



# ERC Call 2023

## Bringing great ideas to life

- Create excitement
- Demonstrate Passion



Yellow Research

1

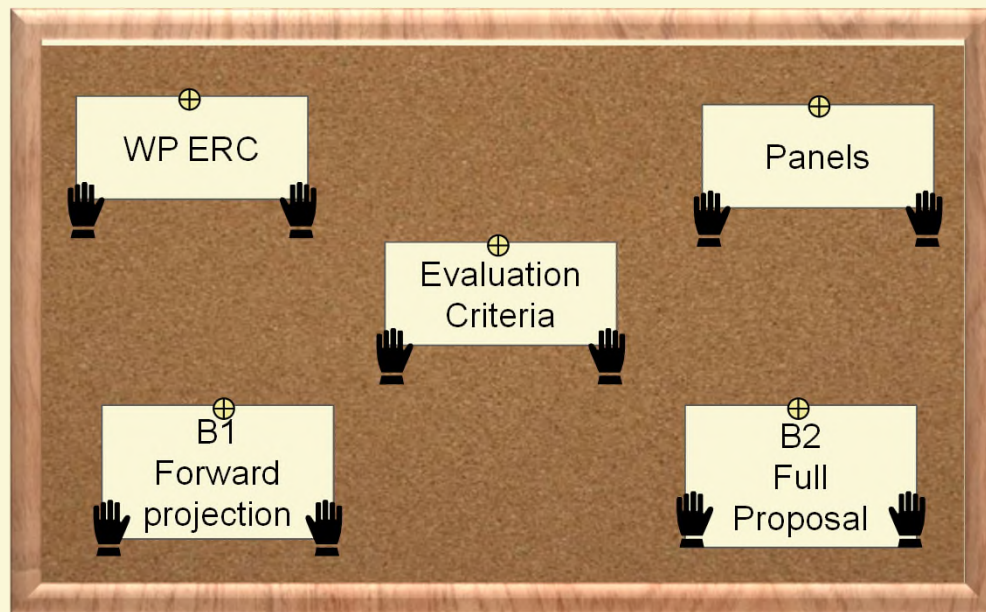


## I'm Lotte Jaspers

- Founding Partner of Yellow Research
- Co-developed with Mette Skraastad and Aya van den Kroonenberg at Yellow Research

Yellow Research

## Webinar



Yellow Research

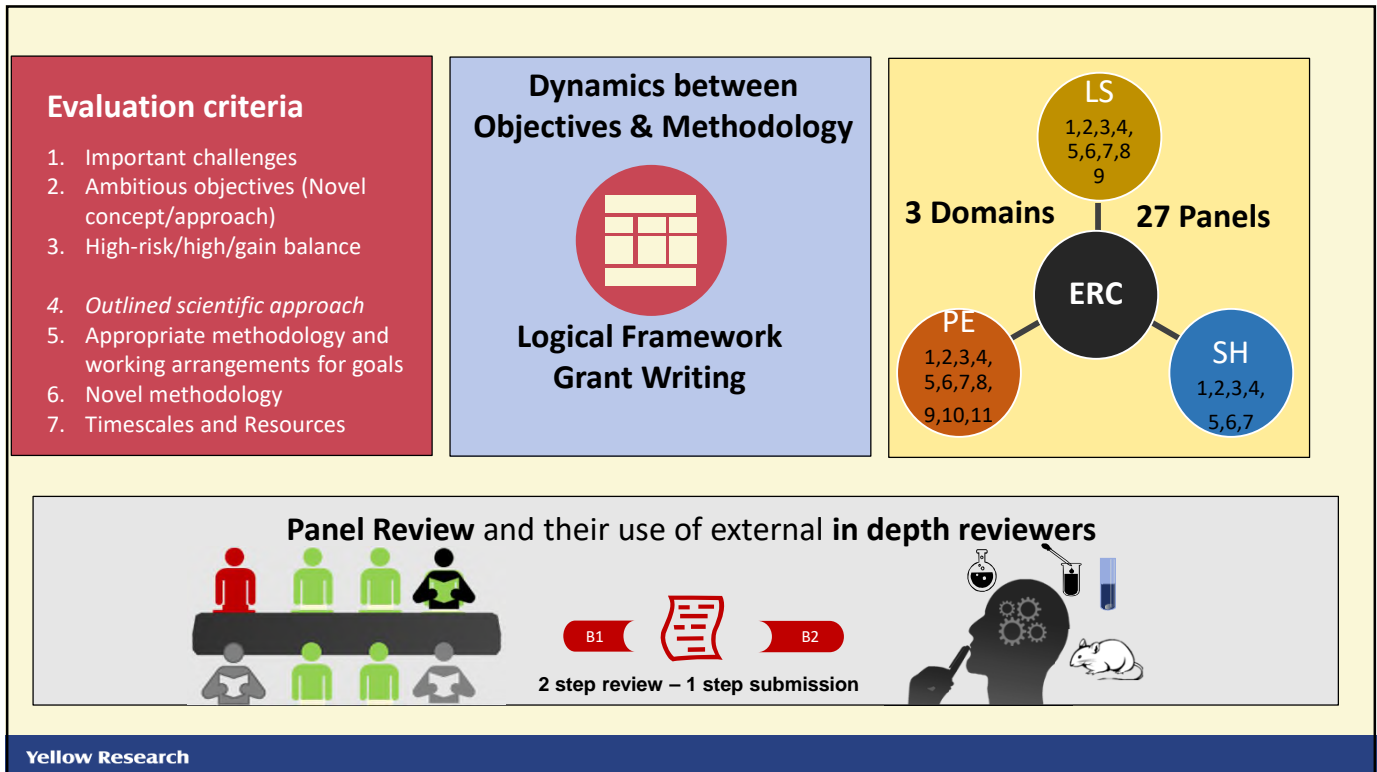
## Start here

PI's: Idea

PI's:  
Profile, Capacity, Expertise



Yellow Research



# Application Form

Applicant's last name Part B1 ACRONYM

**ERC Starting Grant 2022  
Research proposal [Part B1]<sup>1</sup>**  
(Part B1 is evaluated both in Step 1 and Step 2,  
Part B2 is evaluated in Step 2 only)

**Proposal Full Title**

**PROPOSAL ACRONYM**

**Cover Page:**

- Name of the Principal Investigator (PI)
- Name of the PI's host institution for the project
- Proposal duration in months

Text highlighted in grey should be deleted.

Please copy/paste the abstract from the online proposal submission form, section 1.

The abstract (summary) should, at a glance, provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved. The abstract will be used as the short description of your research proposal in the evaluation process and in communications in contact with particular the potential referees and/or inform the Commission and/or the programme management committees and/or relevant national funding agencies (provided specific permission to do so where requested in the online proposal submission form, section 1). It must therefore be short and precise and should not contain confidential information.

Please use plain grey text, avoiding formulae and other special characters. The abstract must be written in English. (There is a limit of 2000 characters (spaces and line breaks included)).

Applicant's last name Part B1

**Section b: Curriculum vitae (max. 2 pages)**  
(Please provide a complete CV as much as possible (it may however be amended if necessary))

**PERSONAL INFORMATION**

Family name, First name:  
Researcher unique identifier(s) (such as ORCID, Research ID, etc. ...):  
Date of birth:  
Nationality:  
URL for web site:

**EDUCATION**

Applicant's last name Part B1

**Appendix: A) current grants and on-going and submitted grant applications (Funding ID)**  
Mandatory information (does not count towards page limits)

**Current grants (Please indicate "No funding" when applicable):**

Project Title	Funding source	Amount (Euros)	Period	Role of the PI

**On-going and submitted grant applications (Please indicate "None" when applicable):**

Project Title	Funding source	Amount (Euros)	Period	Role of the PI

Applicant's last name Part B1

**Section c: Early achievements track-record (max. 2 pages)**

(Provide a list of achievements reflecting the Principal Investigator's track record. You may include a short narrative describing the scientific importance of the research output that the Principal Investigator played in their production.)

(see "Information for Applicants to the Starting and Consolidator Grant 2022 Calls" for details)

Applicant's last name Part B2 ACRONYM

**ERC Starting Grant 2022  
Part B2<sup>1</sup>**  
(not evaluated in Step 1)

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards limits.

Text highlighted in grey should be deleted.

Please respect the following formatting constraints: Times New Roman, Arial or similar, at 11, margins (2.0 cm side and 1.5 cm top and bottom), single line spacing.

**Section a. State-of-the-art and objectives**

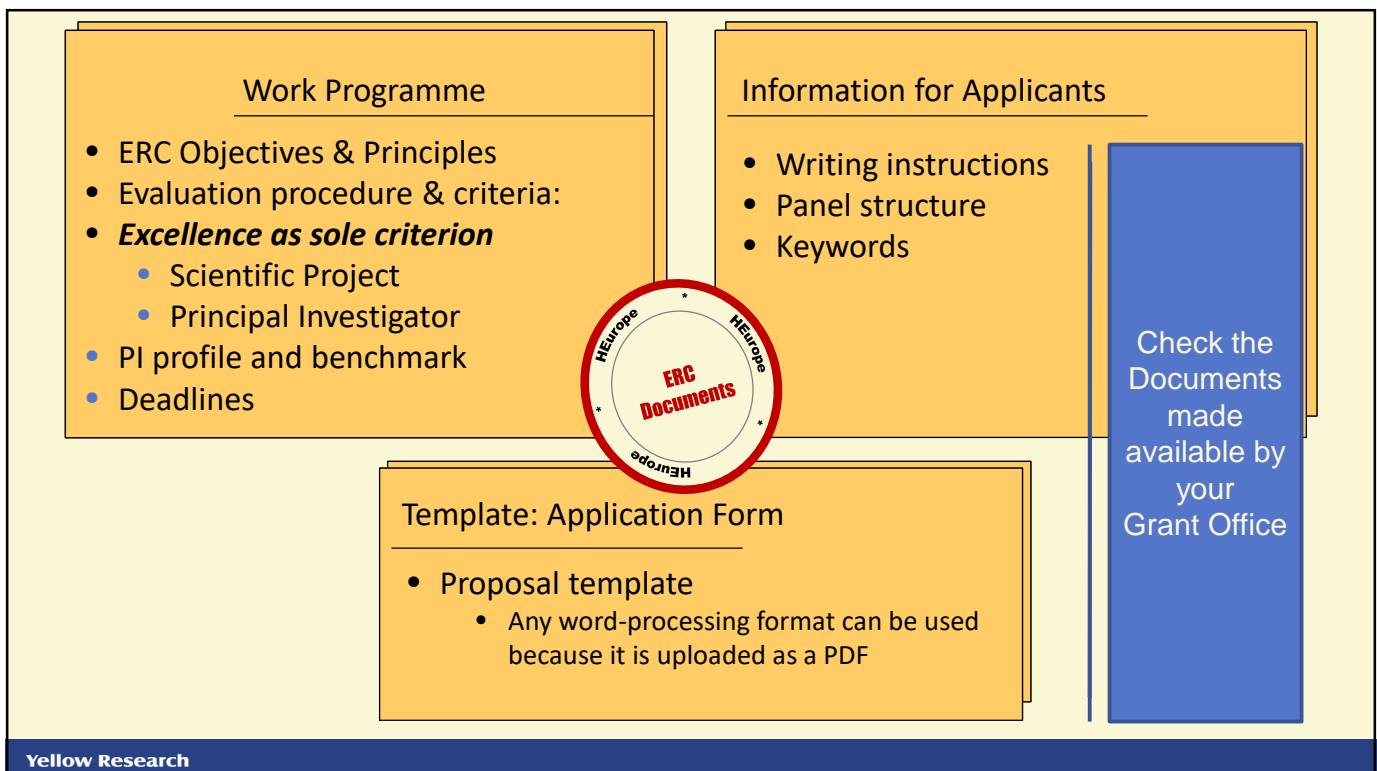
**Section b. Methodology**

Do NOT include any description of resources or budget table here (Part B2). The Resource and budget table are part of the online submission form (Part A, Section 3 - Budget). It will be extracted and provided to the peer reviewers.

<sup>1</sup> Instructions for completing Part B2 can be found in the "Information for Applicants to the Starting and Consolidator Grant 2022 Calls".

1

# Documents



# Work Programme

## ERC objectives & principles

**H-Europe : to pursue ground-breaking, high-risk/ high-gain research  
Advancing the frontiers of knowledge**



- A** Any field of science, engineering and scholarship
- B** Encourages proposals of an multi/inter-disciplinary nature;
- C** Pioneering proposals addressing new and emerging fields of research; or
- D** Proposals introducing unconventional, innovative approaches and scientific inventions
- E** Host institution in an EU Member State or an Associated Country
- F** Grant is portable

## Pursuing ground-breaking, high-risk/ high-gain research Advancing the frontiers of knowledge



- What results would be a major contribution to the field
- What would be significant advances for the field
- Implying good publications

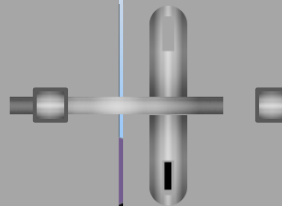


- What would be the holy grail
- What would be ultimate goal for the field
- Implying publications in the highest multi-disciplinary journals in the field = **landmark publication**

High-risk/High-gain dimension

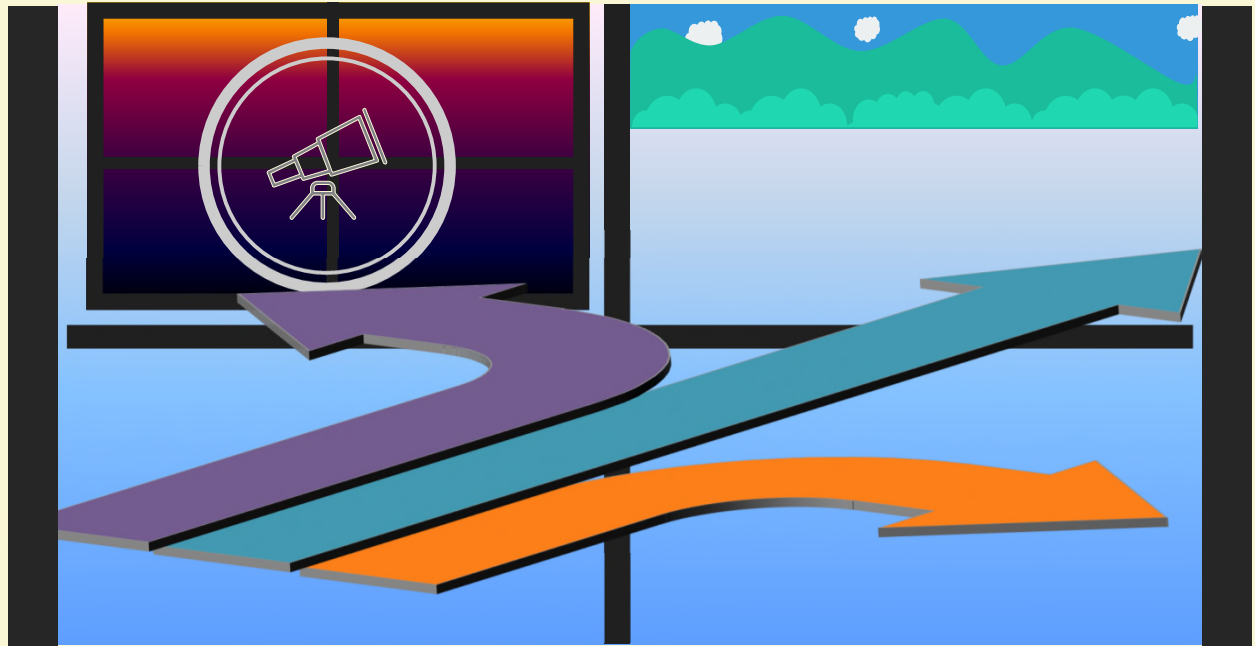
Yellow Research

## Opening: New Directions, Perspectives, Horizons



Yellow Research

## Opening: New Directions, Perspectives, Horizons



Yellow Research

**Sketch What a Breakthrough means to you**

**Why or How different from the groundbreaking dimension**



# The Panels



## Panel structure for ERC calls 2021 and 2022

### Physical Sciences and Engineering

#### PE1 Mathematics

All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics

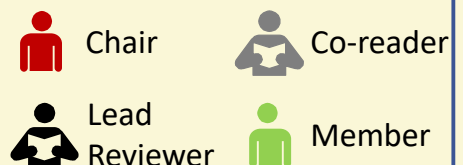
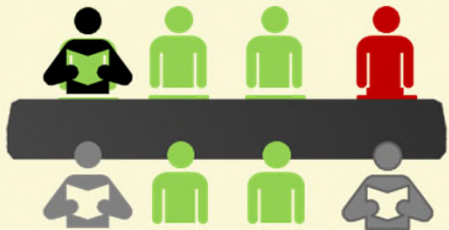
- PE1\_1 Logic and foundations
- PE1\_2 Algebra
- PE1\_3 Number theory
- PE1\_4 Algebraic and complex geometry
- PE1\_5 Lie groups, Lie algebras
- PE1\_6 Geometry and global analysis
- PE1\_7 Topology
- PE1\_8 Analysis
- PE1\_9 Operator algebras and functional analysis
- PE1\_10 ODE and dynamical systems
- PE1\_11 Theoretical aspects of partial differential equations
- PE1\_12 Mathematical physics
- PE1\_13 Probability
- PE1\_14 Statistics
- PE1\_15 Discrete mathematics and combinatorics
- PE1\_16 Mathematical aspects of computer science
- PE1\_17 Numerical analysis
- PE1\_18 Scientific computing and data science
- PE1\_19 Control theory and optimisation
- PE1\_20 Application of mathematics in sciences
- PE1\_21 Application of mathematics in industry and society

The number of key words is indicative for the number of panel members

Each number forms a key word or research area

Each panel member is responsible for 1 or 2 key words

Panel members develop strong scientific intuition about what is excellent and what is exceptional science



# A1 – form: Panels and Keywords

## Step 1: Initial registration: Primary and/or secondary panel

Primary ERC Review Panel*	<input type="text"/>	
Secondary ERC Review Panel	<input type="text"/>	(if applicable)

## Step 2: Initial registration: ERC Keyword 1: Mandatory link to primary panel

ERC Keyword 1*	<input type="text" value="As first keyword please choose one which is linked to the Primary Review Panel."/>
----------------	--------------------------------------------------------------------------------------------------------------

## Step 3: Characterizing the subject of the proposal

Please select, if applicable, the ERC keyword(s) that best characterise the subject of your proposal in order of priority.

ERC Keyword 2	<input type="text" value="Not applicable"/>
ERC Keyword 3	<input type="text" value="Not applicable"/>
ERC Keyword 4	<input type="text" value="Not applicable"/>

## Step 4: Indicating Scope & Selecting Remote Reviewers

Free keywords	<input type="text" value="In addition, please enter free text keywords that you consider best characterise the scope of your research proposal. The choice of keywords should take into account any multi-disciplinary aspects of the proposal."/>
---------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Yellow Research

## Dig deeper on our Online Platform:



### Section: Evaluation Procedure & Criteria:

- Evaluation Procedure in detail
- Select the Right Panel & interdisciplinary research
- ERC Keywords
- Exclusion of Panel Members

# Evaluation Questions



## Research Project - B1a Extended Synopsis

### Scientific Excellence: Ground-breaking nature, Ambition and Feasibility

#### Ground-breaking nature and potential impact of the research project

- |    |                                                                                                                                                                                                                                      |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | To what extent does the proposed research address <b>important challenges</b> ?                                                                                                                                                      |
| 2. | To what extent are the <b>objectives ambitious</b> and beyond <b>State of the Art</b> (e.g. <b>novel concepts &amp; approaches</b> or <b>development across disciplines</b> )?                                                       |
| 3. | To what extent is the proposed research <b>high-risk / high-gain</b> (i.e. if successful the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims) ? |

#### Scientific Approach

- |    |                                                                                                                                                                          |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4. | To what extent is the outlined <b>scientific approach feasible</b> bearing in mind that the proposed research is high-risk / high-gain (based on the Extended Synopsis)? |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



# Research Project – B2 Full Proposal

**Scientific Excellence: Ground-breaking nature, Ambition and Feasibility**

## Ground-breaking nature and potential impact of the research project

1. To what extent does the proposed research address **important challenges**?
2. To what extent are the **objectives ambitious** and beyond **State of the Art** (e.g. **novel concepts & approaches** or **development across disciplines**)?
3. To what extent is the proposed research **high-risk / high-gain** (i.e. if successful the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims) ?

## Scientific Approach

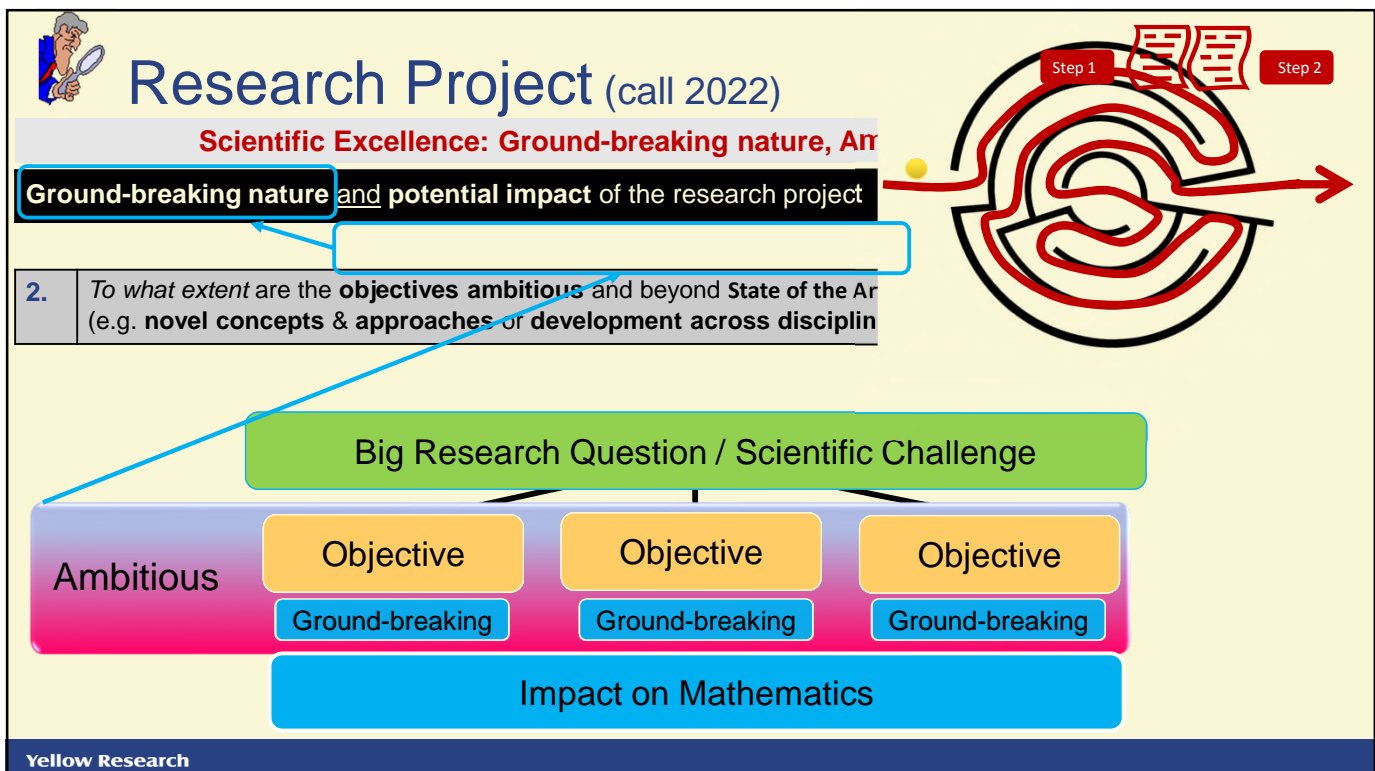
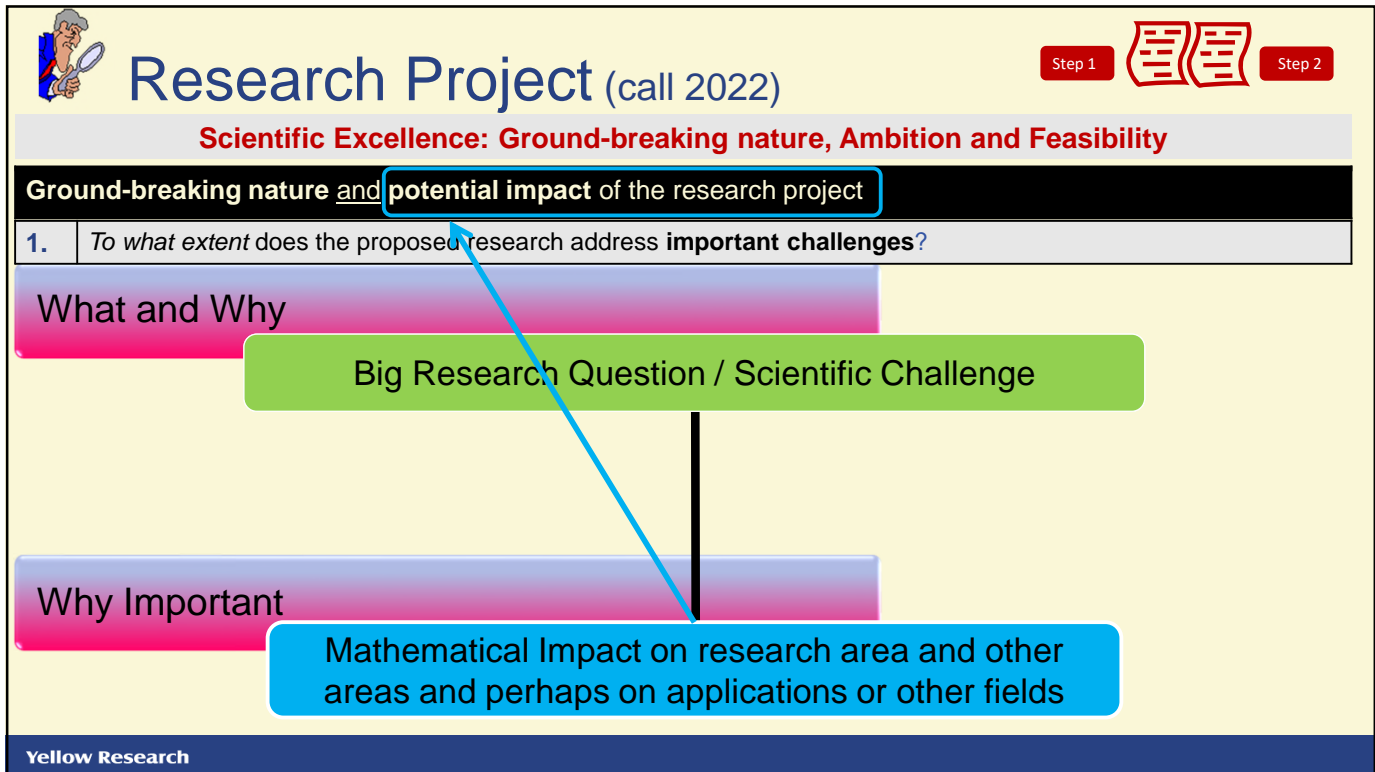
5. To what extent are the proposed **research methodology** and **working arrangements** appropriate to achieve the **goals** of the project (B2)
6. To what extent does the proposal **involve the development of novel methodology**? (B2)
7. To what extent are the proposed **timescales, resources** and **PI commitment adequate** and properly justified? (B2)

Yellow Research

## Dissecting the evaluation criteria layer by layer



Yellow Research





# Research Project (call 2022)

Step 1



Step 2

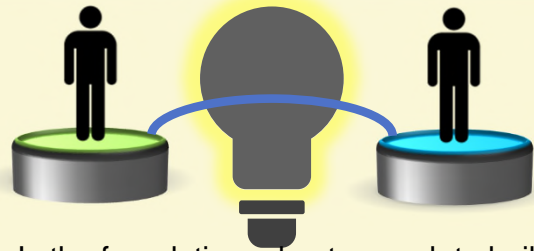
**Scientific Excellence: Ground-breaking nature, Ambition and Feasibility**

**Ground-breaking nature and potential impact of the research project**

3. To what extent is the proposed research **high-risk / high-gain** (i.e. if successful the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims) ?

Big Research Question / Scientific Challenge

Impact on Mathematics



Is the foundation robust enough to build a high-risk / high-gain project upon?

Yellow Research

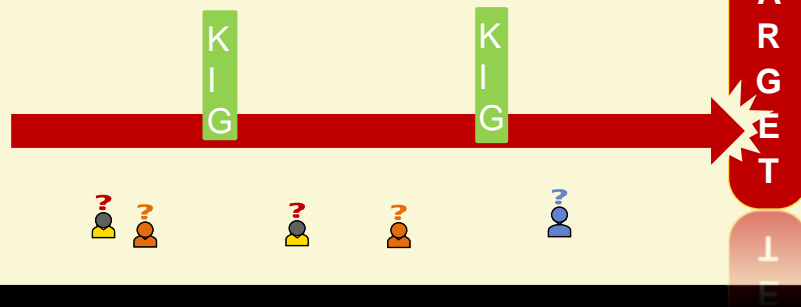
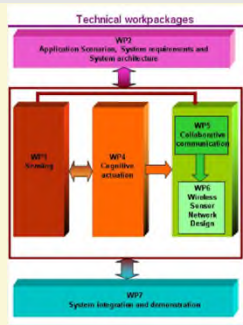


# Research Project (call 2022)



B2

**Scientific Excellence: Ground-breaking nature, Ambition and Feasibility**



**Scientific Approach**

5. To what extent are the proposed **research methodology** and **working arrangements** appropriate to achieve the **goals** of the project (B2)

Yellow Research

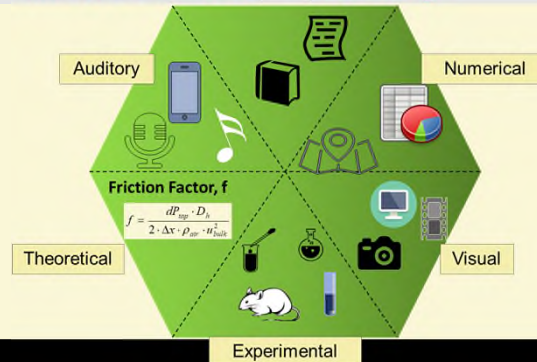
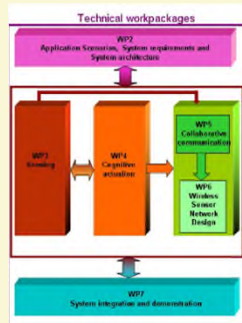


# Research Project (call 2022)



B2

Scientific Excellence: Ground-breaking nature, Ambition and Feasibility



## Scientific Approach

5. To what extent are the proposed **research methodology** and **working arrangements** appropriate to achieve the goals of the project (B2)
6. To what extent does the proposal involve the development of novel methodology? (B2)

Yellow Research

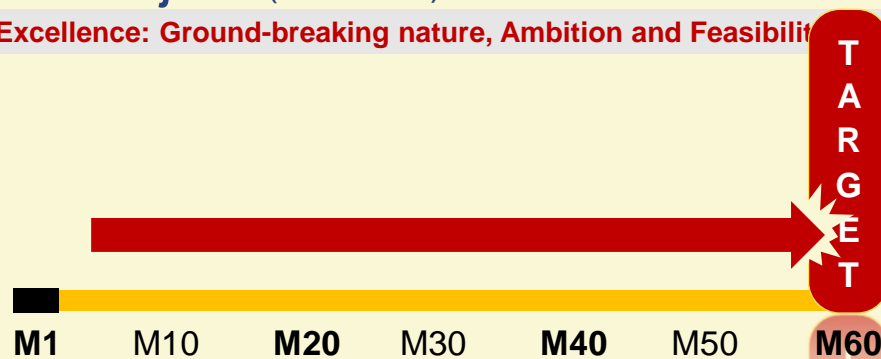


# Research Project (call 2022)



B2

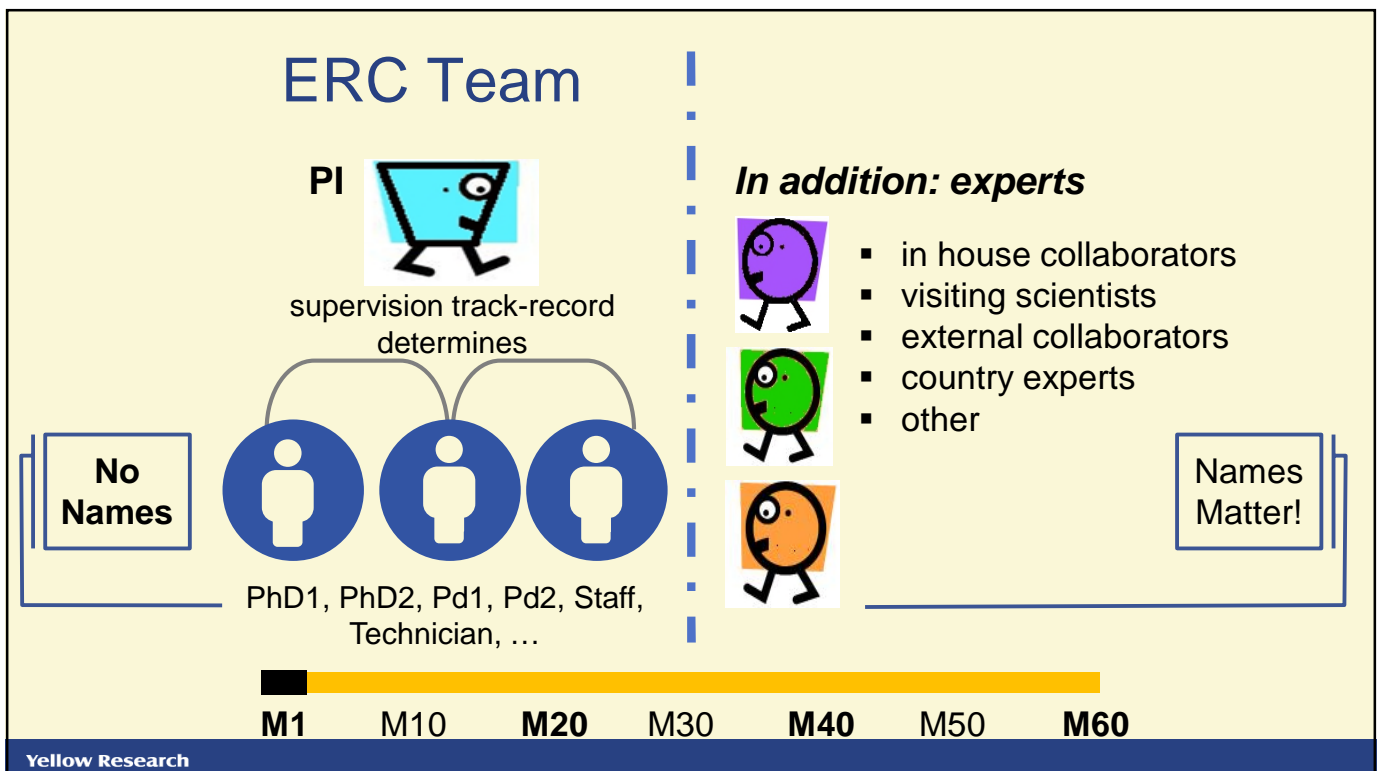
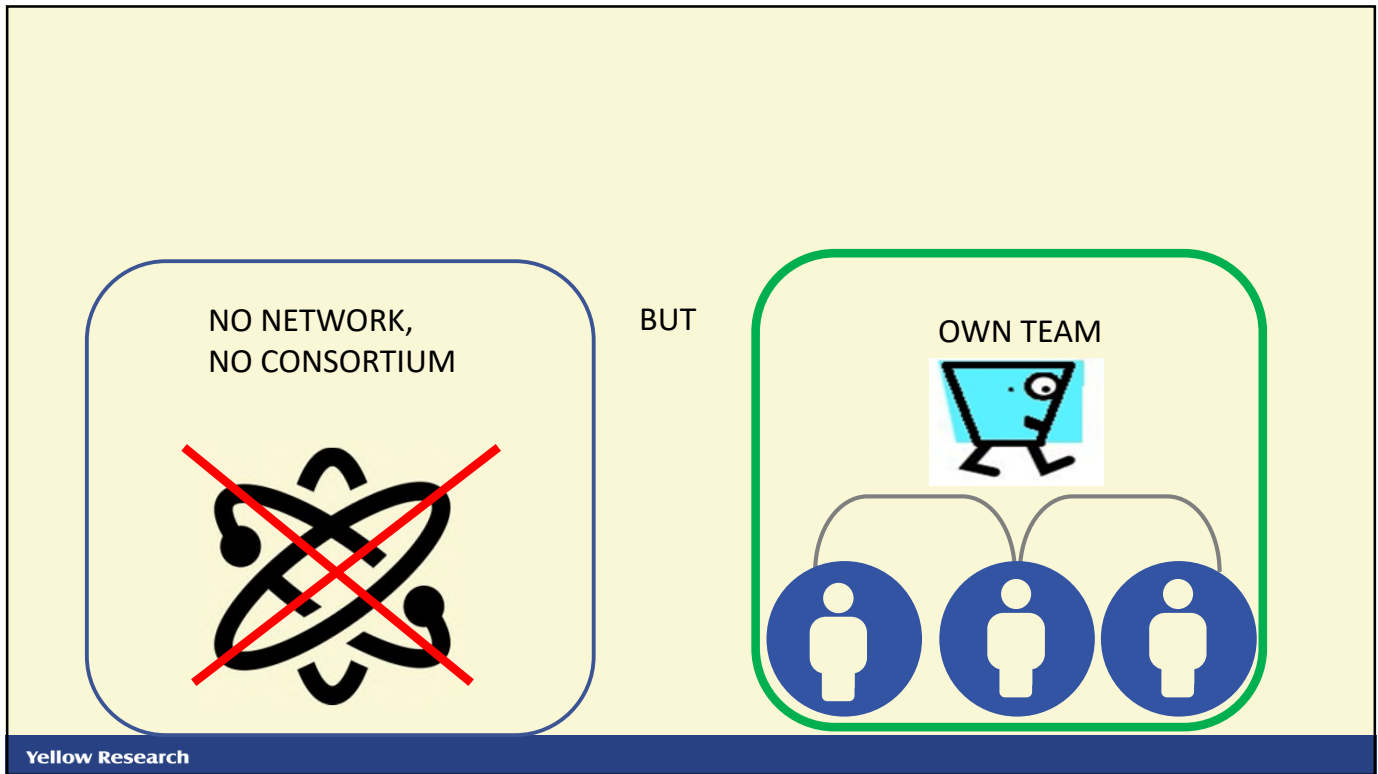
Scientific Excellence: Ground-breaking nature, Ambition and Feasibility




## Scientific Approach

5. To what extent are the proposed **research methodology** and **working arrangements** appropriate to achieve the goals of the project (B2)
6. To what extent does the proposal involve the development of novel methodology? (B2)
7. To what extent are the proposed **timescales**, **resources** and **PI commitment adequate** and properly justified? (B2)

Yellow Research








# Research Project (call 2022)

**Scientific Excellence: Ground-breaking nature, Ambition and Feasibility**


B2

Starters:  
50% minimum

Consolidators:  
40% minimum

Advanced:  
30% minimum

Scientific Approach	
5.	<i>To what extent are the proposed <b>research methodology</b> and <b>working arrangements</b> appropriate to achieve the <b>goals</b> of the project (B2)</i>
6.	<i>To what extent does the proposal <b>involve the development of novel methodology</b>? (B2)</i>
7.	<i>To what extent are the proposed <b>timescales, resources</b> and <b>PI commitment</b> <b>adequate</b> and properly justified? (B2)</i>

Yellow Research



# Research Project (call 2022)

**Scientific Excellence: Ground-breaking nature, Ambition and Feasibility**


B2

The minimum  
is mandatory

Increased  
commitment  
good practise

Don't go to  
100%

Scientific Approach	
5.	<i>To what extent are the proposed <b>research methodology</b> and <b>working arrangements</b> appropriate to achieve the <b>goals</b> of the project (B2)</i>
6.	<i>To what extent does the proposal <b>involve the development of novel methodology</b>? (B2)</i>
7.	<i>To what extent are the proposed <b>timescales, resources</b> and <b>PI commitment</b> <b>adequate</b> and properly justified? (B2)</i>

Yellow Research



## Principal Investigator (2022 call):

**Scientific Excellence: Intellectual capacity and Creativity**

1. All

2 StG  
CoG

3. All

To what extent does the PI have the required **scientific expertise** and **capacity** to successfully **execute** the project?

4.  
AdG

Exceptional (5)

Outstanding (4)

Excellent (3)

Very good (2)

Non-competitive (1)

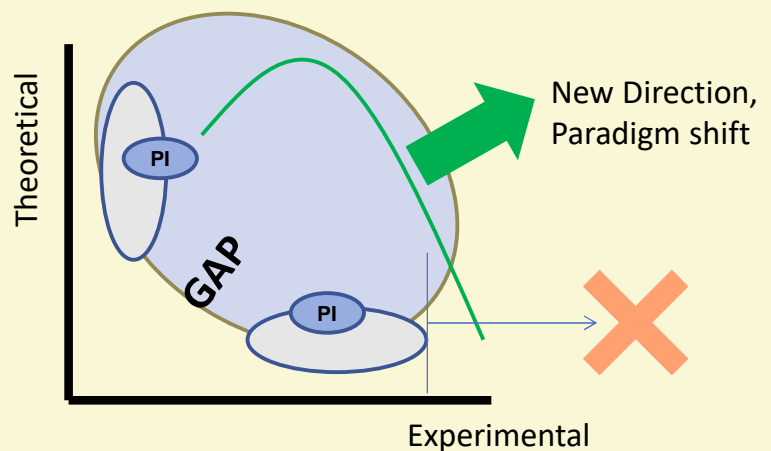
Yellow Research

Source: ERC WP 2020/1

## Carefully Balance

Avoid incremental impression

**Balance feasibility** because of track record / profile and preliminary data **versus high-risk dimension of the proposal**



Yellow Research

## To Reflect Upon

**Research Project** (call 2022)  
Scientific Excellence, Ground-breaking nature, Ambition and Feasibility

**Ground-breaking nature and potential impact of the research project**

1. To what extent does the proposed research address important challenges?
2. To what extent are the objectives ambitious and beyond State of the Art (e.g. novel concepts & approaches or development across disciplines)?
3. To what extent is the proposed research high-risk / high-gain (i.e. if successful the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims)?

**Scientific Approach**

4. To what extent are the proposed research methodology and working arrangements appropriate to achieve the goals of the project (B2)?
5. To what extent does the proposal involve the development of novel methodology? (B2)
6. To what extent are the proposed timescales, resources and PI commitment adequate and properly justified? (B2)

Online Research

How Do the Evaluation Questions structure the Writing of B2?

What is Unique in your Track Record that explains Why You are: “The PI for the Project”

**PI: Intellectual Capacity and Creativity**

**Principal Investigator**

Scientific Excellence: Intellectual capacity

Online Research

1. All
2. All
3. All To what extent does the PI have the required scientific expertise and capacity to successfully execute the project?
4. All

Exceptional (5) Outstanding (4) Excellent (3) Very good (2) Not competitive (1)

Source: ERC WP 2020/1

Why is What you Do Ambitious even for You

## Dig deeper on our Online Platform:



### Section: Evaluation Procedure & Criteria:

- Evaluation Criteria
- Checklist per Evaluation Question

**COFFEE BREAK UNTIL ....**

## Section B2a: State-of-the- Art and Objectives

Applicant's last name Part B2 ACRONYM

**ERC Starting Grant 2022**  
**Part B2<sup>1</sup>**

*(not evaluated in Step 1)*

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards the page limits.

*Text highlighted in grey should be deleted.*  
Please respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.9 cm side and 1.5 cm top and bottom), single line spacing.

**Section a. State-of-the-art and objectives**

**Section b. Methodology**

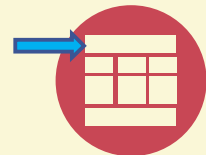
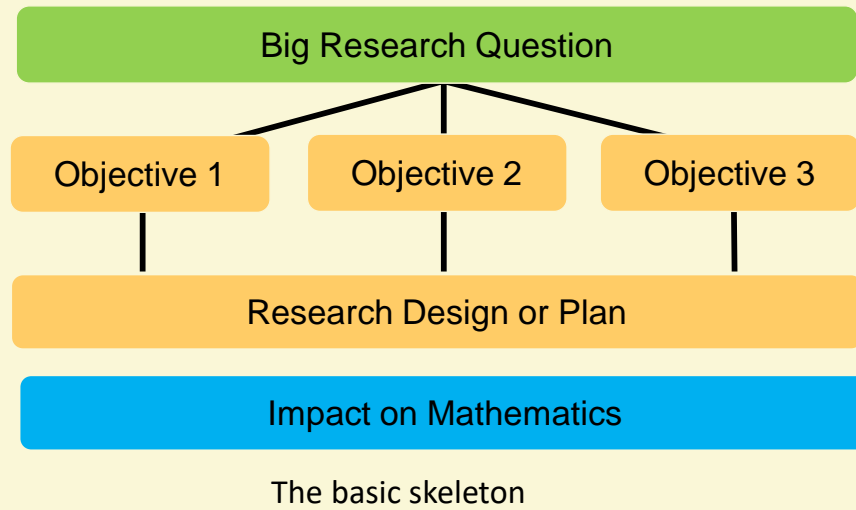
*Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are part of the online submission form (Part A, Section 3 – Budget). This section 3 will be extracted and provided to the peer reviewers.*

*Example, not to complete*

<sup>1</sup> Instructions for completing Part B2 can be found in the 'Information for Applicants to the Starting and Consolidator Grant 2022 Calls'.

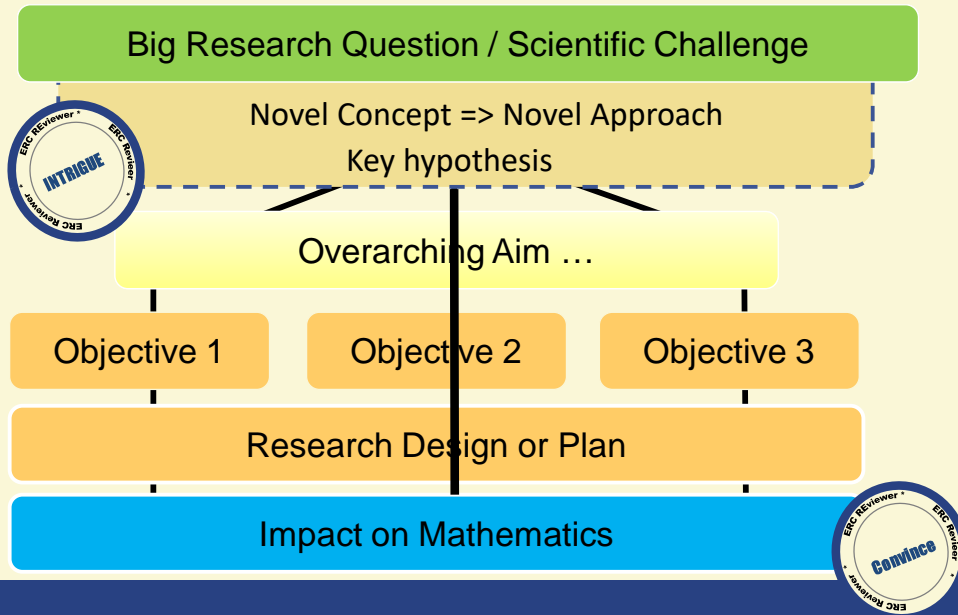
1

## The Logic Tree for Grant Writing



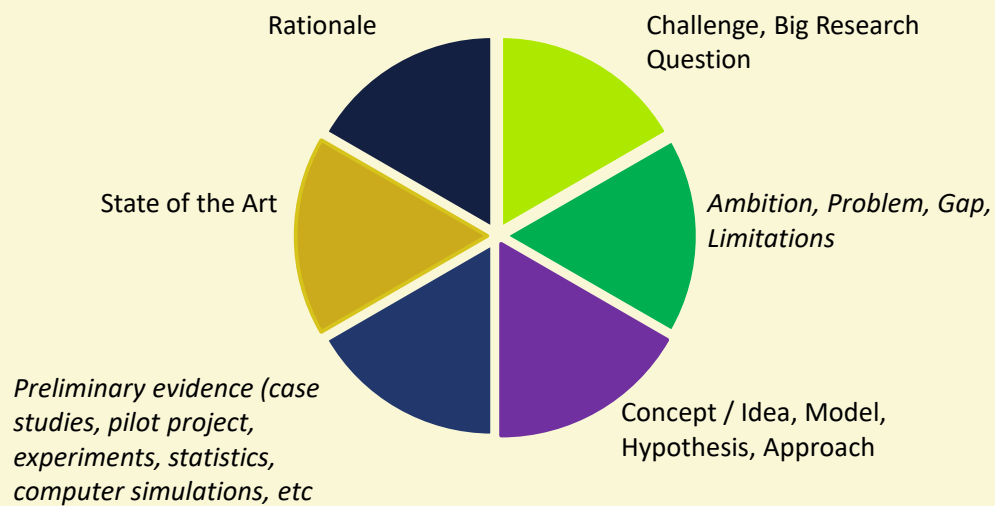
## INTRIGUE

# The Logic Tree for Grant Writing



Yellow Research

## ERC Vocabulary for example



Yellow Research



## Identify important challenges

1. To what extent does the proposed research **address important challenges**?

- Your future research vision?
- What is the challenge/problem?
  - It's dimensions
  - *Why scientifically urgent*
- Why not incremental?
- What is the Big Research Question or Ultimate Goal?
  - What is the novel creative dimension e.g *Concept, Approach*
- Why are you able to potentially address this challenge?

Yellow Research

## Big Research Question

*Chicago Style*

**So What is It that will Open  
New Research Horizons**

### Conceptual

- What Must We Understand

- New Concepts, Descriptions
- New Framework
- New systems, phenomena

### Theoretical

- What Must We Understand

- New Theoretical Framework
- New Theory, Models
- New Empirics/Experiments

### Applied

- What must we Know before we can Do

- ....
- ....
- ....

Yellow Research

## The importance of Concept and Approach

- It points to what we have overlooked, missed, misinterpreted, didn't know, ....
- They form the bridge from current frontier to new horizon
- The concept is implemented through the approach,
  - A **novel** concept is implemented through a **novel** approach!

Yellow Research

## Specify Concept

### ***Theoretical dimension***

- Explains the underlying idea
- What is innovative/unconventional in the "*concept*"?
- What evidence supports the feasibility of the concept?
- Capture the concept in a figure or highlight it clearly in the text

Yellow Research



# Specify Approach

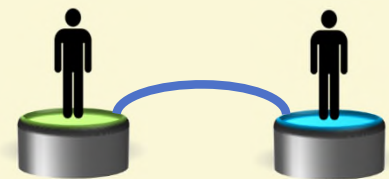
## ***Methodological, Technical dimension***

- It provides the methodological approach to explore the concept underlying the Big Research Question
  - *e.g. empirical versus theoretical, qualitative / descriptive versus quantitative and so on*
- Include preliminary evidence to support feasibility of the novel approach

Yellow Research

# Preliminary evidence

- What is it?
  - Your obtained evidence; just published or unpublished
  - Any kind of form: data, experiments, pilot projects, algorithm, etc
- Why important because:
  - Provides evidence why your ideas are robust enough so that you may succeed (where others have not been successful yet)
- What is it not?
  - When the project becomes incremental
- When is it not enough?
  - In case of controversial issues; accepted publications may be needed



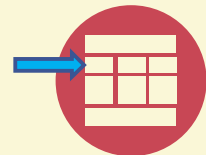
Yellow Research

## To Reflect Upon

### Role of Concept and Approach in a Grant Application

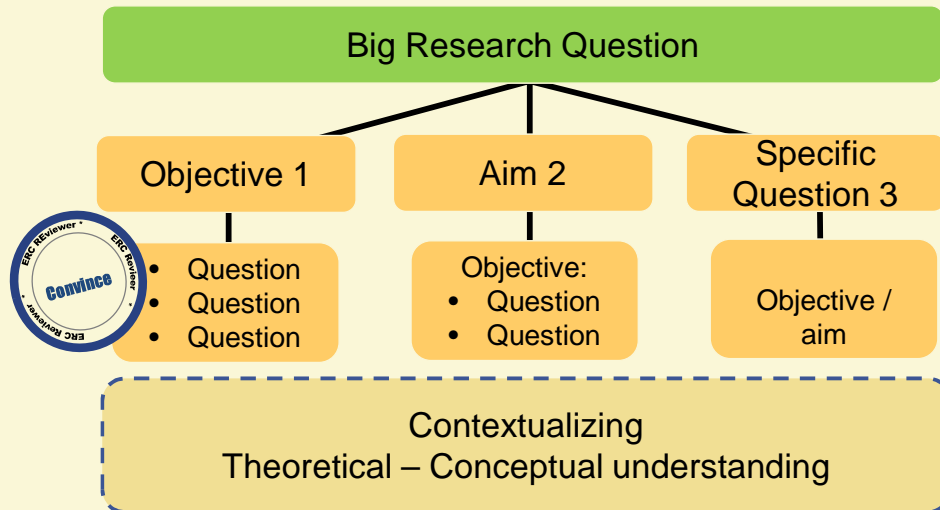
What is there to consider for your Proposal, your Field, your Reviewer in terms of:

- Terminology (concept, approach, hypothesis, model, framework)
- Novelty
- Feasibility



**CONVINCE**

# The Logic Tree for Grant Writing



Yellow Research

## Objectives

**Template B2:** “Specify clearly the objectives of the proposal, in the context of the State of the Art in the field”

- Generating Understanding / Knowledge, not activity based
- Limited in Number, each with a Specific Research Design
- Dynamic, not linear in time
- Each is Groundbreaking

Synthesis message:	1	A	Why are all objectives needed to obtain the Big Picture
Partial Progress:	2	B	Why will partial progress of the objectives still yield important insights for the Big Picture?

Yellow Research

## To Reflect Upon

### Role of Objectives

What is there to consider for your:

- Preferred terminology: objectives, aims, questions, goals
- Level of detail needed to contextualize each objective. Is it a central narrative for all of them or is it better to contextualize per objective
- What are the consequences for the entire design of the project if these are dynamic in their interaction

## Dig deeper on our Online Platform:



### Section: B2 – Full Proposal

- B2 Introduction to Writing B2
- B2a Important Challenge
- B2a Specific Objectives, Aims, Questions
- B2 State of the Art

# Section B2b: Methodology

Applicant's last name Part B2 ACRONYM

**ERC Starting Grant 2022**  
**Part B2<sup>1</sup>**

*(not evaluated in Step 1)*

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards the page limits.

*Text highlighted in grey should be deleted.*  
Please respect the following formatting constraints: Times New Roman, *bold or similar*, at least font size 11, margins (2.0 cm side and 1.5 cm top and bottom), single line spacing.

Section a. State-of-the-art and objectives

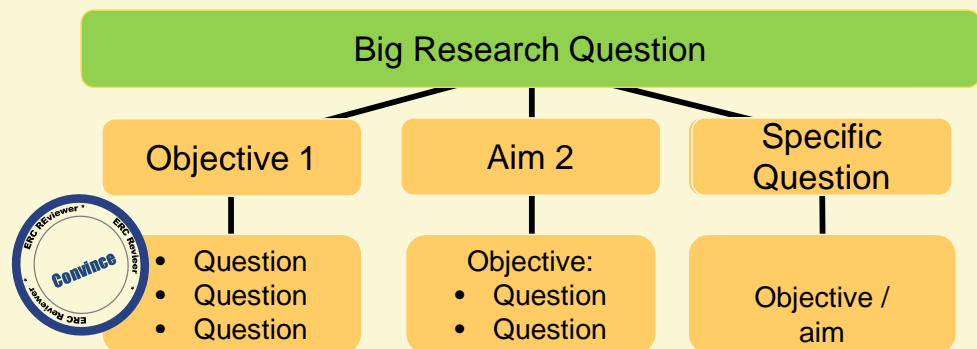
Section b. Methodology

*Do NOT include any description of resources or budget table here (Part B2). The Resources section and the detailed budget table are part of the online submission form (Part A, Section 3 - Budget). This section 3 will be extracted and provided to the peer reviewers.*

<sup>1</sup> Instructions for completing Part B2 can be found in the 'Information for Applicants to the Starting and Consolidator Grant 2022 Calls'.

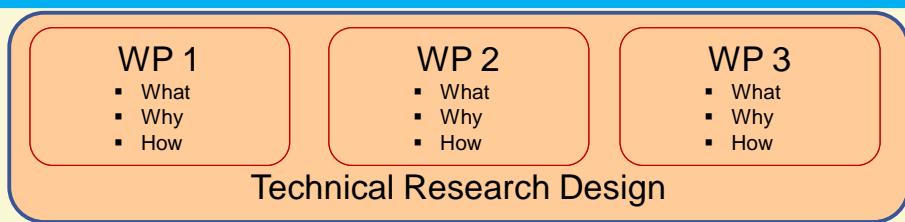
1

## The Logic Tree for Grant Writing

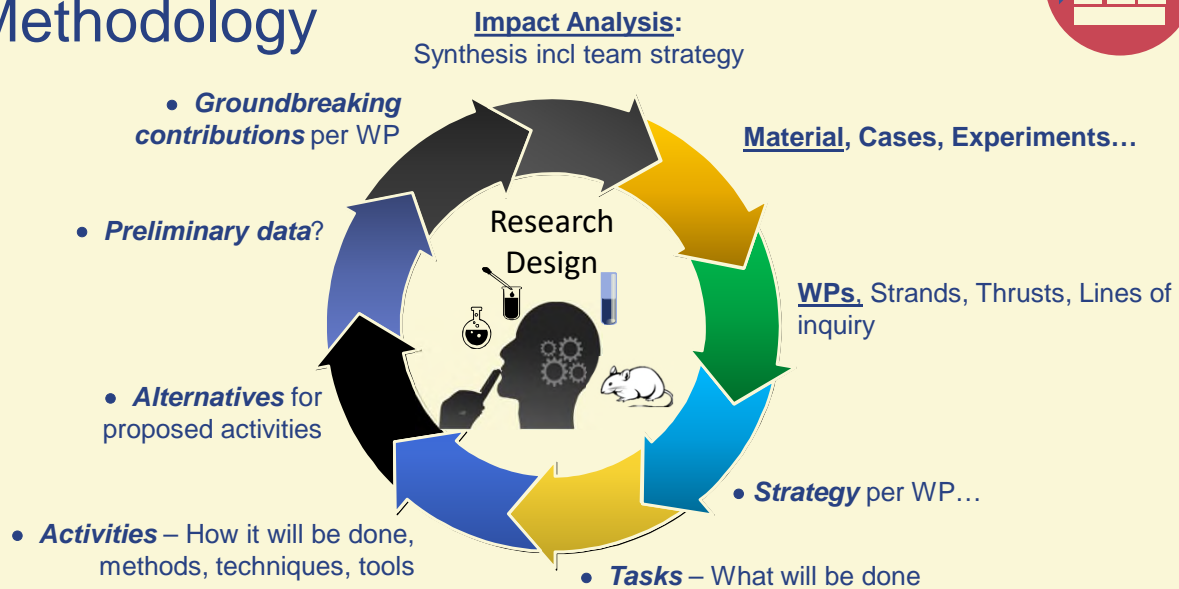
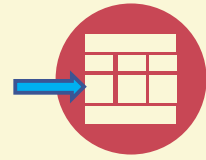


**CONVINCE,**

**It is all about the detail  
7 to 9 pages!**



# Vocabulary – Methodology



Yellow Research

## What is Research Methodology

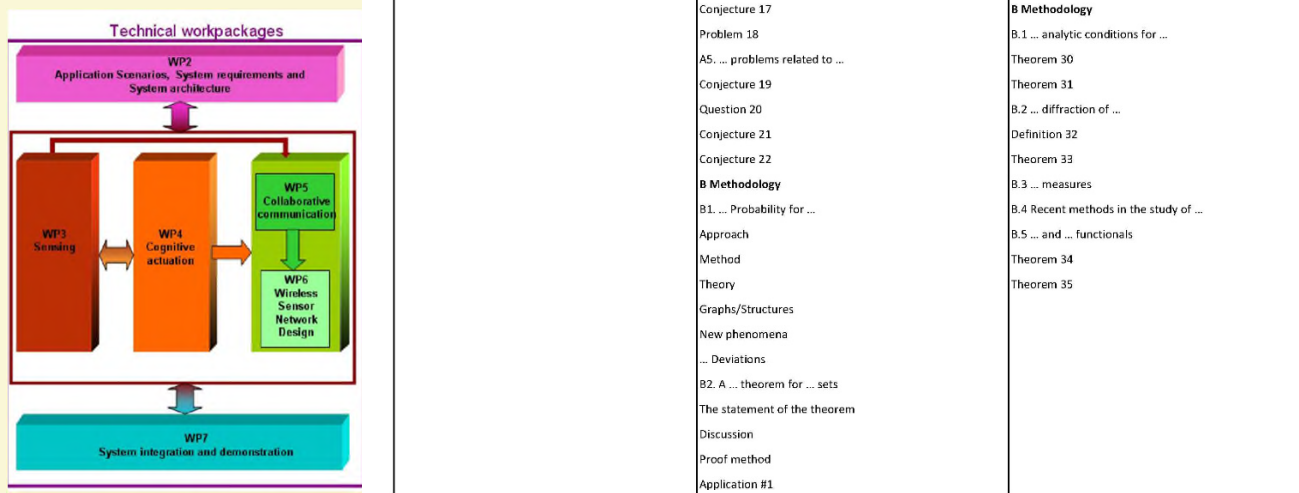
(in the context of writing an ERC grant)

### The plan of action

- ❑ To achieve each objective and ultimate goal
- ❑ *To test the hypothesis(es)*
- ❑ Logical structure of WPs, strands, etc
  - With clearly specified tasks
  - Each task has clear activities which specify:
    - Methods, Techniques, Tools.....
    - *Rationale of proposed methods*
    - *Why these and not others*
    - *Particulars for data collection/ experimental conduct as well as development of novel methods, techniques*
    - *Particulars on the analysis of the data*

Yellow Research

# Dynamic Feedback Loops 1



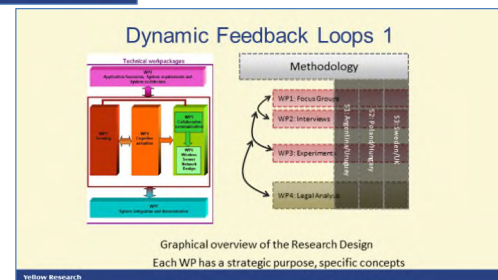
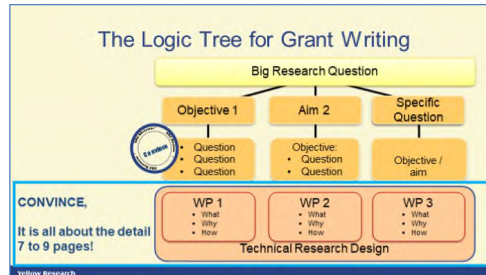
Graphical overview of the Research Design  
Each WP has a strategic purpose, specific concepts

Yellow Research

<p><b>A State-of-the-art and objectives</b></p> <p>A1. The distribution of ... groups in the ... model</p> <p>A1.1 Most probable groups</p> <p>Problem 1</p> <p>Problem 2</p> <p>Problem 3</p> <p>A1.2 Transitive ... groups</p> <p>Problem 4</p> <p>Problem 5</p> <p>Problem 6</p> <p>Problem 7</p> <p>A2. Irreducibility of ...</p> <p>A2.1 Irreducibility of ... in set of ... variables</p> <p>Problem 8</p> <p>Problem 9</p> <p>A2.2 Irreducibility in families parametrized by ...</p> <p>Problem 10</p> <p>Problem 11</p> <p>A3. Theory in ... field</p> <p>A3.1 Monodromy of ...</p> <p>Problem 12</p> <p>A3.2 Randomness of the ... function</p> <p>Problem 13</p> <p>Problem 14</p> <p>A3.3 The ... Problem</p> <p>Problem 15</p> <p><b>B Methodology</b></p> <p>B.1 Nonzero ...</p> <p>Problem 16</p> <p>B.2 Irreducibility of ... of both ... and ...</p> <p>Problem 17</p> <p>B.3 The ... problem</p> <p>Problem 18</p>	<p><b>A State-of-the-art and objectives</b></p> <p>A1. ... (concept) for ... counts</p> <p>... Probabilities</p> <p>... differences ...</p> <p>The 'infamous' ... (particular challenge definition)</p> <p>... Deviations</p> <p>... Approach</p> <p>... probability for ...</p> <p>Problem 1</p> <p>New phenomenon</p> <p>Random ... graphs</p> <p>Problem 2</p> <p>Graphs/Structures</p> <p>Problem 3</p> <p>General expressions of independent ... variables</p> <p>Problem 4</p> <p>Question 5</p> <p>Beyond the ... approximation</p> <p>Problem 6</p> <p>... Deviations</p> <p>Problem 7</p> <p>A2. A ... theorem for ... sets</p> <p>Problem 8</p> <p>Supporting evidence</p> <p>Application #1</p> <p>Conjecture 9</p> <p>Application #2</p> <p>Conjecture 10</p> <p>A3. The ... method for ...</p> <p>(Method description)</p> <p>Problem 11</p> <p>Application</p> <p>Problem 12</p> <p>A4. Thresholds for ... properties</p> <p>x Thresholds</p> <p>Problem 13</p> <p>y Thresholds</p> <p>Problem 14</p> <p>Problem 15</p> <p>Thresholds for ... properties of ...</p> <p>Problem 16</p> <p>... theorems in ...</p>	<p><b>A State-of-the-art and objectives</b></p> <p>A.1 Introduction</p> <p>A.2 ... bases and ... conjecture</p> <p>Definition 1</p> <p>Definition 2</p> <p>Theorem 3</p> <p>A.2.1 ... sets in ...</p> <p>Problem 4</p> <p>Problem 5</p> <p>A.2.2 ... sets in ...</p> <p>Theorem 6</p> <p>Problem 7</p> <p>Problem 8</p> <p>Problem 9</p> <p>A.2.3 Uniqueness and characterization of ... for ...</p> <p>Theorem 10</p> <p>Theorem 11</p> <p>Problem 12</p> <p>Problem 13</p> <p>A.3 ... bases of ...</p> <p>Definition 14</p> <p>Problem 15</p> <p>Problem 16</p> <p>Problem 17</p> <p>A.4 Multi ... by ...</p> <p>Definition 18</p> <p>Theorem 19</p> <p>Problem 20</p> <p>Problem 21</p> <p>A.5 ... by ... of a function</p> <p>Definition 22</p> <p>A.5.1 Uniform distribution of ...</p> <p>Theorem 23</p> <p>Problem 24</p> <p>Theorem 25</p> <p>A.5.2 Periodic and non-periodic ...</p> <p>Theorem 26</p> <p>Theorem 27</p> <p>Problem 28</p> <p>A.5.3 Lattice ...</p> <p>Problem 29</p> <p>A.5.4 ... of ... density</p>	<p>Conjecture 17</p> <p>Problem 18</p> <p>A5. ... problems related to ...</p> <p>Conjecture 19</p> <p>Question 20</p> <p>Conjecture 21</p> <p>Conjecture 22</p> <p><b>B Methodology</b></p> <p>B1. ... Probability for ...</p> <p>Approach</p> <p>Method</p> <p>Theory</p> <p>Graphs/Structures</p> <p>New phenomena</p> <p>... Deviations</p> <p>B2. A ... theorem for ... sets</p> <p>The statement of the theorem</p> <p>Discussion</p> <p>Proof method</p> <p>Application #1</p>	<p><b>B Methodology</b></p> <p>B.1 ... analytic conditions for ...</p> <p>Theorem 30</p> <p>Theorem 31</p> <p>B.2 ... diffraction of ...</p> <p>Definition 32</p> <p>Theorem 33</p> <p>B.3 ... measures</p> <p>B.4 Recent methods in the study of ...</p> <p>B.5 ... and ... functionals</p> <p>Theorem 34</p> <p>Theorem 35</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

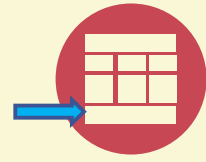
## To Reflect Upon

What are Key feasibility issues when setting up the Research Design



## Section B2: Wrap Up





# INSPIRE



## Wrapping Up – taking account of the evaluation questions

### Ground-breaking nature and potential impact of the research project

1. To what extent does the proposed research address **important challenges**?
2. To what extent are the **objectives ambitious** and beyond **S-o-t-A** (e.g. **novel concepts & approaches** or **development across disciplines**)?
3. To what extent is the proposed research **high-risk / high-gain** (i.e. if successful the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims) ?

### Scientific Approach

4. To what extent is the outlined **scientific approach feasible** bearing in mind that the proposed research is high-risk / high-gain (based on the Extended Synopsis)?
5. To what extent are the proposed **research methodology** and **working arrangements** appropriate to achieve the **goals** of the project (B2)
6. To what extent does the proposal **involve the development of novel methodology**? (B2)
7. To what extent are the proposed **timescales**, **resources** and **PI commitment** **adequate** and properly justified? (B2)

## Dig deeper on our Online Platform:



### Section: B2 – Full Proposal

- B2b Methodology
- B2b Impact Analysis
- B2c Resources

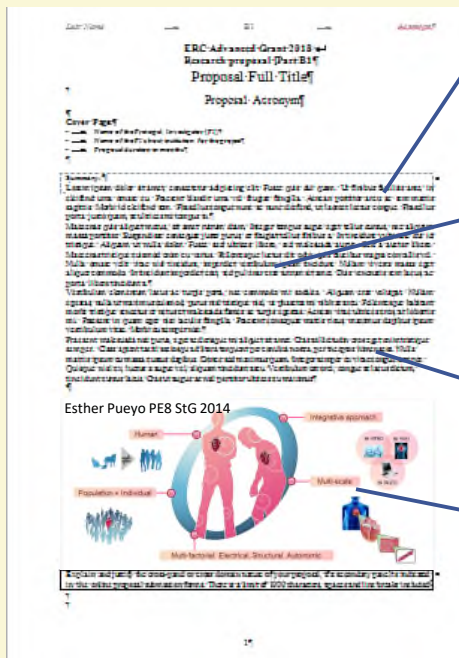
## Section B1 Cover Page

Applicant's last name ..... Part B1 ..... ACS2000/01/01

ERC-Advanced-Grant2018-4-1  
Research proposal (Part B1) 4-1  
(Part B1 is evaluated both in Day 1 and Day 2) 4-1  
(Part B1 is evaluated in Day 2 only) 4-1  
Proposal Full Title 4-1  
Proposal Acronym 4-1

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000  
1001  
1002  
1003  
1004  
1005  
1006  
1007  
1008  
1009  
1010  
1011  
1012  
1013  
1014  
1015  
1016  
1017  
1018  
1019  
1020  
1021  
1022  
1023  
1024  
1025  
1026  
1027  
1028  
1029  
1030  
1031  
1032  
1033  
1034  
1035  
1036  
1037  
1038  
1039  
1040  
1041  
1042  
1043  
1044  
1045  
1046  
1047  
1048  
1049  
1050  
1051  
1052  
1053  
1054  
1055  
1056  
1057  
1058  
1059  
1060  
1061  
1062  
1063  
1064  
1065  
1066  
1067  
1068  
1069  
1070  
1071  
1072  
1073  
1074  
1075  
1076  
1077  
1078  
1079  
1080  
1081  
1082  
1083  
1084  
1085  
1086  
1087  
1088  
1089  
1090  
1091  
1092  
1093  
1094  
1095  
1096  
1097  
1098  
1099  
1100  
1101  
1102  
1103  
1104  
1105  
1106  
1107  
1108  
1109  
1110  
1111  
1112  
1113  
1114  
1115  
1116  
1117  
1118  
1119  
1120  
1121  
1122  
1123  
1124  
1125  
1126  
1127  
1128  
1129  
1130  
1131  
1132  
1133  
1134  
1135  
1136  
1137  
1138  
1139  
1140  
1141  
1142  
1143  
1144  
1145  
1146  
1147  
1148  
1149  
1150  
1151  
1152  
1153  
1154  
1155  
1156  
1157  
1158  
1159  
1160  
1161  
1162  
1163  
1164  
1165  
1166  
1167  
1168  
1169  
1170  
1171  
1172  
1173  
1174  
1175  
1176  
1177  
1178  
1179  
1180  
1181  
1182  
1183  
1184  
1185  
1186  
1187  
1188  
1189  
1190  
1191  
1192  
1193  
1194  
1195  
1196  
1197  
1198  
1199  
1200  
1201  
1202  
1203  
1204  
1205  
1206  
1207  
1208  
1209  
1210  
1211  
1212  
1213  
1214  
1215  
1216  
1217  
1218  
1219  
1220  
1221  
1222  
1223  
1224  
1225  
1226  
1227  
1228  
1229  
1230  
1231  
1232  
1233  
1234  
1235  
1236  
1237  
1238  
1239  
1240  
1241  
1242  
1243  
1244  
1245  
1246  
1247  
1248  
1249  
1250  
1251  
1252  
1253  
1254  
1255  
1256  
1257  
1258  
1259  
1260  
1261  
1262  
1263  
1264  
1265  
1266  
1267  
1268  
1269  
1270  
1271  
1272  
1273  
1274  
1275  
1276  
1277  
1278  
1279  
1280  
1281  
1282  
1283  
1284  
1285  
1286  
1287  
1288  
1289  
1290  
1291  
1292  
1293  
1294  
1295  
1296  
1297  
1298  
1299  
1300  
1301  
1302  
1303  
1304  
1305  
1306  
1307  
1308  
1309  
1310  
1311  
1312  
1313  
1314  
1315  
1316  
1317  
1318  
1319  
1320  
1321  
1322  
1323  
1324  
1325  
1326  
1327  
1328  
1329  
1330  
1331  
1332  
1333  
1334  
1335  
1336  
1337  
1338  
1339  
1340  
1341  
1342  
1343  
1344  
1345  
1346  
1347  
1348  
1349  
1350  
1351  
1352  
1353  
1354  
1355  
1356  
1357  
1358  
1359  
1360  
1361  
1362  
1363  
1364  
1365  
1366  
1367  
1368  
1369  
1370  
1371  
1372  
1373  
1374  
1375  
1376  
1377  
1378  
1379  
1380  
1381  
1382  
1383  
1384  
1385  
1386  
1387  
1388  
1389  
1390  
1391  
1392  
1393  
1394  
1395  
1396  
1397  
1398  
1399  
1400  
1401  
1402  
1403  
1404  
1405  
1406  
1407  
1408  
1409  
1410  
1411  
1412  
1413  
1414  
1415  
1416  
1417  
1418  
1419  
1420  
1421  
1422  
1423  
1424  
1425  
1426  
1427  
1428  
1429  
1430  
1431  
1432  
1433  
1434  
1435  
1436  
1437  
1438  
1439  
1440  
1441  
1442  
1443  
1444  
1445  
1446  
1447  
1448  
1449  
1450  
1451  
1452  
1453  
1454  
1455  
1456  
1457  
1458  
1459  
1460  
1461  
1462  
1463  
1464  
1465  
1466  
1467  
1468  
1469  
1470  
1471  
1472  
1473  
1474  
1475  
1476  
1477  
1478  
1479  
1480  
1481  
1482  
1483  
1484  
1485  
1486  
1487  
1488  
1489  
1490  
1491  
1492  
1493  
1494  
1495  
1496  
1497  
1498  
1499  
1500  
1501  
1502  
1503  
1504  
1505  
1506  
1507  
1508  
1509  
1510  
1511  
1512  
1513  
1514  
1515  
1516  
1517  
1518  
1519  
1520  
1521  
1522  
1523  
1524  
1525  
1526  
1527  
1528  
1529  
1530  
1531  
1532  
1533  
1534  
1535  
1536  
1537  
1538  
1539  
1540  
1541  
1542  
1543  
1544  
1545  
1546  
1547  
1548  
1549  
1550  
1551  
1552  
1553  
1554  
1555  
1556  
1557  
1558  
1559  
1560  
1561  
1562  
1563  
1564  
1565  
1566  
1567  
1568  
1569  
1570  
1571  
1572  
1573  
1574  
1575  
1576  
1577  
1578  
1579  
1580  
1581  
1582  
1583  
1584  
1585  
1586  
1587  
1588  
1589  
1590  
1591  
1592  
1593  
1594  
1595  
1596  
1597  
1598  
1599  
1600  
1601  
1602  
1603  
1604  
1605  
1606  
1607  
1608  
1609  
1610  
1611  
1612  
1613  
1614  
1615  
1616  
1617  
1618  
1619  
1620  
1621  
1622  
1623  
1624  
1625  
1626  
1627  
1628  
1629  
1630  
1631  
1632  
1633  
1634  
1635  
1636  
1637  
1638  
1639  
1640  
1641  
1642  
1643  
1644  
1645  
1646  
1647  
1648  
1649  
1650  
1651  
1652  
1653  
1654  
1655  
1656  
1657  
1658  
1659  
1660  
1661  
1662  
1663  
1664  
1665  
1666  
1667  
1668  
1669  
1670  
1671  
1672  
1673  
1674  
1675  
1676  
1677  
1678  
1679  
1680  
1681  
1682  
1683  
1684  
1685  
1686  
1687  
1688  
1689  
1690  
1691  
1692  
1693  
1694  
1695  
1696  
1697  
1698  
1699  
1700  
1701  
1702  
1703  
1704  
1705  
1706  
1707  
1708  
1709  
1710  
1711  
1712  
1713  
1714  
1715  
1716  
1717  
1718  
1719  
1720  
1721  
1722  
1723  
1724  
1725  
1726  
1727  
1728  
1729  
1730  
1731  
1732  
1733  
1734  
1735  
1736  
1737  
1738  
1739  
1740  
1741  
1742  
1743  
1744  
1745  
1746  
1747  
1748  
1749  
1750  
1751  
1752  
1753  
1754  
1755  
1756  
1757  
1758  
1759  
1760  
1761  
1762  
1763  
1764  
1765  
1766  
1767  
1768  
1769  
1770  
1771  
1772  
1773  
1774  
1775  
1776  
1777  
1778  
1779  
1780  
1781  
1782  
1783  
1784  
1785  
1786  
1787  
1788  
1789  
1790  
1791  
1792  
1793  
1794  
1795  
1796  
1797  
1798  
1799  
1800  
1801  
1802  
1803  
1804  
1805  
1806  
1807  
1808  
1809  
1810  
1811  
1812  
1813  
1814  
1815  
1816  
1817  
1818  
1819  
1820  
1821  
1822  
1823  
1824  
1825  
1826  
1827  
1828  
1829  
1830  
1831  
1832  
1833  
1834  
1835  
1836  
1837  
1838  
1839  
1840  
1841  
1842  
1843  
1844  
1845  
1846  
1847  
1848  
1849  
1850  
1851  
1852  
1853  
1854  
1855  
1856  
1857  
1858  
1859  
1860  
1861  
1862  
1863  
1864  
1865  
1866  
1867  
1868  
1869  
1870  
1871  
1872  
1873  
1874  
1875  
1876  
1877  
1878  
1879  
1880  
1881  
1882  
1883  
1884  
1885  
1886  
1887  
1888  
1889  
1890  
1891  
1892  
1893  
1894  
1895  
1896  
1897  
1898  
1899  
1900  
1901  
1902  
1903  
1904  
1905  
1906  
1907  
1908  
1909  
1910  
1911  
1912  
1913  
1914  
1915  
1916  
1917  
1918  
1919  
1920  
1921  
1922  
1923  
1924  
1925  
1926  
1927  
1928  
1929  
1930  
1931  
1932  
1933  
1934  
1935  
1936  
1937  
1938  
1939  
1940  
1941  
1942  
1943  
1944  
1945  
1946  
1947  
1948  
1949  
1950  
1951  
1952  
1953  
1954  
1955  
1956  
1957  
1958  
1959  
1960  
1961  
1962  
1963  
1964  
1965  
1966  
1967  
1968  
1969  
1970  
1971  
1972  
1973  
1974  
1975  
1976  
1977  
1978  
1979  
1980  
1981  
1982  
1983  
1984  
1985  
1986  
1987  
1988  
1989  
1990  
1991  
1992  
1993  
1994  
1995  
1996  
1997  
1998  
1999  
2000  
2001  
2002  
2003  
2004  
2005  
2006  
2007  
2008  
2009  
2010  
2011  
2012  
2013  
2014  
2015  
2016  
2017  
2018  
2019  
2020  
2021  
2022  
2023  
2024  
2025  
2026  
2027  
2028  
2029  
2030  
2031  
2032  
2033  
2034  
2035  
2036  
2037  
2038  
2039  
2040  
2041  
2042  
2043  
2044  
2045  
2046  
2047  
2048  
2049  
2050  
2051  
2052  
2053  
2054  
2055  
2056  
2057  
2058  
2059  
2060  
2061  
2062  
2063  
2064  
2065  
2066  
2067  
2068  
2069  
2070  
2071  
2072  
2073  
2074  
2075  
2076  
2077  
2078  
2079  
2080  
2081  
2082  
2083  
2084  
2085  
2086  
2087  
2088  
2089  
2090  
2091  
2092  
2093  
2094  
2095  
2096  
2097  
2098  
2099  
2100  
2101  
2102  
2103  
2104  
2105  
2106  
2107  
2108  
2109  
2110  
2111  
2112  
2113  
2114  
2115  
2116  
2117  
2118  
2119  
2120  
2121  
2122  
2123  
2124  
2125  
2126  
2127  
2128  
2129  
2130  
2131  
2132  
2133  
2134  
2135  
2136  
2137  
2138  
2139  
2140  
2141  
2142  
2143  
2144  
2145  
2146  
2147  
2148  
2149  
2150  
2151  
2152  
2153  
2154  
2155  
2156  
2157  
2158  
2159  
2160  
2161  
2162  
2163  
2164  
21

## Writing the Abstract



**Opening:**  
Challenge or Big Question and Novel  
Preliminary Evidence or Concept

**Heart:**  
Explain the structure e.g. Objectives or  
Work Packages and their novelty

**Conclude:**  
Breakthrough Potential

**Graphical Summary**  
1) the heart of the proposal or  
2) preliminary evidence or 3) key concept



## B1 Cover Page – Enhanced Effectiveness

1

Title

Reflect Challenge

A

2

Acronym

Descriptive – short title

B

3

Duration

You need 60 months

C

4

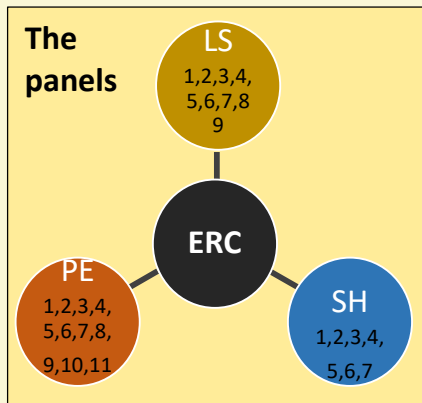
Summary

Intrigue, Convince, Inspire

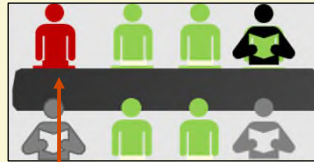
D

Search “ERC Funded Projects” for Abstracts

## A1 – Abstract Panel Chair and External Reviewer



Panel chair is :  
Keywords 1-4



External Reviewer:  
Free Keywords



- Intrigue
- Convince
- Inspire

Yellow Research

## Section B1a: Extended Synopsis

Applicant's last name Part B1 ACRONYM

**ERC Starting Grant 2022**  
**Research proposal [Part B1]<sup>1</sup>**  
*(Part B1 is evaluated both in Step 1 and Step 2,  
Part B2 is evaluated in Step 2 only)*

Proposal Full Title

PROPOSAL ACRONYM

**Cover Page**

- Name of the Principal Investigator (PI)
- Name of the PI's host institution for the project
- Proposal duration in months

Text highlighted in grey should be deleted.

Proposals summary (identical to the abstract from the online proposal submission forms, section 1).

The abstract (summary) should, at a glance, provide the reader with a clear understanding of the objectives of the research proposal and how they will be achieved. The abstract will be used as the short description of your research proposal in the evaluation process and in communications in contact in particular the potential remote referees and/or inform the Commission and/or the programme management committees and/or relevant national funding agencies (provided you have permission to do so where requested in the online proposal submission forms, section 1). It must therefore be short and precise and should not contain confidential information.

Please use short-voiced text, avoiding formulae and other special characters. The abstract must be written in English. There is a limit of 2000 characters (spaces and line breaks included).

Applicant's last name Part B2 ACRONYM

**ERC Starting Grant 2022**  
**Part B2<sup>1</sup>**  
*(not evaluated in Step 1)*

Sections (a) and (b) of Part B2 should not exceed 14 pages. References do not count towards limits.

Text highlighted in grey should be deleted.

Please respect the following formatting constraints: Times New Roman, Arial or similar, at 11, margins (2.9 cm side and 1.5 cm top and bottom), single line spacing.

**Section a. State-of-the-art and objectives**

**Section b. Methodology**

Do NOT include any description of resources or budget table here (Part B2). The Resources and the detailed budget table are part of the online submission form (Part A, Section 3 – Budget). It will be extracted and provided to the peer reviewers.

Applicant's last name Part B1 ACRONYM

**Section a: Extended Synopsis of the scientific proposal (max. 5 pages; references do not count towards the page limits).**

[The Extended Synopsis should give a concise presentation of the scientific proposal, with particular attention to the ground-breaking nature of the research project, which will allow evaluation panels to assess, in Step 1 of the evaluation, the feasibility of the outlined scientific approach. Describe the proposed work in the context of the state of the art of the field. References to literature should also be included. Please use a reference style that is commonly used in your discipline such as American Chemical Society (ACS) style, American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. and that allows the evaluators to easily retrieve each reference].

<sup>1</sup> Instructions for completing Part B2 can be found in the 'Information for Applicants to the Starting and Consolidator Grant 2022 Calls'.

Structure of B1/B2 - PE1 candidates		
Candidate A	Candidate B	Candidate C
	<b>B1a</b>	
A1. The distribution of ... groups in the ... model	A1. ... (concept) for ... counts	A.1 Introduction
Most probable groups	... Probabilities	A.2 ... bases and ... conjecture
Problem 1	The 'infamous' ... (particular challenge definition)	A.3 ... bases of ...
Problem 2	... Deviations	A.4 Multi ... by ...
Problem 3	... Approach	A.5 ... by ... of a function
Transitive ... groups	Problem 1	
Problem 4	Problem 2	
Problem 5	Graphs/Structures	
Problem 6	Problem 3	
Problem 7	A2. A ... theorem for ... sets	
A2. Irreducibility of ...	... sets	
Irreducibility of ... in set of ... variables	Problem 4	
Problem 8	Supporting evidence	
Problem 9	Application #1	
Irreducibility in families parametrized by ...	Problem 5	
Problem 10	Application #2	
Problem 11	Problem 6	
A3. Theory in ... field	A3. The ... method for ...	
Monodromy of ...	... (Method description)	
Problem 12	Problem 7	
Randomness of ... function	Applications	
Problem 13	Problem 8	
The ... Problem	A4. Thresholds for ... properties	
Problem 14	Problem 9	
	Problem 10	
	Conjecture 11	
	<b>B2</b>	

## Create a Storyboard for B1 and B2

B1 Extended synopsis		B2 Full Scientific Proposal	
P1 – P2	<ul style="list-style-type: none"> <li>Challenge,</li> <li>Novel Concept and Approach,</li> <li>Hypothesis,</li> <li>Objectives,</li> <li>Preliminary data</li> </ul>	P1 – P4/6	<ul style="list-style-type: none"> <li>Challenge,</li> <li>Novel Concept and Approach,</li> <li>Hypothesis,</li> <li>Objectives,</li> <li>Preliminary data</li> </ul>
P3 – P5	<ul style="list-style-type: none"> <li>Research Design: WPs, including</li> <li>Tasks</li> <li>Activities</li> </ul>	P5/7 – 13	<ul style="list-style-type: none"> <li>Research Design</li> <li>Tasks</li> <li>Activities</li> </ul>
P5	Impact Analysis: 7 lines <ul style="list-style-type: none"> <li>Breakthrough</li> <li>Key Intermediate goals</li> <li>Critical path analysis</li> <li>Team Strategy</li> </ul>	P14	Impact Analysis: <ul style="list-style-type: none"> <li>Breakthrough</li> <li>Key Intermediate goals</li> <li>Critical path analysis</li> <li>Team Strategy</li> </ul>
No	<ul style="list-style-type: none"> <li>Resources: only Online not added to B1</li> </ul>		<ul style="list-style-type: none"> <li>Resources: Online forms are added to 14 page B2</li> </ul>

Yellow Research

# Section B1B,C: CV and Track- Record



### Scientific Excellence: Intellectual capacity and Creativity

**Yellow Research**

Source: ERC WP 2020/1

**ERC Starting Grant 2022**

**Research proposal [Part B1]<sup>1</sup>**

**(Part B1 is evaluated both in Step 1 and Step 2,  
Part B2 is evaluated in Step 2 only)**

**Proposal Full Title**

**PROPOSAL ACRONYM**

**Cover Page:**

- Name of the Principal Investigator (PI)
- Address of the PI's host institution for the project
- Proposal duration in months

**Text highlighted in grey should be deleted.**

**Purpose statement** (identical to the abstract from the online proposal submission forms, section 1).

The abstract (summary) should, at a glance, provide the reader with a clear understanding of the research proposal and how they will be achieved. The abstract will be used as the summary research proposal in the evaluation process and in communications to contact in particular referees and inform the Commission and/or the programme management committee. Relevant funding agencies (awarded up to 10%) have permission to do so where copies of the proposal submission forms, section 1). It must therefore be short and precise and also confidential information.

Please use plain typewritten text, avoiding formulae and other special characters. The abstract must be in English. There is a limit of 2000 characters (spaces and line breaks included).

**Section 3: Extended Synopsis of the scientific proposal (max. 5 pages; references do not count towards the page limit).**

[The Extended Synopsis should give a concise presentation of the scientific proposal, attention to the ground-breaking nature of the research project, which will allow evaluation in Step 1 of the evaluation, the feasibility of the outlined scientific approach. Describe the state of the art of the field. References in literature should also be included reference style that is commonly used in your discipline such as American Chemical Society (ACS), American Medical Association (AMA) style, Modern Language Association (MLA) style, etc. The evaluators will manually retrieve each reference.]

**Part B2**

**ERC Starting Grant 2022**

**Part B2<sup>1</sup>**

**(not evaluated in Step 1)**

b) of Part B2 should not exceed 14 pages. References do not count towards the page limit.

grey should be deleted.  
following formatting constraints: Times New Roman, Arial or similar, at 12 point font size and 1.5 cm top and bottom, single line spacing.

the-art and objectives

ology

any description of resources or budget table here (Part B2). The Resource Allocation Table (RAT) table are part of the online submission form (Part A, Section 3 - Budgets and provided in the peer review.

Completing Part B2 can be found in the "Information for Applicants to the Starting and Consolidator Grants".

## Principal Investigator (2022 call):

### Scientific Excellence: Intellectual capacity and Creativity

**1. All** *To what extent* has the PI demonstrated the ability to propose and conduct ground-breaking research?.

#### CV:

- Biosketch – Scientific Profile
- Key contributions

#### Track-Record:

- Include per publication a narrative on the groundbreaking nature

Exceptional (5)

Outstanding (4)

Excellent (3)

Very good (2)

Non-competitive (1)

Yellow Research

Source: ERC WP 2020/1



## Principal Investigator (2022 call):

### Scientific Excellence: Intellectual capacity and Creativity

**2 StG** *To what extent* does the PI provide evidence of creative independent thinking?.

#### CV:

- Biosketch – Scientific Profile
- Current position
- Funding obtained

#### Track-Record:

- Main authorship: 1<sup>st</sup> or last author, corresponding author, ...

Exceptional (5)

Outstanding (4)

Excellent (3)

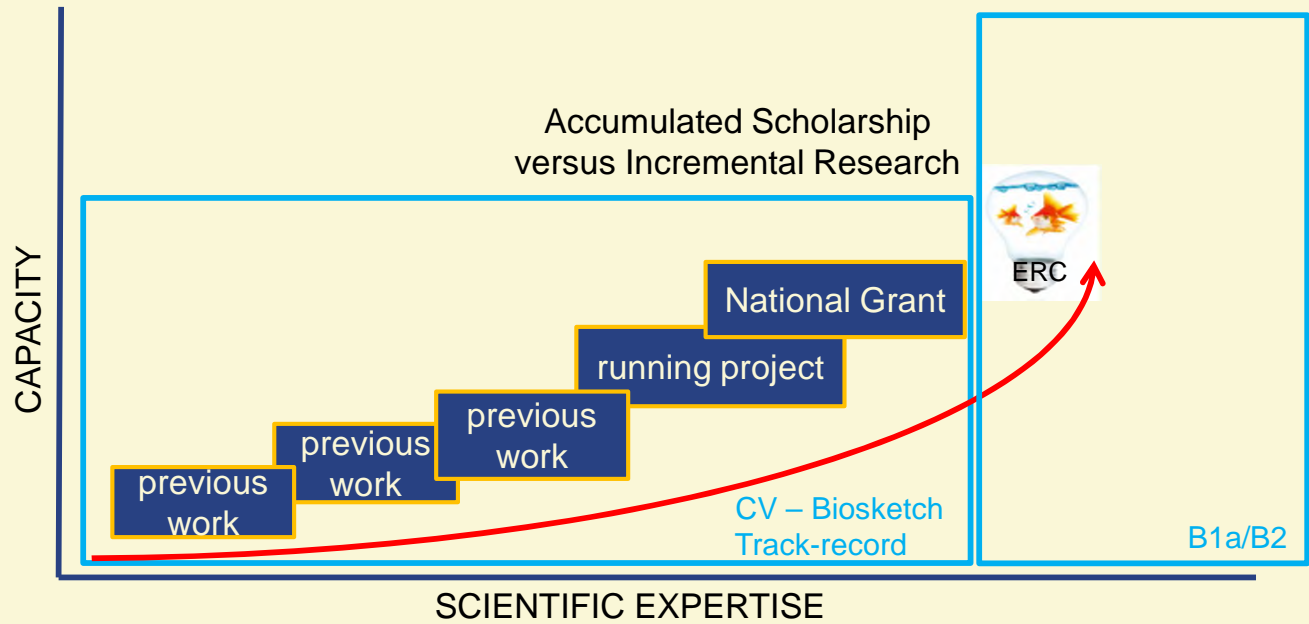
Very good (2)

Non-competitive (1)

Yellow Research



**3. All** To what extent does the PI have the required **scientific expertise** and **capacity** to successfully execute the project?



Yellow Research

And, it all begins with an  
idea...

Thank you

Yellow Research

82