European Commission

eic European **INNOVATION** Council

EMPOWERING EUROPEAN INNOVATORS

EU funding
for innovation

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DG Research and Innovation
European Commission

Research and Innovation

What's holding back European innovation

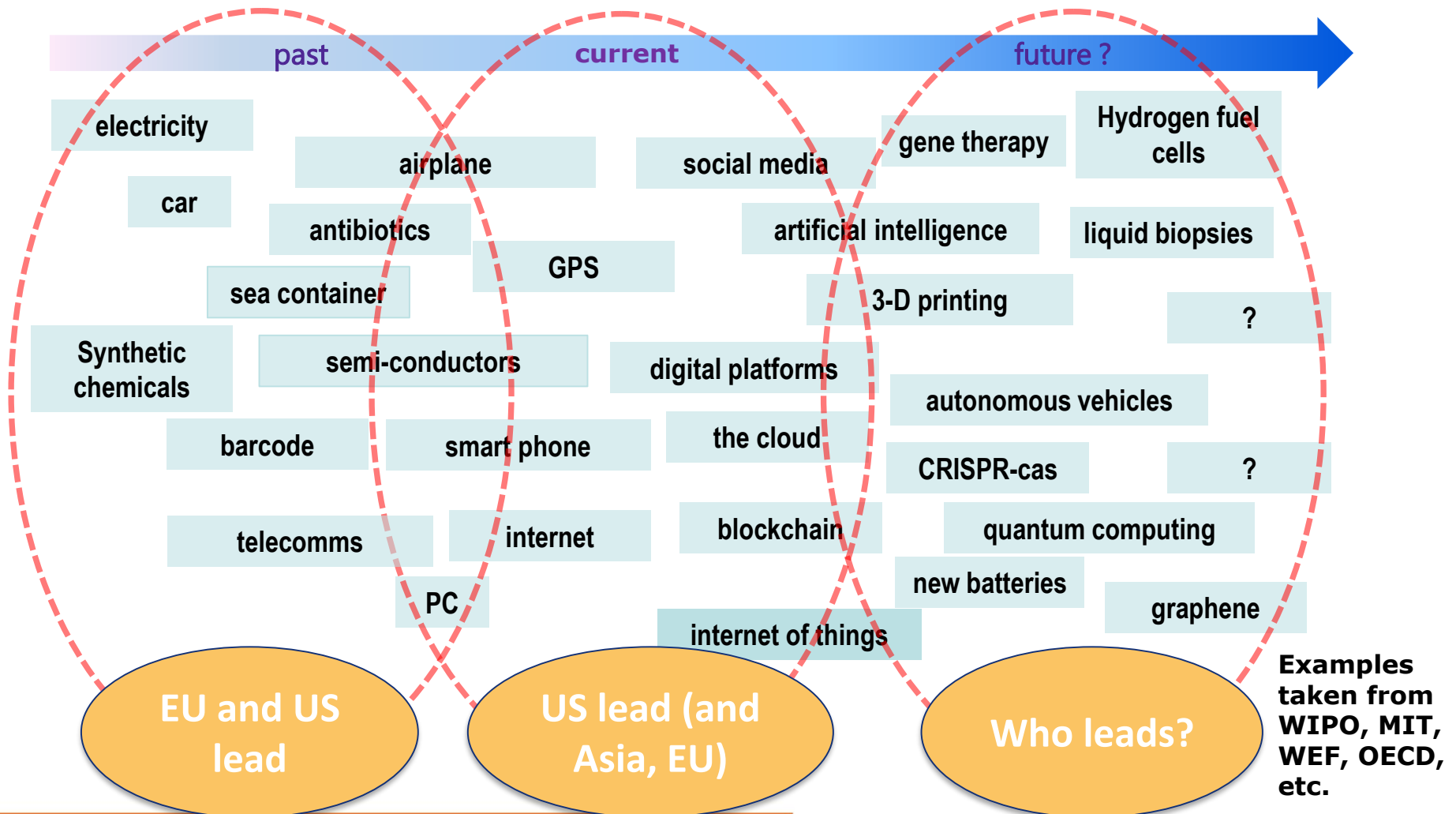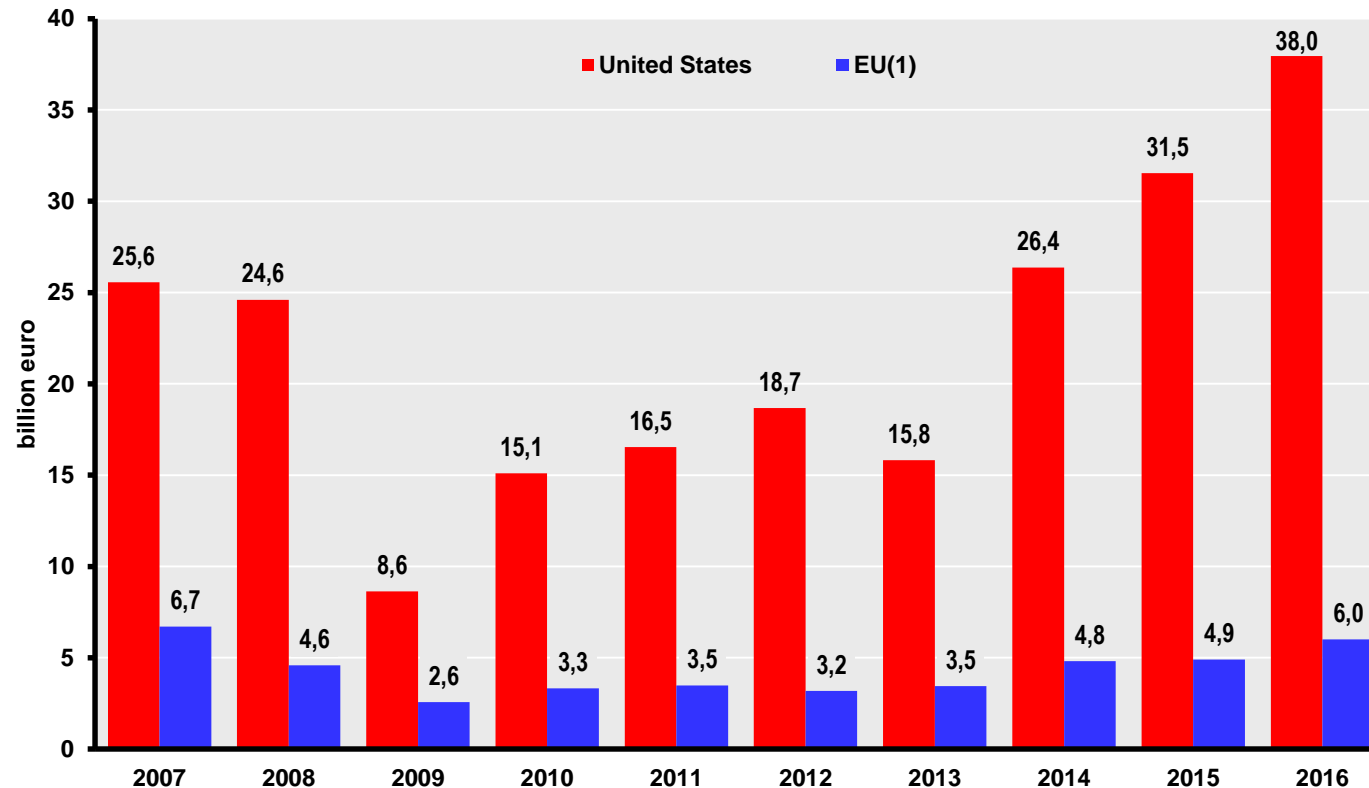|	
Innovation performance	Lack of **breakthrough and disruptive innovations** that create new markets
Innovation funding	**Financing gap** between R&D grants and private investment **for scaling up** innovative start-ups
Innovation ecosystem	Many national & local ecosystems, but **fragmented at European level**

Who will lead the next wave of breakthrough and disruptive innovation?

past   current   future ?

electricity

airplane

social media

gene therapy

Hydrogen fuel cells

car

antibiotics

artificial intelligence

liquid biopsies

GPS

3-D printing

?

sea container

Synthetic chemicals

semi-conductors

digital platforms

autonomous vehicles

barcode

smart phone

the cloud

CRISPR-cas

?

telecomms

internet

blockchain

quantum computing

new batteries

PC

graphene

internet of things

EU and US lead

US lead (and Asia, EU)

Who leads?
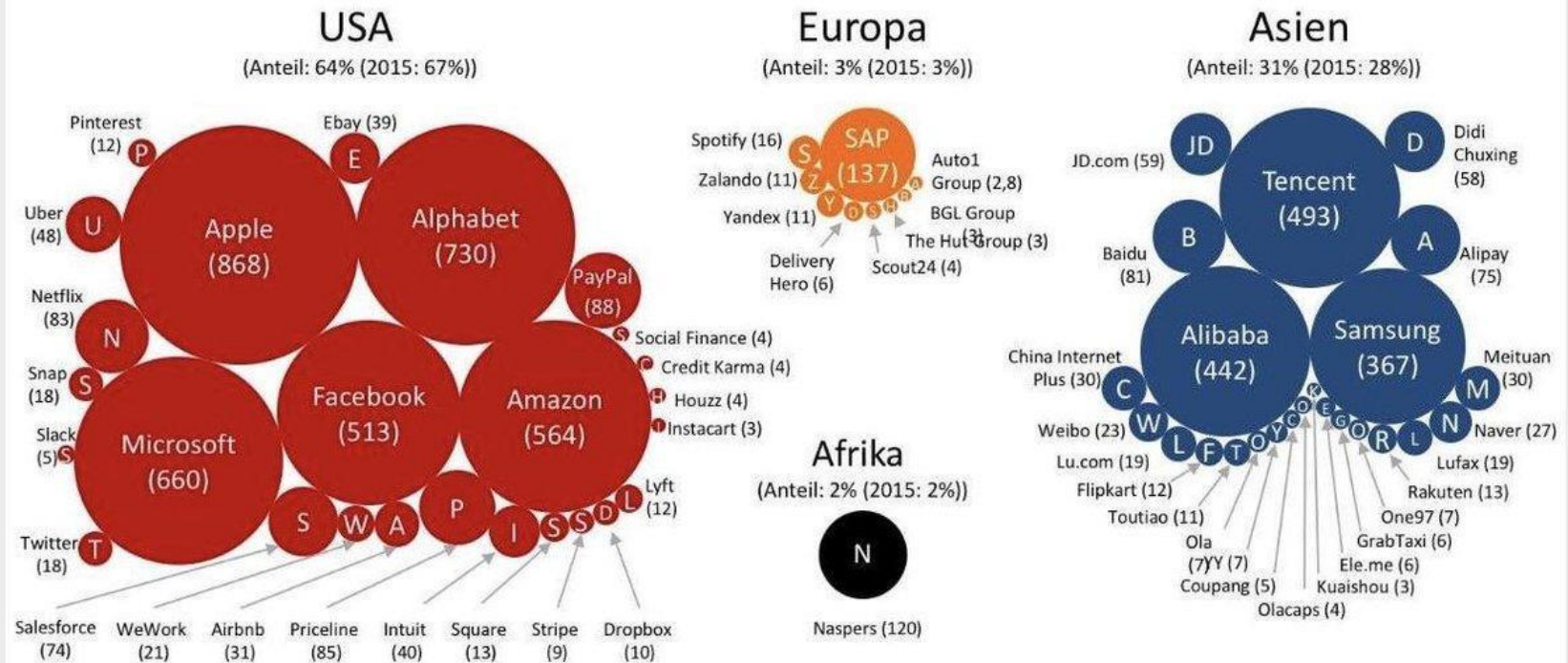
Examples taken from WIPO, MIT, WEF, OECD, etc.

Financing gap: venture capital US vs EU

Venture capital raised. Data: Invest Europe, NVCA / Pitchbook. (1) EU does not include HR, CY, MT, SI, SK.
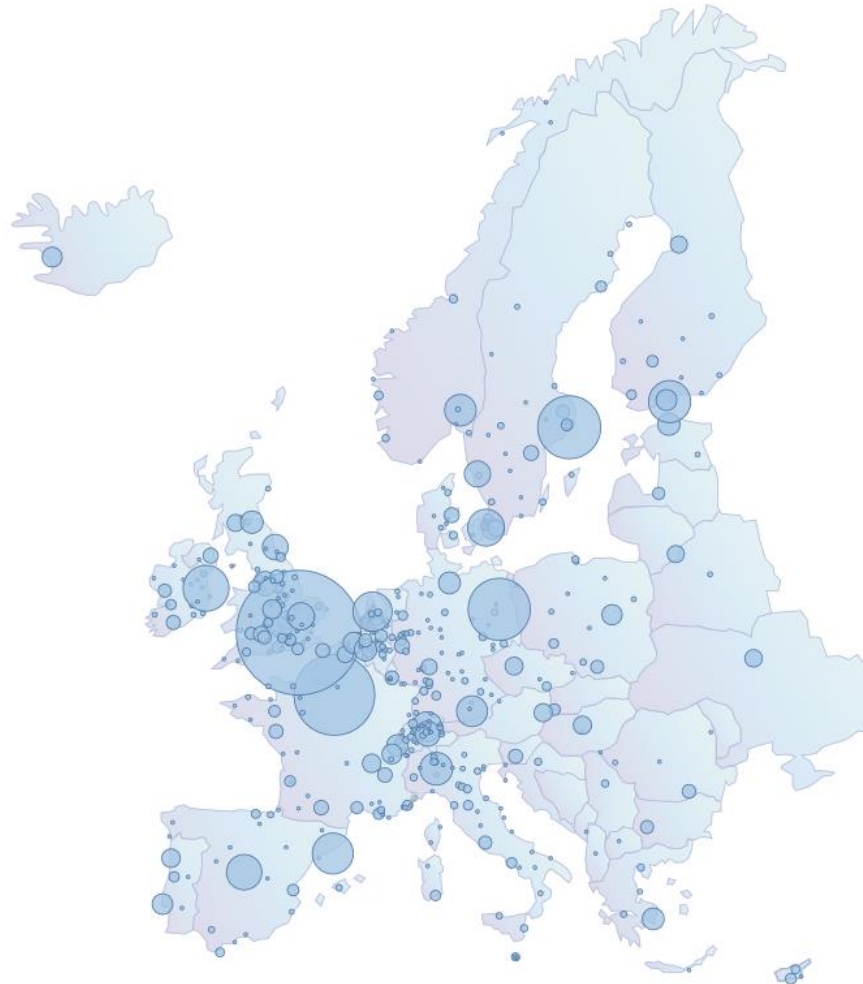
Global Fast-growing Innovative Companies

Die 60 wertvollsten Plattformen der Welt (Mrd. Dollar (Börsenwert; jüngste Finanzierung / Stand 31. Dezember 2017))

USA
(Anteil: 64% (2015: 67%))

Pinterest (12) P
Ebay (39) E
Uber (48) U
Apple (868)
Alphabet (730)
PayPal (88)
Netflix (83) N
Snap (18) S
Facebook (513)
Amazon (564)
Social Finance (4) S
Credit Karma (4) C
Houzz (4) H
Instacart (3) I
Slack (5) S
Microsoft (660)
Twitter (18) T
S W A P I S S D L Lyft (12)

Salesforce (74)
WeWork (21)
Airbnb (31)
Priceline (85)
Intuit (40)
Square (13)
Stripe (9)
Dropbox (10)

Europa
(Anteil: 3% (2015: 3%))

Spotify (16)
Zalando (11)
Yandex (11)
SAP (137)
Auto1 Group (2,8)
BGL Group (3)
The Hut Group (3)
Delivery Hero (6)
Scout24 (4)

Afrika
(Anteil: 2% (2015: 2%))

N

Naspers (120)

Asien
(Anteil: 31% (2015: 28%))

JD.com (59)
JD
Tencent (493)
Didi Chuxing (58) D
Baidu (81) B
A Alipay (75)
China Internet Plus (30) C
Alibaba (442)
Samsung (367)
Meituan (30) M
Naver (27)
Weibo (23) W
L F T O Y O E G O R L
Lufax (19)
Lu.com (19)
Flipkart (12)
Toutiao (11)
Ola (7)
YY (7)
Coupang (5)
GrabTaxi (6)
Ele.me (6)
Kuaishou (3)
Olacaps (4)
Rakuten (13)
One97 (7)

Quelle: Netzoekonom.de / Idee: Peter Evans

Dr. Holger Schmidt | Netzoekonom.de | Handelsblatt | TU Darmstadt | Ecodynamics.io | Platformeconomy.com

European tech ecosystems are rich but can only reach their full potential if better interconnected

Map of the 476 European cities with at least one scale-up company, Startup Europe "Startup City Hubs in Europe" 2018 report

The European Innovation Council

One stop shop for breakthrough & disruptive innovators

Open to all innovators, in any field, at any time

Highest potential innovators selected on basis of ideas and team

Agile funding from idea to investment

Pathfinder grants for advanced research on emerging technologies
Accelerator funding for innovative start-ups (<€2.5 million grant, <€15 million equity)
Crowding in private investment (VC, Invest EU)

Building ecosystems and communities

Access to mentoring and advisory services and to knowledge partners (e.g EIT)
Expert Programme Managers to engage with projects and communities
Prizes for breakthrough technologies

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The EIC story

"Europe does not yet have a world class scheme to support the very best innovations in the way that the European Research Council is the global reference for supporting excellent science. So I would like us to take stock of the various schemes to support innovation and SMEs under Horizon 2020, to look at best practice internationally, and to design a new European Innovation Council."

Carlos Moedas, European Commissioner for Science & Innovation, June 2015.

Research and Innovation

Designed together with leading innovators

Accelerating breakthrough innovation report, January 2018

Nicklas Bergman

Martin Bruncko

Paddy Cosgrave

Gráinne Dwyer

Hermann Hauser

Marjolein Helder

Taavet Hinrikus

Ingmar Hoerr

Bindi Karia

Jana Kolar

Carlos Oliveira

Jim Hagemann Snabe

Kinga Stanislawska

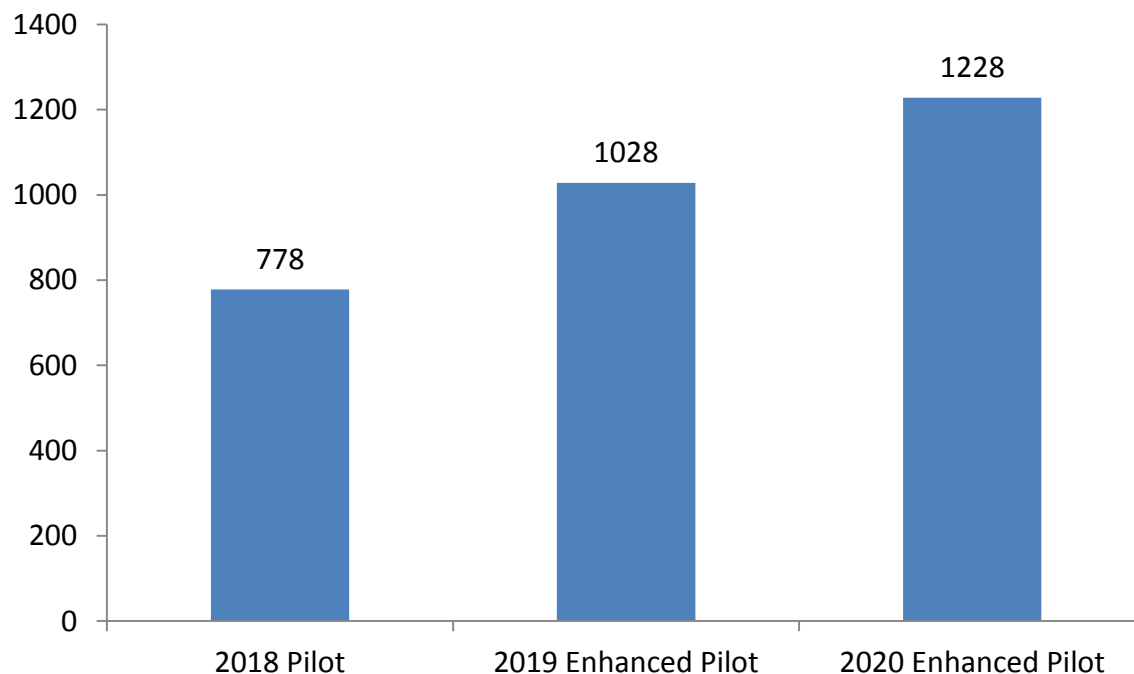Constantijn van Oranje

Roxanne Varza

European Commission

Supported by EU leaders

*"We will only succeed if we are the ones creating, developing and producing new technologies.
That is why we need: a strong EU commitment to disruptive innovation within the framework of the European Innovation Council (E IC). The goal is to support very high risk deep tech projects at the European level"*

A Franco-German Manifesto for a European industrial policy fit for the 21st Century, February 2019

First phase launched in 2018

✓ Bringing together relevant Horizon 2020 schemes in one place *(SME instrument, Fast Track to Innovation, FET Open, Prizes)*

✓ Introduction of open support for Start-ups and SMEs (no predefined themes)

✓ Introduction of interviews with experienced innovators to select SMEs for funding

✓ Launch of major prizes for breakthrough innovations, e.g low cost space launcher (€10 million prize); artificial photosynthesis (€5 million prize)

✓ Total budget in 2018 of €778 million (for all EIC pilot actions)

EIC SME Instrument Phase II (up to €2.5m in grant)

⟹ 6000 applications received by start-ups or SMEs *(for SME phase 2 grants)*

⟹ Majority combining different fields*: digital, energy, manufacturing, health, etc.*

⟹ 520 interviewed for 250 awarded funding

⟹ Fast process (*grant awarded in under 4 months)*

Second phase launched in 2019

- ✓ **Increased budget of €2.2 billion** (€1.0bn in 2019; €1.2bn in 2020)

- ✓ **Introduction of pilot accelerator** with option to apply for blended finance (combined grant and equity – *call opens on 5th June 2019*)

- ✓ **Introduction of pilot pathfinder**, with 6 strategic emerging technologies targeted *(human-centric AI, novel medical devices, zero-emission energy generation, etc; call open now)*

- ✓ **New EIC Advisory Board** to bring in leading innovators for ongoing design & implementation *(call for applications open until 10th May)*

- ✓ **First EIC programme managers** recruited to actively engage with pathfinder projects *(call for applications coming soon)*

Full EIC under Horizon Europe (2021-27)

✓ **Proposed budget of €10 billion**

✓ **Dedicated governance with EIC President and Advisory board**

✓ **More flexible rules for funding** (ability to stop or reorient, links to Invest EU) with increased role for expert **programme managers**

✓ **Full accelerator** funding with both grant and blended finance

✓ **Full pathfinder scheme** for grants in advanced research and transition activities

✓ **Fast track access** for Horizon grant holders (incl. European Research Council) and certified national schemes

✓ **Creation of EIC Forum** with Member States innovation agencies

Find out more

ec.europa.eu/research/eic

#EU_EIC

"[The EIC alone will not create global champions. What it will do is create a European Champions' League]"

European Commission

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