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Towards sustainable economic growth: The role of technology readiness an...



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Towards sustainable economic growth: The role of technology readiness and foreign direct investment

By [Chan, SG](#) (Chan, Sok-Gee) ^[1]; [Ramly, Z](#) (Ramly, Zulkufly) ^[2]
[Are you this author?](#) ; [Aktan, B](#) (Aktan, Bora) ^[3]; [Celik, S](#) (Celik, Saban) ^[4]

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Source [INTERNATIONAL REVIEW OF ECONOMICS & FINANCE](#)

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Volume: 111
DOI: 10.1016/j.iref.2026.105779

Article Number 105779

Published OCT 2026

Early Access SEP 2026

Indexed 2026-09-10

Document Type Article

Abstract This study examines the role of technology readiness in moderating the impact of foreign direct investment (FDI) on the sustainable economic development of host economies. Previous studies report inconclusive evidence on FDI spillover effects to economic growth, largely due to challenges in capturing the absorptive capacity of host countries. To address this gap, this study decomposes technology readiness into five key dimensions to identify the enablers that allow host economies to effectively internalize the benefits of FDI for economic sustainability. Using panel data from 154 countries over the period 2009-2023, the system generalized method of moments (System GMM) is employed to provide a holistic view on the role of technology readiness in moderating the spillover effects of FDIs towards economic sustainability measured by economic efficiency. The results show that FDI does not automatically enhance the economic efficiency of host countries. However, improvements in technology readiness, particularly in ICT deployment, skills development, research and development (R&D), and financial support for domestic firms significantly improve efficiency. The findings also reveal that lower-income countries benefit less from FDI, except in R&D-related activities, highlighting the importance of R&D in strengthening absorptive capacity and maximizing FDI spillover benefits. Overall, the results underscore the importance of technology readiness in mediating the FDI spillovers to enhance the country economy efficiency of the country. Policymakers therefore should invest strategically in strengthening the foundational elements of technological infrastructure.

Keywords **Author Keywords:** [Economic efficiency](#); [Technology readiness](#); [Foreign direct investment](#); [System GMM](#); [Sustainable development](#)
Keywords Plus: [RELATIVE BACKWARDNESS](#); [PRODUCTIVITY GROWTH](#); [PANEL-DATA](#); [FDI](#); [SPILLOVERS](#); [EFFICIENCY](#); [ENTERPRISES](#); [OWNERSHIP](#); [MARKET](#); [IMPACT](#)

Author Information Corresponding Address: Chan, Sok-Gee (corresponding author)

▼ Univ Nottingham Malaysia, Nottingham Univ Business Sch,
Fac Arts & Social Sci, Jalan Broga, Semenyih 43500, Selangor,
Malaysia

E-mail Addresses :

sokgee.chan@nottingham.edu.my

Addresses :

▼ ¹ Univ Nottingham Malaysia, Nottingham Univ Business
Sch, Fac Arts & Social Sci, Jalan Broga, Semenyih 43500,
Selangor, Malaysia

▼ ² Int Islamic Univ Malaysia, Kulliyyah Econ & Management
Sci, Kuala Lumpur, Malaysia

▼ ³ Univ Bahrain, Coll Business, Dept Econ & Finance, Zallaq,
Bahrain

▼ ⁴ Katip Celebi Univ, Fac Econ & Business, Dept Finance,
Izmir, Turkiye

E-mail Addresses :

sokgee.chan@nottingham.edu.my; zul_ramly@iium.edu.my;
gbora@uob.edu.bh; saban.celik@ikcu.edu.tr

Data availability statement

Data will be made available on request.

Categories/ Classification

Research Areas: Business & Economics

Web of Science Categories

[Business, Finance](#); [Economics](#)

Funding

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Funding agency	Grant number
Fundamental Research Grant Scheme	FRGS/1/2020/SS0/UM/02/8

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Journal information

INTERNATIONAL REVIEW OF ECONOMICS & FINANCE

1.99

← View Journal Impact

Journal
Citation
Indicator™
(2025)



ISSN 1059-0560

eISSN 1873-8036

Current
Publisher ELSEVIER, RADARWEG 29, 1043 NX AMSTERDAM,
NETHERLANDS

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