The Internationalisation of Business R&D

EVIDENCE, IMPACTS AND IMPLICATIONS
**Table of Contents**

**EXECUTIVE SUMMARY** .......................................................... 7

**INTRODUCTION** ....................................................................... 11

**CHAPTER 1. THE ACTIVITIES OF MULTINATIONALS ABROAD** ...... 13

  - Globalisation on the rise: the emergence of global value chains ....... 13
  - The increasing internationalisation of R&D ................................ 17
  - The role of multinationals in global R&D ................................... 20
  - Most R&D investments abroad still go to OECD countries .......... 22
  - Increased R&D activity by multinationals in emerging countries .... 27
  - Patenting by multinationals abroad ......................................... 31
  - Drivers and motivations of foreign direct investment in R&D ....... 38
  - Outward FDI in R&D by emerging countries .............................. 47
  - Organising and managing R&D internationalisation within MNEs... 51

**CHAPTER 2. THE INTERNATIONALISATION OF INNOVATION** ...... 55

  - The changing landscape for R&D investment ............................ 55
  - The internationalisation of R&D and technology collaboration ... 59
  - The internationalisation of science ......................................... 64
  - The international mobility of human resources in science and technology .... 70
  - The international exploitation of technology ............................ 78

**CHAPTER 3. POLICY IMPLICATIONS** ....................................... 83

  - Challenges and opportunities in the internationalisation of business research and development .............................................. 83
  - Policies relating to the internationalisation of R&D by MNEs ....... 87
  - Policies to encourage the internationalisation of innovation .......... 91
  - Concluding remarks ............................................................ 98

**BIBLIOGRAPHY** ..................................................................... 101