Innovation Strategies for System-level Transformation

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SCHOOL OF INNOVATION AND TECHNOLOGY THE GLASGOW SCHOOL PARE



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Project Overview

"Innovation Strategies for System-Level Transformation" explored how to implement innovation policies to drive regional transformation through a participatory, design-led process with policy practitioners, experts and academics. The interlinked workshops, held between March and May 2024, aimed to address the challenges identified in achieving transformational change through innovation policies, focusing on design, mobilisation, implementation, and evidencing success.

Across Europe there is growing interest in transformative innovation policies and how this can drive change and improved performance (economic and wider social/ environmental). The Scottish Government's National Innovation Strategy, which emphasises making Scotland fairer, more equal, wealthier, and greener, provided the framework for exploring such challenges in Scotland. In this context, we organised workshops with several Scottish and international stakeholders, showcasing cases from international organizations on their innovation projects and strategy processes, to provide diverse perspectives and insights that could enhance Scotland's approach to innovation.

The first workshop focused on policy design and stakeholder mobilisation. The second workshop explored policy implementation and evidencing change. The final workshop synthesised learnings, identified best practices and knowledge gaps, and made recommendations for future innovation policy. International partners collaborated with Scottish participants to co-design solutions and critically engage with the planned developments, aiming to maximize the impact and drive long-term transformation in Scotland's innovation landscape.



Challenges for Innovation Policies

Understanding the innovation process is extremely challenging and has evolved from a linear model to understanding the multi-player dimensions of effective innovation (Caraca et al 2009). Wise and Arnold (2022) reviewing Transformative Innovation Policies (TIP) highlight the shifting focus of academic research and innovation investments from economic growth and competitiveness to tackling societal challenges and generating environmental and societal impact. They call for new questions and more active roles for policymaking agencies in strategic dialogues as they move towards a more system-impact approach. Wider systemic approaches to regional economic development are also reflected in regional innovation systems and smart specialisation strategies literature (Aranguren et al., 2017; Foray, 2018), together with the importance of place-specific policy design and implementation (Tödtling and Trippl, 2005). Innovation and entrepreneurship are 'place-based' activities, requiring regional systems that provide support, resources, and enable the flow of people and ideas (e.g., Wurth et al., 2022).

Towards System-level Transformation

The academic literature has direct implications for innovation policy. Cluster policies are increasingly leveraged to support the wider regional innovation system and as conduits for addressing social challenges. In Circular Econ-

omy and nature-based enterprises (Kooijman et al. 2021), an extended definition of 'value creation' that includes ecological and social value often underpins regional (e.g. city) strategies. This is reflected in the EU's focus on twin transition, going beyond innovation in regional development to encompass green transition for continued growth, adaptability, and resilience. Georgieva et al. (2021) highlight the growing importance of place-based policy responses, capacity building, networking and cooperation to target growth potentials of individual regions/ areas to enable complex territorial transitions. Smith et al (2020) emphasise the collision between theory and practice for the effective evaluation of these policies. Wilson et al (2022) propose a framework of effects for clusters (i.e. regional concentrations of companies and associated institutions that enable partnerships for economic development) and territorial triple helix collaborations, including capturing system-level effects, but highlight that more work needs to be done in this area.

Scotland's Innovation Strategy

In Scotland in particular, the recently published National Innovation Strategy highlights innovation as a key tool for a fairer, more equal, wealthier, and greener country. The strategy emphasises the importance of transformational innovation policy interventions. A key example is the move towards long-term innovation infrastructure investments by the Scottish Funding Council, recognising the need for sustained



commitment to transformation.

The rationale for this SUII programme was to explore the **key challenge areas** in achieving transformation through innovation policies, identified by policy partners as:

Design: Identifying what needs to be done in an ever more complex environment

Mobilisation: Engaging the right range of stakeholders and partners

Implementation: Delivering effectively

Evidencing success: Demonstrating the impact of our interventions to show long-term value and ensure continuity of investment in a challenging public spending environment.

In the context of complex innovation ecosystems and policy, the space for reflection and cross-pollination is often lacking. By connecting policy practitioners across Scotland and Europe around the challenges of system-level transformation policy, this SUII programme presented an ideal opportunity to exchange experiences and knowledge between national, regional and international partners in a multi-disciplinary setting. The participatory design-led approach provided the opportunity for an iterative, ongoing interaction and dialogue between partners and stakeholders who all contribute to possible insights and solutions.

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Programme Team

The programme team was led by the School of Innovation and Technology at the Glasgow School of Art and the European Policies Research Centre at the University of Strathclyde. The team brings together expertise on cluster design and evaluation, building triple helix collaborations, policymaker-driven research on regional innovation policy and multidisciplinary experience of both top-down and bottom-up approaches to system-level transformation.

The core programme team was supported by national and international policy practitioners with a range of responsibilities in the innovation and system transformation policy practice and delivery. These included Scottish Funding Council, Scottish Enterprise, Scotland Europa, University of Lund (Sweden) and Orkestra Basque Institute of Competitiveness.





Objectives

The main objective was to connect policy practitioners across Scotland and Europe in a forum for reflection, discussion, exchange of experience and new collaborations to address common challenges in achieving system-level transformation. While there's general consensus on the need for innovation policies to target transformation to meet societal challenges (the 'what' and the 'what for'), there are large gaps in the understanding of the 'how'. These workshops aimed to contribute to this understanding, with valuable insights in the following areas:

- Increase understanding of successful approaches to design, mobilise and evidence impact for territorial transformation innovation policies;
- Inform and engage policy and practice across Scotland to implement innovation policy agendas:
- Increase codified knowledge of the conditions required for successful innovation policy implementation;
- Improve system-level innovation evaluation approaches to better evidence value generated from investments, and learning for improvement:
- Strengthen Scotland's connection to EU networks progressing innovation policy agendas;
- Position Scotland as a thought leader in territorial innovation policy and research.





As an input into the workshops, case studies were developed using a 5 Ps framework (Purpose, People, Practice, Performance, Problems/Possibilities), design-based storytelling and relational mapping techniques to allow comparisons and collective learning across diverse cases. These were designed to support accessible and communicative ways to address the following questions:

- PURPOSE why were we doing this and what did we aim to achieve?
- **PEOPLE** who was involved and who was interested in the outcome?
- PRACTICE what did we do, put in place and what were the immediate outputs?
- **PERFORMANCE** how are we progressing towards our ambitions and any outcomes?
- **PROBLEMS/POSSIBILITIES** what challenges did we encounter, what did we learn and what could be improved?

From answering these questions, visual summaries of each case study were produced telling the journey of the innovation policy using the key challenges: design, mobilisation, implementation and evidencing success. These were shared remotely and exhibited at each workshop, with specific cases used as "lightning talks" to stimulate further sharing and group discussions. The workshops followed an action research approach (Hult & Lennung, 1980) — simultaneously building knowledge and supporting practical problem-solving (or improving practice) through an interactive learning process between researcher and practitioner.

For the first and second workshops, these interactive discussions were captured and shared through visual and digital tools designed to operate both in person and virtually (Miro-based). This allowed for hybrid participation with engaging discursive design methods and mapping. Participants responded to each challenge area by discussing and identifying essential pratices, pitfalls they experienced, and transformational



factors to developing and delivering innovation policy. Each workshop fed into the next, informing the discussions and outputs to support meaningful knowledge exchange during the programme. It was a journey for partners and participants, allowing for iterative and continuous learning, which has informed the documented process, and helped to validate key outputs for future learning and collaboration.

The third and final workshop synthesised the learnings from the first two workshops to identify good practices (e.g. in approaches to collaboration, evaluation or mobilisation), gaps in knowledge (e.g. in forms of evidence or impact) and opportunities for future collaboration (e.g. for research or further knowledge exchange). Thematic co-analysis and co-evaluation approaches, through identified thematic groupings, were used to allow participants to engage with the insights gathered and therefore allowed for the validation of findings and formed the basis of recommendations on what could be done differently to maximise the impact and success

of future innovation policy. Alongside the visual materials and engaging discussions produced across this final event, video recording documented activities, discussions and reflections to complement and add to the video interviews from earlier stages for clear, engaging and communicative material to support dissemination.

Workshop 1: Policy Design & Mobilising Stakeholders

SUMMARY

The first project workshop was held on Friday, 22 March 2024. It focused on the key factors progressing **policy design**, and for the engagement and **mobilisation** of stakeholders.

Thirty-two workshop participants came from across Scotland and included enterprise agencies, innovation centres, Scottish Funding Council, economic development consultancies, local authorities and researchers from a diverse range of disciplines. International participants joined online from Sweden, the Basque country and Denmark as well as Scottish attendees.

ACTIVITIES

The programme was introduced from the lead partners (SIT and EPRC), followed by an introductory keynote from **Orkestra** (Basque Institute of Competitiveness), outlining why this timely debate around the challenges for system level transformation has gained importance across Europe. Case studies were gathered from various partner organisations from Scotland and internationally. These were displayed as an exhibition at the workshop, with five minute "lightning talks" per presenter highlighting key learnings from selected cases:

Scotland Can-Do Innovation from Scottish Enterprise, involving a tailored pre-commercial procurement approach to drive innovation aimed at boosting economic growth while enhancing public services.

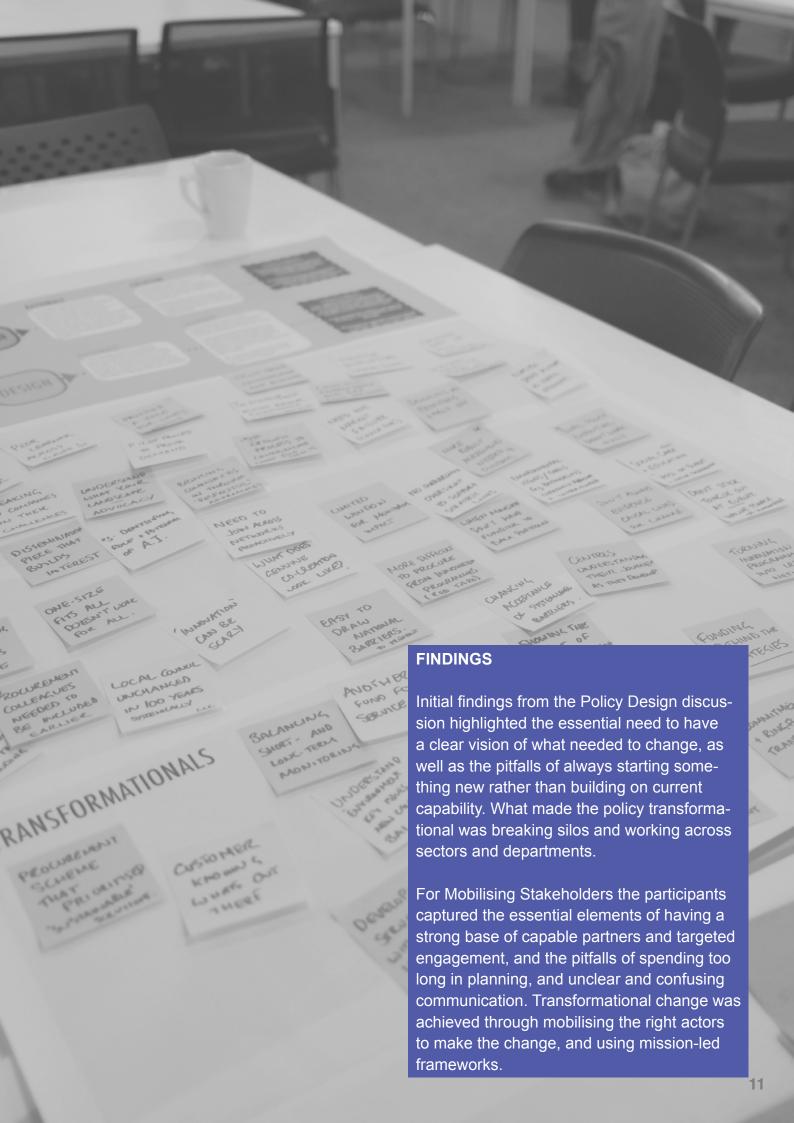
Connecting Nature from Glasgow City Council focused on implementing Nature Based Solutions (NBS) to address urban challenges sustainably.

Net Zero Industrial Cluster Exchange (NICE) from EPRC, facilitating knowledge exchange and best practices among regions transitioning to net zero industrial clusters.

System Demonstrators for Climate Neutral Cities from Lund University, addressing deep structural challenges within specific systems, aiming to accelerate the transition to climate neutrality, a collaborative approach led by Vinnova and Viable Cities in Sweden.

Following the talks, participants were divided into discussion groups (one 'online' for remote participants) to discuss the main issues and challenges to emerge from the case studies and drawing from participants' own experiences. Initially the group discussed **policy design** and in a second iteration the discussion moved on to the key elements in **mobilising stake-holders**.

These discussions focused on exploring the essentials we need to include and the pitfalls we need to avoid. In addition, the participants discussed what makes a policy intervention truly transformational. Led by a facilitator and using post-it notes, the discussions were lively and engaging and concluded with short feedback sessions for the group as a whole.



Workshop 2: Implementation & Evidencing Success

SUMMARY

The second workshop in the series was held on 16 April 2024, in Scottish Enterprise's Collaboration Space. The workshop focused on how to effectively deliver and implement innovation policies, and the issue of how to evidence the achieved change.

Over 40 participants were involved, with Scottish attendees joined by a number of international participants involved in the Interreg Europe COMMIT project, a follow-up on the Net Zero Industrial Cluster Exchange (NICE) network that was presented as a case study in the first workshop. EPRC is the lead for NICE and Advisory Partner in COMMIT, and co-lead of the present SUII project. Virtual online participation also enabled the involvement particularly of international and other partners not able to make the journey to Glasgow.

ACTIVITIES

Drawing from the experience of our collaborators, other case studies were again displayed as an exhibition at the workshop, and five-minute "lightning talks" highlighted some key learnings and acted as input into the discussions:

Contribution of Basque Science, Technology and Innovation Plan (STIP) to SDGs from Basque Government, through explicit societal challenges, reflecting a commitment to sustainability and initiating a project to measure STIP's contribution to SDGs.

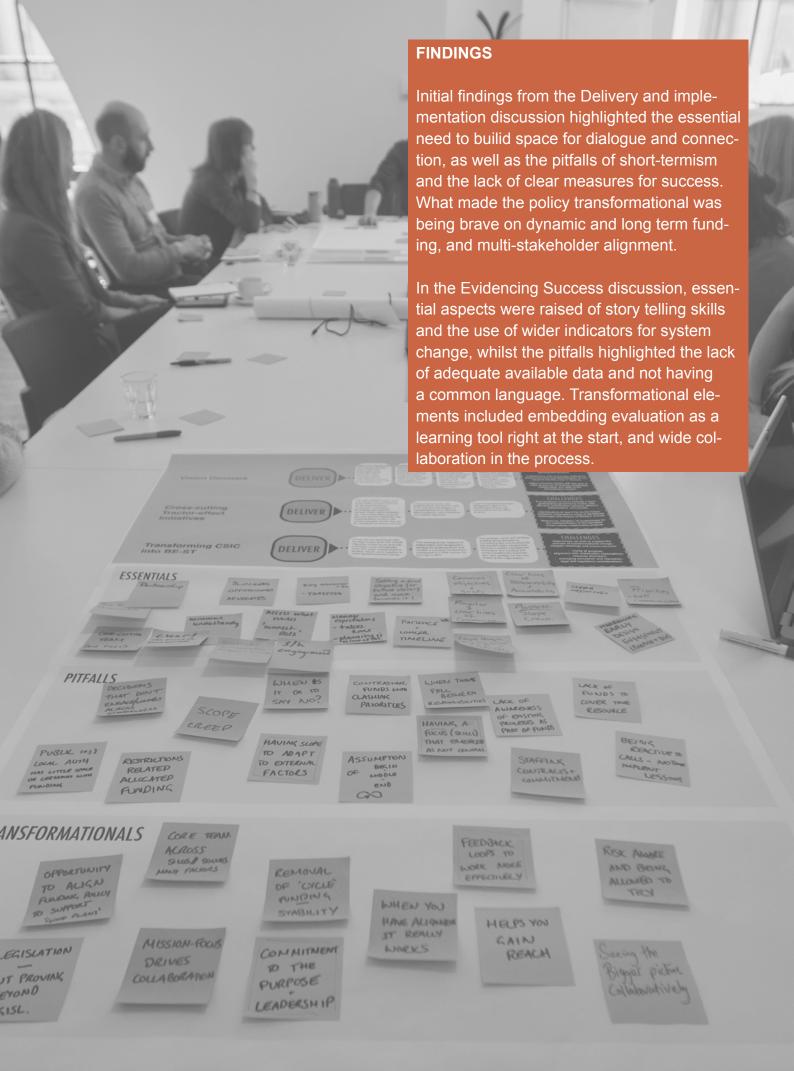
Vision Denmark (digital media and creative industries cluster) from Aalborg University focusing on the digital visual sector, it aimed to address common challenges faced by SMEs and larger firms in the industry.

Cross-cutting Tractor-effect Initiatives from the Basque Government, initially focusing on healthy ageing, electric mobility, and the circular economy, with the aim for tangible results to Basque society.

Transforming CSIC to BE-ST to delivery against the journey to net zero from Built Environment Smarter Transformation prioritising collaboration, inclusive decision-making, and proactive engagement to ensure successful adaptation to change.

Evaluating the **Innovation Centre Programme** by Scottish Funding Council investing in long-term infrastructure to foster collaboration among universities, colleges, and the public-private sector to harness academic expertise for both societal and economic benefits.

Similar to Workshop 1, participants were divided into discussion tables (including a "virtual table" online) to use case studies and participant experiences to explore issues around policy **implementation**, and in a second round on the challenging area of **evidencing success**. Once again, the workshop discussions focused on the essentials, pitfalls and what makes a policy intervention truly transformational, with highlights from each discussion shared for feedback.



Workshop 3: Learnings & Recommendations

SUMMARY

The final workshop in the series was held on 16 May 2024 at SUII. The workshop had a continuity of participants drawing on the two earlier events and involved international partners from Sweden, the Basque country and Denmark, as well as participants from across Scotland, including enterprise agencies, innovation centres, the Scottish Funding Council, economic development consultancies, local authorities and researchers.

The day kicked off with perspectives from the European Union and Scotland, setting the scene for the day's discussions:

Peter Wostner from the Institute for Macroeconomic Analysis and Development in Ljubljana shared his experience of shaping the Smart Specialisation Strategies in Slovenia, and his recent research on transformative innovation policy. His key messages included the imperatives of experimentation in policy-making, clear aims and directionality, and collaboration and collective action.

Alasdair Macleod from the Scottish Government described the thinking behind Scotland's Innovation Strategy and the programmes now being taken forward into delivery.

ACTIVITIES

Following analysis of the outputs from the first two workshops some key principles had been

drafted for successful Innovation Strategies aiming for system-level transformation, drawing from the essentials, pitfalls and transformational elements highlighted in those dynamic discussion. These covered five themes (Learning; Understanding context, assets, and needs; Leadership; Development Structures; Cultivating Partnerships), which were presented as a visual tool titled the Principles Canvas.

The morning session of the third and final workshop interrogated these principles in breakout discussion groups, identified any missing elements and prioritised the most important across the five themes for each group.

In the afternoon, a panel from Scotland and Europe, drawn from government, funders, innovation delivery organisations and academic researchers, fielded questions about the impact of these principles on the participants' projects and work, and how the outputs of the project could be best used to bring about real change.

The participants then broke into discussion groups to build an idealised innovation journey, showing what would be different from current approaches. Finally each participant reflected on their own practice and described the actions and collaborations they wanted to take forward as a result of their engagement with the project.





The analysis of the outputs from the first two workshops enabled the development of the five themes of the **Principles Canvas**, which were further challenged and refined by the discussion and debate at the third workshop. The design of the Canvas was deliberate to show the linkages and interaction between the differnt themes, with Learning at the core.

To give depth to the headline titles and to ensure a common understanding of each theme, the following definitions and descriptions help explain the content of the Principles Canvas.

Understanding the Context

Innovation for system-level transformation requires engaging with system-level challenges and opportunties, involving a diverse range of stakeholders, in co-developing an understanding of what positive change means. Therefore, a process is needed that develops and demonstrates strong understanding of what matters in the context, what different needs key stakeholders have and what assets are already there to build from.

PRINCIPLES

The Understanding the Context principles emphasise the need to get specific about what the challenges and opportunities are, and that stakeholders across the system are able to help define them. By opening up the scope of conversations and research via these principles, a

more refined and shared understanding should emerge that clarifies the goals and objectives that can support leadership, development structures, learning and partnerships going forward.

Leadership

Innovation for system-level transformation needs leadership to create the opportunities, possibilities and direction to bring diverse stake-holders together. There are particular challenges with leadership for system-level transformation by which innovation policies and strategies are enabled to progress or doomed to collapse.

PRINCIPLES

The Leadership principles try to ensure consideration of the needs for system-level change you're trying to make and for the needs of key stakeholders to remain committed. By balancing clarity in how leaders can communicate the vision with an adaptability to pull the necessary 'levers' to respond to identified opportunities, governance processes should emerge that enable greater mobilisation and buy-in for all.

Development Structures

Innovation for system-level transformation cannot grow, flourish or sustain without committed support structures in place. It involves active facilitation, cultivating innovation ecosystems of diverse stakeholders and relationships, collab-



orating through projects and programmes of investment and support structures, to support long term change.

PRINCIPLES

The Development Structures principles reflect the challenges for generating and facilitating innovation ecosystems over the long term to achieve the collective vision. By facilitating access to a wide range of opportunities and building the capacity to learn from all outputs and outcomes, the longer-term ambitions of system-level transformation should become more realisable and impactful.

Cultivating Partnerships

Innovation for system-level transformation depends on collaboration between diverse areas of knowledge and stakeholders associated with the systems or challenges in question. It is not enough to simply bring different people and organisations together. Innovation strategies must develop ways that stakeholders understand their role(s) within the system and their potential contribution to the innovative visions outlined.

PRINCIPLES

The Cultivating Partnership principles foreground the value and roles different stakeholders and partners can have in effective innovation ecosystems. By listening to and appreciating the needs and perspectives of constituent actors in driving change, you should directly enhance the collective understanding, governance, support and learning processes that generate innovative collaborations for system-level transformation.

Learning

Innovation for system-level transformation is not a linear process. Knowing what actions are working well, how actions are working well and what is affecting how actions are working well requires space and processes to learn and evaluate. Such learning is not constrained to core policy or delivery actors, but should support system-wide learning for transformation to take hold sustainably.

PRINCIPLES

The Learning principles underline and expand upon the role of evidence, encouraging an open and iterative approach to what counts as good evidence and how best to capture it. By sharing the process of defining what contributes to effective innovation for transformation, a system-level capacity for collaboration and innovation should take hold. Ongoing evaluation data helps to inform and improve.

Outputs

The programme produced a number of outputs, which can be found on the <u>programme SUII</u> <u>landing page</u>:

- Output Reports from each event, gathering the contributions and ideas, but also showing the process of integrating those experiences, including presentations (key notes and plenary) and summary reports;
- Final report describing the outputs for each event, and also the overall outputs, findings and recommendations:
- Series of case studies used during the workshops to share experiences, produced in a sharable digital format;
- Video recording of the programme and edited collation, both short and long, for wider dissemintation;
- Key recommendations for good practice in designing, mobilising and evidencing impact for territorial transformational innovation policies captured in the Principles Toolkit; and
- New networks established within Scotland and with European partners with potential to investigate further research and funding opportunities, as well as to collaborate on practical delivery of support.

As well as a final report, the findings and principles generated from the workshop series are being shared with Scottish and European partners (such as through the EPRC seminar se-

ries, the TCI network, and EDAS) to embed this approach in future innovation policy delivery.

Other dissemination opportunities being explored include presenting at Regional Studies Association (RSA) Conference and TCI Global conference, and inclusion in the general EPRC seminar series are also planned for the autumn.



Outcomes

This programme envisaged a range of beneficiaries (reflected in the programme team and wider participation) covering four broad areas, all of which we have delivered against:

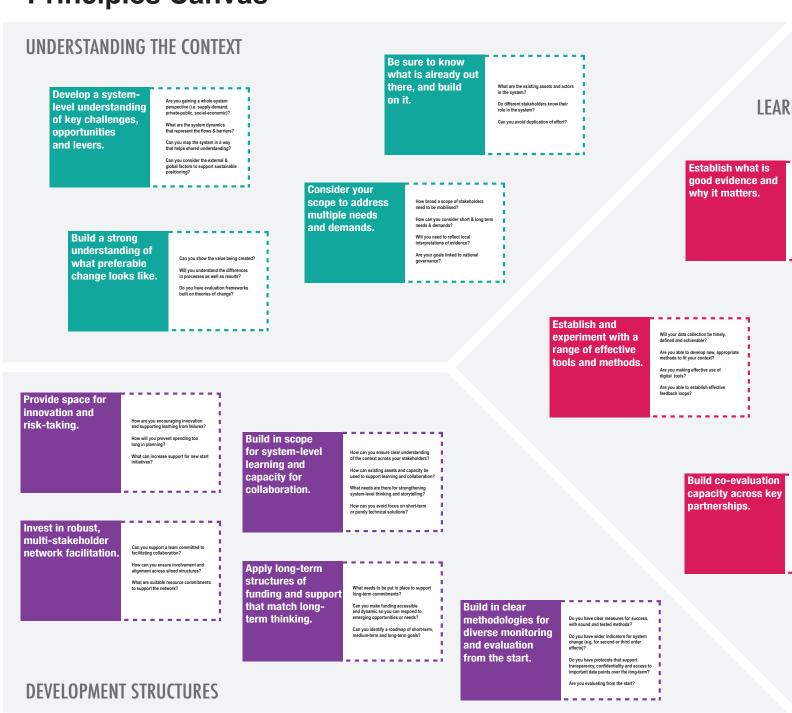
- Policymakers: Scottish Government, Scottish Funding Council, local city councils, enterprise agencies, were all involved in the workshops, as well as international policy and practitioner partners, such as from the Basque Government, and through the participation of the Interreg COMMIT programme members;
- Academics: partners and other researchers in innovation and system-level transformation related fields in Scotland and across Europe were actively engaged, including presenting cases, keynotes (in the first and the final workshop), and engaging in the panel discussions;
- Innovation support structures: organisations helping to stimulate innovation within a sector or region were strongly represented throughout, including all of the Innovation Centres that have received long term infrastructure investment, clusters representing circular economy and green energy approaches, nature-based and civic innovation regional projects, as well as links to European and global networks of such organisations (e.g. TCI the global network of cluster practitioners);
- Economic development professionals: through EDAS engagement and dissemination, economic development consultancies and practitioners involved in strategy and evaluation of

innovation policy were actively involved. Dissemination of outputs will share this more widely with other professionals looking to improve their knowledge and understanding of regional collaborative innovation agendas.

Impacts from the programme of work included:

- Greater understanding of successful approaches in designing, mobilising and evidencing impact for territorial transformational innovation policies;
- Informed and engaged policy and practice across Scotland, to implement innovation policy agendas, with external learning from international partners informing different approaches;
- Increased codified knowledge of the conditions required for successful innovation policy implementation, now presented as a **Principles**Canvas for System-level Transformation;
- Improved understanding of system-level innovation evaluation approaches leading to better evidence of value generated from investments, and learning for improvement;
- Stronger connections to EU partners and networks progressing innovation policy agendas;
- Positioning Scotland as a thought leader in territorial system-level innovation policy and research through integrating academic knowledge, public sector bodies and intermediate innovation support organisations, through leading this discussion and debate.

Innovation Strategies for System-level Transformation Principles Canvas



As well as the reports a key output is this checklist for innovation policy, built into an easy to use tool for policy makers when designing, mobilising, implementing and evaluating their innovation policy. It is anticipated that some of the partners in the programme will take forward piloting the use of the toolkit with their innovation policies.

LEADERSHIP

NING

Do you have access to the right data?

Identify and use the significant stories to influence what happens next.

Are you able to clearly distinguish between policy and strategy?

Can you produce live, agile case studies to demonstrate value and learning?

Is there a system-level vision to link

Ensure the right leadership and culture is in place.

Is there the will and culture to make change at the policy level?

Is there shared ownership and trust in the challenges, vision and mission.

Be flexible to learn what is needed for long-term transformation.

Are you looking beyond the 'easy things to count' to see what's important to the system

Do you have flexibility to identify and target the best opportunities?

Have a long-term vision and mission within which everyone understands their roles.

Is your vision truly transformational and showing clear needs for collaboration?

Are the roles for your key partners clear in relation to your vision and mission?

Consider how stakeholders can access leadership

Cultivate existing partnerships, individuals as 'change drivers'.

Is there a strong existing base of capable actors and trust to build from?

Be adaptable to stakeholder situations to support collaboration.

Value a diverse range of stakeholders and perspectives.

Ensure transparent, clear and bespoke communication & engagement.

CULTIVATING PARTNERSHIPS

Evaluation Survey

To add valuable learning an evaluation survey was sent out to all participants to assess the value of the overall project findings and the participatory process involved.

Respondants agreed (or agreed strongly) that the workshops were:

- well prepared
- well facilitated
- engaging
- useful

In addition the respondents agreed (or strongly agreed) that the workshops process had helped sharing in the group, and that the discussions and materials helped build understanding.

Most importantly the respondants agreed (or strongly agreed) that the workshop process helped those involved to come up with new insights and ideas, and that participants made valuable new connections.

Respondants highlighted the good dialogue across different policy/innovation areas in the project and the valuable sharing of international practices.

Conclusion

The SUII programme successfully facilitated knowledge exchange and collaboration among policy practitioners, providing valuable insights and recommendations for achieving system-level transformation through innovation policies. The findings and principles developed during the programme have been shared with Scottish and European partners to embed these approaches in future innovation policy delivery. The evaluation responses from participants highlighted the value of the process as well as the importance of the results and the opportunity to build meaningful collaborations.

The project also developed into a toolkit which will potentially used by partners to "test" new policy approaches here in Scotland and internationally.

To generate meaningful scientific and policy impact beyond the lifetime of the project, findings have already been shared through the TCI policy workshop, through EDAS communications and further sharing and dissemination opportunities are already planned.

SUII funding proved an excellent mechanism to support the collaboration needed helping to bring together partners across the Scottish ecosystem, alongside international partners in policy and practice, to explore and co-design solutions to this shared challenge.

FURTHER RESOURCES

For access to all outputs and our accompanying project videos (produced by Louise Mather) please visit the Scottish Universities Insights Institute (SUII)Innovation Strategies project page:

https://www.scottishinsight.ac.uk/Programmes/ OpenCall202324Round1/InnovationStrategies. aspx

European Policies Research Institute (EPRC)

https://eprc-strath.org

School of Innovation and Technology, The Glasgow School of Art

https://sit.gsa.ac.uk

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Please visit:

www.scottishinsight.ac.uk/Programmes/OpenCall202324Round1/InnovationStrategies.aspx.



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