

Role of Private Sector in Promoting Green Innovations

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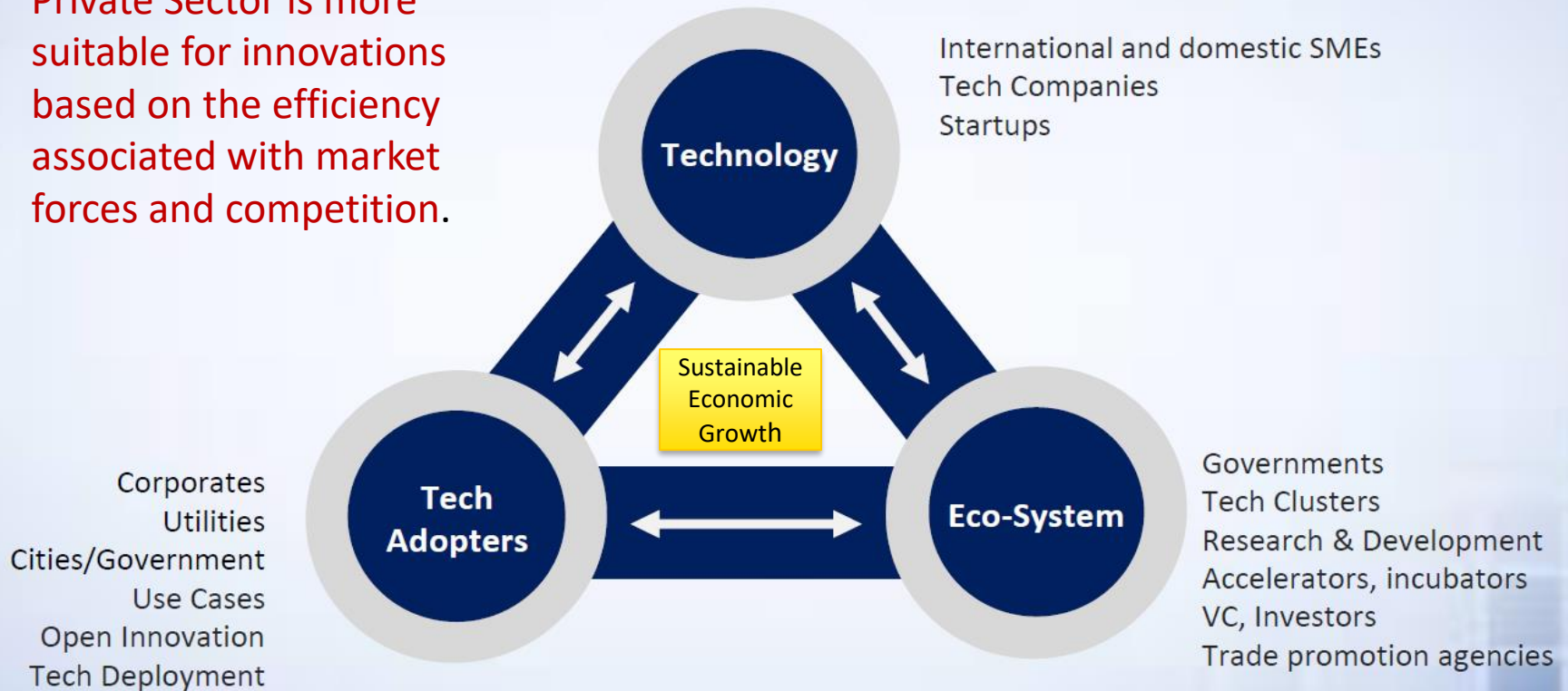
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Eco-system of Green Innovations

Private Sector is more suitable for innovations based on the efficiency associated with market forces and competition.



Green Technology Patents filed by countries in ASEAN and East Asia



Private –Public Decomposition of Green Technological Patents (1990-2017)

	Number of patents (% of total patents)	Alternative energy production	Energy conservation	Forestry and agriculture	Waste management	Number of green patents (% of total green patents)	Number of non-green patents (% of- total patents)
Panel A							
Private	946 329 (95%)	71 213 (85%)	22 399 (96%)	15 186 (93%)	19 609 (95%)	139 949 (90%)	806 380 (97%)
Public	45 026 (5%)	12 802 (15%)	906 (4%)	1 226 (7%)	941 (5%)	16 244 (10%)	28 781 (3%)
Total	991 355	84 015	23 305	16 412	20 550	156 193	835 162

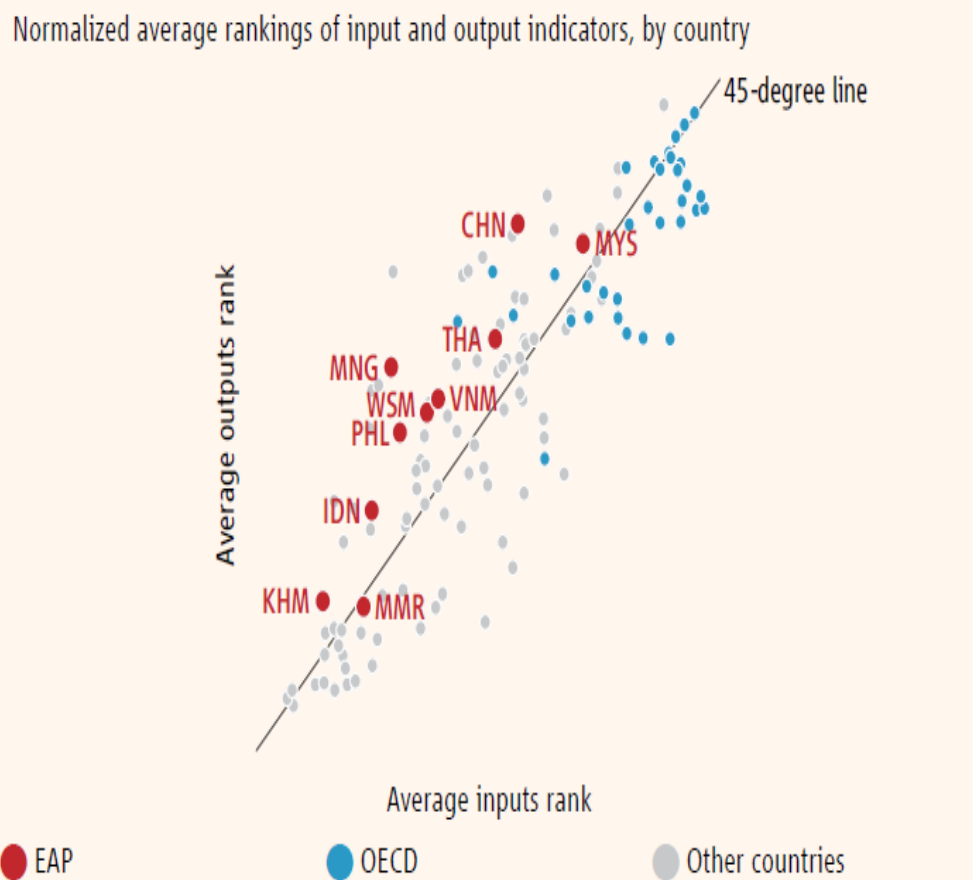
Group	Sector
Company	Private
Government non-profit company	Public
Company hospital	Private
Company university	Private
Government non-profit	Public
Government non-profit university	Public
Hospital	Public
Individual	Private
University	Public

Private Sector: organizations that engage in profit-seeking activities, and have a majority private ownership i.e not owned or operated by the government



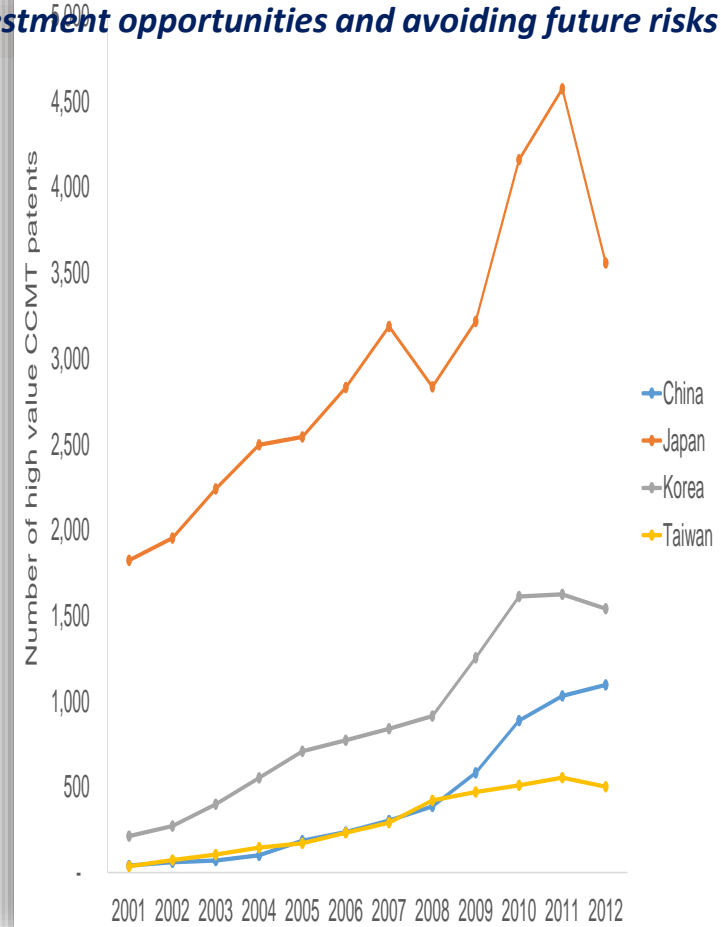
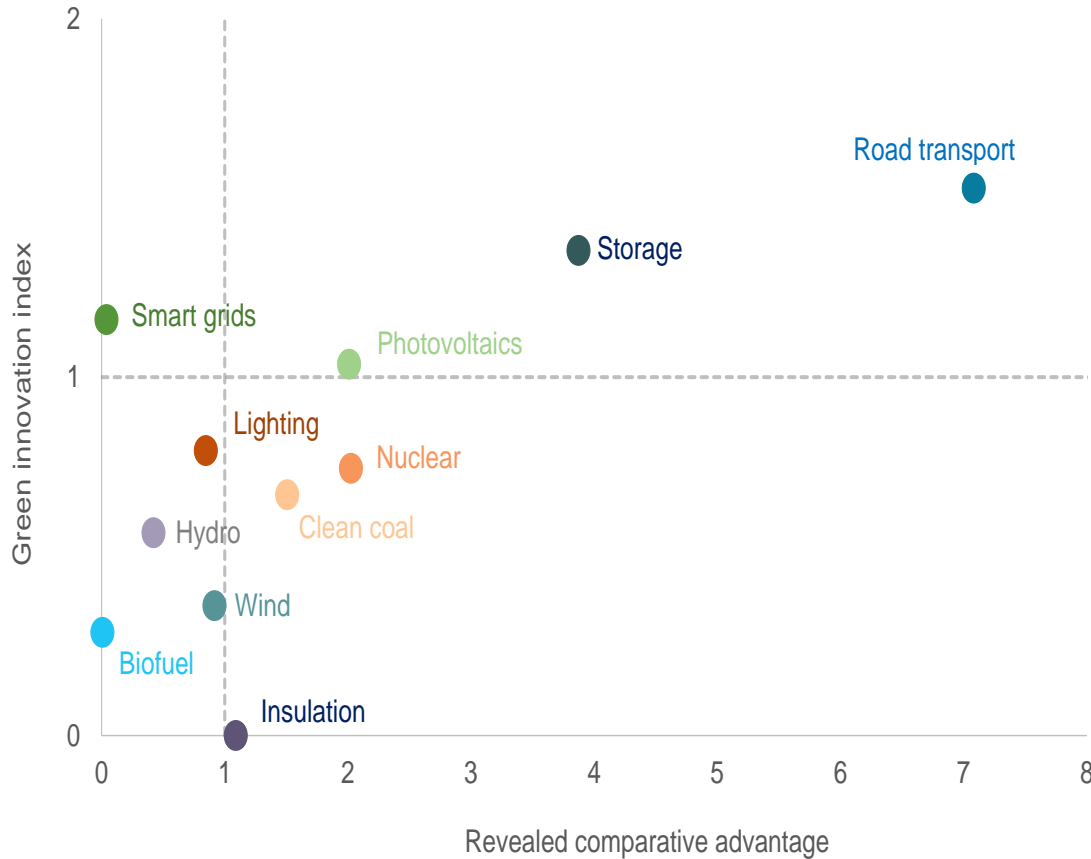
Does Private Sector in Developing Countries have an efficient green innovation systems

- ASEAN has relatively greater innovation efficiency than the rest of developing countries.
- Efficient in converting inputs (R&D, Researchers, IP etc) into high tech exports, trade mark applications and patent applications.
- Lag behind OECD in-terms of level of innovation inputs and outputs



Drivers of Private Sector Action on Green Innovations; Case of Japan in East Asia

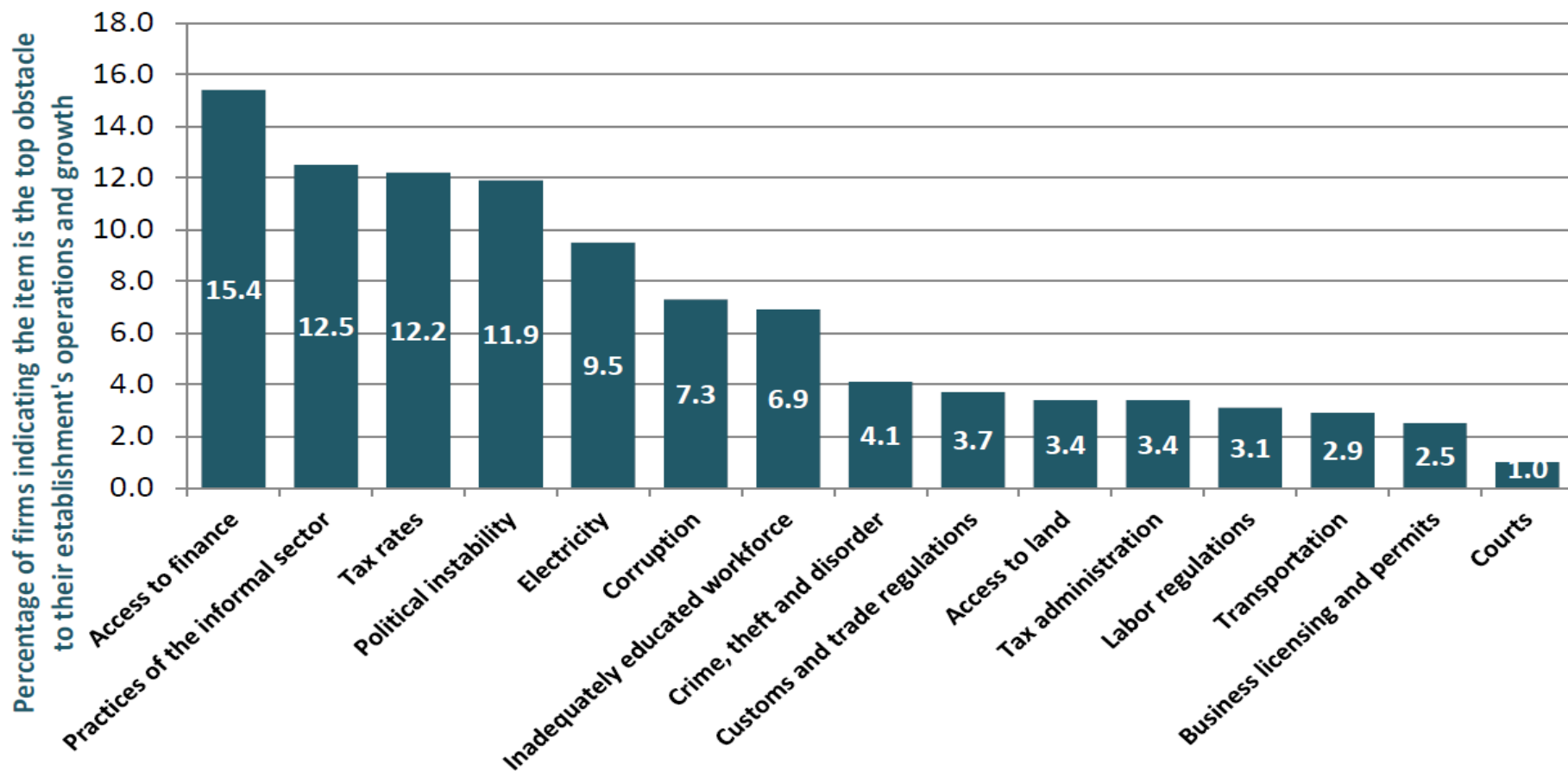
Addressing environmental issues is a key new way of doing business, investment opportunities and avoiding future risks



Japan has developed an innovation and export specialisation in multiple key low-carbon energy sectors



Barriers to Private Sector Investments in on Low Carbon Green Growth



Areas of Good Practices in Green Tech Innovation: Cross – Border Private Sector Cooperation

GBI UK & GBI India

Innovating for Clean Air (IfCA)

UK-India initiative to provide UK and Indian SMEs with the opportunities to test intervention for improving air quality and electric vehicle usage in Bengaluru.

The program is in collaboration with Catapult Network UK funded by Innovate UK

GBI USA & GBI India

USA - India for Waste Management

GBI USA is developing a project to design and develop modular waste-to-energy system for the Indian market that process both **Municipal Solid Waste (MSW)** and **Regulated Medical Waste (RMW)** streams to be combined thereby maximizing available revenue while avoiding redundant infrastructure investments.

Africa

Africa- India Digital Transformation

Providing access to digital and cleantech solutions for African companies from India and Europe.

South Asia

EU-South Asia Innovation Partnership

An initiative to connect the start-up ecosystems between EU, India and Sri Lanka.

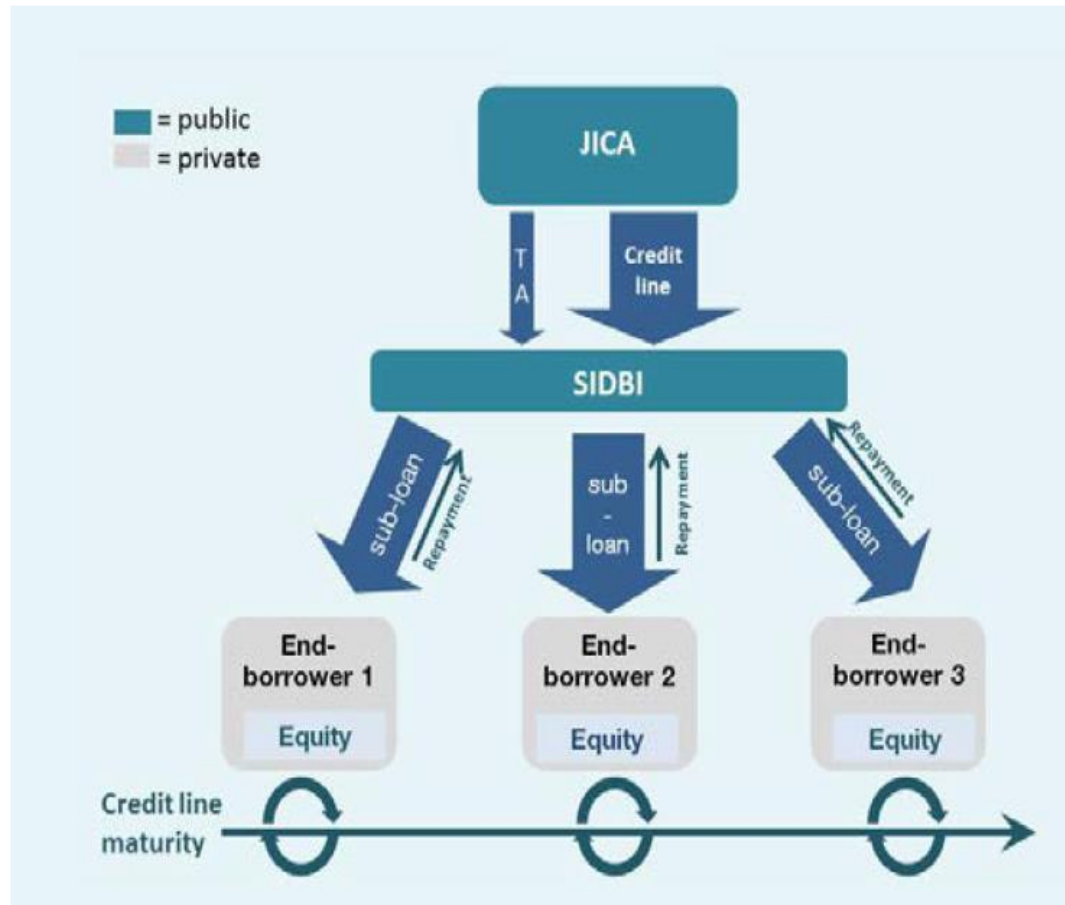
- EU-South Asia Start-up Internationalization Helpdesk
- EU-South Asia Investor Platform
- EU-South Asia Corporate Innovation Platform

South-East Asia

Startup Internationalization: Malaysia to India

GBI is supporting Malaysian startups to access the Indian market in collaboration with MaGIC/Malaysian government - Global Market-Fit Program for innovative start-ups to gain international market access

Areas of Good Practices: Green Credit Lines focusing Innovations in SMEs



- Green credit lines distinguished to address environmental and climate challenges
- Energy efficiency improvement in MSMEs and small farmers.
- Eligibility criteria: awareness creation and building innovative capacity

Ways to upscale the Private Sector Role in Green Innovations

- Speak the language of the private sector – focusing on benefits of increased competitiveness, reduced costs, and improved profits – rather than environmental/climate benefits alone.
- Private sector engagement approaches need to promote not only supplying technology innovations but also a business model for climate protection/sustainable development, by understanding the market demands.
- Private sector role needs to go beyond the low-hanging fruits in innovations (such as RE & EE) and target a range of complex issues such as low carbon economy and circular economy-by building appropriate incentive systems and integrated approaches.
- Build a strong evidence base of what works and what does not for sectors (agriculture, manufacturing, and services – high and low polluting) and countries (low, middle, and high income).

Thankyou



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