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# The ERC evaluation process

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# Today's topics:

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- ERC projects - brief overview
- Evaluation process & criteria
- Tips on proposal preparation:
  - what to keep in mind when putting it together
  - frequent problems/misconceptions

# ERC projects - overview

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- **ERC Starting Grants:** 2-7 years after PhD
  - at least partly independent or with clear potential for research independence
  - at least one important publication without the participation of the PI's PhD supervisor
- **ERC Consolidator Grants:** 8-12 years after PhD
  - fully independent researcher
  - evidence of maturity (well developed publication profile)
- **ERC Advanced Grants:** no limit
  - world leading researcher
- **ERC Synergy Grants:** 2-4 PIs
  - “outstanding intrinsic synergetic effect” that can't be achieved by a single PI; 6 years
- **ERC Proof of Concept Grants:** a holder of an on-going ERC grant (StG, CoG, AdG, SyG)
  - commercial or societal impact of the main grant; 18 months

# ERC projects - overview

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## ■ Panels:

- Chair + 14-16 members
- cover all subdisciplines in the panel's domain as **generalists**
- different countries, incl. overseas experts
- only Chair's identity is known, the rest only after results are published
- Chair distributes proposals among the members  
based on **your abstract** !
- each proposal is read by 4 panel members:
  - 1-2 might be experts in your **field**
  - the rest are experienced researchers within the domain of a given **panel**



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# Evaluation process

# Evaluation process

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- **Step 1 - B1** document only = 5-page 'extended' synopsis & PI profile
- **Panel meeting:**
  - designated Lead Reviewer – summary of the strong and weak points
  - general discussion within the panel
    - provisional **marks** (A, AB, B, BC, C) & **ranking** of the proposals
  - detailed discussion of AB/BA-marked proposals
    - final decision about proposals **to retain for Step 2** (max. 44/panel)
    - & list of external, expert reviewers for Step 2
  - Lead Reviewers – final report for **rejected proposals** (approved by entire panel):
    - main reasons for rejection, advice for improvements

*ergo:*

**B1** is absolutely **crucial** for getting your foot in the door!

# Evaluation process

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- **Step 2 - B1 & B2 documents**
- **Panel preparation** for the interviews:
  - The **evaluation** and **ranking process start over**, regardless of the mark from Step 1

- reviewers: panel members as generalists  
& minimally 3 (often up to 6) **external experts in your discipline**
- Lead Reviewer prepares:
  - summary of all reviews
  - draft evaluation report
  - questions for the interview



provisional Step 2 ranking based on internal & external reviews

# Evaluation process

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- **Step 2 panel meeting (a.k.a. ‘interview’):**

- applicant’s short presentation
- Q & A period:
  - Lead Reviewer – questions about the critical points raised by external reviewers
  - other panel members

→ provisional ranking adjustments during a closed discussion

- last day, after all interviews:
  - general discussion, esp. ranking of A/B and B/A proposals
  - budget issues, recommendations for adjustment if needed
  - **final marks and ranking** approved by **all members** of the panel

- **In sum** – decisions are based on:

experts’ reviews & performance in the interview & panel’s collective judgment







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# Evaluation criteria

for "excellent frontier research"...

# Criteria - overview

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- Proposals – numerical marks (1.0 – 5.0):
  - ground-breaking nature
  - ambition
  - feasibility
- PI – overall assessment (no numerical values anymore):
  - intellectual capacity
  - creativity
  - research achievement and peer recognition
- ! ■ journal-based metrics (such as IF & similar) *not* to be used in PI evaluation
- *More emphasis on project excellence than PI's past achievement*

# What counts as 'excellence'?

## 1. Project proposal

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- **Originality** of your research
  - a new way of framing a known problem
  - novel and open-ended research questions
  - ideally, hypothesis-driven research (may depend on the field)
- **Significance** of new findings & impact on specific disciplines
  - the results have to lead toward *re-conceptualizing* a topic
  - potential for impact on research in related disciplines
- **Nonstarters, to be avoided:**
  - adding 'new knowledge'/discovering new 'facts' (= *descriptive* research)
  - 'filling the gap' (≠ a measure of significance)
  - incremental research

# Putting it together...

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- State of the art
  - thorough & convincing critical assessment of existing research:
    - must support the claim of your originality
    - must make it clear why your research is important & findings will be significant
- Project design
  - well-defined and clearly presented focus and scope (the *ambition* criterion!)
  - concrete steps and methods for conducting the research
  - properly structured project's parts and sub-parts
  - meaningful relationships between the parts and their findings
  - overall coherence of the project → answering the 'big question'

*note:*    **no longer** an issue of 'hi-risk/hi-gain' quality !

# Putting it together...

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## ■ Feasibility

- appropriate data and methods:
  - sources of data (existing?, new?, volume?, relevance?, access?...)
  - well-justified methodology (need not be brand-new!)
- properly set and clearly presented timeline:
  - believable and effective time allocation
  - coherent milestones and time flow
- team composition and expertise, division of labor:
  - convincing coverage of the scientific requirements of the project
  - appropriate level of skills, expertise, experience of each project member
  - clearly defined PI's role, responsibilities, and degree of engagement

remember:

these are *individual* grants, **you** are the center of the responsibility !

# What counts as 'excellence'?

## 2. Researcher profile

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- Evidence of **creativity & intellectual capacity**
  - advancement in the field through your scientific output
    - **substantial** research output to convince the panel you can carry out the project
    - evidence of **international** recognition
  - emphasis on more recent achievements (publications, datasets, software, patents...)
- Peer recognition:
  - prizes, awards, fellowships, elected academic membership
- Other noteworthy contributions to the research community (if applicable)
  - = additional responsibilities, commitments, and leadership roles beyond your individual research activities



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# Proposal preparation – dos and don'ts

# B1 - Extended synopsis

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- Must appeal to **both generalists and experts** in the discipline
- Convincingly presented project description:
  - contextualization within the state of the art, which
    - motivates project's research questions and objectives
    - highlights project's ground-breaking quality
  - clear articulation of the project's conceptual novelty (the 'main idea')
  - description of chosen approaches (not detailed methodology yet)
- Make sure you:
  - resist using too much jargon (esp. important in B1 and Abstract)
  - maintain logical flow in the text (helpful to the evaluator)
  - strike the right balance between the proposal's sections
  - break up the text with an occasional graphic and/or examples



# B2 – Full project description

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- Aim for **scientific peers** in the topic/discipline/nature of your project
- Full description:
  - detailed methodology
  - issues (if any) with data that will be used and any contingencies (if applicable)
  - clear articulation and motivation of objectives, novelty, significance, theoretical break-throughs
  - detailed work plan and workflow

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*in sum:* B1 and B2 are distinct documents – written for **different audiences** and with **different goals**

# Things to be generally careful about

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- Select the right panel to start with!
  - frame your research and write your proposal **for that audience**  
(different panels may be used to different style and language)
- Do not try to oversell your project/results
- Do not use buzzwords
- Do not engage in name dropping
- Do use graphics – but judiciously and according to the habits of your discipline, AND diagrams have to be truly informative and easy to follow
- Do not evaluate your own project for the panel  
(as in e.g. “this is a very ambitious project”)

# Things to be generally careful about

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- Not enough to focus on developing/building a new infrastructure
- Not enough to “generate new knowledge” – what kind of knowledge??
- Not always a good idea to pursue a topic that is ‘in vogue’
  - try to be unique
- Not enough to aim for societally relevant outcome without significant scientific impact
  - societal usefulness as a ‘side effect’ is commendable but ERC grants are not about applied research
- CV and TR: short informative narratives instead of long lists of items

# Some parting words:

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- Be prepared to put in many months (9-10) of thinking, rethinking, writing, rewriting – simply a LOT of hard, intensive work.
- Do not feel discouraged if you don't succeed – ERC grants are extremely competitive, and you can always submit again.
- Read the feedback carefully and take it seriously – the evaluators are experienced researchers, and their feedback can help you see how others understand your work.
- Don't be afraid of being bold and ambitious.
- Be proud of your courage and accomplishment, and –

*good luck!*