36<sup>th</sup> Singapore Economic Roundtable

# SPECIAL SESSION ON SUSTAINABILITY

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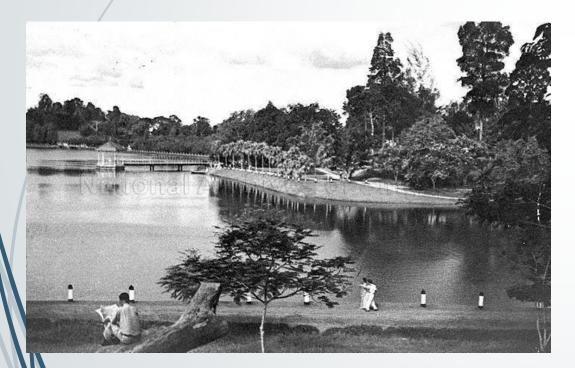


### OUTLINE

- 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

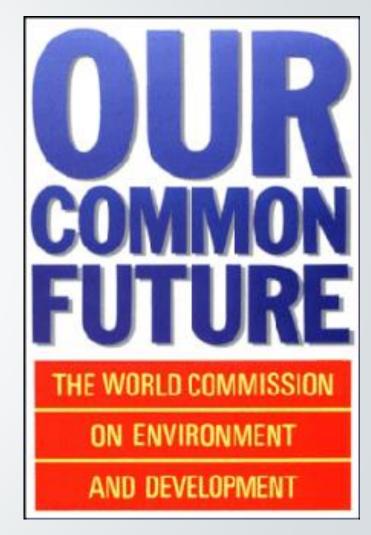
"Sustainable development has been integral to the Singapore Story .... Since our founding, we have designed policies with long term sustainability in mind." PM Lee, VNR 2018





### 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)

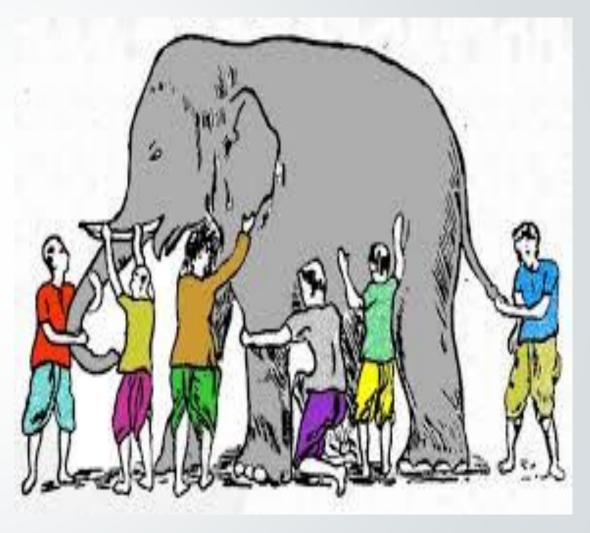


\*Pezzey, J. (1992). Sustainable development concepts: an economic analysis. World Bank Environment Paper No. 2.

### SUSTAINABLE DEVELOPMENT &

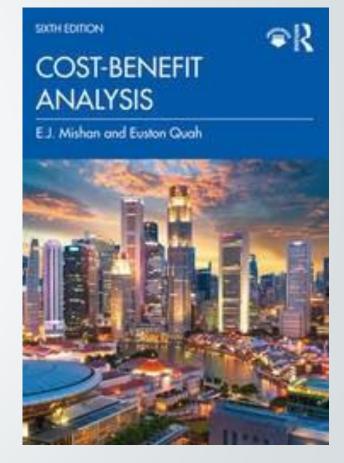
- **SUSTAINABILITY Sustainability:** The ability to sustain
- Defined over systems and/or subsystems\*
  - Life span of systems and system hierarchy
  - System balance as an indictor of and an instrument for sustainability

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



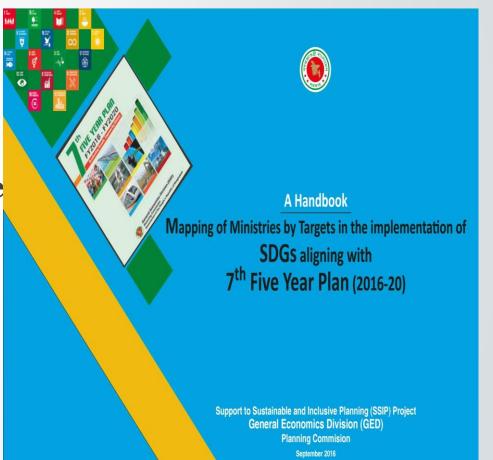
Investigation (by Weissen für Sussainable Developpment Große Septement of Economic and Social Misin Instact Reviews

### 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/

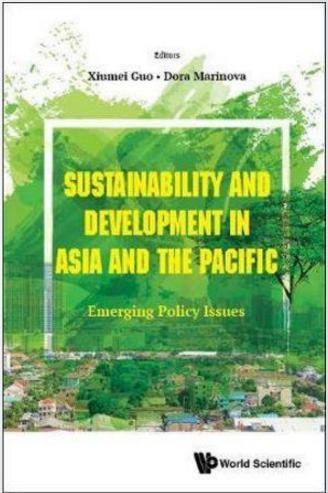
### SINGAPORE'S CLIMATE ACTION PLAN



### 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



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