36th Singapore Economic Roundtable

SPECIAL SESSION ON SUSTAINABILITY

ASIF IQBAL SIDDIQUI MSS, MBA, PhD

Seníor Vísítíng Scholar, Economíc Growth Centre Nanyang technologícal Uníversity

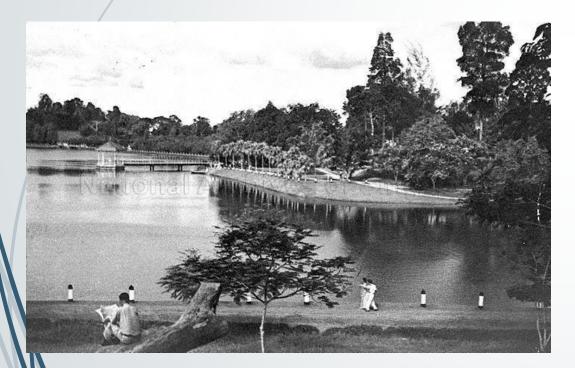


OUTLINE

- Sustainable development in Singapore
- Revisiting the concept & measures of sustainability
- Practical approaches to sustainability: top down and bottom up approaches
- The UN sustainable development goals and Singapore's response
- Corporate sustainability and sustainable investment in Singapore
- Capacity gap in public and private sector
- Q&A and open discussion

SUSTAINABLE DEVELOPMENT IN SINGAPORE: A HISTORIC REFLECTION

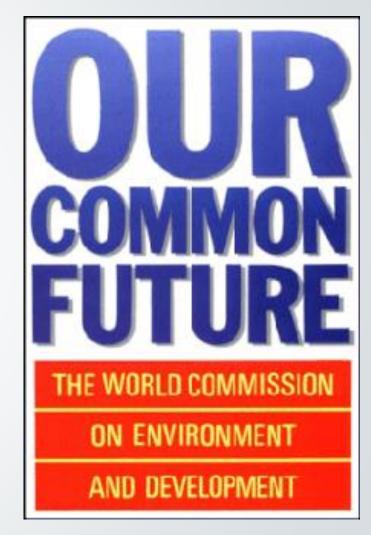
"Sustainable development has been integral to the Singapore Story Since our founding, we have designed policies with long term sustainability in mind." PM Lee, VNR 2018





SUSTAINABLE DEVELOPMENT & SUSTAINABILITY

- Sustainable development is development that meets the needs of the present, without compromising the ability of future generations to meet their own needs." (WCED 1987)
- 100s of definitions of sustainability in literature depicting significant interest as well as ambiguity (Pezzey, 1992)
- Environmentally sustainable economic development aimed to enhance human welfare (WCED 1992)

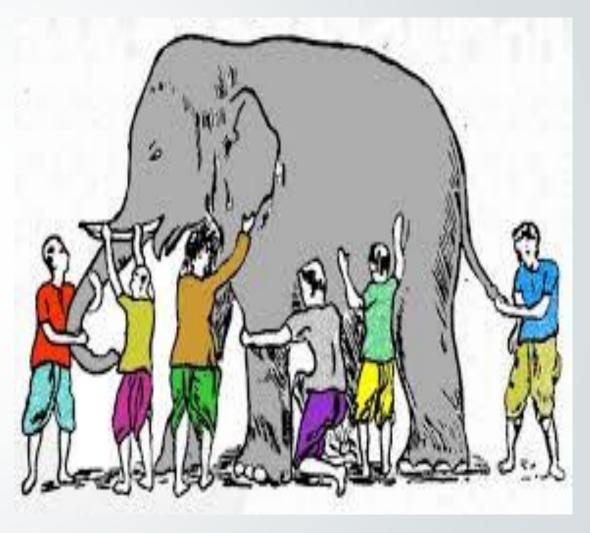


*Pezzey, J. (1992). Sustainable development concepts: an economic analysis. World Bank Environment Paper No. 2.

SUSTAINABLE DEVELOPMENT &

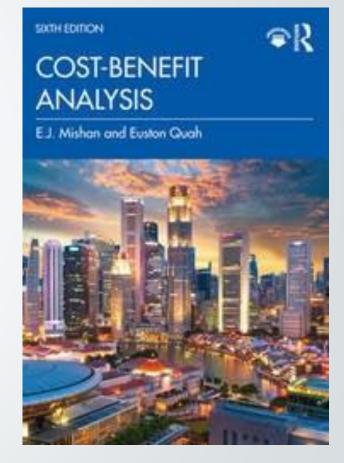
- **SUSTAINABILITY Sustainability:** The ability to sustain
- Defined over systems and/or subsystems*
 - Life span of systems and system hierarchy
 - System balance as an indictor of and an instrument for sustainability

Costanza, R., Patten, B. C. (1995) Defining and predicting sustainability, Ecological Economics, 15, 193–196



SUSTAINABILITY: VALUATION OF ENVIRONMENTAL & SOCIAL CHANGES

- Valuation of social return on investment (SROI)
 - Jules Dupuit (1948) on social profitability
- Cost-Benefit Analysis (CBA)
 - Flood Control Act 1939
 - National Environment Policy Act 1969
- CBA: Methodological development and applications in environmental and social policy



SUSTAINABILITY: VALUATION OF ENVIRONMENTAL & SOCIAL CHANGES

Green accounting: valuation of environmental stocks and flows
System of Integrated Environmental and Economic Accounting (SEEA), 2012
Primary valuation database and value transfer

Corporate environmental impact valuation & carbon accounting
Social impact measurement of social enterprises with application to impact investments*

https://asvb.com.au/social-impact-value/social-impact-measurement/ https://www.environment.nsw.gov.au/resources/about/evri06518.pdf

SUSTAINABLE DEVELOPMENT GOALS AND SUSTAINABILITY POLICY Sustainable development movement is driven by the UN

Sustainability policy & Sustainable Development Goals (SDGs)



SINGAPORE & SUSTAINABLE DEVELOPMENT GOALS

- Voluntary National Report 2018
- Singapore Green Plan 2030 & SDG localization with a multi-ministry taskforce
- **The priority areas**
 - City in nature
 - Energy rest
 - Green economy
 - Resilient future
 - Sustainable living
- Social sustainability
 - Work life balance & mental wellbeing
 - Socio-cultural space & harmony
 - Modesty in consumption



VOLUNTARY NATIONAL REVIEWS SYNTHESIS REPORT



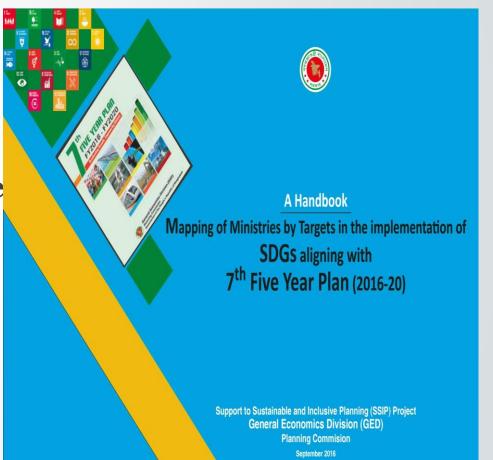
Investigation (by Weissen für Sussainable Developpment Große Septement of Economic and Social Misin Instact Reviews

SDG MAPPING & CAPACITY GAP IN PUBLIC SECTOR

□ All of society approach

□ Thematic and geographic **mapping***

Capacity of public sector/servants in aligning development initiatives with the SDGs



http://bbs.portal.gov.bd/sites/default/files/files/bbs.portal.gov.bd/page/3acbc97e_6ba3_467h d.2_cfb3cbbf059f/A-Handbook-Mapping-of-Ministries_-targets_-SDG_-7-FYP_2016.pdf

SINGAPORE'S CLIMATE COMMITMENTS

- Inter-Ministerial Committee on Climate Change 2007
- Reducing Emissions Intensity by 36 per cent from 2005 levels by 2030
- □ Singapore is first to introduce **carbon tax** in ASEAN
 - Incentive for necessary energy transition
 - Basis for the development of market instrument
 - Voluntary carbon market & market bases carbon pricing
- **Food security**
 - Circular economy and waste management (especially plastic and e-waste)

https://www.nccs.gov.sg/singapores-climate-action/singapore-approach-toalternative-energy/

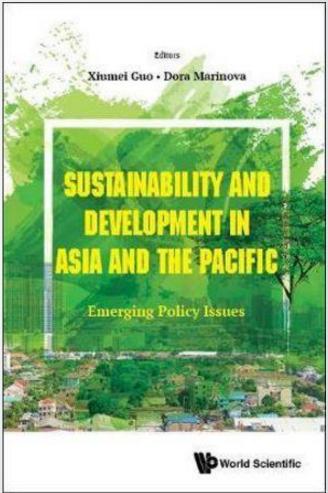
SINGAPORE'S CLIMATE ACTION PLAN



SUSTAINABLE INVESTMENT & CORPORATE SUSTAINABILITY

- Ethical & socially responsible investment
- Sustainable investment movement 1970s & 80s
 - Civile right movement and consumer mobilization
 - Sullivan principles and investor mobilization
 - Trillium Asset Management
 - Exxon Valdez accident & Valdez Principles
- ESG risk/ opportunities & long term value investing*

*https://www.unepfi.org/fileadmin/documents/Demystifying_Res ponsible_Investment_Performance_01.pdf



CORPORATE SUSTAINABILITY & SUSTAINABLE INVESTMENTS

- The growth of sustainable investment funds*
- Sustainable investment strategies
 - Core (screening, **thematic** & impact investing)
 - **Broad** (Shareholder engagement & ESG integration)
- Identification, valuation and prioritization of assets, projects and processes for sustainability
- **ESG** risk, long term value investing & **performance of ESG funds**
- **General Financing for sustainability**

*http://www.gsi-alliance.org/wp-content/uploads/2021/08/GSIR-20201.pdf

CORPORATE SUSTAINABILITY & ESG DUE DILIGENCE

Sustainability accounting and reporting

- GRI, TCFD & GHG protocol
- The issues in synchronization & standardization
- The valuation of environmental and social impacts for companies
- **ESG** matrix development
 - Common set of variables
 - Industry based variables
- **ESG** risk and opportunities for SMEs
- Corporate sustainability, strategies & capacity gap
 - Regulators to monitor
 - Companies to communicate
 - Investors to assess

Thank you



ai.siddiqui@ntu.edu.au