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higher education
& training
Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



South Africa University innovation ecosystem mapping

Evidence gathering to inform research commercialisation capacity strengthening

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Confidential



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Background to the project



"It's not enough to ask what universities are good at – we must also ask what universities are good for!"¹

Professor Chris Brink

Innovation ecosystem mapping

Purpose

- Understand the current barriers and enablers of the 26 South Africa university innovation ecosystems.
- Support research and innovation capacity strengthening across all public Higher Education Institutions (HEI's) in South Africa

Outputs

- Inform the creation of the National Policy Framework on Entrepreneurship Development in South African Higher Education
- Provide USAf and the British Council with insights and evidence for future collaborations in cross cutting themes of research, innovation, entrepreneurship, and commercialisation in line with the RCS framework

1. National University Entrepreneurship Ecosystem baseline report, February 2020

Introduction

Impact generation through commercialisation of academic research in South Africa



An opportunity for,
and pathway to,
economic growth in
South Africa

*"...critical for
introducing new
products into the
market...." 2*

Using research
outputs for societal
benefit



Innovation ecosystem mapping: project overview



- 10th Dec 2021
Survey sent out
- 26th Jan 2022
Survey close
- Survey data analysis
- 31 Jan – 4 Feb 2022
5 focus groups
- Focus group feedback analysis
- 16 & 17 Feb 2022
2-day workshop
- Workshop output analysis
- March 2022
Final report & recommendations

Innovation Ecosystem gaps explored

- Innovation ecosystem barriers and enablers
- Survey results summary
- Themes and solutions to enable more impact from research through commercialisation

Focus groups

Survey

Workshop

Innovation ecosystem questions

- Overall satisfaction with research commercialisation at their university
- Ecosystem element diagnostic
- Incentives, awareness and skills

Innovation ecosystems and academic entrepreneurship

- Maximising impact through research commercialisation
- Bridging the research, innovation and entrepreneurship divide
- Sharing good practice, approaches and strategy



Innovation ecosystem mapping: project overview

Survey

- 28 respondents (19 universities)
- 14% of respondents were academic researchers, the remainder technology transfer managers or innovation directors
- 60% indicated that their university supported social sciences, arts and humanities (SSHA) commercialisation
- 89% indicated support for science, technology, engineering and maths commercialisation
- Most felt neutral or unsatisfied with the economic and social impact of academic research on the wider community

Focus groups

- Interactive online sessions with jamboards
- 5 focus groups, 1.5 hrs each
- 3 - 9 participants per group
- Universities grouped by type
 - Universities of technology
 - Newer and comprehensive
 - Research universities (large)
 - Research universities (small)
 - Rural-based universities

Feedback to inform the workshop



We asked:

What are you interested to learn more about and discuss at the workshop?

- Social science, arts and humanities commercialisation; Socially impactful projects and how to move these forwards
- How to move innovation projects past the prototype and feasibility stage; Where and how to obtain funding to do this and/or form the most beneficial strategic partnerships
- Types of impact through research commercialisation
- Industry partnerships and how to get these going



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Innovation ecosystem mapping

Survey and focus group results

Existing drivers of research commercialisation

- Increasing numbers of researchers interested in extending the impact of their research through commercialisation
- Enthusiasm and motivation to drive innovations forwards
- Government funding and support
- Continued sharing of good practice between universities
- Emerging awareness and drive to embrace commercialisation of social sciences, arts and humanities including generating impact from traditional knowledge



Opportunities to increase impact

Building partnerships with industry



A need to form more relationships, connections and partnerships with industry and non-governmental organisations

- Too few industry links
- Difficulty forming relationships
- Lack of platforms to access industry

Funding



More funding needed to support early-stage, pre-seed innovations

- Difficulty accessing funding
- Uneven distribution of funds across the 26 universities in South Africa

Culture and incentives



Culture and incentives needed to support, motivate and encourage research

- Lack rewards and recognition for academic researchers to commercialise early-stage research
- More incentives needed to encourage industry-university partnerships

Innovation ecosystem mapping: Workshop feedback



- Aimed to provide participants with insights into good practices, approaches, and strategies to translate research into meaningful and impactful outputs.
- The workshop was carefully designed, based on our understanding from wider literature and expertise within the innovation sphere, survey and focus group findings, to support the South African higher education sector's ambition to bridge the research, innovation, and entrepreneurship divide.

Excellent workshop. Well thought through and a nice balance of information packed sessions and case studies. Well done EDHE and what a wonderful kick off to 2022. Indeed 'Let's move to Market'"

This type of forum should be devolved to individual university level as well. Can take the form of 'townhall meetings' or 'Jam' sessions in industry eg IBM jam sessions to increase collaboration across different lines of expertise or product /service groups"



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Innovation ecosystem mapping

Recommendations to strengthen research
commercialisation capacity and ensure sustainability

Recommendations to strengthen research commercialisation capacity and ensure sustainability



Increasing incentives for research commercialisation

- Recognition and rewards for academic researchers to commercialise their research, are lacking
- A need for incentives to encourage university-industry partnerships

We recommend:

Dissemination of the findings of the survey, focus groups and workshop to provide individual universities with examples of incentives

Additional funding

- Not enough funding
- Unequal distribution of funding amongst universities
- Need for strategic targeting of funds towards certain priority application areas

We recommend:

A review of government and non-governmental funding to identify areas of need

Metrics: measuring impact from research commercialisation

Metrics to measure and assess impact from research unclear

Importance to recognise all forms of impact generation

We recommend:

Ensure key stakeholders are aware of the findings of this project and other key developments, to achieve a common understanding of metrics and 'what good looks like'

Recommendations to strengthen research commercialisation capacity and ensure sustainability



Build on each university's strengths

There is significant variation in research commercialisation capacity across South Africa

Need an individualised approach

Are there opportunities for inter-university partnerships of mutual benefit?

We recommend:

Support each individual university to carry out a review of their current strengths and areas of need

Further support for SSHA

Stimulate more widespread social sciences, arts and humanities (and local knowledge) research commercialisation

We recommend:

A programme of research commercialisation training as part of a wider capacity strengthening programme

Creation of a community and platform to support SSHA commercialisation

Research commercialisation culture strengthening

Cultivate a culture of research commercialisation, originating from the senior university stakeholders, at all of the 26 universities in South Africa

We recommend:

Bring together academic and offices of technology transfer (OTT) communities

- Networking
- Addressing common challenges

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