



Societal challenge "Health, demographic change and well-being"

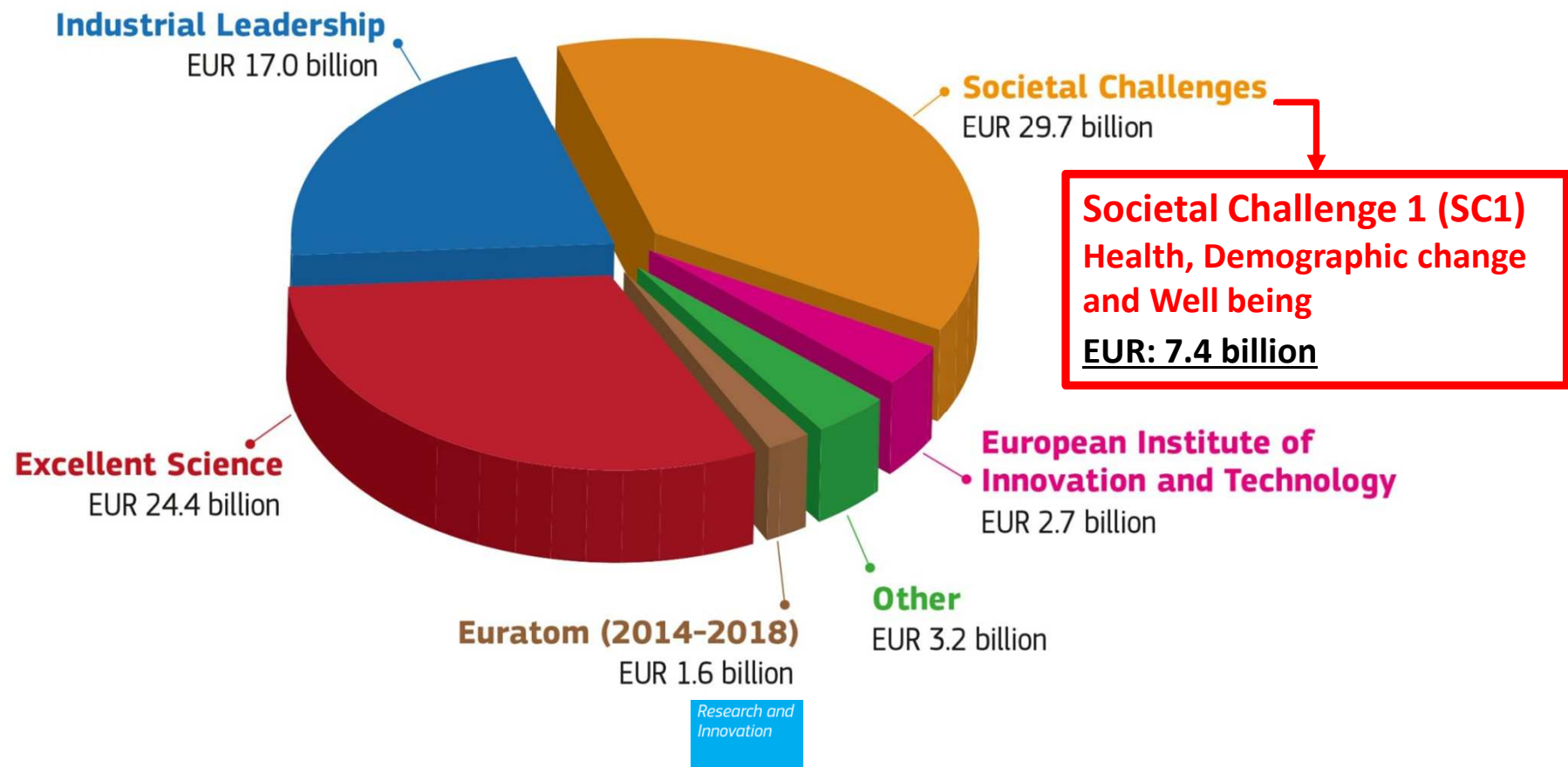
*2017 call for proposals info day
Warsaw, 7 June 2016*

**Charles Kessler
European Commission, Brussels
DG Research and Innovation**

Content

- **Background**
- **Calls**
 - **Single stage**
 - **Two stage**
 - **Evaluation**
- **Regenerative medicine calls – results so far**

Horizon 2020 budget breakdown





Health research - opportunities for different communities and purposes



OBJECTIVE



- **Better health for all**
- **A more competitive European health industry and care sector**
- **Maximising the digital potential**
- **Addressing health as a global challenge**





Single-stage evaluation topics

- **SC1-PM-03-2017: Diagnostic characterisation of rare diseases (€15 million)***
- **SC1-PM-11-2016-2017: Clinical research on regenerative medicine (€30 million)***
- SC1-PM-15-2017: Personalised coaching for well-being and care of people as they age
- SC1-PM-16-2017: In-silico trials for developing and assessing biomedical products
- SC1-PM-17-2017: Personalised computer models and in-silico systems for well-being
- SC1-PM-19-2017: PPI for uptake of standards for the exchange of digitalised healthcare records
- **SC1-PM-20-2017: Development of new methods and measures for improved economic evaluation and efficiency measures in the health sector (€9 million)***
- SC1-HCO-03-2017: Implementing the Strategic Research Agenda on Personalised Medicine (ERA-Net CoFund)
- **SC1-HCO-07-2017: Global Alliance for Chronic Diseases – mental disorders (€24 million)***
- **SC1-HCO-08-2017: Actions to bridge the divide in European health research and innovation (CSA – 1 million)***

***Open - 15 July 2016; close – 11 April 2017**



Two-stage evaluation topics

- **SC1-PM-02-2017: New concepts in patient stratification (€44 million)**
- **SC1-PM-07-2017: Promoting mental health and well-being in the young (€20 million)**
- **SC1-PM-08-2017: New therapies for rare diseases (€65 million)**
- **SC1-PM-10-2017: Comparing the effectiveness of existing healthcare interventions in the adult population (€44 million)**

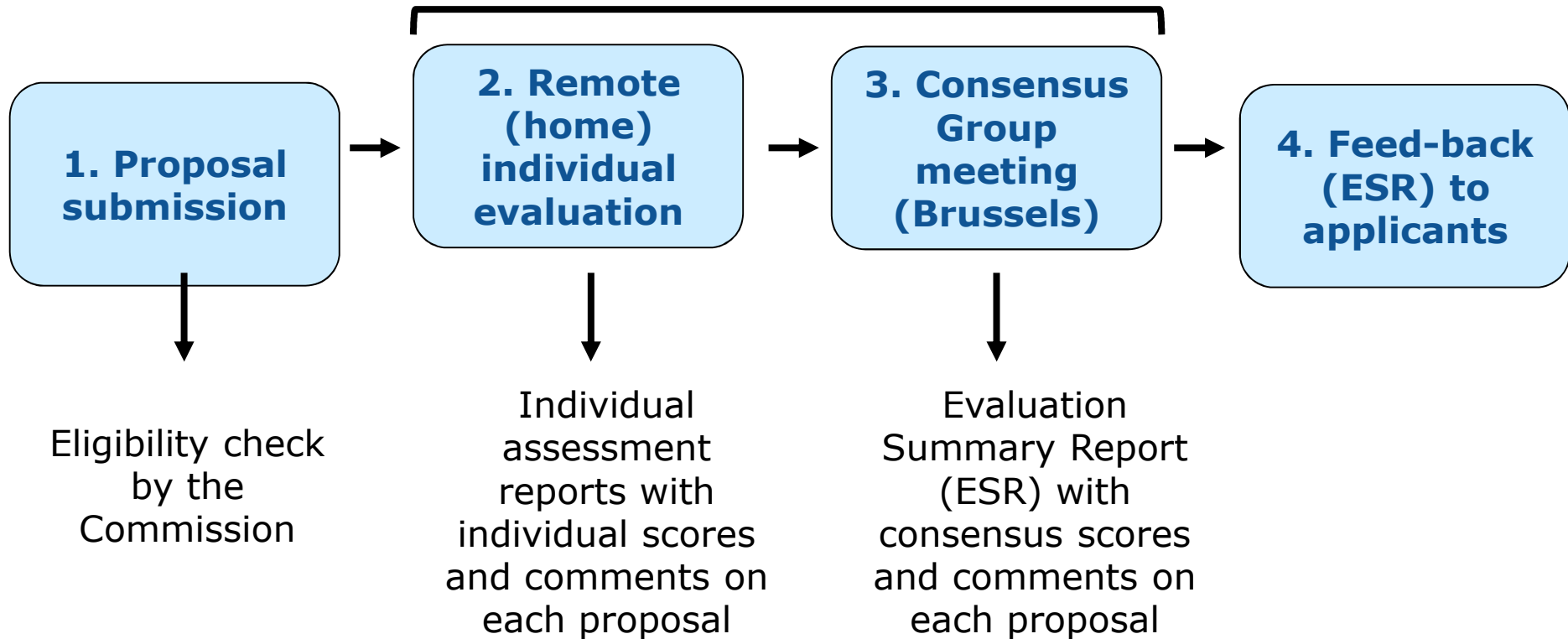
Open: 15 July 2016

Close (Stage 1): 4 October 2016

Close (Stage 2): 11 April 2017

Single-stage evaluation process

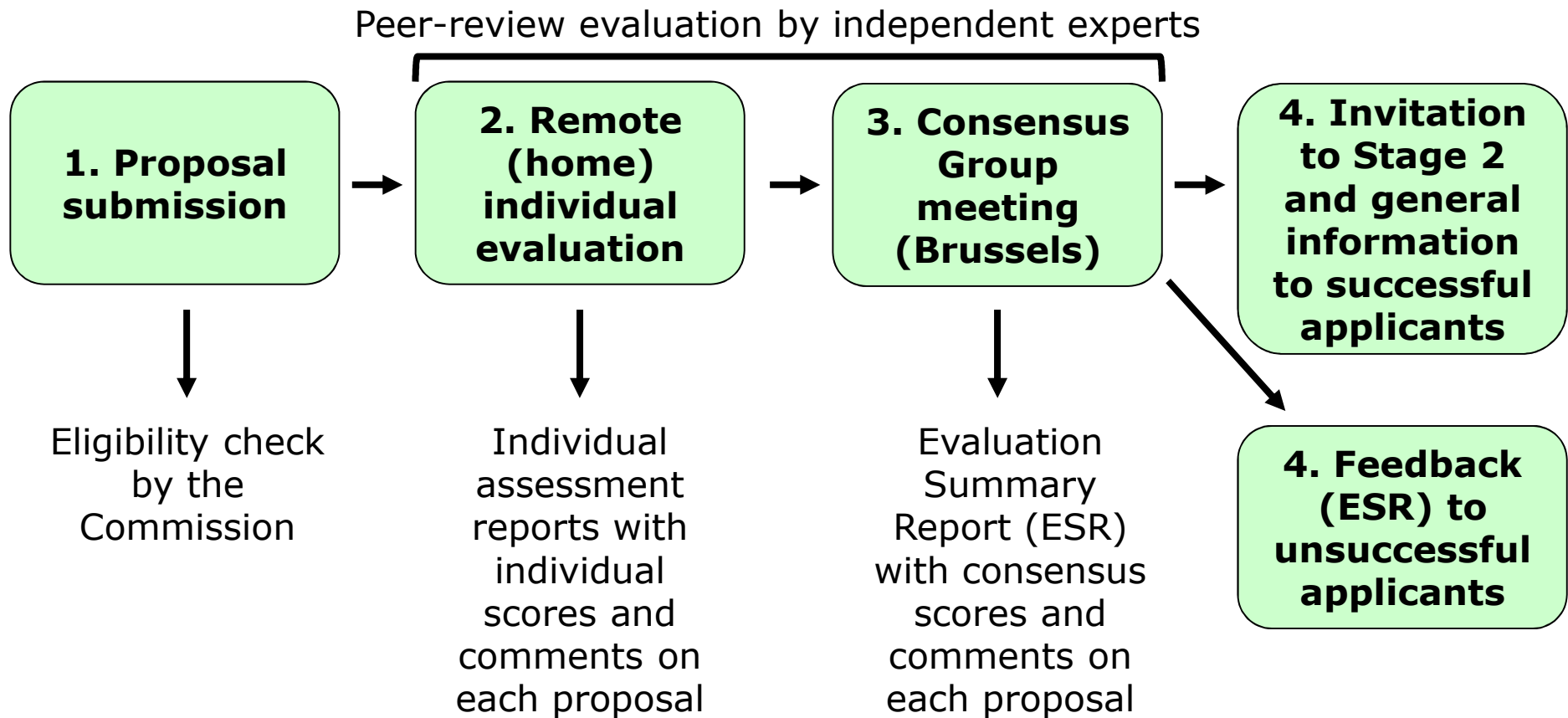
- *Peer-review evaluation by independent experts*



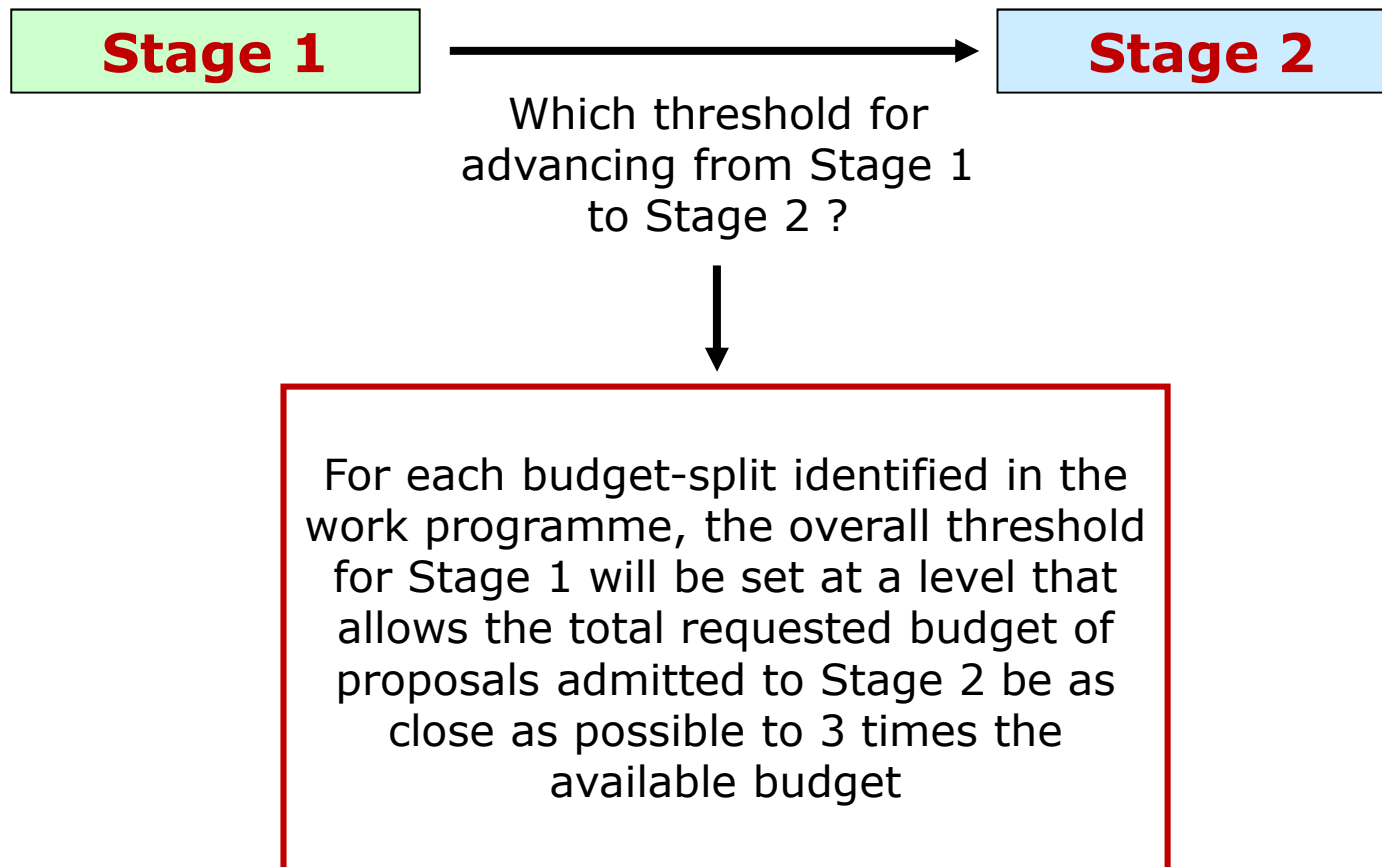


Two-stage evaluation process

Stage 1



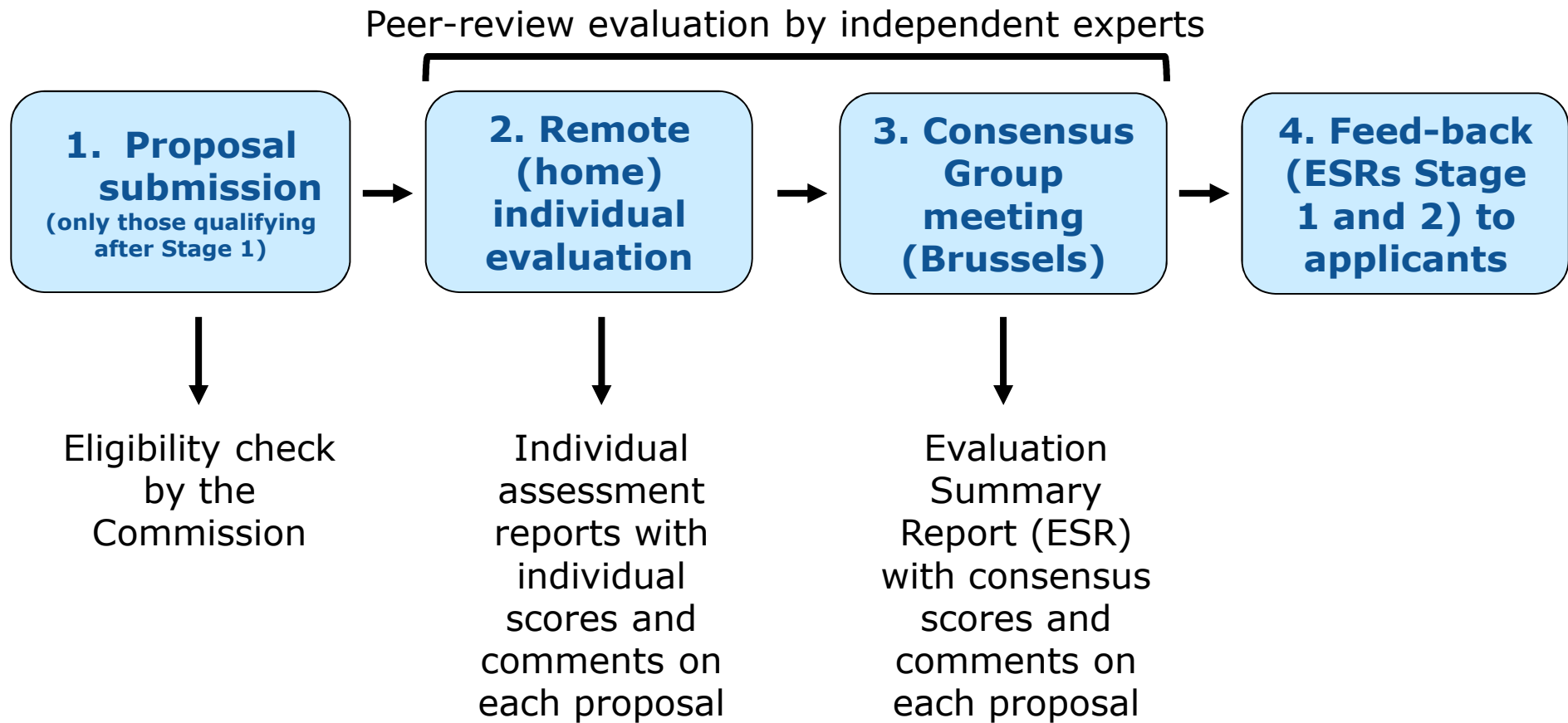
Two-stage evaluation process





Stage 2

Two-stage evaluation process



PHC 15 - 2014/2015: Clinical research on regenerative medicine

13 Projects
€74.3 Million

Project Acronym	Area covered/Condition	Approach/Technology
TREGeneration	GvHD (chronic)	Allogeneic Treg lymphocytes
RETHRIM	GvHD (acute)	Allogeneic MSC (bone marrow-derived)
SCIENCE	Ischemic heart disease	Allogeneic adipose-derived MSC
ADIPOA2	Osteoarthritis	Autologous adipose-derived MSC
SC0806	Spinal cord injury	Recombinant growth factor + device
ARISE	Heart valve	Allogeneic decellularized aortic valve
NISCI	Spinal cord injury	Antibodies against Nogo-A
BOOSTB4	Osteogenesis imperfecta	Allogeneic MSC (fetal-derived)
RESSTORE	Stroke	Allogeneic adipose-derived MSC
SEPCELL	Sepsis	Allogeneic adipose-derived MSC
TETRA	Trachea (severe airway disease)	Autologous MSC + decellularized trachea scaffold
BetaCellTherapy	Type-1 diabetes	Encapsulated progenitor cells (hESC-derived)
BIO-CHIP	Knee cartilage injury	Autologous nasal chondrocytes

Expected outcome: New regenerative medicine therapies

PHC 16 - 2015: Tools and technologies for advanced therapies

6 Projects
€34.6 Million

Project Acronym	Area covered/Condition	Approach/Technology
CARAT	Cancer	Closed and automated system genetically modified ATMPs
LSFM4LIFE	Type 1 diabetes	Endocrine cells derived from human pancreas organoids
HemaCure	Hemophilia	Combined gene and cell therapy within an implantable therapeutic device (Cell Pouch TM)
Technobeat	Myocardial infarction	GMP production of human induced pluripotent stem cells
Arrest Blindness	Corneal blindness	Implantation of bioengineered scaffolds + delivery of endothelial cells/regenerative factors
Autostem	Cell therapy	closed, scalable and AUTOMated robotic systems for therapeutic STEM cell manufacturing

Expected outcome: Tools and technologies enabling establishment of new therapies or patient interventions

SC1-PM-11-2016-2017

Clinical research on regenerative medicine

- **Clinical research – any stage; proof of regulatory engagement**
- **Collaborative research – min 3EU/assoc countries**
- **Indicative budget: €30 million 2016 + €30 million 2017**
- **Deadlines: 13 April 2016 + 11 April 2017 (tbc)**

SMEInst-05-2016-2017

Supporting innovative SMEs in the healthcare biotechnology sector

- **Topic: Cell technologies in medical applications**
- **SME Instrument – 1 SME only (can subcontract)**
- **Phase 1 – Feasibility study (€50,000 lump sum)**
- **Phase 2 – Research/innovation**
- **Indicative budget: €35 million 2016 + €35+ million 2017**
- **Multiple deadlines starting February 2016**

Regenerative medicine R&D - issues

- **Bottlenecks – slowing progress**
 - **The regulatory maze**
 - Multicentre/multinational
 - Developers – academic clinics, medical charities, SMEs
 - **Manufacturing, esp GMP compliance**
- **Broaden participation and range of technologies**

PARTICIPANT PORTAL

Unique entry point

<http://ec.europa.eu/research/participants/portal>

Information available on the **participant portal** includes **all you have to know** about our programmes and about submitting a proposal

The screenshot shows the top section of the 'Participant Portal' website. At the top right, there are links for '(A-Z) Sitemap About this site Contact Legal Notice Search' and a language dropdown set to 'English'. Below this is the European Commission logo and the text 'RESEARCH & INNOVATION Participant Portal'. A navigation bar contains 'HOME', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'EXPERTS', and 'SUPPORT'. A search bar and 'LOGIN'/'REGISTER' buttons are also present. The main content area features a 'Horizon 2020 Funding' banner with the text 'Starting from 1/1/2014'. Below the banner, it states: 'On this site you can find and secure funding for research & innovation projects under the following EU programmes:'. It lists two programmes: '2014-2020 Horizon 2020 - research and innovation framework programme' and '2007-2013 7th research framework programme (FP7) and Competitiveness & Innovation Programme (CIP)'. There are two columns of user actions: 'Non-registered users' (search for funding, read the H2020 Online Manual & download the legal documents, check if an organisation is already registered, contact our support services or check our FAQs) and 'Registered users' (submit your proposal, sign the grant, manage your project throughout its lifecycle). At the bottom, there is a row of six icons with labels: 'WHAT'S NEW?', 'FUNDING OPPORTUNITIES', 'HOW TO PARTICIPATE', 'WORK AS AN EXPERT', 'MY PERSONAL AREA', and 'INFORMATION AND SUPPORT'. The footer contains '© European Communities' and 'HORIZON 2020 RESEARCH ON EUROPA CORDIS OLAF'.

New evaluators welcome





Further information

Results:

<http://cordis.europa.eu/>

Info day:

<http://ec.europa.eu/research/health/index.cfm>

Thank you for your attention

Charles.Kessler@ec.europa.eu