



Mreža NKO
Obzorje Evropa

HORIZON
EUROPE



THE EU RESEARCH & INNOVATION
PROGRAMME 2021 - 2027

#HorizonEU



WORKSHOP C: EVALUATING SCIENCE IN EUROPE: THE CASE OF THE EUROPEAN RESEARCH COUNCIL

dr. Andreja Umek Venturini, ERC national contact point

andreja.umek-venturini@gov.si



Mreža NKO

Obzorje Evropa



The ERC supports excellence in Frontier Research through a bottom-up, individual-based, pan-European competition

budget: 16 bn € (2021-2027) – 2,3 bn €/year
13 bn € (2014-2020) – 1,9 bn €/year
7,5 bn € (2007-2013) – 1,1 bn €/year


Strategy


- Support for the **individual scientists** – no networks!
- **Global peer-review**
- No predetermined subjects (**bottom-up**)
- Support of **frontier research** in **all fields of science and humanities**


Legislation

- Scientific governance: **independent Scientific Council** with 22 members including the ERC President; **full authority over the funding strategy and evaluation**
- Support by the **ERC Executive Agency** (autonomous)
- **Scientific quality** as the only criterion aiming for excellence




> 12.000 top research projects funded
> 75.000 researchers & other professionals hired in ERC teams


70%-80% completed projects led to breakthroughs / major advances


> 6.100 articles among 1% most cited




12 international initiatives for non-EU talent to join ERC teams


9 Nobel prizes
9 Wolf prizes
4 Fields medals


15 EU countries set up ERC-like structures / funding schemes



Horizon 2020
European Union funding
for Research & Innovation



Mreža NKO

Obzorje Evropa



Principles of ERC funding?

- **Open science**
- **Gender Balance**
- **Ethical principles**
- **Security**
- **Research Integrity**



Mreža NKO

Obzorje Evropa



Starting Grant

2-7 years after PhD
up to 1.5 mio € for 5
years

Consolidator Grant

7-12 years after PhD
up to 2 mio € for 5
years

Advanced Grant

Track-record of
significant achievements
in the last 10 years
up to 2.5 mio for 5 years

Proof-of-Concept

Bridging gap between research and
earliest stage of market innovation
up to 150 k € for ERC grant holders

Synergy Grant

re-launched 2018

2-4 principle investigators
up to 10 mio € for 6 years



Mreža NKO

Obzorje Evropa



Application

Part A

- A1 general information
- A2 participants
- A3 budget and resources
- A4 ethics and security
- A5 other questions

Part B1

- a. Extended synopsis 5 pages
- b. CV 2 pages
- c. Track-record 2 pages

Annex pdf

- PhD certificate
- Host Institution support letter
- Ethics
- Security

Part B2

- Scientific proposal 14 pages
 - a. state of the art and objectives
 - b. methodology



Evaluation and open science principle

- ERC formally endorsed the San Francisco Declaration on Research Assessment (DORA)
- **Track-record** may include broad range of achievements
- A short narrative describing the scientific importance of the research outputs
- The number of peer-reviewed publications and preprints is limited: 5-10
- Request to not include the Journal Impact factor

Scientific Excellence is the sole criterion of evaluation

1. Research project

- Ground-breaking nature, ambition and feasibility (scientific approach)

2. Principal Investigator(s)

- Intellectual capacity and creativity

3. Synergy Grant Group

- Synergy

Marks 1-5

Organisation of the ERC calls for proposal

1. Before the submission deadline

- Calls' planning 2 years in advance:
 - Recrutement panels members
 - Planning with the IT services
- Preparation of the submission forms
- Communication with the applicants

2. After the submission deadline

- Eligibility check
- Coordination of the panel meetings
- Communication of the results
- Organisation of the interviews



Mreža NKO

Obzorje Evropa

Life sciences (LS) 9

LS1 Molecules of Life: Biological Mechanisms, Structures and Functions

LS2 Integrative Biology: From Gene and Genomes to Systems

LS3 Cellular, Developmental and Regenerative Biology

LS4 Physiology in Health, Disease and Ageing

LS5 Neurosciences and Disorders of the Nervous System

LS6 Immunity, Infection and Immunotherapy

LS7 Prevention, Diagnosis and Treatment of Human Diseases

LS8 Environmental Biology, Ecology and Evolution

LS9 Biotechnology and Biosystems Engineering

Panel = chair + 15-16 panel members

<https://erc.europa.eu/>

Physical Sciences & Engineering (PE) 11

PE1 Mathematics

PE2 Fundamental Constituents of Matter

PE3 Condensed Matter of Physics

PE4 Physical and Analytical Chemical Sciences

PE5 Synthetic Chemistry and Materials

PE6 Computer Science and Informatics

PE7 Systems and Communication Engineering

PE8 Products and Process Engineering

PE9 Universe Sciences

PE10 Earth System Science

PE11 Materials Engineering

Social Sciences and Humanities (SH) 7

SH1 Individuals, Markets and Organisations

SH2 Institutions, Governance and Legal Systems

SH3 The Social World and its Diversity

SH4 The Human Mind and its Complexity

SH5 Cultures and Cultural Production

SH6 The Study of the Human Past

SH7 Human Mobility, Environment and Space





Mreža NKO

Obzorje Evropa



If a project covers aspects related to different panels

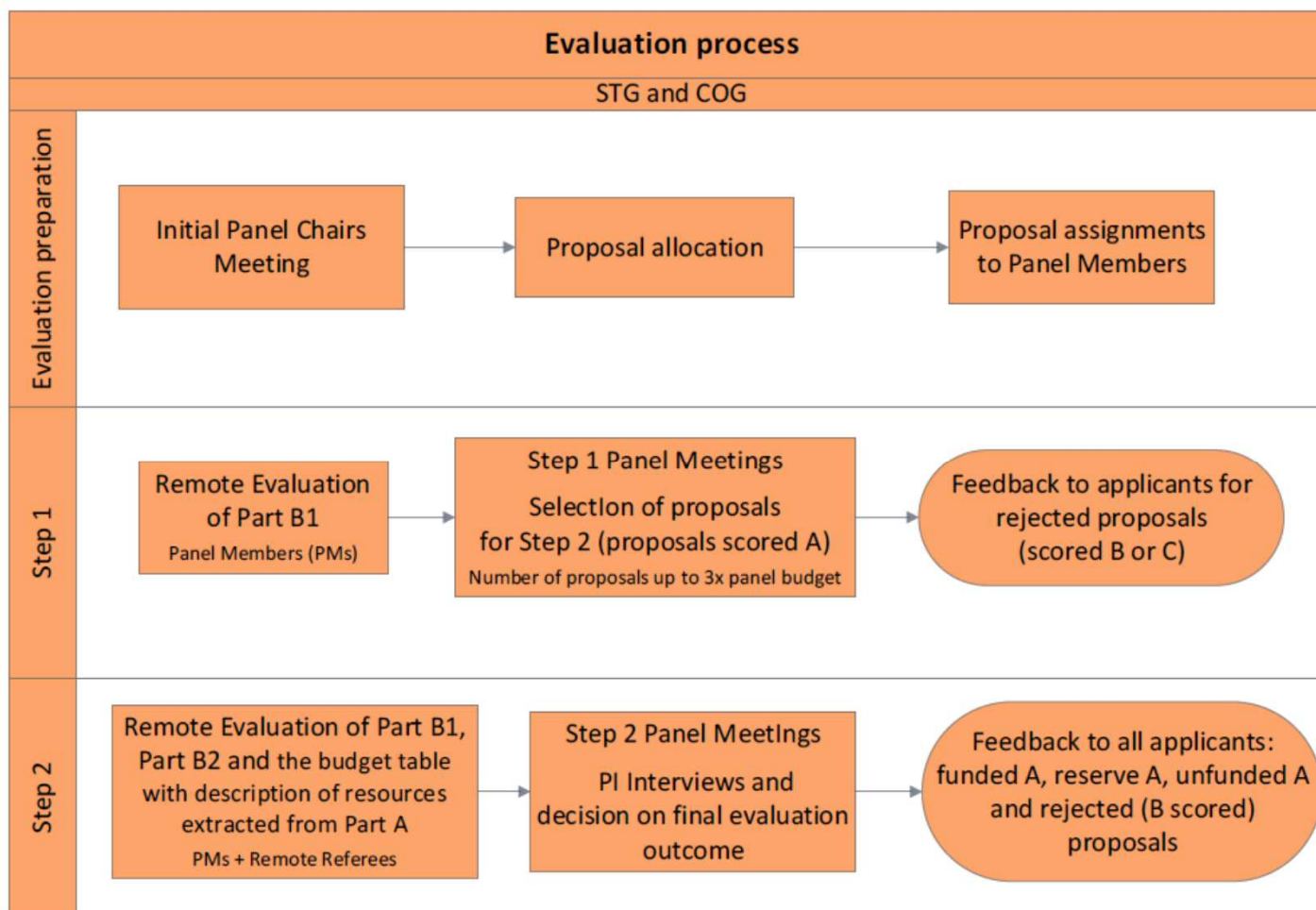
The applicant should choose the most-relevant panel according to **scientific content** of the planned research

- most relevant panel as **evaluation panel**
 - *This would in principle be the ultimate evaluation panel*
- other panel as **secondary panel**

Note: panel chairs may discuss which evaluation panel is best suited and transfer the proposal accordingly



2 step evaluation process: StG, CoG and AdG

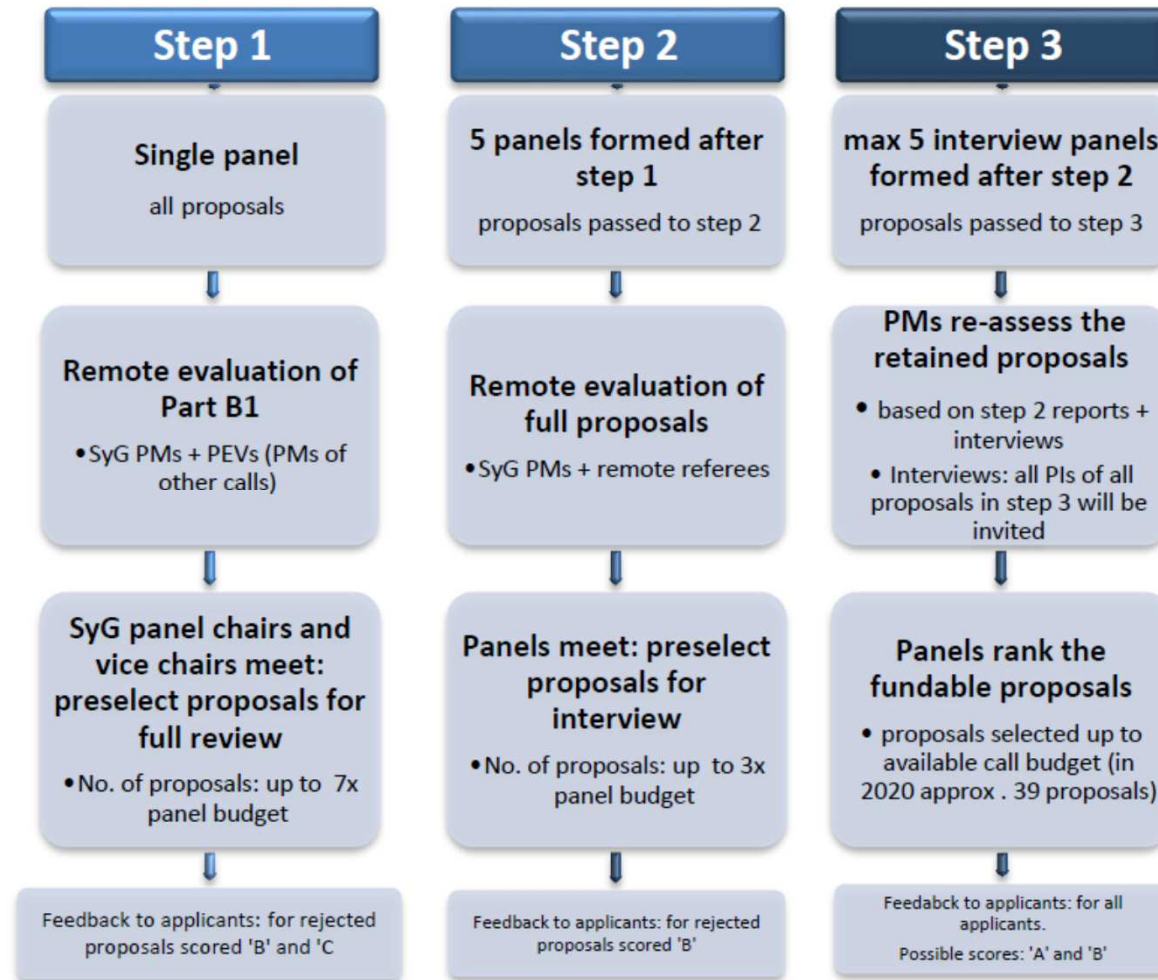




Mreža NKO

Obzorje Evropa

3 step evaluation process for SyG





Mreža NKO

Obzorje Evropa



Ethics appraisal process

- Independent from the evaluation procedure
- Applicants' ethics self-assessment (ethics issues table)
- The ethics review process for proposals recommended for funding
- The possible outcomes: Clearance/Conditional clearance/No clearance



Mreža NKO

Obzorje Evropa

HORIZON
EUROPE



THE EU RESEARCH & INNOVATION
PROGRAMME 2021 - 2027

#HorizonEU



USEFUL LINKS

- MIZŠ in Obzorje Evropa: www.obzorje-evropa.si
- ERC: <https://erc.europa.eu/>
- Portal za sodelujoče v Obzorju Evropa (Funding & Tenders Portal):
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/horizon>
- Vprašanja? Research Enquiry Service: <http://ec.europa.eu/research/enquiries>

Mrežo NKO tvorimo predstavniki



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA GOSPODARSKI
RAZVOJ IN TEHNOLOGIJO



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA INFRASTRUKTURO



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA IZOBRAŽEVANJE,
ZNANOST IN ŠPORT

SPIRIT
SLOVENIJA
JAVNA AGENCIJA

I FEEL
SLOVENIA



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA OKOLJE IN PROSTOR