

2023 Oct. 26 (Thu) - STI Policy with Impact



15:20 - 15:50 (Online) (AM 8:20-8:50 UK Time)

在大挑戰與轉型的時代, 國家創新局現在與未來應有的角色 The Current and Future Roles of Innovation Agencies in the age of Grand Challenges and Transition

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IGL

The Current and Future Roles of Innovation Agencies in the Age of Grand Challenges and Transition

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26 October, 2023

The current moment







Building strong innovation ecosystems

Innovation agencies have a vital part to play in developing strong innovation ecosystems. They are **catalysts**, supporting innovative businesses, entrepreneurs and researchers with varying combinations of funding, advisory services and networking activities.

Increasingly, these agencies are also being called on to lead or coordinate **ambitious missions** that respond to major societal challenges. However, they often face a difficult balancing act between the need to plan and invest for the long term, and the reality that their missions, structures and approaches are prone to evolving significantly and sometimes quite suddenly in response to shifting political or societal priorities.



About the Innovation Growth Lab



IGL supports the development of productive, inclusive and sustainable economies through the application of **new policy ideas**, **experimentation**, **data and evidence**.

We partner with policymakers, researchers, practitioners and funders to address key policy challenges in the fields of **science**, **innovation**, **entrepreneurship and business** policies.

To advance our mission, IGL brings together a network of leading government bodies and foundations who share our vision - the **IGL Partners**. This includes innovation agencies from a number of OECD countries.







- → We have been a pioneer in the study of innovation agencies, with Nesta's 2016 publication How Innovation Agencies Work setting out the first comprehensive framework to understand the different models and approaches that they take.
- → Follow up reports in 2019 proposed <u>principles and questions</u> to guide the strategic decision-making of innovation agencies, and studied <u>their activities and responsibilities</u> in depth.
- → In 2021-22, IGL mapped the characteristics of nearly 50 innovation agencies across <u>Europe</u> and <u>Latin America</u>, building a picture of the varied roles that these organisations play within their innovation systems, exploring how these might change in the future, and comparing <u>similarities and differences</u> between them.



The evolution of innovation agencies



Technology driven

DARPA created to spur breakthrough technologies to ensure national security - a nation state focused mission





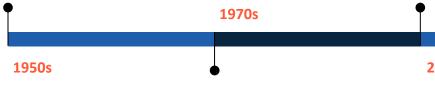


Market / system driven

Focused on building innovation capabilities across the ecosystem, and addressing gaps in the market or system

SPRIN-D







Industry / sector driven

Focus on the development of competitive advantage and industrial or sectoral capabilities



Innovate UK



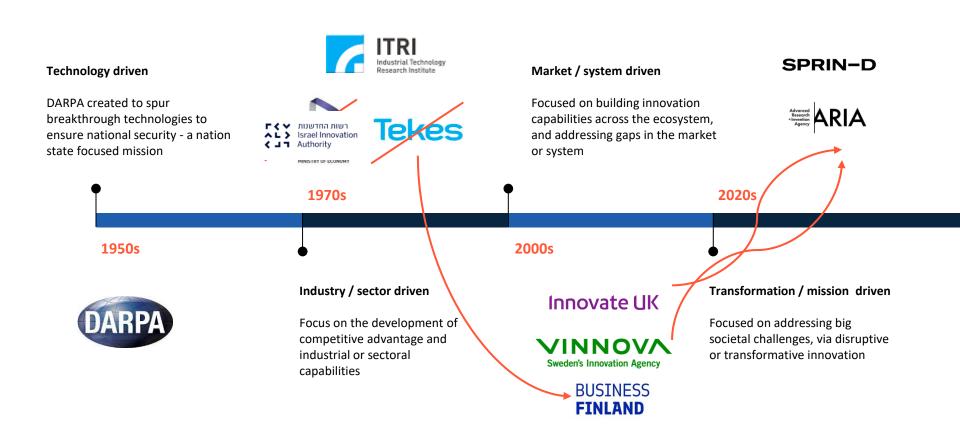
Transformation / mission driven

2020s

Focused on addressing big societal challenges, via disruptive or transformative innovation



The evolution of innovation agencies







The Strategist

The agency that plays a significant role in the formulation and development of innovation policies

The Implementer

The agency whose primary focus is to run research and innovation activities on behalf of their Ministry

The Emergent Agency

The experimental agency carving a new space in the innovation ecosystem

The Lean Agency

The agency that maintains a growing budget and slim operating costs

The Entrepreneur

The agency generating its own income and sourcing funding from various places, including the Ministry

The Internationalist

The agency focused on internationalisation and gaining the most from the world outside of its borders







Harmonized ecosystem

The extent to which there is agreement about the main goals of innovation policy, and the relative roles and responsibilities of different actors in delivering it



Institutional safeguards

The degree of independence afforded to an agency by its governance and financial models, that enable it to pursue a stable strategy



Learning culture

The existence of systems and processes that facilitate continuous learning, and that enable an agency to understand the impact of its activities



Autonomy and influence

The extent to which an agency is able to shape the formulation and design of national innovation policy priorities, and determine its own strategy



Skills and talent

The availability of relevant skills and expertise to apply to an agency's current and future work, and its commitment to the nurturing of talent

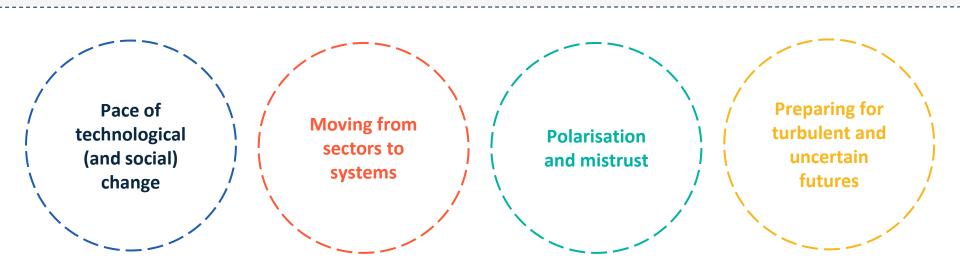


Networks and reach

The breadth and depth of an agency's relationships and collaborations within its own national ecosystem and with international partners

Some key challenges



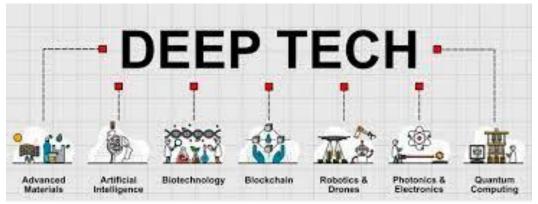


The pace of technological (and social) change









Moving from sectors to systems



New knowledge and competence

New knowledge and competence are necessary to create the innovations of the future. Therefore, we conduct knowledge and competence programmes that benefit our community. At present, VINNOVA focuses on the following fields:



Health and healthcare



Transportation



Environment



Services

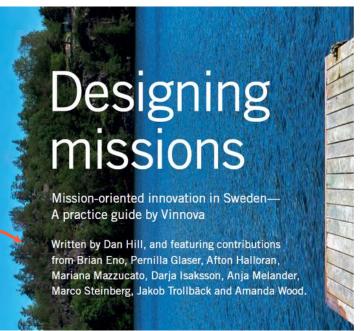


ICT



Manufacturing and Innovation Management





Polarisation and mistrust



The New Hork Times

OPINION GUEST ESSAY

Why So Many Americans Are Losing Trust in Science

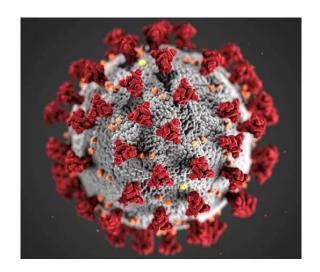
Oct 2 2022





Preparing for turbulent and uncertain futures







xplainer

Why did the \$212bn tech-lender Silicon Valley bank abruptly collapse?

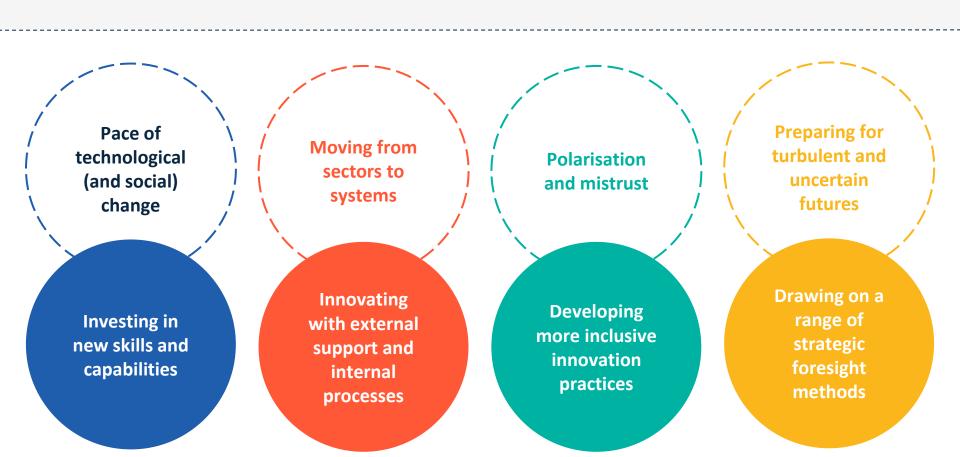
Was it the result of Trump-era regulation rollbacks, risk mismanagement at the bank, sharp interest rate rises - or a combination of all three?



Traders work on the floor of the New York Stock Exchange on Thursday in New York City. Photograph: Spencer Platt/Getty Images

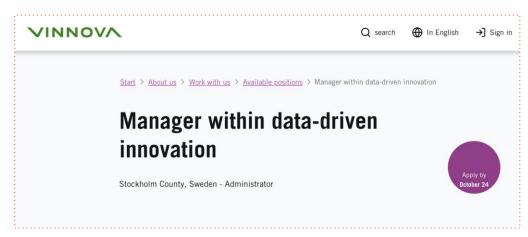






Investing in new skills and capabilities







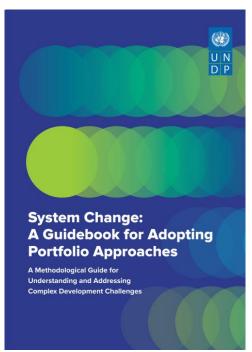


SENIOR ANALYST (M/F/D) – DEEP TECH FULL AND PART TIME POSSIBLE, IN LEIPZIG OR REMOTE FROM ALL OVER EUROPA

Innovating with external support and internal processes







Innovative agencies

A number of agencies are experimenting with different ways of staying innovative internally (e.g. RVO Netherlands has set up an internal innovation unit to drive this from the agency core, while Austria's FFG has been experimenting and adapting a programme of internal innovation caching)

Developing more inclusive innovation practices





Ethics Framework and Guidelines: A guide for research funding organizations implementing participatory activities





No Limits and the EDI Advantage

In 2022, we will launch the No Limits mission, aimed at uniting regional and national change makers with a shared ambition: for UK innovators and the UK innovation ecosystem to represent UK society.

No Limits will unlock the potential of diverse talent in the UK for innovation and involve a portfolio of actions and activities throughout the innovation ecosystem to inspire, involve, and invest in diverse talent.

Drawing on a range of strategic foresight methods



Asking Magical Questions: Scenarios to explore the future of innovation agencies

AG Written by Alex Glennie, Matt Finch and Marie Mahon | 28 June 2022

Anticipatory Innovation & Foresight

Artificial Intelligence

Experimentation





Futures Frequency is a workshop method for building alternative futures.







Innovation agencies face many challenges and opportunities in this era of grand challenges and transition.

They need to manage a **dynamic balance** of focusing on long-term goals and significant impact, while also adapting to changes in both the external context and their own internal organisational environments.

Embedding an experimental approach that facilitates strategic learning will be essential in the coming years to ensure continued relevance and demonstrable policy impact.

Traditional approach

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

Experimental approach

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



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