

Some international experiences on building experimental innovation and growth policy

Experimentation in Federal Funding - National Academies - March 2023

Albert Bravo-Biosca
Director, Innovation Growth Lab, Nesta & BSE



The Innovation Growth Lab

IGL is a global non-profit initiative that works to **increase the impact of innovation and growth policy**, by ensuring that it is informed by **new ideas**, increased **experimentation**, and **robust evidence**.

We work at the intersection of **research and policy**, where we help organisations become more **experimental**, test **ideas**, and **learn** from each other.

We have worked with **over 35 government agencies** across 5 continents to help them become more experimental, and have **supported over 70 trials in 28 countries**.

These are the four pillars of our work:



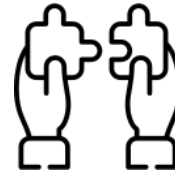
Research



Policy



Community



Skills

A global community for better policy through experimentation



The IGL Partners

Government ministries, innovation agencies and foundations from around the world.



**London
Business Hub**



nesta



Some of the other organisations we work with



The IGL Research Network

Over 100 researchers from around the world working in the fields of innovation, entrepreneurship, productivity and growth.



IGL Scientific Committee

Nick Bloom Stanford Business School | **Dietmar Harhoff** Max Planck Institute for Innovation & Competition | **Karim Lakhani** Harvard Business School | **Josh Lerner** Harvard Business School | **Fiona Murray** MIT Sloan | **Mark Schankerman** LSE | **Scott Stern** MIT Sloan | **John Van Reenen** LSE | **Reinhilde Veugelers** KULeuven | **Heidi Williams** Stanford University

What is an experiment?

~~Trying something new~~

~~Common use~~

“a **test done in order to learn** something or to discover if something works or is true”

Cambridge English Dictionary

→ **Learning** is the priority; **intentionally** test hypotheses in a **structured** way, and within set **timeframes**

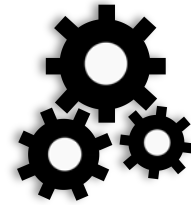
Experimentation is valuable



Novel solutions to
policy challenges



De-risk
new programmes



Continuous
improvement



Time-limited unless
demonstrated impact



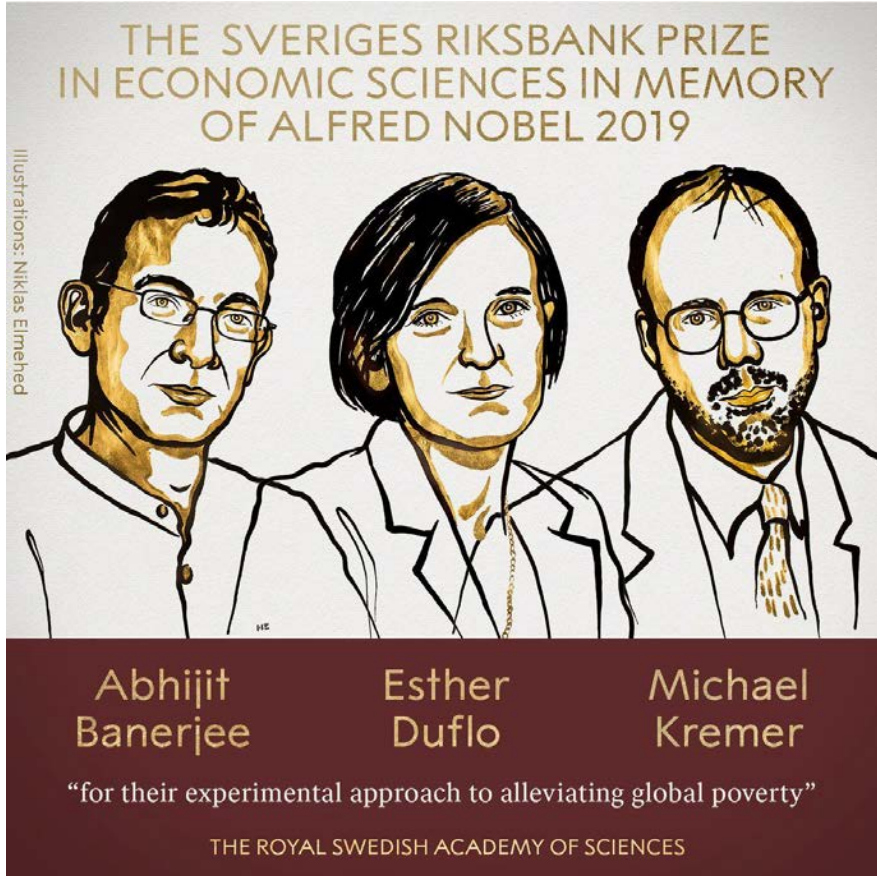
Better evidence &
decisions



Save money

More impactful policies & better value-for-money

Becoming more experimental



Traditional approach

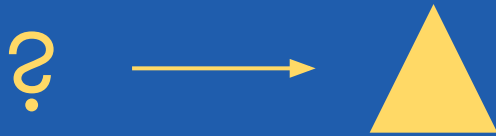
Launch a large programme without prior small-scale testing, with one design and the hope that it will work



Experimental policy

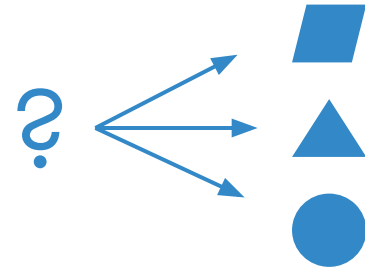
Start small, trial different designs systematically, learn what works to increase impact and scale it up

Policymakers often face challenges **without clear solutions**. Many options are considered but typically only one is taken forward



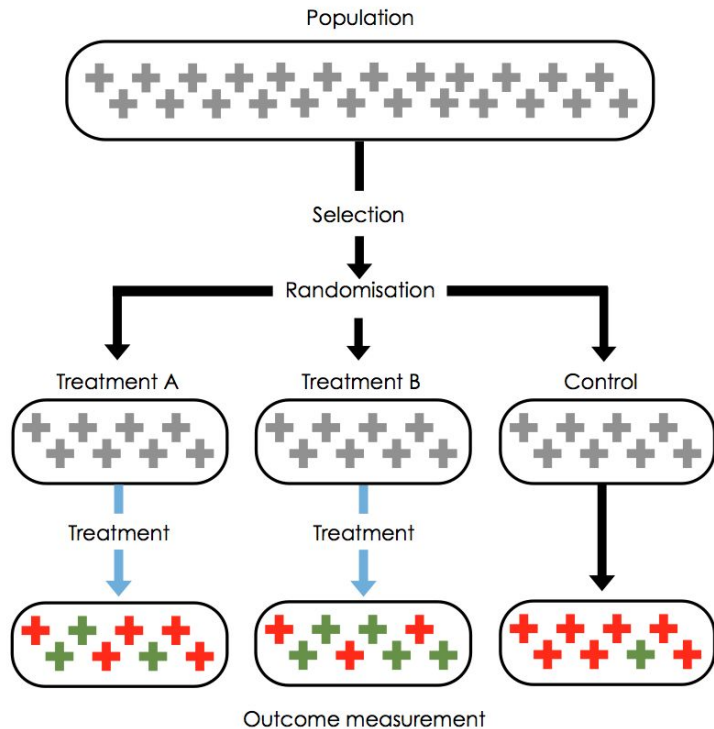
Under pressure to act, this is usually an existing approach

Could other options have proved more effective?
Could new solutions be explored? If so, how can we tell which ones work?

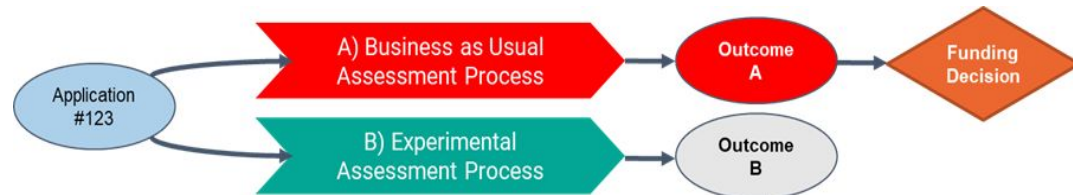


How can an organisation develop and **test new ideas systematically**?

Lots of ways to use RCTs...



- **Evaluation experiments:** Impact evaluation of new programme or changes in the design of an existing one
- **Optimisation experiments:** Testing small tweaks in implementation process (rapid fire A/B testing)
- **Randomised encouragement designs:** Evaluate the impact of a programme without blocking access for anyone
- **Shadow experiments:** As experiment where the tested variation happens in the shadow of the current approach. For example, running parallel assessment processes but with only one used to inform actual decisions



Example: Competitive funding calls



What programme features do recipients value? (marketing trials focused on different features)

How can we get more/better applications, increasing diversity in ideas and backgrounds, and engaging with communities beyond the field (eg nudging trials)

How to support applicants to develop new collaborations and prepare better applications?

How to improve the selection processes? (eg behavioural biases)



Insufficient applications

Wrong projects selected

Projects/firms delayed or fail

Does providing written feedback adds value? (eg startup chile)

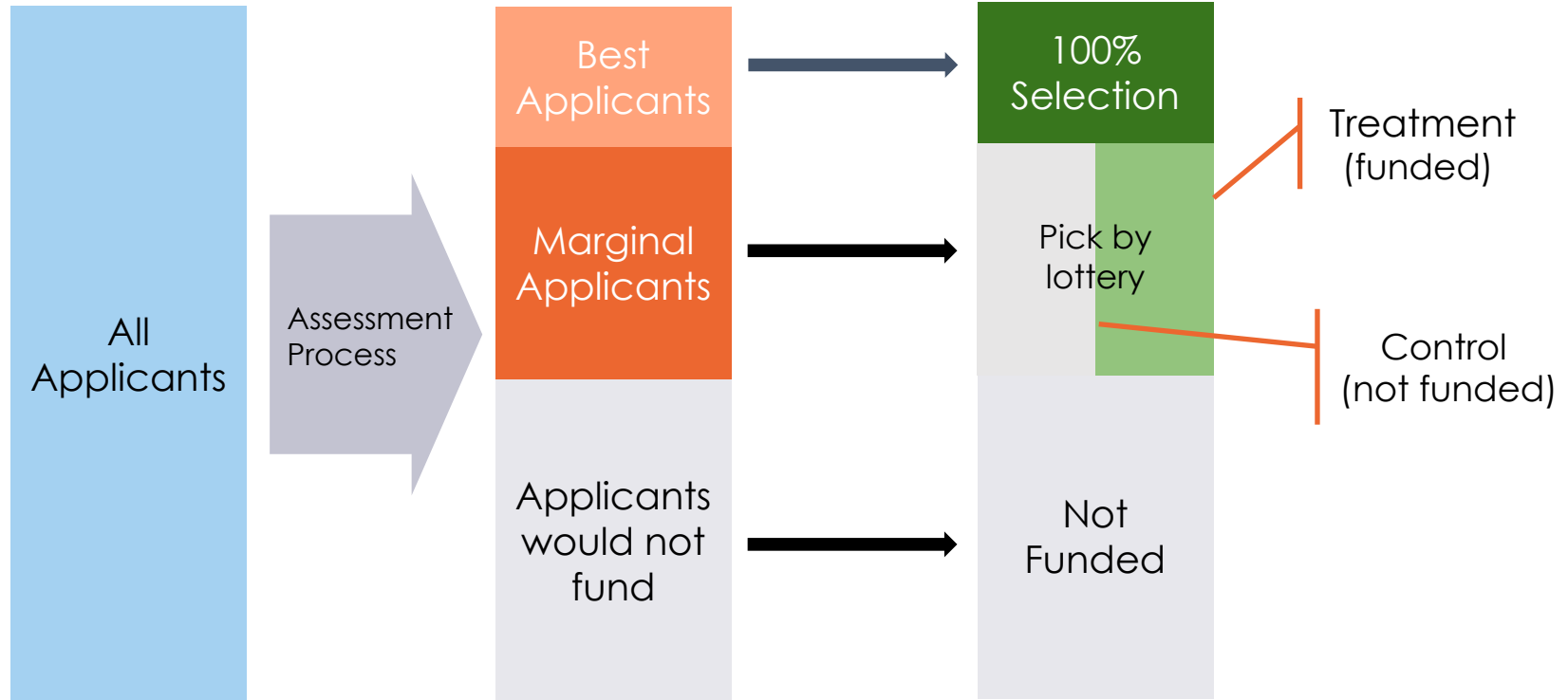
How to meet programme KPIs, such as time-to-grant?

What will be done with applicants turned down?

Is there a need for additional support for funding recipients?

How to increase the commercialisation and/or application of the knowledge produced?

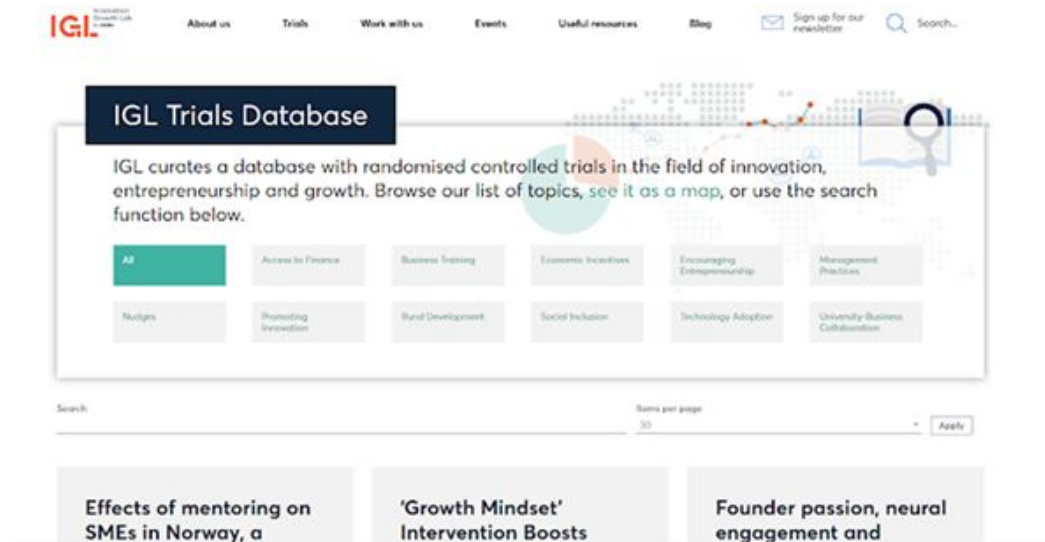
In these circumstances perhaps a lottery could be used to allocate funding, opening the possibility of using this as the basis for an impact evaluation



For more inspiration see....



[The RoRI-IGL Experimental Research Funder's Handbook](#)



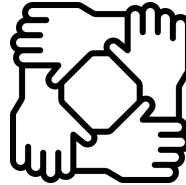
Our online [Trials Database](#) providing details of more than 150 RCTs in the field of innovation and growth

Becoming an experimental organisation is a journey



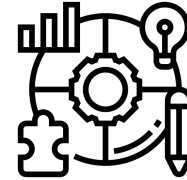
Mindset

“What if?”



Culture

Organisational
flexibility and
openness to failure



Method

Clear ex-ante learning
strategy (RCTs,
prototyping, ethnography,
mixed methods, etc)

Experimental organisations: Openness vs capabilities

Openness to experiment refers to an agency's willingness to learn, being open about uncertainty and embracing experimental methods and the benefits of randomisation to inform decisions.

Capabilities to experiment refer to specific skills and resources that agencies need to successfully run an experiment. This includes access to data infrastructures, research and evaluation capabilities and RCT expertise.

Categories of innovation agencies according to their maturity to experiment



Example: TAFTIE Experiment! Taskforce



A 2-year taskforce led by IGL & TAFTIE with 17 European innovation agencies on experimentation, providing participants with:



- a. **Capacity building** covering the wide range of skills needed to experiment – building on IGL’s years-long experience of helping government agencies experiment;
- b. **Practical sessions** in ideation, experiment design, and exploitation of results – all focusing on real life challenges faced by participating agencies;
- c. Opportunities for **peer learning** – allowing policymakers to exchange ideas and concerns and learn from each other’s experiences.

Starting small tends to be more effective



FFG
Promoting Innovation.



Department for
Business, Energy
& Industrial Strategy

Incentives & signals can be very effective



- 1) Send a strong signal by **explicitly welcoming RCTs** in existing policies & funding calls (offering to cover associated costs and/or addressing misconceptions about their eligibility)
- 2) Setting up **experimentation funds** that identify, fund and test new ways to support innovation from across the ecosystem.



Read our [proposal for experimentation funds here](#).

Why are experimentation funds useful?



The challenge

New ideas for support programmes are everywhere in the ecosystem, not just in government buildings

BUT

There is no mechanism to distinguish between programmes that should be scaled vs well-intentioned but ineffective efforts

The solution

Experimentation funds to identify, test and support the most promising interventions

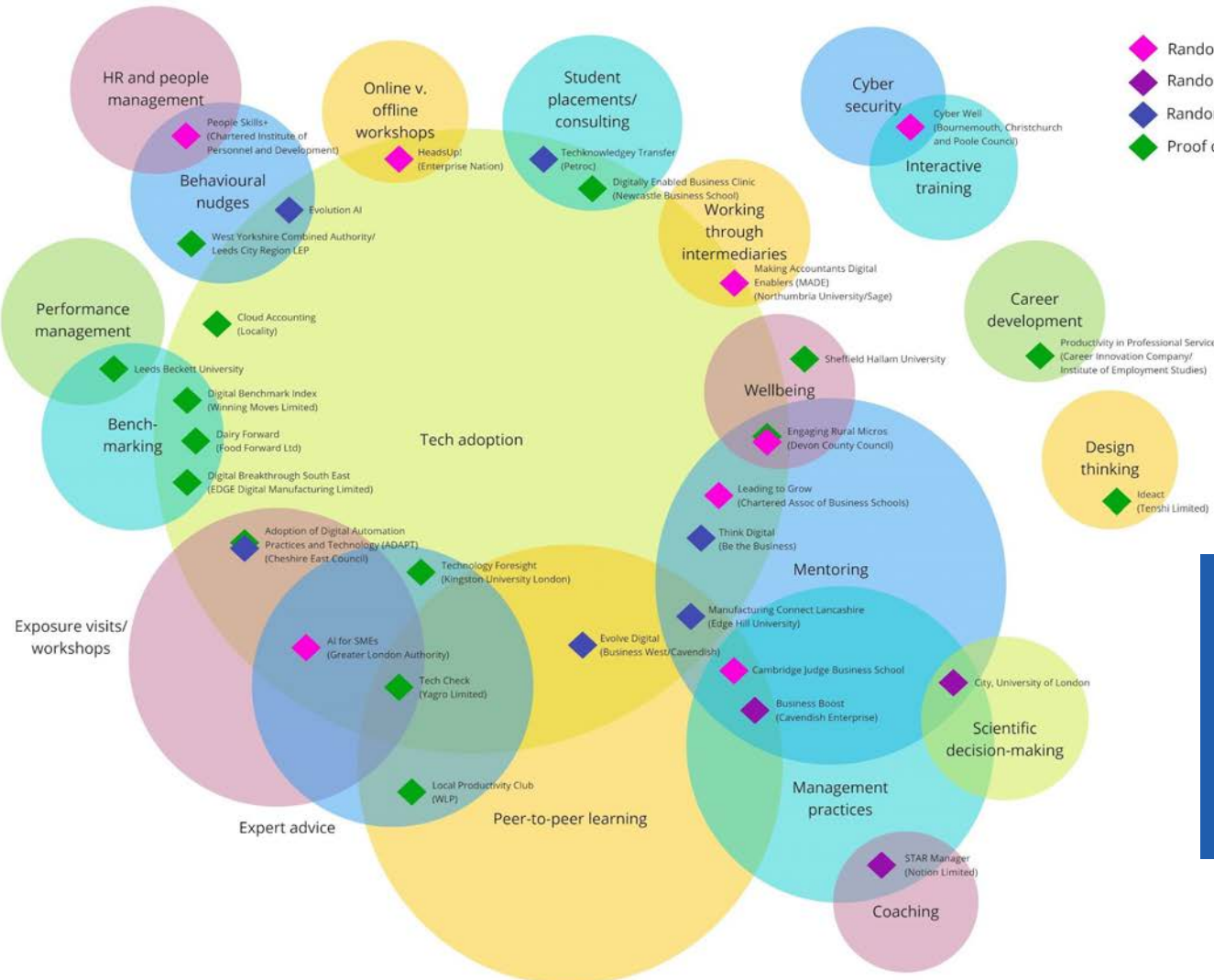
Encourage innovative policy ideas

Fund programmes in exchange for rigorous evaluation

Learn what works best (a public good) and scale it up

Create a culture of innovation and evidence

→ Can be targeted to a particular policy challenge, and provide funding and advisory support for both small proof of concepts & larger scale trials



Business Basics Fund, a UK government programme in partnership with IGL, has invested in projects testing a wide range of different approaches.

Read more about the [UK Business Basics Experimentation fund here](#)

INNOSUP-06-2018

European Commission programme supported by IGL to help innovation agencies design and test new innovation support programmes

13

projects involving 14 different European countries, some of which had never engaged with experimentation before.

27

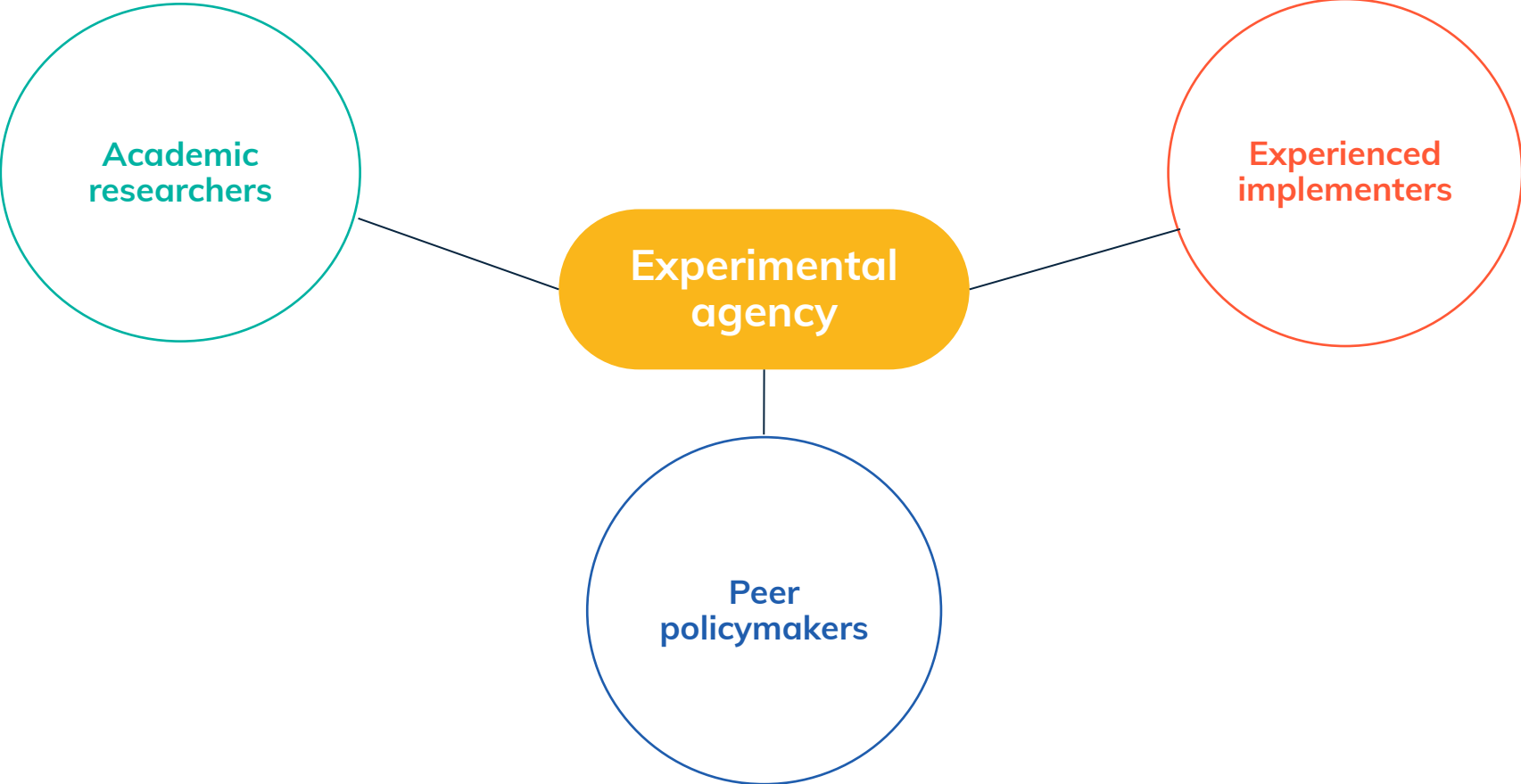
innovation agencies across Europe actively involved as well as academics and evaluation experts.



Horizon 2020
European Union Funding
for Research & Innovation



Successful execution of experiments is a team sport





www.innovationgrowthlab.org.uk

@IGLglobal

innovationgrowthlab@nesta.org.uk