

Deputy Pro-Vice Chancellor: Global Engagement Vice Chancellor's Office

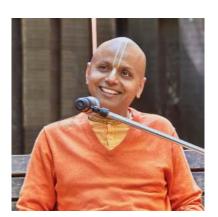
Setting the Challenge

Paul van Gardingen



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Inspiration for the day



Gaur Gopal Das:

"Focus on how you can make a difference"

UK-India Strategic Conclave September 2018



Outline

- · Some inspiration
- A "brief" history linking science, technology and innovation with development
- · New ways of working together to address shared global challenges
- A call to action. Four priority themes to consider



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UNIVERSITY OF LEICESTER



1996: International Development Targets

- 1. Reduce by half the proportion of people living in extreme poverty between 1990 and 2015.
- 2. Enrol all children in primary school by 2015.
- 3. Make progress towards gender equality and empowering women by eliminating gender disparities in primary and secondary education by 2005.
- 4. Reduce infant and child mortality rates by two-thirds between 1990 and 2015.
- 5. Reduce maternal mortality ratios by three-quarters between 1990 and 2015.
- 6. Provide access for all who need reproductive health services by 2015.
- 7. Implement national strategies for sustainable developement by 2005 so as to reverse the loss of environmental resources by 2015.



2001: Millennium Development Goals



















2015: Sustainable Development Goals































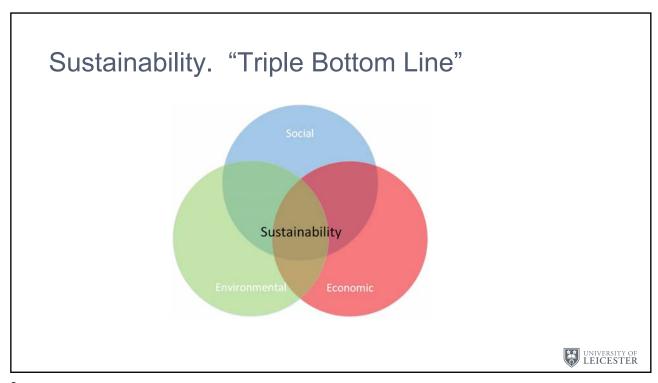








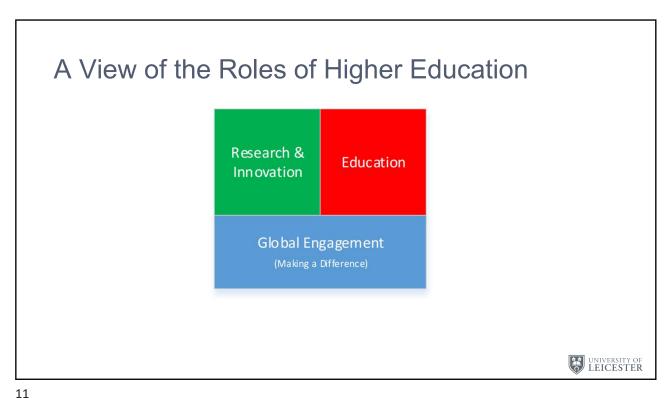




How Academics have conceptualised Innovation...

| University | Funding and Strategic demands | Government |

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Building a New Way of Working Together: Gazi Bay & Nairobi: 2017



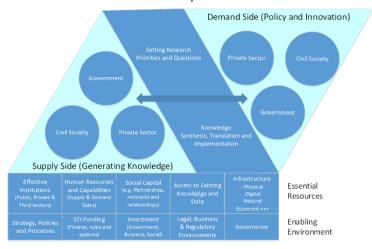
https://www2.le.ac.uk/institution/lias/nairobi-workshop-2017/



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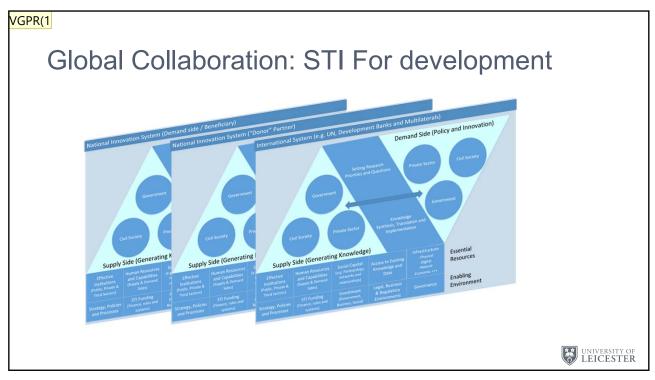
A Provocation:

Science and Innovation for Delivering the 2030 Agenda for Sustainable Development



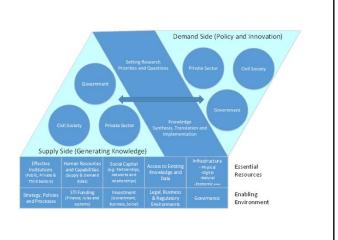
https://www2.le.ac.uk/institution/lias/nairobi-workshop-2017/nairobi-provocation-paper https://www2.le.ac.uk/institution/lias/nairobi-workshop-2017/nairobi-workshop-outcomes-report





Ask the Right Questions

- Engage the demand side and knowledge intermediaries from Day 0
- What new knowledge is required to make a difference?
- Aim to produce excellent science with the potential for significant, scalable and sustainable impacts.
 - No need to "dumb-down" science
- Look for opportunities to use new technology and engage a broad group of stakeholders.

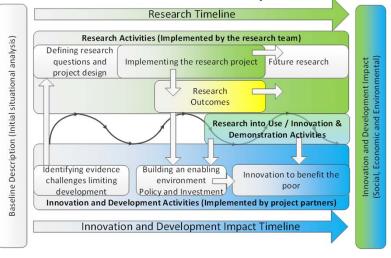




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VGPR(1 Needs a summary box of challenges / opportunities Van Gardingen, Paul R. (Prof.), 14/09/2018

ESPA's Early Thinking: Linking Research and Development Processes





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Change the Way we Work

- Design research for societal impact in addition to academic excellence
 - There is no need for compromise
- Involve beneficiaries and knowledge intermediaries in the setting of strategic priorities and research questions
 - Co-design, Co-production, Co-implementation
- Built more effective, equitable and empowering Partnerships
- Adopt approaches that span existing disciplinary boundaries
- Be more innovative in the way that we design and implement research for development



Madagascar P4GES Project. (ESPA)







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Innovation in Research for Development

- Utilise new technology
 - Frontier and emerging technologies
 - Leapfrog approaches
 - Disruptive technologies
 - Social and other media
- Utilise indigenous knowledge
- Citizen science
- Interdisciplinarity (multi/Inter/trans-disciplinary approaches)
- · Big data & High performance computing
- · Complexity science



Create the Necessary Enabling Environment

- Promote equitable ownership of the development agenda by all relevant stakeholders
- Invest in People, Partnerships and Projects
- Change the rules of the game to enable innovation for development
- Change the rules of the game to empower developing country institutions and researchers to participate more equitably
- Embrace entrepreneurship and business as part of the solution
- Ensure that essential resources and investments are available, when and where they will make the most difference



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Working Together: STI & ODA Communities

Focus on the positive difference we can make by working together.

- 1. Ask the right questions.
- 2. Change the way that we work.
- Innovation in Research for Development
- 4. Create the necessary enabling environment



