



OUTLINE

- ERC: Mindset and principles
- What's new in Horizon Europe?
- What makes a competitive proposal? Some reflections
- Q+A





1 Principal Investigator (PI) + Host Institution (HI)





Excellent scientists in all career stages

- Starter
- Consolidator
- Advanced

2-4 PIs together: Synergy



- Minimum time commitment by PI (50% in EU/AC; 50%/40%/30% for project)
- PI autonomy
- ERC Grants are portable

FRONTIER RESEARCH GRANTS: FUNDING AND TIME WINDOWS



2-7 years post PhD*

max. **1,5** (-2,5) **Mio €** for 5 years

next deadline:
March 9, 2021
(tbc)
Eligibility reference

date 1.1.2021

CONSOLIDATOR

7-12 years post PhD*

max. **2,0** (– 3,0) **Mio €** for 5 years

next deadline:
April 20, 2021(tbc)
Eligibility reference
date 1.1.2021

ADVANCED

outstanding 10 years track record max. **2,5** (– 3,5) **Mio €** for 5 years

next deadline: Aug 31,2021 (tbc)

FFG Forschung wirkt.

Eligibility timewindow can be extended in defined cases, e.g. for maternity, parental leave, long-term illness *Time windows will stay the same for first calls in Horizon Europe/ **WP 2021**

SYNERGY

max 10 Mio (-14 Mio) € for 6 years next deadline:

Nov 2021(tbc), Call 2022

SPECIFICS OF THE ERC EVALUATION PROCESS



STEP 1



Extended Synopsis (B1) - 5 pages

+ CV - 2 pages

+ Track record - 2 pages

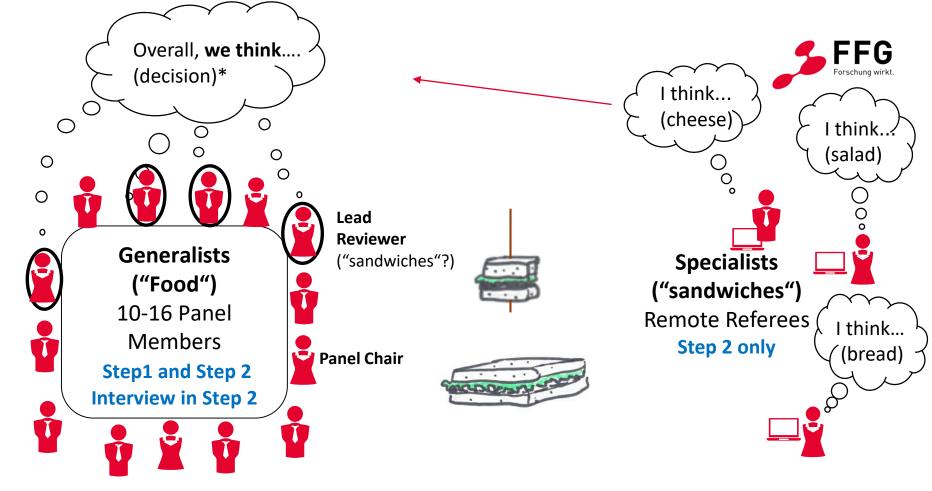
Only B1 is evaluated at step 1

STEP 2



Full proposal (B2) - 15 pages

B1 and B2 are available to reviewers in step 2



^{*} Funding decision taken by entire panel

ERC PANEL STRUCTURE 2021/2022



27 ERC Panels (2 new)

whole science approach

Life Sciences

Physical Sciences

S of Matter

- LS1 Molecular & Structural Biology and Biochemistry
- LS2 Genetics, Genomics, Bioinformatics, Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology and Endocrinology
- LS5 Neurosciences and Neural Disorders
- LS6 Immunity and Infection
- LS7 Diagnostic Tools, Therapies and Public Health
- LS8 Evolutionary, Population and Environmental Biology
- LS9 Applied Life Sciences and Non-Medical Biotechnology

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical and Analytical Chemical Sciences
- PE 5 Synthetic Chemistry and Materials
- PE6 Computer Science& Informatics
- PE7 Systems & Comm. Engineering
- PE8 Products and Processes Engineering
- PE9 Universe Sciences
- PE 10 Earth System Science
- PE 11 Materials Engineering

- SH1 Invididuals, Markets and Organisations
- SH2 Institutions, Values, Environment and Space
- SH3 The Social World, Diversity, Population
- SH4 The Human Mind and Its Complexity
- SH5 Cultures and Cultural Productions
- SH6 The Study of the Human Past
- SH7 Human Mobility, Environment and space

Detailed panel structure 2021/2022 at:

https://erc.europa.eu/sites/default/files/document/file/ERC_Panel_structure_2021_2022.pdf

SCIENTIFIC EXCELLENCE





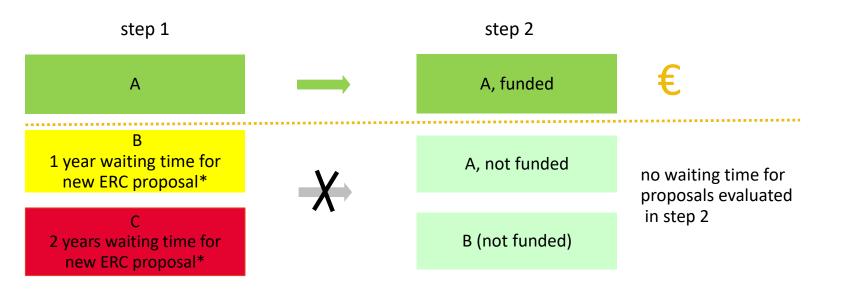
Ground-breaking nature and potential impact of the research project: important challenges? ambitious? beyond state of the art? high risk/high gain?

Scientific approach: feasible? methodology & working arrangements appropriate? novel methodology? adequate timescales, resources, PI commitment?

- PI
- demonstrated ability to conduct ground-breaking research?
- evidence of creative independent thinking?
- required scientific expertise and capacity?
- demonstrated sound leadership in the training and advancement of young scientists? (Advanced, Synergy)

EVALUATION OUTCOMES – ERC CALLS 2021



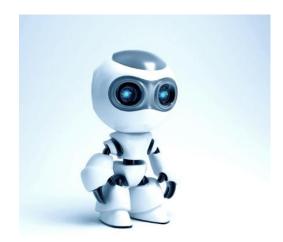


^{*} exception: Synergy Grant (no waiting time foreseen in ERC Work Programme 2021)

POSSIBLE FUTURE: DYNAMIC PANELS FOR ALL ERC GRANTS?



- Model: ERC Synergy Grant
- Al used for allocation of panel members to proposals



source: iStock FFG









CONTEXT/ BIG PICTURE



-DRIVING RESEARCH QUESTIONS -TESTABLE HYPOTHESES (?)







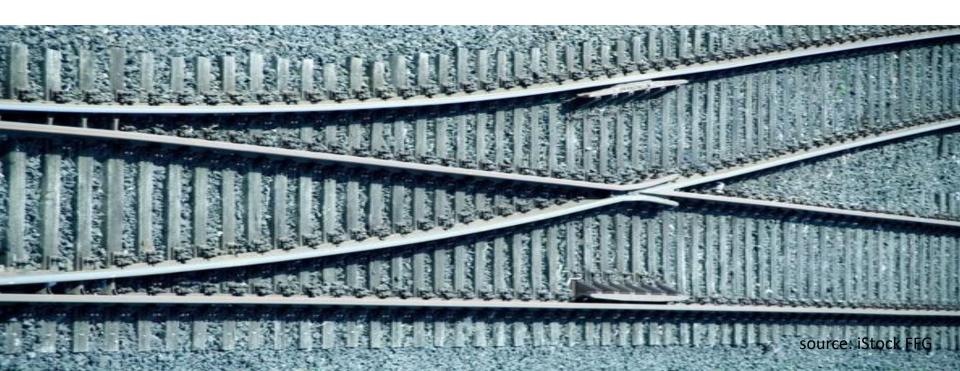














UNIQUE FEATURES

-> COMMAND OF LITERATURE & COMPETING APPROACHES



SOME REFLECTIONS ON WRITING THE PROPOSAL- SUMMARY



- fundamental knowledge gap, core novelty
- context/big picture
- driving research questions
- testable hypotheses (?)
- groundbreaking approach: big leap, not incremental
- outline also more long-term research vision (e.g. 5-10 years)
- ambitious scope well-justified focus
- demonstrate favourable gain/risk-balance; back-up plans
- central research objectives clear and measurable
- how will you validate and interpret your results? → explanatory power, significance
- clear proposal structure
- think of the interview already when writing the proposal

WHAT MAKES AN ERC PROFILE?





STARTER

Must have already shown the potential for research independence and evidence of maturity. E.g. at least one important publication as main author or without the participation of the PhD supervisor



CONSOLIDATOR

Must have already shown research independence and evidence of maturity. E.g. several important publications as main author or without participation of the PhD supervisor.



ADVANCED

Promising 10 years track record

WHAT MAKES AN ERC PROFILE?





Starter, Consolidator: Promising **track-record of early achievements** appropriate to the research field and career stage



e.g.:

- significant publications as main author in major international peer-reviewed multi-disciplinary journals, or in the leading international peer-reviewed journals of the field
- monographs
- **invited presentations** in well-established international conferences
- granted patents
- prizes/awards
- academy memberships
-consider also other aspects to to **demonstrate your recognition in the field,** e.g. organization of conferences, chairing of sessions, reviewing activities, teaching, supervision, services to the community, ...? → CV &Track Record section

HOW CAN YOU PRESENT YOUR PROFILE?



CV-Template – 2 pages:

Education; Current and previous position(s), Fellowships and Awards, Funding ID; Supervision of students, organisation of scientific meetings, institutional responsibilities, commissions of trust; memberships of academic societies, major collaborations; career breaks

Track Record – 2 pages:

Early achievements Track Record (Starter/Consolidator)

Extended Synopsis (B1) and Scientific Proposal (B2):

e.g. references: - As we could show in [ref],... preliminary results,...

CV-TEMPLATE – SOME TIPS



- Panel members appreciate the template → follow it where possible, adapt where necessary/useful
- Current and previous position(s); → + declined offers
- Supervision of Graduate Students and Postdoctoral Fellows
 → provide also info on informal supervision (without habilitation)
- Reviewer for Journals, for other funding agencies, PhD advisory committee,...? field-specific "merits"? -> demonstrating your visibility in the community
- Mention also concluded grants (in addition to extra annex on current grants); you can also indicate total funding raised so far
- Major collaborations: To illustrate that you are well connected with top researchers, built a network independently,...

TRACK RECORD



overview

Publications:

Major international peer-reviewed multi-disciplinary scientific journals, and/or in the leading international peer reviewed-journals, peer-reviewed conferences proceedings and/or monographs,... → up to 5 (Starter) or up to 10 (Consolidator, Advanced) representative publications → describe significance and your role

- Research monographs and any translations thereof
- Granted patent(s)
- **Invited presentations:** internationally established conferences, international advanced schools
- Prizes, awards, academy memberships

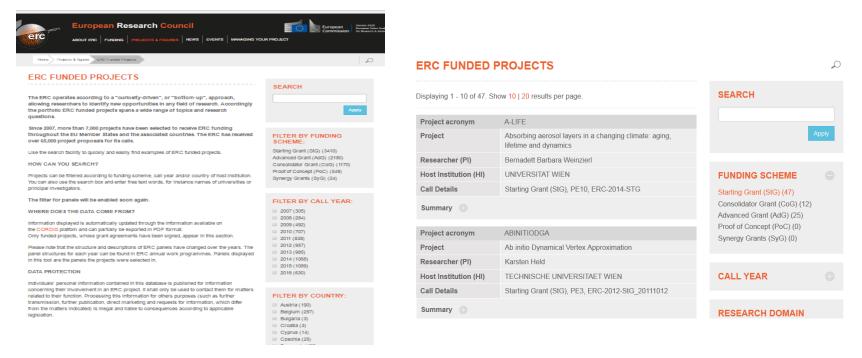
"I WANT TO SEE SOMETHING SPECIAL"





ERC PROFILES: FIND A GRANTEE NEAR YOU





https://erc.europa.eu/projects-figures/erc-funded-projects

USEFUL LINKS/FURTHER ONLINE RESOURCES TO GET STARTED



- New: ERC Classes ERC Youtube Channel
- Several successful ERC Proposals published online, e.g. OpenGrants, Academia, FigShare
- ERC Homepage: https://erc.europa.eu/
- Previous ERC Panel Members: https://erc.europa.eu/document-category/evaluation-panels



https://www.youtube.com/watch?v=xbFbzkVWgCU&list=PLtv6FnsXqnXAYRk6HCErwMxwML0ZKoMcy

ERC-RELATED SERVICES BY FFG





- Webinars/interactive online sessions on proposal writing
- Proposal Reading Days
- Individual consultancy
- Proposal checks
- Notes and Tips-document for all ERC calls
- Interview Trainings
- Homepage: https://www.ffg.at/erc
- Contact: ylva.huber@ffg.at

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