

ERC-Grantee

Prof Lucy Carpenter

University of York



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Housekeeping

- All participants will be muted for the duration of the webinar.
- We will be recording this session.
- Please use the Q&A function to submit questions.
- You can 'up vote' your favourite questions on Q&A.
- A chat function is available and will be monitored.
- Recording and slides will be available on www.ukro.ac.uk shortly after the live webinar



About UKRO

We support UK organisations involved in EU R&I funding

UK National Contact Point for the [ERC](#) and [Marie Skłodowska-Curie Actions](#)

A Brussels-based team of advisors

Unique partnership between UKRI and more than 140 subscribing organisations

Part of UKRI's wider [International team](#)



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UK Association to Horizon Europe

- On 7 Sept 2023 the European Commission and UK Government [reached an agreement](#) about the UK's association to Horizon Europe.
- From 1 Jan 2024 UK organisations can bid into Horizon*, certain that all successful UK applicants will be covered through the UK's association for the remainder of the programme.



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UK Research
and Innovation

What does this mean?

All successful UK applicants to Horizon will be covered through the UK's association (or through the existing UK funding guarantee) for the rest of the programme.

Work Programme 2024

- **Calls with a 2024 call identifier will be covered by association.**
- Successful applicants will receive funding from the EC for the lifetime of their grant.
- Even if the deadline is in 2023.

Work Programme 2023

- **Calls with a 2023 call identifier will be covered by the Horizon Europe Guarantee.**
- Successful UK applicants will receive funding from the UKRI Guarantee for the lifetime of their grant.
- *Even if the deadline is in 2024.*
- Applicants must be included as a **beneficiary** in order to receive funding through the Horizon Europe Guarantee.
- [UK applicants call continue to apply to calls in Work Programme 2023.](#)

Current/On going Grants

- UK participants currently entering into, or going through, the grant agreement preparation phase will receive funding through the Horizon Europe Guarantee for the lifetime of their grant.
- Grants currently receiving guarantee funding, will continue to do so for the lifetime of their grant.

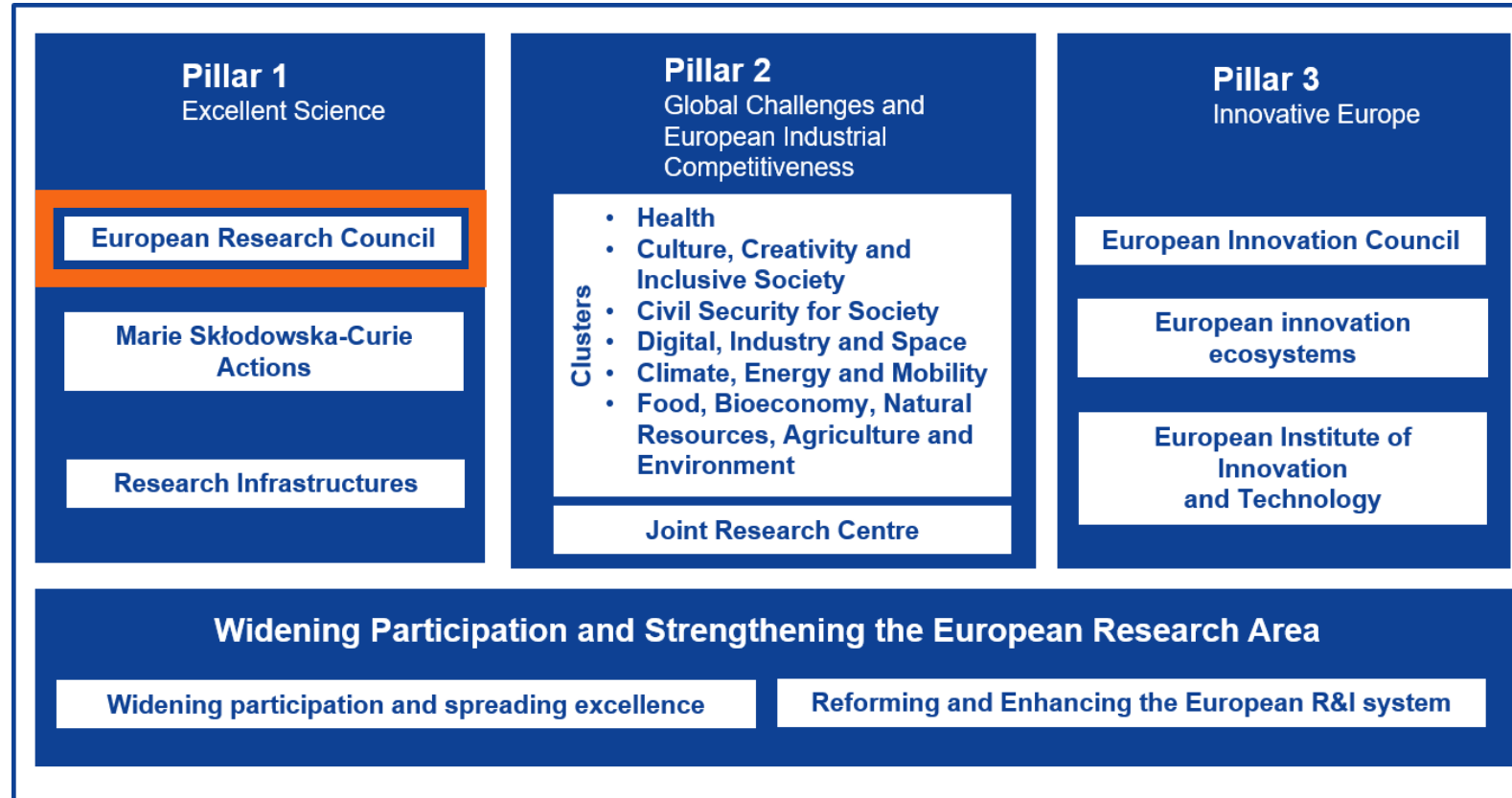


Overview of the ERC

How does it fit into the wider Horizon Europe and what is it about?



Horizon Europe structure



What is the European Research Council?



The ERC's mission:

- Support PI-driven frontier research across all fields
- Fund projects purely on the basis of scientific excellence
- Encourage the highest quality research in Europe

What makes the ERC unique:

- Excellence is the only criteria
- Funding is distributed **on researcher demand**
- Freedom given to PIs to lead their project with anyone in the world in their team



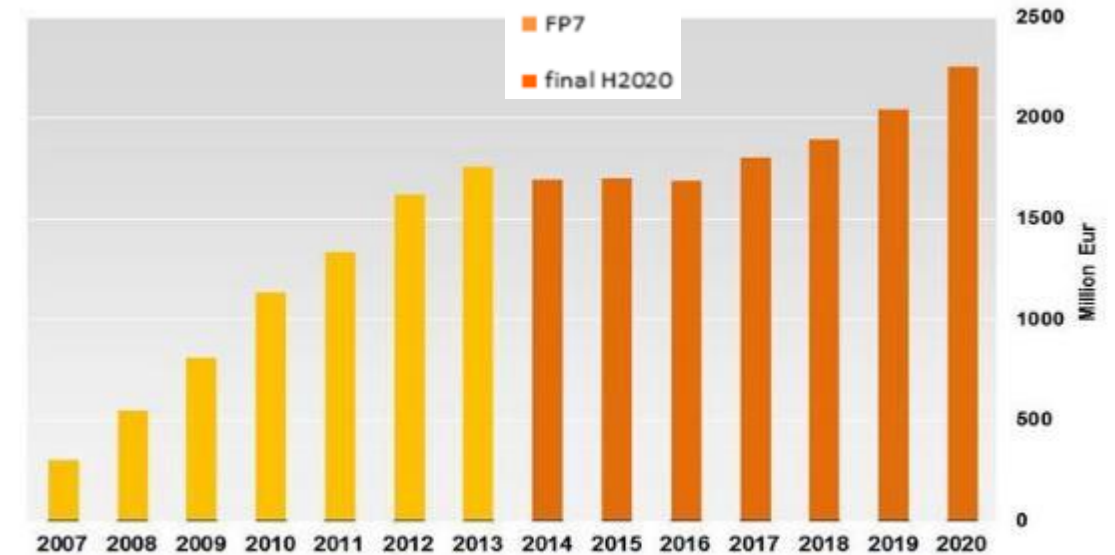
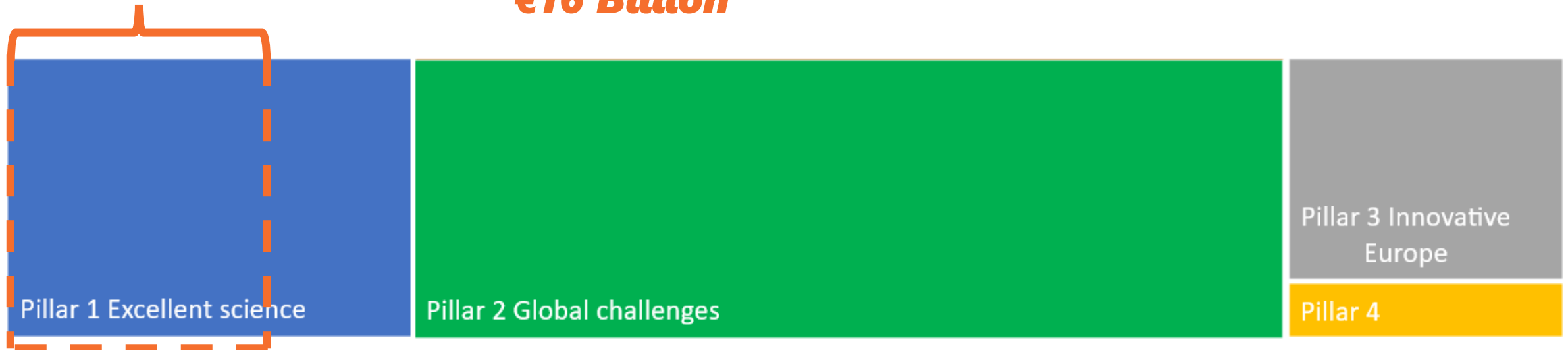
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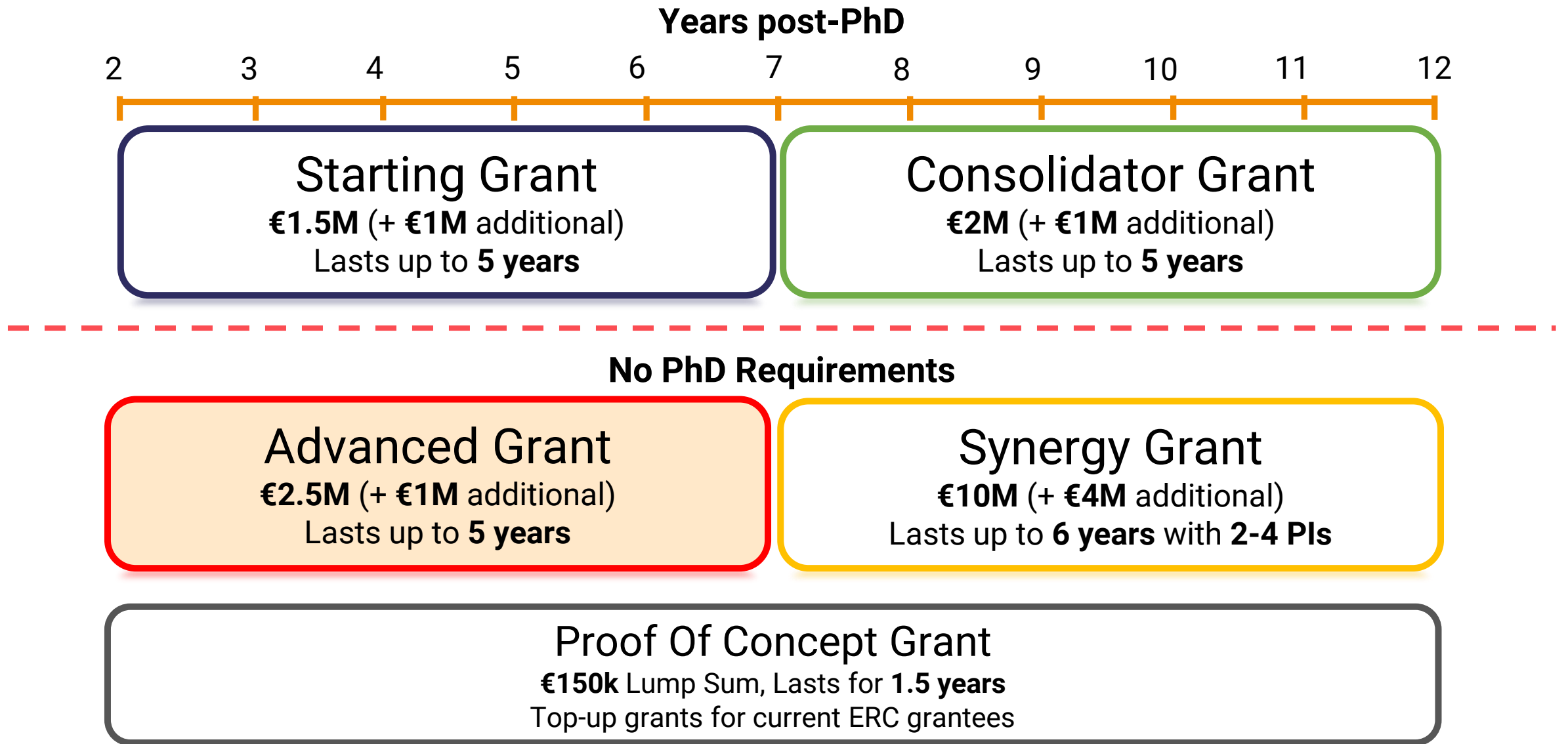
ERC Budget in Horizon Europe

26% increase in real terms compared to Horizon 2020.

Horizon Europe structure is represented below proportionate to budget allocation.

**ERC BUDGET:
€16 Billion**





ERC 2024 Call Calendar

	Starting Grant	Consolidator Grant	Advanced Grant	Synergy Grant	Proof of Concept
Call Type	ERC-2024-StG	ERC-2024-CoG	ERC-2024-AdG	ERC-2024-SyG	ERC-2024-PoC
Call Opens	11/07/2023	12/09/2023	29/05/2024	12/07/2023	16/11/2023
Deadline	24/10/2023	12/12/2023	29/08/2024	08/11/2023	14/03/2024 17/09/2024



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ERC Advanced Grant 2024



Type of research

- Advanced Grant candidates do not require a PhD but they are assumed to have been involved in a research-related field or role.
- Can be in **ANY** field of research
- Must be very **ambitious** in **risk** and in **scope**
- **Principal Investigator** is central to the project, they can be supported by as many “team members” as they need
- Must be “**frontier research**”, and should have potential for more than incremental advances

Judged on the scientific excellence of the project and PI

No need to aim for externally selected policies or research themes, it's up to the applicant!



More on evaluation criteria in part 2
including how panels and external experts evaluate proposals



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ERC Panel Structure

Open to any field of research

Physical Sciences & Engineering	Life Sciences*	Social Sciences & Humanities
<p>PE1 Mathematics</p> <p>PE2 Fundamental Constituents of Matter Particle</p> <p>PE3 Condensed Matter Physics</p> <p>PE4 Physical and Analytical Chemical Sciences</p> <p>PE5 Synthetic Chemistry and Materials</p> <p>PE6 Computer Science and Informatics</p> <p>PE7 Systems and Communication Engineering</p> <p>PE8 Products and Processes Engineering</p> <p>PE9 Universe Sciences</p> <p>PE10 Earth System Science</p> <p>PE11 Materials Engineering*</p>	<p>LS1 Molecules of Life: Biological Mechanisms, Structures & Functions</p> <p>LS2 Integrative Biology: Integrative Biology: From Genes and Genomes to Systems</p> <p>LS3 Cellular, Developmental and Regenerative Biology</p> <p>LS4 Physiology in Health, Disease and Ageing</p> <p>LS5 Neuroscience and Disorders of the Nervous System</p> <p>LS6 Immunity, Infection and Immunotherapy</p> <p>LS7 Prevention, Diagnosis and Treatment of Human Diseases</p> <p>LS8 Environmental Biology, Ecology and Evolution</p> <p>LS9 Biotechnology and Biosystems Engineering</p>	<p>SH1 Individuals, Markets and Organisations</p> <p>SH2 Institutions, Governance and Legal Systems</p> <p>SH3 The Social World and its Diversity</p> <p>SH4 The Human Mind and Its Complexity</p> <p>SH5 Cultures and Cultural Production</p> <p>SH6 The Study of the Human Past</p> <p>SH7 Human Mobility, Environment, and Space*</p> <p>SH8 Studies of Cultures and Arts*</p>



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* *Since 2021 all domains have changed slightly, check again to find your proposal's best fit!*

- **PE11** and **SH7** and **SH8** panels are newly added, split off from pre-existing panels
- Descriptors under **Life Sciences** reshuffled, changing the remit of existing panels

Picking the right panel for you and your project

Make the right choice/configuration

You must choose a **best fit primary panel** – might not be perfect

Choose **Panel Descriptors** – this helps the Panel Chair to identify your proposal's main readers ahead of the panel meeting.

Choose **ERC-listed keywords from primary/secondary panel** in order of priority

Choose **Free keywords** to complement your selected ERC keywords.

Keywords in your abstract – The panel chair & ERC use this text at the very beginning as prompt for planning the evaluation process, including identifying remote expert reviewers.

You can choose a **secondary panel** – someone from another panel could help the primary panel to evaluate your proposal

Evaluation panel section in Part A form

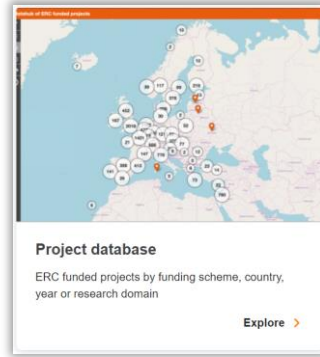
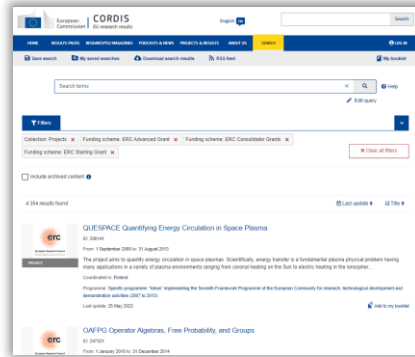
Primary ERC Review Panel*	<input type="text"/>	
Secondary ERC Review Panel	<input type="text"/>	(if applicable)
ERC Keyword 1*	<input type="text"/> <small>As first keyword please choose one which is linked to the Primary Review Panel. Please select, if applicable, the ERC keyword(s) that best characterize the subject of your proposal in order of priority.</small>	
ERC Keyword 2	<input type="text"/>	
ERC Keyword 3	<input type="text"/>	
ERC Keyword 4	<input type="text"/>	
Free keywords	<input type="text"/> <small>In addition, please enter free text keywords that you consider best characterize the scope of your proposal. The choice of keywords should take into account any multi-disciplinary aspects of the proposal.</small>	

Take your time: you can change your panel choice right up to the deadline.



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Inform yourself about past panellists and projects



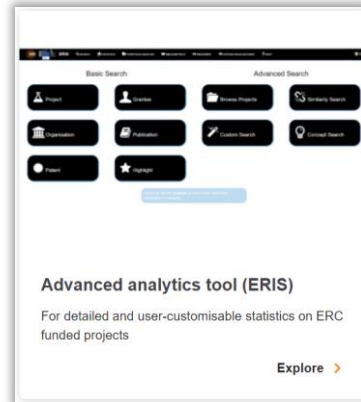
Read a wide range of descriptors & keywords in the [ERC Work Programme](#) for a thorough understanding of your best-fit panel.

Then cross-refer:

A lot of information is openly available:
in the call documents and databases
on the ERC website.

[Search for previously funded projects](#)
filtered by panel to compare yourself
to a variety of predecessors

[Look up past panel members](#) to get an idea of
what kind of audience your proposal will have.



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Am I a competitive candidate?

The track record & CV is the opportunity to 'sell' your achievements.

Benchmark yourself

- Measure yourself against the Advanced Grantee profile and the PI Evaluation Criteria in the [Work Programme](#)
- Your profile is evaluated in the context of your field of research
- Look at [previously funded Advanced PIs in your field](#), but remember you can present yourself on your own terms
- Although a PHD is not mandatory, applicants are usually at a more 'advanced stage' of their career and have been involved in research.

What counts as a 'good' track record?

- There are no prescriptive markers for a ERC Advanced grantee: be bold and present the importance of your achievements in your field
- Context matters: use short narrative descriptions to explain your role and why your achievement was important
- Help generalist evaluators to make nuanced judgements about your unique track record

Try to get lots of varied feedback as possible



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***You will need to demonstrate you are the right person
to convince other world-leading experts***

2024 Call Resubmission Restrictions

Call to which the Principal Investigator applied under previous ERC Work Programmes and proposal evaluation outcome		2024 ERC calls to which a Principal Investigator is <u>not</u> eligible
2022 and 2023 Starting, Consolidator, Advanced Grant, or Synergy Grant	Rejected on the grounds of a breach of research integrity	Starting, Consolidator, Advanced, and Synergy Grant
2022 Starting, Consolidator, or Advanced Grant	C at Step 1	Starting, Consolidator, and Advanced Grant
2023 Starting, Consolidator, or Advanced Grant	A or B at Step 2	No restrictions
	B or C at Step 1	Starting, Consolidator, and Advanced Grant
2022 and 2023 Synergy Grant	A or B at Step 3	No restrictions
	B at Step 1 or 2	No restrictions
	C at Step 1	Synergy Grant



How are ERC proposals evaluated?

Excellence is the sole evaluation criterion, applied to:

Research Project

- Ground-breaking nature, ambition and feasibility
- Scientific approach

Principal Investigator

- Intellectual capacity and creativity

Should I apply this year?

Apply when you're ready

- The calls are annual, if you're not ready, then apply next year

Have you planned ahead?

- It takes a long time and a lot of work to write an ERC proposal

Have you looked at your current PI profile?

- If you have gaps, use the guidance profile to aim for achievements ahead of later calls

Don't forget there are resubmission restrictions for ERC calls...

- Don't rush your proposal and risk being excluded for up to two years

If you can resubmit, make the most of your prior evaluation

- Reapplicants' higher success rates are likely to be linked to benefits from evaluation comments



Principal Investigator Eligibility

Who?

No restrictions based on age, nationality, current location or current employment/contract status.

Where?

Must have an institution based in an EU member state or associated country willing to host them.

Calculated as an average across entire project duration, can vary to a degree year on year

Grant Type	Minimum % of Working Time on Grant	Minimum % of time* in EU Member State or Associated Country	Years since PhD Award
Starting	50	50	2-7
Consolidator	40	50	7-12
Advanced	30	50	N/A
Synergy	30	50	N/A



Host Institution Eligibility



Can be any type of legal entity
(university, business, public body, NGO etc.)



Must be based in the territory of an
EU Member State or Associated Country



Has the infrastructure and capacity to allow the PI to
independently direct the research and manage ERC funding



Must not constrain the PI to the institution's research strategy.
PI has the right to transfer the grant to another institution.



Must 'engage' the PI for project duration, if grant is successful

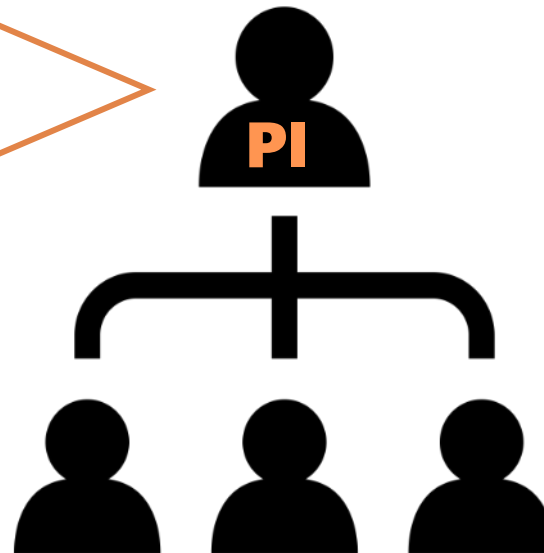


Not assessed as a separate criterion during peer review but
must sign a letter of commitment as part of application



Principal Investigators leading Team Members

- PI **leads** the research project, they are not collaborating as equals with their team
- PI has the **freedom to choose** how many team members are included in the project
- PI **names individuals or roles** that will be recruited in the proposal
- PI must **justify the team** and its composition and contribution
- Evaluators reject proposals where the PI is overshadowed by any team members



**TEAM
MEMBERS**

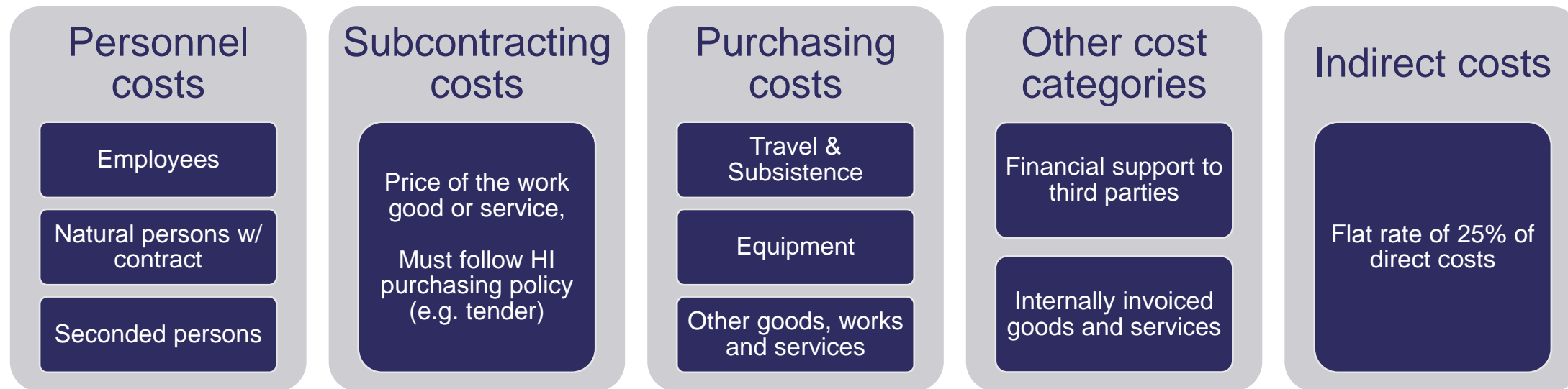
- Cannot be “co-investigators”
- Assigned to specific project outputs/tasks
- Do activities the PI can’t do by themselves
- Should not have purely supervisory/mentor roles
- Can be **research staff at any level** (including technicians and project managers)
- Think about career path of employees
- Of any age, nationality or country of residence
- Can be based **at the Host Institution or any other organisation** in the world
- **EU funded**, even outside member states or associated countries

Eligible costs for ERC projects

The ERC funds up to **100% of the total eligible costs** with a **25% flat rate of indirect costs** on top

- Same as most EU grants – based on actual cost reporting
- The budget covers the full project duration
- It can be adjusted during the project with budget transfers from one category to another
- Overall grant amount cannot be increased after start date

The budget is subdivided into:



N.B. AdG 2024 projects will be delivered via a 'Lump Sum' approach –please see our second session for further information



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Ask for support from your Host Institution's research support or finance team as early as possible,

The ERC project costing must follow your Host Institution rules as well!

Funding Levels

Grant Type	Main Grant Amount up to:	“Additional Funding” up to:
Starting	€1.5 M	€1.0 M
Consolidator	€2.0 M	€1.0 M
Advanced	€2.5 M	€1.0 M
Synergy	€10 M	€4.0 M

ERC's Additional Funding:

- eligible “start-up” costs for PIs moving from outside Europe
- the purchase of major equipment
- access to large facilities
- major experimental/fieldwork costs (excluding personnel)

Additional funding requests are **mixed into the main budget table** but **written separately** in the justification of resources text



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ERC Proposal Development

Part B1 & B2

Part A is addressed in the next session



1-Step Submission

All parts submitted together by the call deadline.

Part A is filled in online.

B1, B2 & Annexes are uploaded as PDFs.

Part A

*Administrative Forms
and Abstract*

- General Info
- Participating Institutions
- Budget & Description of Resources
- Ethics Check

Part B1

*Proposal Overview
and PI Track Record*

- Cover page and summary
- Extended Synopsis (5 pages)
- CV & Track Record (4 pages)

Part B2

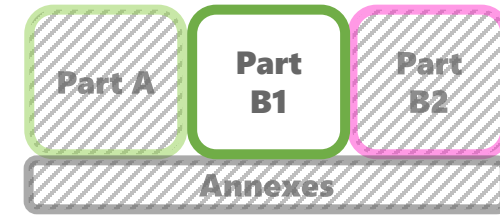
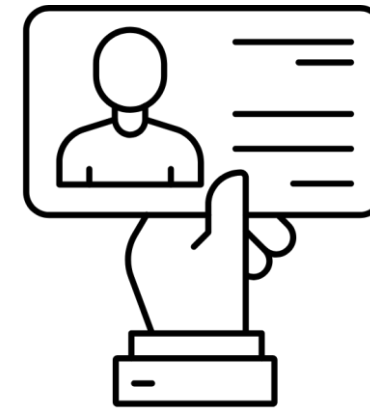
*Detailed Research
Proposal*

- State of the art
 - Objectives
 - Methodology
 - Funding ID (does not count towards page limit)
- (Total of 14 pages)

Annexes

Host Institution Letter, Ethics, Eligibility Documents

Part B1 – Step 1 of the Evaluation



Strict formatting requirements:

Page Format	Font Type	Font Size	Line Spacing	Margins
A4	Times New Roman, Arial or similar	At least 11	Single	2cm Side 1.5cm Bottom

Part B1 includes:

- Cover Page (info repeated from Part A)
- Extended Synopsis (5 pages)
- CV Track Record (4 pages)

Writing the Extended Synopsis



Self-contained

- All the essential info about your idea in 5 pages.
- Describe where the novelty lies – what is the state-of-the-art and how does this proposal go further?
- Your synopsis should be **referenced**, these won't count towards page limits – using end-notes is recommended.

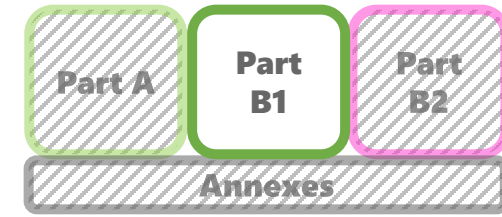
Persuasive to generalists

- A variety of experts decide collectively whether to pass the proposal to Step 2.
- Be clear and don't use **specialist jargon** because the panel are generalists as a whole, some will be less familiar with your field.
- Applicants need to **persuade the whole panel** – include just enough info and don't give any reasons to reject!

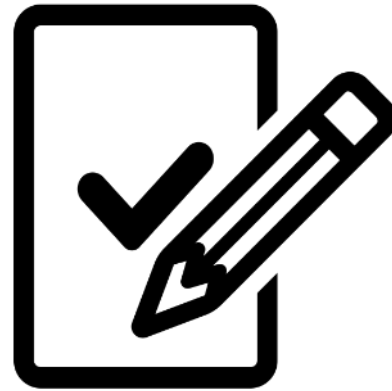
Entertaining!

- Sell your idea and yourself – the synopsis should grab the panellists' attention
- Your idea should be ambitious – be explicit about **high risk and potentially high gain**.
- The description of novelty and ambition **should leave them curious to find out more detail** in Part B2 and the interview at Step 2.

Things to think about: Extended Synopsis



- **Dual role:** key text in stand-alone B1, then goes hand-in hand with the B2 full proposal. Make it work in both ways, not as a summary of the full proposal
- **What excites you about your research?** Convey that in your application
- **Scientific Impact** – how can you change your field of research and make progress beyond the current state-of-the-art.
 - Does the research open new lines of research and/or enquiry
 - Will it lead to new scientific activity and further questions beyond the current frontier?
 - Be positive about achievements made by others thus far then demonstrate you have something new and different to offer.
- **Timeliness and relevance of the work during the project**, not just at the deadline but throughout the project's five years. Scientific impact can also be made at anytime of the project, not just at the end
- **Research Aims, should clearly link to the research objectives**, which should clearly link to research methodology(ies)



Writing your CV and Track Record

- **Curriculum Vitae and Track Record is now one single template of up to four pages.** The applicant is expected to include their personal details, education, key qualifications, current position(s) and relevant previous positions, **as well as a list of up to ten research outputs** that demonstrate how the applicant has advanced knowledge in their field with an emphasis on more recent achievements and a list of selected examples of **significant peer recognition** (for example, prizes).
- A template for the CV part is provided but not mandatory.
- The applicant may include a short, factual explanation of the significance of the selected outputs, the applicant's role in producing each of them.
- The applicant may also include **relevant additional information on career breaks, diverse career paths, and life events**, as well as any particularly noteworthy contributions to the research community they have made other than research achievements and peer recognition and a short explanation of these contributions.



Quick note on your Funding ID Table

- The Funding ID Table lists your current grants and on-going/submitted grant applications.
- It is **mainly used to flag any existing or potential grant overlaps** if your ERC proposal is successful. The ERCEA will help manage any risk of double funding if there are overlaps.
- Evaluators can see the table. Our understanding is they mainly look at it to judge whether you/your team have a feasible workload on the whole.
- This table will not count towards the page limits so include grants (not past grants that have ended, those go in the CV and/or track record).

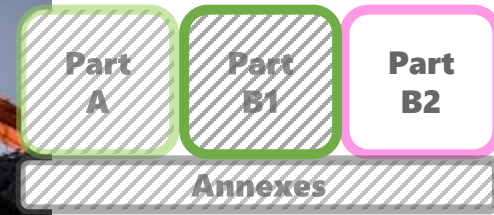


Part B2

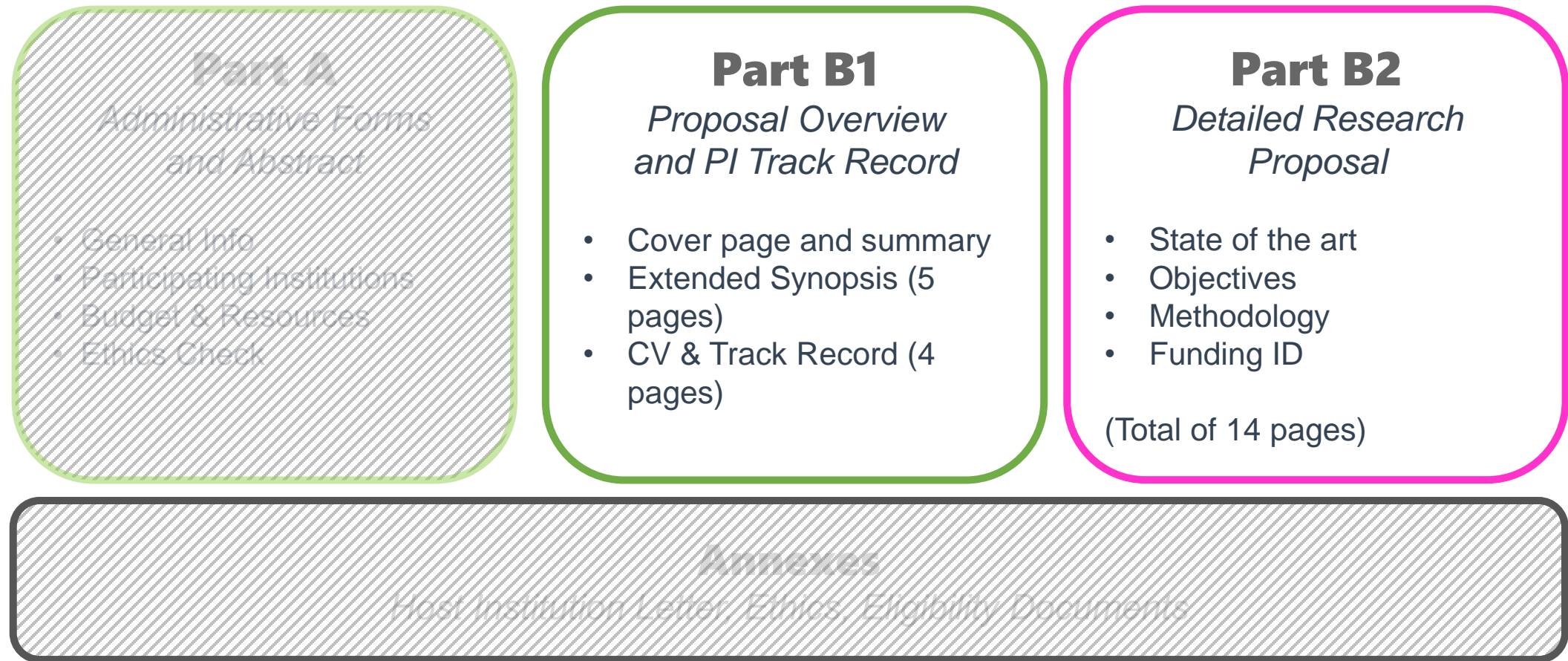
- **State of the art and objectives**
 - Objectives here become grant agreement objectives
- **Methodology**
 - Proposed methodology
 - Milestones and alternatives
 - Risk and mitigation
 - Project Management
 - Publication & Exploitation of results



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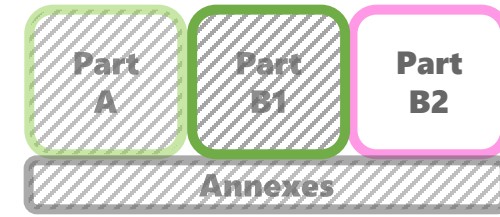
Panellists and remote evaluators will have **both** parts at Step 2



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Advanced Grant applicants also have interviews at Step 2
[WATCH OUR WEBINAR ON INTERVIEWS](#)

Writing your State of the Art and Objectives



Coherence with Part B1

- Elaborate Part B1 coherently:
Explain precisely how you plan to achieve what you promised
- A remote expert review will be provided to the generalist panel, add technical detail that someone much closer to your field would need to know.
- Don't copy & paste from Part B1. Both looked at together at Step 2, so make them complementary

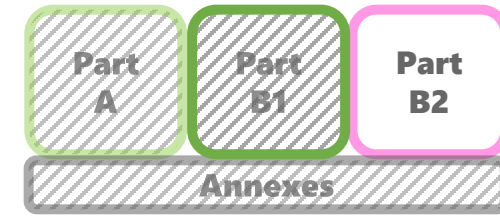
State of the art

- It should be clear how and why the proposed work is important for the field
- What scientific impact will your project have if successful? What new horizons or opportunities for science, technology or scholarship?

Objectives

- Objectives should fit the context of the state of the art – they should match the ambition to go past the current frontier
- These objectives will become part of the Grant Agreement if successful – so the need to be feasible

Writing your Methodology



Methodology

- Should be **extensive**, include the essential detail that an expert in your field would need to know
- Don't leave any reasons for experts to raise doubts for the panel
- Work plan should also be clear and **persuade evaluators that you can carry out the logistics** of a long term project

Risk Mitigation Strategy

- Where possible **cover every risk with a mitigation strategy**
- ERC accepts high risk to hopefully reach high gain – so don't shy away
- But evaluators and external experts can be risk averse
- Explicit but controlled risk

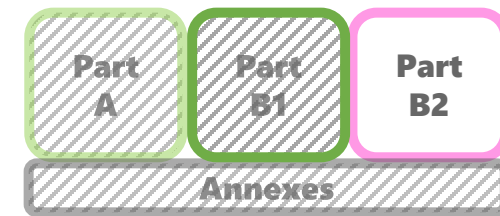
Your team

- Be sure to show **how you will be the leader** of the team and central figure for the project
- **Explain what each team member will do** – these can be named people or roles specified for recruitment

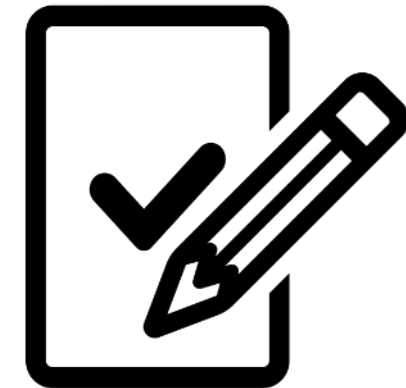
Justify resources

- Be **ambitious**, if you don't ask for something needed that can be a problem
- Justify: budget lines must have place in the project and **be linked to objectives**

Things to think about: The Scientific Proposal



- **Recap and expand** on Part B1's introductory Extended Synopsis.
- Detail the **current state of the art** in your field: highlight the achievements, challenges and gaps. Timeliness should be shown throughout.
- **Scientific impact and implications:** explain how, and why, carrying out your project is important to the field and goes beyond state of the art.
- Discuss the **challenges and unconventional aspects** of your project.
- **Coherence and clear linkages** throughout proposal text: linking aims to budget via research methodologies. The better your proposal is organised the more feasible the project work plan will appear.
- Any preliminary **data management plans or ethics approvals** are not required* but could add to the excellence of your scientific approach



*If funded: full ethics screening required before start date, data management plan required by Month 6 if funded

Other points to consider

Important aspects of proposal development that might not be immediately apparent



Open Science

Under Horizon Europe, beneficiaries of ERC grants must ensure open access to all peer-reviewed scientific publications relating to their ERC project results.

- **Open access means accessible on:**
 - a trusted repository
 - under a CC BY (or equivalent) licence (either to the 'author accepted manuscript' or the published 'version of record').
- **For long-text publications like monographs**
 - a CC BY-NC / ND / NC-ND licence (or equivalent) is acceptable.
 - The ERC Scientific Council recommends the use of the OAPEN Open Books library (<https://oapen.org>) as repository for monographs and other books as well as book chapters.

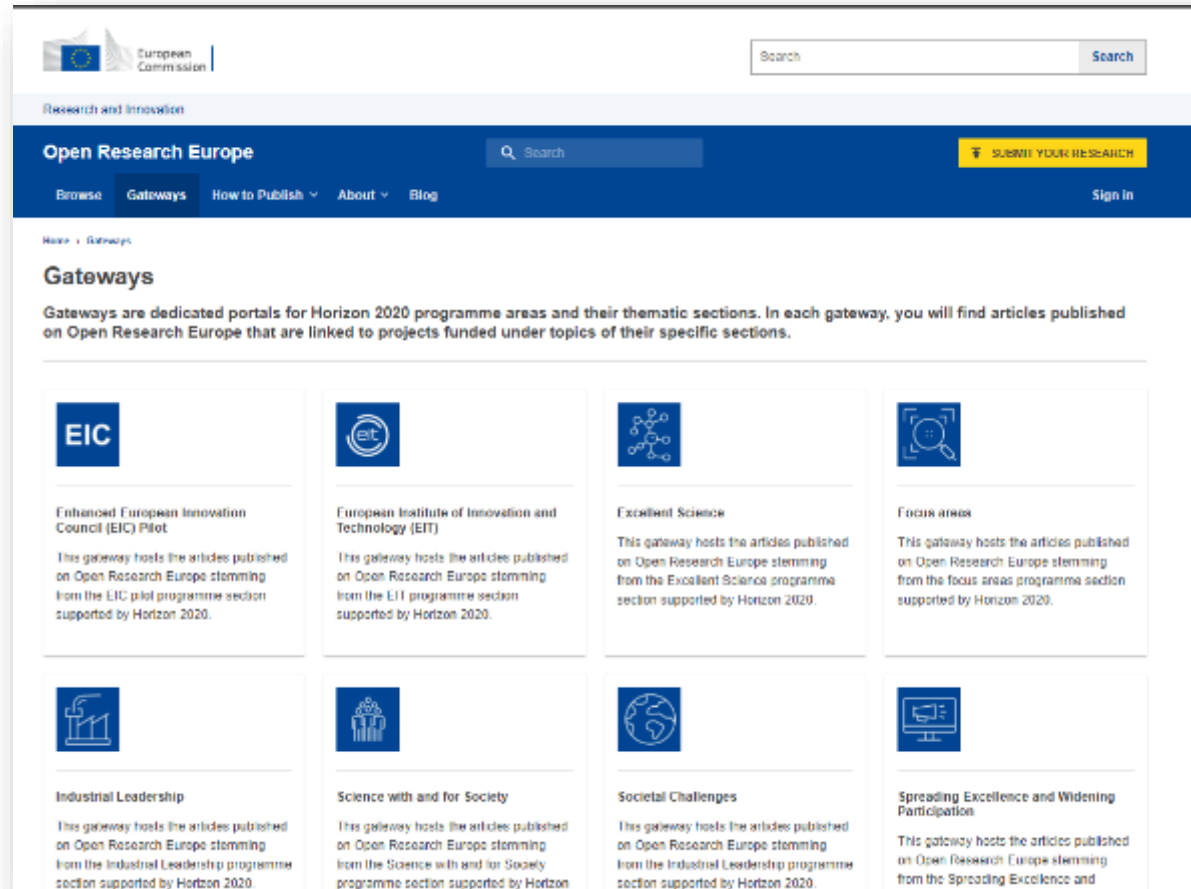
Publication costs: only eligible for funding from the grant if the publication venue is fully open access.



Resources to help

- ❖ [Provisions for Open Science on pages 110 – 112 of the HEU Model Grant Agreement](#)
- ❖ [e-learning platform on open science](#)
- ❖ [Research Data Management in Horizon Europe Proposals](#)
- ❖ [FAIR Data Principles](#)

Open Research Europe



Scholarly publishing platform that will provide Horizon 2020 and Horizon Europe beneficiaries with a no-cost full open access peer-reviewed publishing service, across all fields of research

<https://open-research-europe.ec.europa.eu/>

Why Gender?

Sex & Gender is not an extra criteria, but it could have a lot to do with your proposal's scientific excellence.

Make sure you think about it in your research design relative your field/discipline, evaluators might see this as a gap in your proposal.

Some ideas to ponder:

- Integrating the gender dimension in R&I can be added value in terms of **excellence** and **creativity**
- S&G helps researchers question gender norms and stereotypes, to rethink standards and reference models – **improve methodology**
- It can **enhance** the **validity of results** and the **societal relevance** of the knowledge, technologies and innovations produced.
- It also contributes to the **production of goods and services** better suited to potential markets – not specifically important for winning an ERC but it could be a big deal further down the line.

[Click here to watch an ERC workshop](#)

*ERC grantees talking about how the **Sex and Gender Dimension is involved in each ERC domain***

(Physical Sciences & Engineering, Life Sciences and Social Sciences & Humanities)



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The Next Session

- Register for the 2nd Information Webinar on Wednesday 12 June: ukro.ac.uk/erc and follow the links to events.
- Session 2 runs on Wednesday, from 10:00 – 12:00 UK time. We will cover:
 - Detailed explanation of how to submit the forms
 - How proposals are evaluated by the ERC
 - Guest presentation by the ERC on the 'lump sum' approach

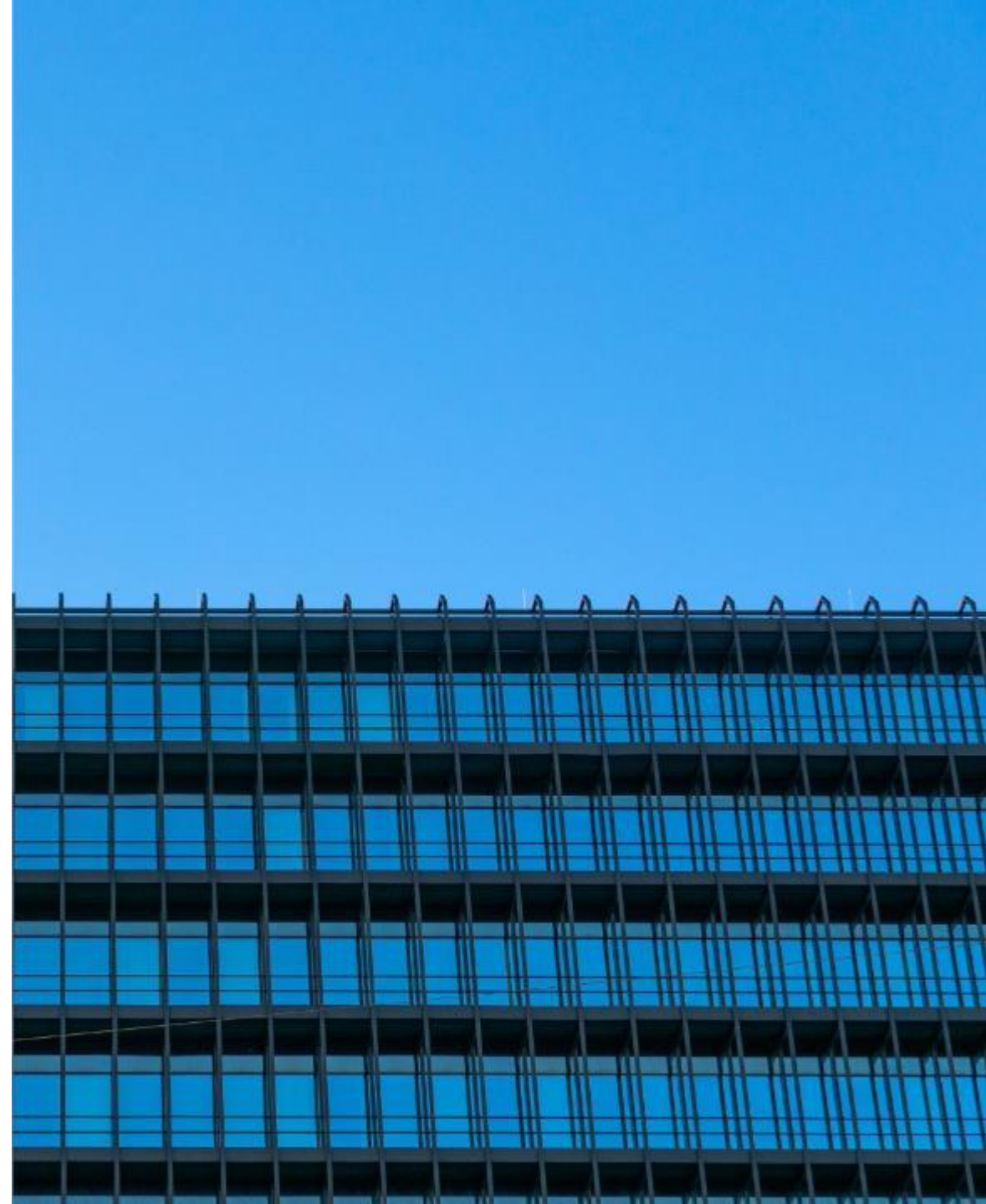


Useful links

- [ERC AdG 24 Call](#)
- [ERC work programme 2024](#)
- [Horizon Europe Model Grant Agreement](#)
- [Part B1/B2, Host Institution Support Template](#) (pdf)
- [ERC Website](#),
including the easy to use [Project Database](#) and the
more in depth [ERC Information System](#)
- [Novelties in the Horizon Europe MGA](#) –
Commission Stakeholder Workshop video



UK Research Office
Brussels





TESTIMONIAL

ERC-Grantee

Prof Lucy Carpenter
University of York



UK Research Office
Brussels

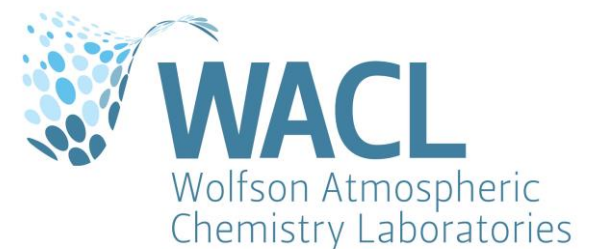
ERC Advanced Grant Testimonial

Prof Lucy Carpenter

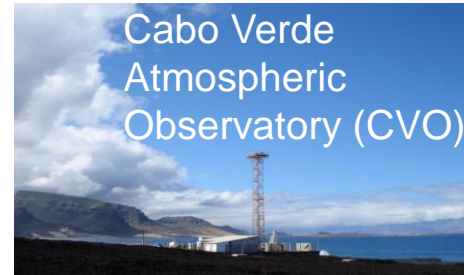
ERC Advanced Grant holder 2019-2025



- Introduction + my research activities
- How getting an ERC grant has affected my career
- Approach to the application process and top tips



Research Career



PhD

Post Doc

Post
Doc

Lecturer

Co-founded
CVO

Co-founded
WACL

Professor (2009-)

Research highlights



<https://doi.org/10.5194/acp-16-12239-2016>
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Research article | | 29 Sep 2016

Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem

Tomás Sherwen¹, Johan A. Schmidt, Mat J. Evans, Lucy J. Carpenter, Katja Großmann, Sebastian D. Eastham, Daniel J. Jacob, Barbara Dix, Theodore K. Koenig, Roman Sinreich, Ivan Ortega, Rainer Volkamer, Alfonso Saiz-Lopez, Cristina Prados-Roman, Anoop S. Mahajan, and Carlos Ordóñez

PNAS

RESEARCH ARTICLE EARTH, ATMOSPHERIC, AND PLANETARY SCIENCES



Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions

Michel Legrand¹, Joseph R. McConnell², Susanne Preunkert³, and Lucy J. Carpenter¹ [Authors Info & Affiliations](#)

Edited by Daniel J. Jacob, Harvard University, and accepted by Editorial Board Member A. R. Ravishankara October 16, 2018 (received for review June 7, 2018)

November 12, 2018 | 115 (48):12136–12141 | <https://doi.org/10.1073/pnas.1809867115>



Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production

Detlev Helmig^{1*}, Samuel Rossabi¹, Jacques Hueber¹, Pieter Tans², Stephen A. Montzka², Ken Masarie², Kirk Thoning², Christian Plass-Duelmer², Anja Claude², Lucy J. Carpenter¹, Alastair C. Lewis³, Shalini Punjabi⁴, Stefan Reimann⁵, Martin K. Vollmer⁶, Rainer Steinbrecher⁷, James W. Hannigan⁸, Louisa K. Emmons⁹, Emmanuel Mahieu⁹, Bruno Franco⁹, Dan Smale¹⁰ and Andrea Pozzer¹¹



HOME > SCIENCE ADVANCES > VOL. 9, NO. 3 > EXTENSIVE FIELD EVIDENCE FOR THE RELEASE OF HONO FROM THE PHOTOLYSIS OF...

RESEARCH ARTICLE ATMOSPHERIC SCIENCE



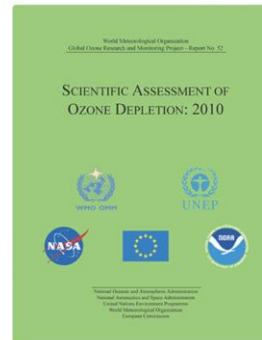
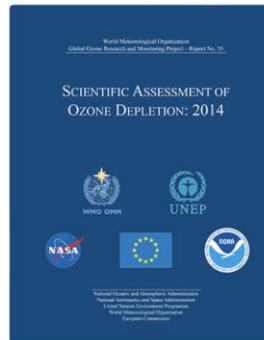
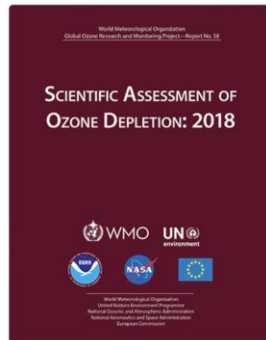
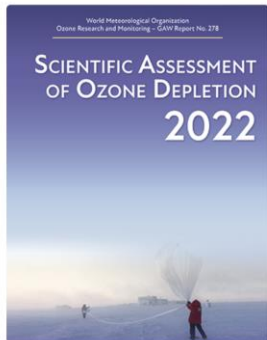
Extensive field evidence for the release of HONO from the photolysis of nitrate aerosols

SIMONE T. ANDERSEN¹, LUCY J. CARPENTER¹, CHRIS REED², JAMES D. LEE³, ROSE CHANCE⁴, TOMÁS SHERWEN⁵, ADAM R. VAUGHAN⁶, JORDAN STEWART⁷, PETER M. EDWARDS⁸, L. I. AND JOANNEH WADSWORTH COMBS⁹ [+12 authors](#) [Authors Info & Affiliations](#)

SCIENCE ADVANCES • 18 Jan 2017 • Vol 9, Issue 3 • DOI: 10.1126/sciadv.a686286



Scientific community and leadership



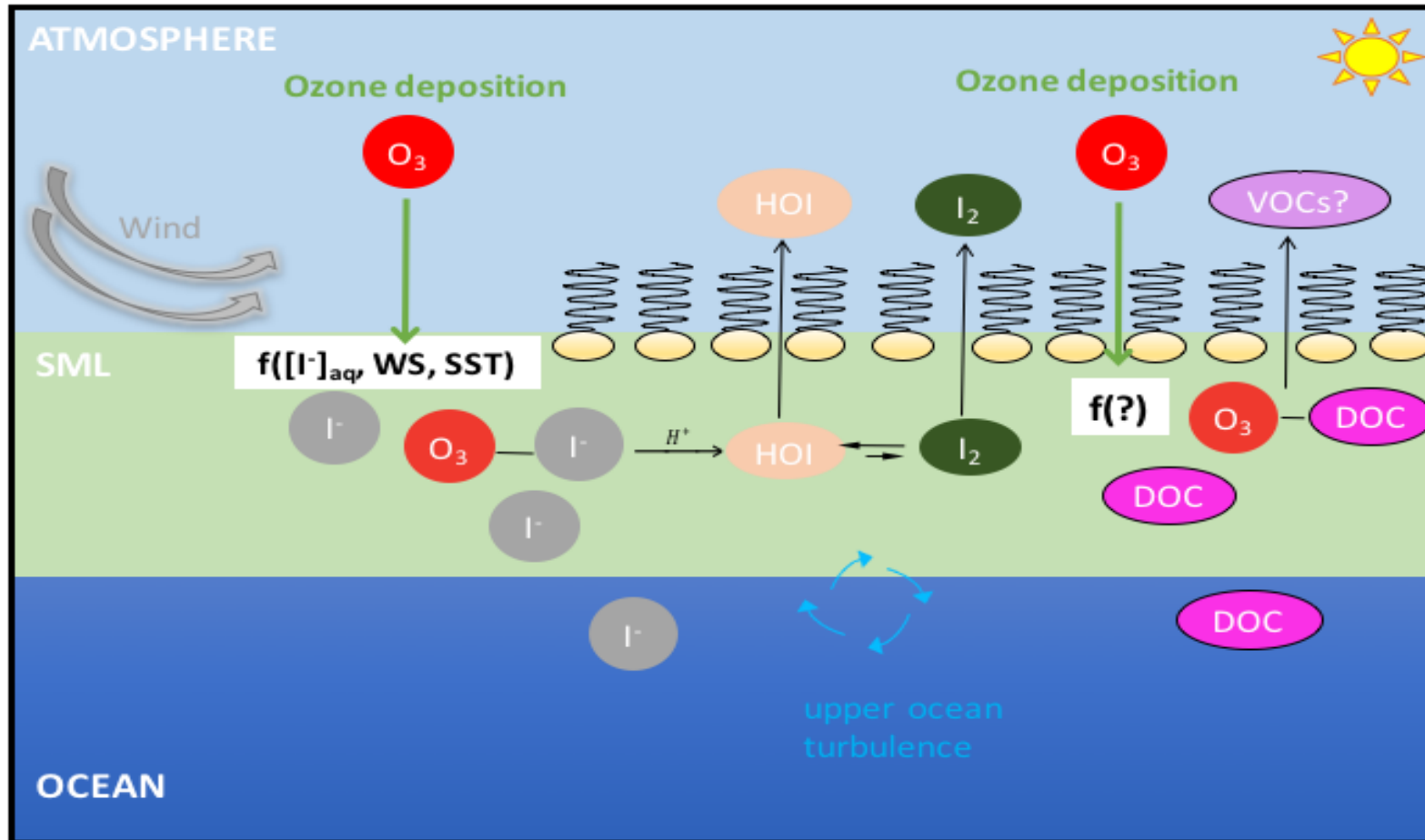
Future Leaders Fellowships



ScienceAdvances



ERC Advanced Grant Proposal



Ozone dry deposition to the sea surface microlayer “O₃-SML”

How an ERC grant has affected my career



2019

2020

2021

2022

2023

2024

New/strengthened collaborations



Access to tools, facilities + new capabilities

- State of the art mass spectrometry
- Eddy covariance
- Kinetics
- Ocean/atmosphere modelling
- Biochemistry/ algal culturing
- Access to field work platforms



★ New science opportunities ★



How an ERC grant has affected my career – basic metrics



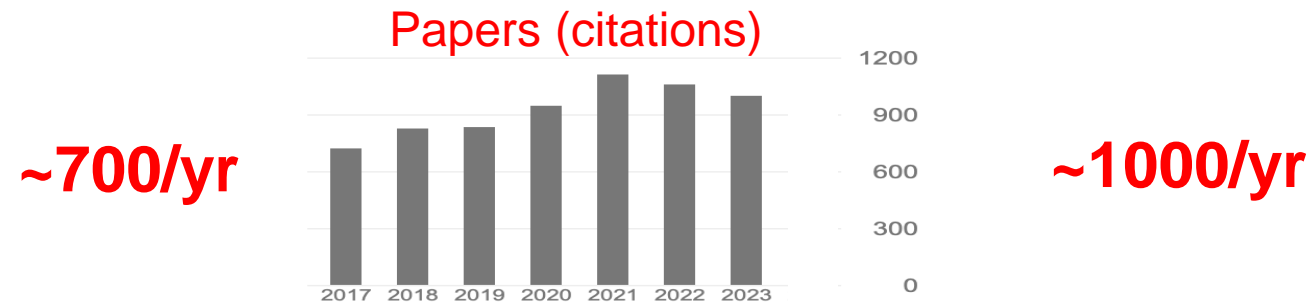
1 x PDRA
2 x technical staff
4 PhD students (some shared)

7

Group size

14

7 x PDRAs (some shared)
1 x technical staff
6 PhD students (some shared)



2 NERC grants;
1 NERC contract

~£300k/yr

Grants

~£600k/yr

4 NERC grants; 1
NERC contract; 1 ERC;
1 EC; 1 EPSRC

My approach to the application process



1 year



My approach to the application process



1ST DRAFT



✓ FINAL DRAFT

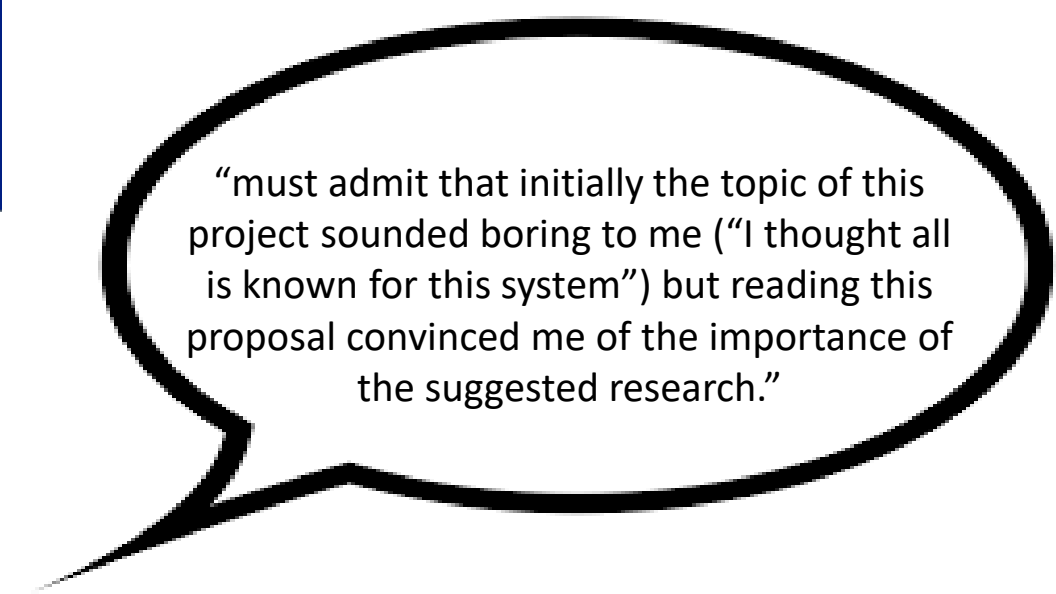
2 months



Top tips



- An exciting, ambitious ground-breaking vision
- High risk, high reward
- It goes beyond the state-of-the art
- Make it a pleasure to read
- Make sure they know that the topic is important (it doesn't have to be applied)
- Add urgency. Why has no-one else done this and why is now the right time?
- Paint a picture of your master plan and clearly outline how the grant will help you reach it
- Give yourself a lot of time (sabbatical?)
- Get feedback, refine, go again
- Make your expertise and innovation clear (but proposal matters more than the CV)

A large, hand-drawn style speech bubble with a thick black outline, pointing towards the bottom left.

“must admit that initially the topic of this project sounded boring to me (“I thought all is known for this system”) but reading this proposal convinced me of the importance of the suggested research.”



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Brussels

Thank you, any questions?



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Q&A



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