GIORNATA INFORMATIVA ERC
Università di Firenze
21 febbraio 2017

ERC: OVERVIEW DEL PROGRAMMA, REGOLE DI FINANZIAMENTO E PROCEDURE DI VALUTAZIONE

Serena Borgna - borgna@apre.it
APRE, NCP - National Contact Point Horizon 2020
- ERC- European Research Council
- Societal Challenge 2 “Food Security, Sustainable Agriculture and Forestry, Marine, Maritime and Inland Water Research and the bioeconomy”
- LEIT – NMBP “Nanotechnologies, advanced materials and advanced manufacturing and processing”
## HORIZON 2020

### Excellent Science
- European Research Council
  - Frontier research by the best individual teams
- Future and Emerging Technologies
  - Collaborative research to open new fields of innovation
- Marie Skłodowska Curie actions
  - Opportunities for training and career development
- Research infrastructures
  - Including e-infrastructure
  - Ensuring access to world-class facilities

### Industrial Technologies
- Leadership in enabling and industrial technologies
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- Access to risk finance
  - Leveraging private finance and venture capital for research and innovation
- Innovation in SMEs
  - Fostering all forms of innovation in all types of SMEs

### Societal Challenges
- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

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**European Institute of Innovation and Technology (EIT)**
- Spreading Excellence and Widening Participation
- Science with and for society
- Joint Research Center (JRC)
- Euratom

**Website: [www.apre.it](http://www.apre.it)**
Che cos’è lo European Research Council?

- L’ERC finanzia la ricerca di frontiera, sulla base della sola eccellenza scientifica, con un approccio bottom-up, attraverso una competizione fra progetti di ricercatori individuali.

- Budget ERC in H2020: **13,1 Miliardi €** (2014-2020) → circa **17%** del budget di H2020 (vs 7.5 mlr € del FP7)

**Mission:** rafforzare l’eccellenza, il dinamismo e la creatività della ricerca europea
L'ERC offre:

- **Libera scelta** dell’area di ricerca, dell'istituzione ospitante e dei membri del team (europei e non)
- Mobilità dei ricercatori ovunque in Europa (*portability of grants*)
- Un "marchio di qualità" per *attrarre finanziamenti aggiuntivi e ottenere riconoscimento*
- Procedure semplici e burocrazia "leggera"
L’ERC incoraggia proposte che:

- superino le **tradizionali barriere** tra le discipline
- trattino **settori nuovi ed emergenti**
- **high-risk, high-gain**
- **ground-breaking**
- **4*1**: 1 progetto, 1 ricercatore, 1 istituto, 1 criterio di valutazione → NO network, SI **TEAM**
- unico criterio di selezione: **ECCELLENZA** del PI e dell’**IDEA**
- Borse sostanziose (1.5 mln € → 3.5 mln €)
- **Portability** del grant
ERC GRANTS - DOMINI

Quali settori?
- Tutti gli argomenti- *eccetto energia nucleare e temi sensibili da un punto di vista etico*

- Per motivi pratici divisi in 3 domini e 25 panel:
  1. Scienze naturali, fisiche e ingegneria *(PE)* – 10 panel
  2. Scienze della vita *(LS)* – 9 panel
  3. Scienze sociali ed umanistiche *(SH)* – 6 panel

**LS1** Molecular and Structural Biology and Biochemistry  
**LS2** Genetics, Genomics, Bioinformatics and 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

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FUNDING SCHEME

Proof of Concept (PoC)

Starting Grant (StG)

Consolidator Grant (CoG)

Advanced Grant (AdG)

Synergy Grant (SyG)
ERC Funded Projects by Country of HI

380 funded projects based at a Host Institution in Italy
Success Rate by Country of HI


<table>
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<th>Country</th>
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</table>
Italy: Success Rate by Domain

- **Calls 2007-2013**
  - LS: 4%
  - PE: 5%
  - SH: 7%
  - All domains: 5%

- **Calls 2014-2016**
  - LS: 5%
  - PE: 6%
  - SH: 6%
  - All domains: 6%
## Italy: Projects Funded by ERC in H2020

<table>
<thead>
<tr>
<th>HI in Italy</th>
<th>LS</th>
<th>PE</th>
<th>SH</th>
<th>Total</th>
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<td>AdG</td>
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<td>AdG2015</td>
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<td>7</td>
<td>7</td>
<td>19</td>
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<td><strong>Total (H2020)</strong></td>
<td><strong>29</strong></td>
<td><strong>62</strong></td>
<td><strong>37</strong></td>
<td><strong>128</strong></td>
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</table>
Top Host Institutions in Italy

<table>
<thead>
<tr>
<th>Institution</th>
<th>StG</th>
<th>CoG</th>
<th>AdG</th>
<th>PoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bocconi University Milan</td>
<td>12</td>
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<td>10</td>
<td></td>
</tr>
<tr>
<td>National Research Council (CNR)</td>
<td>14</td>
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<td>2</td>
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<tr>
<td>University of Roma - La Sapienza</td>
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<tr>
<td>University of Trento</td>
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<td>Polytechnic University of Milan</td>
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<td>University of Padua</td>
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<tr>
<td>International School for Advanced Studies</td>
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<tr>
<td>European University Institute</td>
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<td>University of Milan</td>
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<tr>
<td>Italian Institute of Technology</td>
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<td>University of Rome - Tor Vergata</td>
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<tr>
<td>National Institute for Nuclear Physics</td>
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</table>

Current Host Institutions (data as of 14/12/2016)
Grantees at Home and Abroad

- 350 Italian grantees in Italy
- 294 Italian grantees abroad
- 30 foreign grantees in Italy

**ERC 2007-2015 calls + StG2016 +CoG2016**
Priority to Young Scientists

Two-thirds of ERC grants to early-stage Principal Investigators.

+ 30 000 PhD and post-doc researchers working in ERC teams.

Reported team members (2015)
head count (1901 projects; almost 14 000 team members)

- Post-doc: 73% (ERA), 27% (non-ERA)
- Doctoral researcher: 80% (ERA), 20% (non-ERA)
- Senior researcher: 89% (ERA), 11% (non-ERA)
- Research assistant: 84% (ERA), 16% (non-ERA)
- Researcher: 77% (ERA), 23% (non-ERA)
- Technical staff: 90% (ERA), 10% (non-ERA)
- Senior technical staff: (ERA), (non-ERA)
- Administrator: (ERA), (non-ERA)
Starting Grants
starters
(2-7 years after PhD)
up to € 2.0 Mio
for 5 years

Consolidator Grants
consolidators
(7-12 years after PhD)
up to € 2.75 Mio
for 5 years

Advanced Grants
track-record of
significant research
achievements in the
last 10 years
up to € 3.5 Mio
for 5 years

Proof-of-Concept
bridging gap between research - earliest
stage of marketable innovation
up to €150,000 for ERC grant holders
## INDICATIVE SUMMARY MAIN CALLS
### 2017 BUDGET

<table>
<thead>
<tr>
<th>Calls</th>
<th>Call opens</th>
<th>Deadline(s)</th>
<th>Budget mln EUR (estimated grants)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Starting Grant</strong> (ERC-2017-StG)</td>
<td>19 Jul 2016</td>
<td>18 Oct 2016</td>
<td>605 (415)</td>
</tr>
<tr>
<td><strong>Consolidator Grant</strong> (ERC-2017-CoG)</td>
<td>20 Oct 2016</td>
<td>9 Feb 2017</td>
<td>575 (320)</td>
</tr>
<tr>
<td><strong>Advanced Grant</strong> (ERC-2017-AdG)</td>
<td>16 May 2017</td>
<td>31 Aug 2017</td>
<td>567 (245)</td>
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</table>
## ERC PROPOSALS: KEY ELEMENTS

<table>
<thead>
<tr>
<th>Principal Investigator (PI)</th>
<th>Host Institution (HI)</th>
<th>Individual research team</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Nationality, age or current place of work not relevant</td>
<td>• To be located in a EU Member State or Associated Country</td>
<td>• PI has freedom to choose team members</td>
</tr>
</tbody>
</table>
### ERC Proposals: Principal Investigator

<table>
<thead>
<tr>
<th>Grant Type</th>
<th>Post-PhD Period</th>
<th>Relevant Publications</th>
<th>Minimum Commitment</th>
<th>Budget for 5 years</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Starting Grant</strong></td>
<td>2-7 years</td>
<td>At least 1</td>
<td>50%</td>
<td>1.5 M€</td>
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<tr>
<td></td>
<td></td>
<td>relevant independent publication</td>
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</tr>
<tr>
<td><strong>Consolidator Grant</strong></td>
<td>7-12 years</td>
<td>Several relevant independent publication (5)</td>
<td>40%</td>
<td>2 M€</td>
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<tr>
<td><strong>Advanced Grant</strong></td>
<td>Established scientist (more than 10 years experience)</td>
<td>Noticeable CV (numbers depending on the field)</td>
<td>30%</td>
<td>2.5 M€</td>
</tr>
</tbody>
</table>

*possibilità di **additional budget** in casi eccezionali e ben specificati: fino 1Mio € per ADG*
MEDICAL DOCTORS: STG E COG

Requisiti e calcolo eleggibilità:

- Laurea in medicina di base (MD) + PhD: conteggio canonico
- MD + “proof of appointment requiring PhD equivalence”: 4-9 anni post MD per StG, 9-14 anni post MD per CoG
- MD + “proof of appointment requiring PhD equivalence” + PhD: 4-9 anni post MD per StG, 9-14 anni post MD per CoG

La specializzazione medica non vale come requisito per l’eleggibilità
ESTENSIONE ELEGGIBILITÀ

Prima, durante e dopo il PhD:
- Maternità (18 mesi per figlio – come minimo)
- Congedo paternità (tempo effettivo)

Dopo il PhD:
- Malattia (più di 90 giorni) del PI o dei membri della famiglia (child, spouse, parent or sibling).
- Servizio militare (tempo effettivo)
- Specializzazione medica (tempo effettivo)
PRINCIPAL INVESTIGATOR (PI)

- Il PI non deve essere necessariamente “employed” o “strutturato” dall’Host Institution al momento della presentazione della proposta, ma impiegato/assunto (“engaged”) dalla HI per tutta la durata del Grant.

- Il PI deve dedicare al progetto una parte significativa del suo tempo: almeno il 50% /40%/ 30% working time (commitment) ed almeno il 50% speso in MS o AC.

- Unico responsabile del progetto, sia per l’attività scientifica che per il management.
ESEMPIO
PI STG: IL CANDIDATO COMPETITIVO

- Deve rientrare tra i 2 e i 7 anni post-doc
- Deve aver già dimostrato la capacità di *svolgere la ricerca in modo indipendente*
- Avere una certa maturità nella ricerca: *almeno una importante pubblicazione senza il PHD supervisor*
- Avere un “promettente” *track record* dei primi successi raggiunti nel proprio ambito di ricerca
- *Publicazioni significative* come main author nelle principali riviste internazionali
- *Invited presentations* in conferenze internazionali
- Brevetti, premi, concorsi
Host Institution
HOST INSTITUTION

- Ente di ricerca, Università ma anche Industria
- Situato in un Paese Membro o Associato
- Risponde al criterio dell’eccellenza (ambiente di ricerca, capacità di management, contatti, know-how,..etc)

- Formalmente è il contraente con la CE
- Dovrà prendere un impegno formale nel concedere al ricercatore (PI) indipendenza nella gestione dei fondi per tutta la durata del progetto
- Accetta la “portabilità” del Grant
- Firma la letter of commitment
Condizioni di indipendenza del PI: cosa sono?

- Applicare per il finanziamento in modo autonomo
- Gestire la ricerca e il finanziamento del progetto e prendere decisioni sull’allocazione delle risorse
- Pubblicare come senior author in modo indipendente e invitare come co-authors solamente coloro che hanno contribuito al lavoro
- Supervisionare i team members
- Avere accesso a spazi e facilities adeguati per portare avanti la ricerca
In casi particolari, possono essere coinvolti nel progetto altri istituti:

- Partecipazione motivata e giustificata
- Costituiscono un chiaro valore aggiunto al progetto
Team di ricerca
TEAM DI RICERCA: CHI NE PUÒ FAR PARTE?

- Costituzione flessibile: post-doc, graduate and PhD students, senior researchers. No limiti di età, nazionalità e paese di residenza (*no PhD supervisor nei team di StG e CoG*)

- Composizione nazionale o trans-nazionale: team members provenienti dal gruppo di ricerca del PI/stesso Ente, ma anche da altri Enti di differenti Paesi (additional participants -> eccezione)

- Per gli additional participants: valutazione caso per caso, partecipazione giustificata e essenziale in termini di competenze e capacità scientifiche

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focus sul PI \rightarrow no 'network' o 'consorzi'!

partecipazione di altri enti se necessario per fini scientifici
VALUTAZIONE
1. Research Project

**Ground-breaking nature, ambition and feasibility**

- To what extent does the proposed research address important challenges?
- To what extent are the objectives ambitious and beyond the state of the art (e.g. novel concepts and approaches or development across disciplines)?
- To what extent is the proposed research high risk/high gain?

**Scientific Approach**

- To what extent is the outlined scientific approach feasible (based on the Extended Synopsis)?
- To what extent is the proposed research methodology appropriate to achieve the goals of the project (based on the full Scientific Proposal)?
- To what extent does the proposal involve the development of novel methodology (based on the full Scientific Proposal)?
- To what extent are the proposed timescales and resources necessary and properly justified (based on the full Scientific Proposal)?
2. Principal Investigator

Intellectual capacity, creativity and commitment

Starting and Consolidator

Intellectual capacity and creativity

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

To what extent does the PI provide evidence of creative independent thinking?

To what extent have the achievements of the PI typically gone beyond the state-of-the-art?

Commitment

To what extent does the PI demonstrate the level of commitment to the project necessary for its execution and the willingness to devote a significant amount of time to the project (min 50% of the total working time on it and min 50% in an EU Member State or Associated Country) (based on the full Scientific Proposal).
25 Panels che coprono tutti i campi della scienza, dell’ingegneria e della ricerca

3 Domini:

✓ Social Sciences and Humanities (6 Panels, SH1-SH6)
✓ Physical Sciences and Engineering (10 Panels, PE1-PE10)
✓ Life Sciences (9 Panels, LS1-LS9)

✓ Rilevanti per la presentazione del progetto
✓ Facilitano la valutazione

*Elenco dei Panels suddivisi per domini negli info. stg del Bando
Physical Sciences & Engineering

PE1  Mathematics
All areas of mathematics, pure and applied, plus mathematical foundations of computer science, mathematical physics and statistics.

PE2  Fundamental Constituents of Matter
Particle, nuclear, plasma, atomic, molecular, gas, and optical physics.

PE3  Condensed Matter Physics
Structure, electronic properties, fluids, nanosciences, biophysics.

PE4  Physical and Analytical Chemical Sciences
Analytical chemistry, chemical theory, physical chemistry/chemical physics.

PE5  Synthetic Chemistry and Materials
Materials synthesis, structure-properties relations, functional and advanced materials, molecular architecture, organic chemistry.

PE6  Computer Science and Informatics
Informatics and information systems, computer science, scientific computing, intelligent systems.

PE7  Systems and Communication Engineering
Electrical, electronic, communication, optical and systems engineering.

PE8  Products and Processes Engineering
Product design, process design and control, construction methods, civil engineering, energy processes, material engineering.

PE9  Universe Sciences
Astro-physics/chemistry/biology; solar system; stellar, galactic and extragalactic astronomy, planetary systems, cosmology, space science, instrumentation.

PE10  Earth System Science
Physical geography, geology, geophysics, atmospheric sciences, oceanography, climatology, cryology, ecology, global environmental change, biogeochemical cycles, natural resources management.

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 Geometry
PE1_6 Topology
PE1_7 Lie groups, Lie algebras
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 processing
PE1_19 Control theory and optimisation
PE1_20 Application of mathematics in sciences
PE1_21 Application of mathematics in industry and society

Fundamental Constituents of Matter: Particle, nuclear, plasma, atomic, molecular, gas, and optical physics

PE2_1 Fundamental interactions and fields
PE2_2 Particle physics
PE2_3 Nuclear physics
PE2_4 Nuclear astrophysics
PE2_5 Gas and plasma physics
PE2_6 Electromagnetism
Life Sciences

LS1  Molecular and Structural Biology and Biochemistry
Molecular synthesis, modification and interaction, biochemistry, biophysics, structural biology, metabolism, signal transduction.

LS2  Genetics, Genomics, Bioinformatics and Systems Biology
Molecular and population genetics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, computational biology, biostatistics, biological modelling and simulation, systems biology, genetic epidemiology.

LS3  Cellular and Developmental Biology
Cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals, stem cell biology.

LS4  Physiology, Pathophysiology and Endocrinology
Organ physiology, pathophysiology, endocrinology, metabolism, ageing, tumorigenesis, cardiovascular disease, metabolic syndrome.

LS5  Neurosciences and Neural Disorders
Neurobiology, neuroanatomy, neurophysiology, neurochemistry, neuropharmacology, neuroimaging, systems neuroscience, neurological and psychiatric disorders.

LS6  Immunity and Infection
The immune system and related disorders, infectious agents and diseases, prevention and treatment of infection.

LS7  Diagnostic Tools, Therapies and Public Health
Aetiology, diagnosis and treatment of disease, public health, epidemiology, pharmacology, clinical medicine, regenerative medicine, medical ethics.

LS8  Evolutionary, Population and Environmental Biology

LS9  Applied Life Sciences and Non-Medical Biotechnology
Applied plant and animal sciences, food sciences, forestry, industrial, environmental and non-medical biotechnologies, bioengineering, synthetic and chemical biology, biomimetics, bioremediation.

LS2  Genetics, Genomics, Bioinformatics and Systems Biology: Molecular and population genetics, genomics, transcriptomics, proteomics, metabolomics, bioinformatics, computational biology, biostatistics, biological modelling and simulation, systems biology, genetic epidemiology

LS2_1  Genomics, comparative genomics, functional genomics
LS2_2  Transcriptomics
LS2_3  Proteomics
LS2_4  Metabolomics
LS2_5  Glycomics
LS2_6  Molecular genetics, reverse genetics and RNAi
LS2_7  Quantitative genetics
LS2_8  Epigenetics and gene regulation
LS2_9  Genetic epidemiology
LS2_10  Bioinformatics
LS2_11  Computational biology
LS2_12  Biostatistics
LS2_13  Systems biology
LS2_14  Biological systems analysis, modelling and simulation

LS3  Cellular and Developmental Biology: Cell biology, cell physiology, signal transduction, organogenesis, developmental genetics, pattern formation in plants and animals, stem cell biology

LS3_1  Morphology and functional imaging of cells
LS3_2  Cell biology and molecular transport mechanisms
LS3_3  Cell cycle and division
LS3_4  Apoptosis
LS3_5  Cell differentiation, physiology and dynamics
LS3_6  Organelle biology
LS3_7  Cell signalling and cellular interactions
LS3_8  Signal transduction
LS3_9  Development, developmental genetics, pattern formation and embryology in animals
LS3_10  Development, developmental genetics, pattern formation and embryology in plants
LS3_11  Cell genetics
LS3_12  Stem cell biology

LS4  Physiology, Pathophysiology and Endocrinology: Organ physiology, pathophysiology, endocrinology, metabolism, ageing, tumorigenesis, cardiovascular disease, metabolic syndrome

LS4_1  Organ physiology and pathophysiology
LS4_2  Comparative physiology and pathophysiology
LS4_3  Endocrinology
LS4_4  Ageing
LS4_5  Metabolism, biological basis of metabolism related disorders
LS4_6  Cancer and its biological basis
Social Sciences & Humanities

SH1 Individuals, Markets and Organisations
Economics, finance and management.

SH2 Institutions, Values, Environment and Space
Political science, law, sustainability science, geography, regional studies and planning.

SH3 The Social World, Diversity, Population
Sociology, social psychology, demography, education, communication.

SH4 The Human Mind and Its Complexity
Cognitive science, psychology, linguistics, philosophy of mind.

SH5 Cultures and Cultural Production
Literature, philology, cultural studies, anthropology, study of the arts, philosophy.

SH6 The Study of the Human Past
Archaeology and history.
Step 1
- B1 form

Interview
- Only for StG & CoG

Step 2
- B1 e B2

Evaluation Criteria

EXCELLENCE
- PI
- IDEA

www.apre.it
VALUTAZIONE

Step 1 - valutazione della sezione B1

- **A**: qualità sufficiente per passare allo step 2
- **B**: buona qualità, ma non sufficiente
- **C**: qualità non sufficiente

*Interview (solo per StG e CoG)*

Step 2 - valutazione dell’intera proposta (B1 e B2):

- **A**: finanziabile (a seconda del budget disponibile)
- **B**: non finanziabile
COMPOSITION OF THE PANELS

Each ERC panel consists of a chairman and 10-16 members. The Panel Chair and the Panel Members are selected by the ERC Scientific Council on the basis of their scientific reputation.

http://erc.europa.eu/evaluation-panels

+ external experts
A Principal Investigator **may submit proposals to different ERC frontier research grant** calls made under the same Work Programme, **but only the first eligible proposal will be evaluated.**

A Principal Investigator whose proposal was evaluated as category **A** in the Starting, Consolidator or Advanced Grant calls for proposals **under Work Programme 2016 may submit** a proposal to the Starting, Consolidator or Advanced Grant calls for proposals made **under Work Programme 2017.**

A Principal Investigator whose proposal was evaluated as category **B at step 2** in the Starting, Consolidator or Advanced Grant calls for proposals under **Work Programme 2016 may submit** a proposal to the Starting, Consolidator or Advanced Grant calls for proposals made under **Work Programme 2017.**
RESTRICTIONS OF SUBMISSION

• A Principal Investigator whose proposal was evaluated as category **B at step 1** in the Starting, Consolidator or Advanced Grant calls for proposals under **Work Programme 2016 may not** submit a proposal to the Starting, Consolidator or Advanced Grant calls for proposals made under **Work Programme 2017**.

• A Principal Investigator whose proposal was evaluated as category **C** in the Starting, Consolidator or Advanced Grant calls for proposals under **Work Programmes 2015 or 2016 may not** submit a proposal to the Starting, Consolidator or Advanced Grant calls for proposals made under **Work Programme 2017**.
RESTRICTIONS OF SUBMISSION

• A Principal Investigator whose proposal was rejected on the grounds of a breach of research integrity in the calls for proposals under Work Programmes 2015 or 2016 may not submit a proposal to the calls for proposals made under Work Programme 2017.

• A researcher may participate as Principal Investigator or Co-Investigator in only one ERC frontier research project at any one time.

• A Principal investigator who is a serving Panel Member for 2017 ERC call or who served as a Panel Member for a 2015 ERC call may not apply to a 2017 ERC call for the same type of grant.
LA PROPOSTA

PART A – online forms
- A1: Proposal and PI info
- A2: HI info
- A3: Budget

PART B1 – pdf
- Extended Synopsis: 5 pp
- CV: 2 pp
- Track Record: 2 pp

PART B2 – pdf
- Proposal: 15 pp

Annexes – pdf
- Support letter HI
- Annex Ethical Issues (if applicable)

www.apre.it
LA PROPOSTA

PART A – online forms
A1: Proposal and PI info
A2: HI info
A3: Budget

PART B1 – pdf
Extended Synopsis: 5 pp
CV: 2 pp
Track Record: 2 pp

PART B2 – pdf
Proposal: 15 pp

Annexes – pdf
Support letter HI
Annex Ethical Issues (if applicable)

www.apre.it
Informazioni sulla proposta:
- Titolo
- Acronimo
- durata
- Panel(s)
- ERC keywords
- free keywords
- abstract
MODULI: ESCLUSIONE REVIEWERS

✓ Valutatori da escludere
(max 3)
IL TEMPLATE

PART A – online forms
A1: Proposal and PI info
A2: HI info
A3: Budget

PART B1 – pdf
Extended Synopsis: 5 pp
CV: 2 pp
Track Record: 2 pp

PART B2 – pdf
Proposal: 15 pp

Annexes – pdf
Support letter HI
Annex Ethical Issues (if applicable)
Un ricercatore eccellente con un’idea eccellente
Può non bastare...

...DEVE rendere “appealing” CV e proposta!
PER COMINCIARE... (1)

- Calcolare bene i tempi, cominciare il prima possibile!
- Scaricare e studiare i **documenti** (WP, IfA)
- Creare un account ECAS
- Utilizzare i **template ufficiali** (download da Part. Portal)
- Avviare procedure per **documenti di supporto** (HI letter, Annex Ethical Issues – se applicabile)
- Verificare che eventuali AP abbiano il PIC
- In caso di dubbi, contattare subito gli **NCP!!**
PER COMINCIARE... (2)

- Verificare i database di progetti finanziati (es. ERC), di brevetti, etc a livello internazionale

- [http://erc.europa.eu](http://erc.europa.eu), sezione “funded project” o «stories» o «publications»

- Fare una rapida ricognizione dell’attività svolta da team di ricerca “potenzialmente concorrenti”

- Guardare “fuori Europa”!!!
È molto importante capire il valore della propria proposta e rispondere in maniera sincere alle seguenti domande:

1. What is the problem that needs to be solved?
2. Why is it significant?
3. What makes my solution/approach to the problem groundbreaking?

Ed inoltre è necessario descrivere chiaramente la natura groundbreaking del progetto:

4. Why will my project a decisive difference?
SECTION B1

Cover page

Proposal Full Title

PROPOSAL ACRONYM

Proposal 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 to 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 give 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 plain typed 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).

Explain and justify the cross-panel or cross-domain nature of your proposal, if a secondary panel is indicated in the online proposal submission forms. There is a limit of 1000 characters, spaces and line breaks included.
Section a: Extended Synopsis of the scientific proposal (max. 5 pages)

[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 respect the following formatting constraints: Times New Roman, Arial or similar, at least font size 11, margins (2.0 cm side and 1.5 cm top and bottom), single line spacing.
SECTION B1: EXTENDED SYNOPSIS

1a- Extended synopsis (max 5 pp)

- E’ lo “specchio” della proposta, in 5 pp
- Presentazione breve ma completa della proposta, con particolare attenzione alla natura innovativa e di “rottura” della ricerca
- E’ valutata durante il primo step di valutazione, insieme al CV
- Deve permettere ai valutatori di verificare la fattibilità scientifica (ed economica) della proposta
LA PROPOSTA

B1: Extended Synopsis (1)

**Allo step 1, la synopsis è l’unica fonte di informazione sulla proposta, pertanto:**

- Deve dare informazioni sugli elementi principali della proposta come obiettivi, superamento dello stato dell’arte, metodologia di ricerca, qualità del team, sostenibilità economica del progetto, references
- Convincere i valutatori della fattibilità e innovatività del progetto
- Sintetizzare tutte le informazioni in 5 pagine
SECTION B1: CV

Section B: Curriculum vitae (max. 2 pages)

[The template below is provided only for guidance. It may be modified as necessary and appropriate.]

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

EDUCATION
1997
M.Sc.
Name of Faculty/ Department, Name of University/ Institution, Country

1991
B.Sc.
Name of Faculty/ Department, Name of University/ Institution, Country

CURRENT POSITIONS
2017 – 2017 Current Position
Name of Faculty/ Department, Name of University/ Institution, Country

2007 – 2007 Current Position
Name of Faculty/ Department, Name of University/ Institution, Country

PREVIOUS POSITIONS
2007 – 2007 Position held
Name of Faculty/ Department, Name of University/ Institution, Country

2007 – 2007 Position held
Name of Faculty/ Department, Name of University/ Institution, Country

FELLOWSHIPS AND AWARDS
2007 – 2007 Award received from Name of Institution/Country

1991 – 1992 Scholarship, Name of Faculty/ Department Centre, Name of University/ Institution, Country

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS
2007 – 2007 Number of Positions: PhD/Master Students
Name of Faculty/ Department Centre, Name of University/ Institution, Country

TEACHING ACTIVITIES (if applicable)
2007 – 2007 Teaching position – Topic, Name of University/ Institution, Country

2007 – 2007 Teaching position – Topic, Name of University/ Institution, Country

ORGANISATION OF SCIENTIFIC MEETINGS (if applicable)
2017 – 2017 Please specify your role and the name of event / Country

2007 – 2007 Please specify type of event / number of participants / Country

INSTITUTIONAL RESPONSIBILITIES (if applicable)
2017 – 2017 Faculty member, Name of University/ Institution, Country

2007 – 2017 Graduate Student Advisor, Name of University/ Institution, Country

2007 – 2007 Member of the Faculty Committee, Name of University/ Institution, Country

2007 – 2007 Organiser of the Internal Seminar, Name of University/ Institution, Country

2007 – 2007 Member of the Editorial Board, Name of University/ Institution, Country

COMMISSIONS OF TRUST (if applicable)
2017 – 2017 Scientific Advisory Board, Name of University/ Institution, Country

2007 – 2007 Review panel member, Name of University/ Institution, Country

2007 – 2007 Scientific Advisory Board, Name of University/ Institution, Country

2007 – 2007 Reviewer, Name of University/ Institution, Country

MEMBERSHIPS OF SCIENTIFIC SOCIETIES (if applicable)
2017 – 2017 Member, Research Network, Name of Research Network

2007 – 2007 Associated Member, Name of Society/ Department Centre, Name of University/ Institution, Country

2007 – 2007 Funding Member, Name of Society/ Department Centre, Name of University/ Institution, Country

MAJOR COLLABORATIONS (if applicable)

Name of collaborators, Topic, Name of Faculty/ Department Centre, Name of University/ Institution, Country

CAREER BREAKS (if applicable)

Exact dates Please indicate the reason and the duration in months.
SECTION B1: CV

1b - CV (2 pagine)

- Attività scientifiche e accademiche
- Gaps nella carriera scientifica
- Main research lines and achievements
VALUTARE IL PROPRIO CV

Tenendo in considerazione i precedenti lavori e i principali risultati:

✓ Il PI è la persona giusta per portare avanti la ricerca proposta?
✓ Le pubblicazioni e i risultati ottenuti dimostrano che il PI:
  • È capace di pensare in modo creativo e indipendente
  • E’ capace di andare oltre lo stato dell’arte
  • E’ capace di essere innovativo nel suo settore di ricerca
✓ Considerando le condizioni specifiche del PI nonché la ricerca proposta, e considerando i finanziaamenti già ottenuti, il grant ERC permetterebbe al PI di avviare o consolidare la propria indipendenza?
SECTION B1: TRACK RECORD

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

(see ‘Information for Applicants to the Starting and Consolidator Grant 2014 Calls’– instructions for completing ‘Part B’ of the proposal)
SECTION B1: TRACK RECORD

1c – early achievement/ten years track record (2 pagine)

- Pubblicazioni (*StG e CoG: specificando quelle senza il PhD supervisors*) in importanti riviste internazionali
- Per-reviewed conferences proceedings
- Monografie
- Brevetti
- Invited presentations in conferenze internazionali
- Premi e concorsi
- Research expeditions
- Ecc.
SECTION B2: SCIENTIFIC PROPOSAL

ERC Starting Grant 2014
Research proposal (Part B2)\(^1\)

**Part B2: The complete proposal** (max. 10 pages)

Please refer to the following formatting instructions: Times New Roman, Arial or similar, at least font size 11, margins 2 cm side and 1.5 cm top and bottom, single line spacing.

Section a. State of the art and objectives

Section b. Methodology

---

\(^1\) Instructions for completing Part B2 can be found in the Information for Applicants to the Starting and Consolidator Grant 2014 Call."
SECTION B2: SCIENTIFIC PROPOSAL

Scientific Proposal

E’ la descrizione degli aspetti scientifici e tecnici della proposta, della natura innovativa e di rottura, il suo potenziale impatto e la metodologia di ricerca

Indicare:

- gli obiettivi della proposta
- il planning delle attività previste
- elementi circa l’esecuzione
- le risorse necessarie
LA PROPOSTA
B2: LA PROPOSTA SCIENTIFICA (1)

NON COPIARE O INCOLLARE PARTI DEL B2 NEL B1 E VICEVERSA!

• Non fare riferimenti al B2 nel B1 e viceversa.
• Ogni singola parte deve essere indipendente.
I progetti “rischiosi” sono molto apprezzati ma è necessario:

- Evidenziare che si è consapevoli dei rischi e di come gestirli
- Evidenziarne i potenziali benefici e l’impatto
- Presentare un “Piano B”
- La fattibilità deve essere chiara
- *Trovarne un equilibrio tra originalità e realismo*
La proposta deve essere comprensibile per valutatori del campo ma anche per i “generalisti”

Prestare attenzione agli acronimi e ai termini non inglesi

Grafici e tabelle sono raccomandati

Le figure devono essere chiare anche in bianco e nero

Includere le references più importanti

Non superare il limite di pp consentito
a. **State of the art and objectives**

- Specificare gli obiettivi del progetto
- Avanzamento rispetto allo stato dell’arte
- Spiegare in che modo e perché il progetto è importante per quel campo di ricerca, qualsiasi particolare aspetto non convenzionale o di sfida del progetto, inclusi aspetti multi o inter-disciplinari
SECTION B2 – PARAGRAFI

B. METODOLOGIA

- Descrivere la metodologia in modo dettagliato
- Identificare dei macro – obiettivi e gli obiettivi intermedi della ricerca
- Spiegare e giustificare la metodologia scelta, evidenziando gli aspetti nuovi o non-convenzionali (= ciò può definire una ricerca “innovativa”)
- Indicare gli step intermedi che potrebbero richiedere aggiustamenti al project planning
Strutturare l’attività di ricerca per “work package” o “Step” o “Phase”, indicando anche:

- le risorse (umane) coinvolte
- i tempi di svolgimento
- ed eventuali interazioni/sovrapposizioni con altri work packages
c. RESOURCES (INCL. PROJECT COSTS)  

Finanziati al 100%

Risorse umane:
✓ dimensione e natura del team (ricercatori senior o junior, studenti, post-docs, tecnici...)
✓ Ruolo di ciascun team member
✓ Short cv o profili dei soggetti da coinvolgere

Risorse economiche
✓ Tabella del budget (form incluso nel template)
✓ Motivare eventuali equipment da acquistare
✓ Descrivere le infrastrutture ed equipment già in dotazione
✓ Giustificare additional participants
## COST TABLE

<table>
<thead>
<tr>
<th>Cost Category</th>
<th>Total in Euro</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct Costs</strong></td>
<td></td>
</tr>
<tr>
<td>Personnel</td>
<td></td>
</tr>
<tr>
<td>PI</td>
<td></td>
</tr>
<tr>
<td>Senior Staff</td>
<td></td>
</tr>
<tr>
<td>Postdocs</td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
<tr>
<td><strong>i. Total Direct costs for Personnel (in Euro)</strong></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td></td>
</tr>
<tr>
<td>Equipment</td>
<td></td>
</tr>
<tr>
<td>Other goods and services</td>
<td></td>
</tr>
<tr>
<td>Consumables</td>
<td></td>
</tr>
<tr>
<td>Publications (including Open Access fees, etc.)</td>
<td></td>
</tr>
<tr>
<td>Other (please specify)</td>
<td></td>
</tr>
<tr>
<td><strong>ii. Total Other Direct Costs (in Euro)</strong></td>
<td></td>
</tr>
<tr>
<td>A – Total Direct Costs (i + ii) (in Euro)</td>
<td></td>
</tr>
<tr>
<td>B – Indirect Costs (overheads) 25% of Direct Costs (in Euro)</td>
<td></td>
</tr>
<tr>
<td>C1 – Subcontracting Costs (no overheads) (in Euro)</td>
<td></td>
</tr>
<tr>
<td>C2 – Other Direct Costs with no overheads (in Euro)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Estimated Eligible Costs (A + B + C) (in Euro)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Total Requested EU Contribution (in Euro)</strong></td>
<td></td>
</tr>
</tbody>
</table>

The project cost estimation should be as accurate as possible. Significant mathematical mistakes may reflect poorly on the credibility of the budget table and the proposal overall. The evaluation panels assess the estimated costs carefully; unjustified budgets will be consequently reduced.

The requested contribution should be in proportion to the actual needs to fulfill the objectives of the project.

**For the above cost table, please indicate the % of working time the PI dedicates to the project over the period of the grant:**

- %
ANNEX ETICO

PART A – online forms
A1: Proposal and PI info
A2: HI info
A3: Budget

PART B1 – pdf
Extended Synopsis: 5 pp
CV: 2 pp
Track Record: 2 pp

PART B2 – pdf
Proposal: 15 pp

Annexes – pdf
Support letter HI
Annex Ethical Issues (if applicable)
GRAZIE PER L’ATTENZIONE!

I TUOI NATIONAL CONTACT POINT
Informazione e assistenza dall’idea all’implementazione del progetto

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