## Risk and Returns of Technology Opportunities

Tarun Sharma, Fionn Rogan, Brian Ó Gallachóir

Our 2050 – Final-Project Event, Fitzwilliam Hotel, Dublin | Dec 10<sup>th</sup> 2018









**ENERGY POLICY &** 

MODELLING GROUP





Environmental Research Institute University College Cork



Coláiste na hOllscoile Corcaigh



## Key Outcomes

Quantified 2 return and 4 risk attributes for <u>62</u> identified technology opportunities:

- Return attributes:
  - Market size
  - Technology opportunity
- Risk attributes:
  - Biomass import
  - Carbon budget
  - CCS development
  - BECCS development







## EPMG

## Risks and Returns – Map of Technology Opportunities





- Substantial variation in risk-return profiles for technologies.
- Transdisciplinary approach
- Entrepreneurs/investors can rank these opportunities based on each of these six attributes
- Results should be seen in the context of trends in early stage investment, entrepreneurial activity, and industrial organization.









