

CLIMATE MITIGATION: FROM GLOBAL TO REGIONAL AND LOCAL LEVELS

Presentation By:

Datuk Dr Mohd Yusoff Sulaiman President & CEO

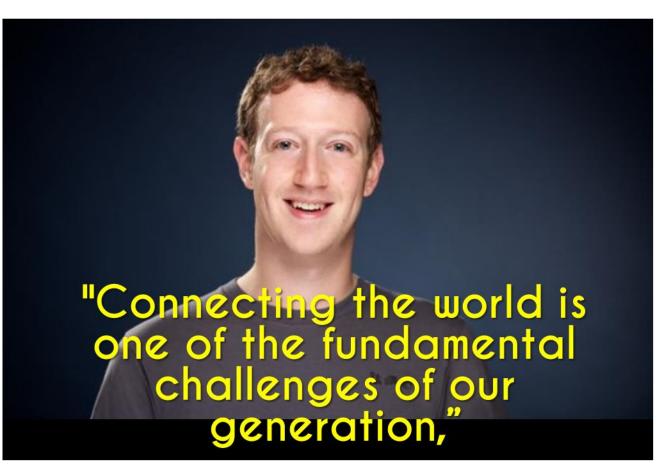
12 October 2015

4th Annual Meeting Low Carbon Asia Research Network, Johor Bahru, 11-13 October 2015

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UN Sustainable Development Conference, 2015



- Mark Zuckerberg at the UN Sustainable Development Conference, 2015



Its' "Connectivity Declaration" states that Internet access is "essential for achieving humanity's goals, and wants to get the Internet to everyone on Earth by 2020.

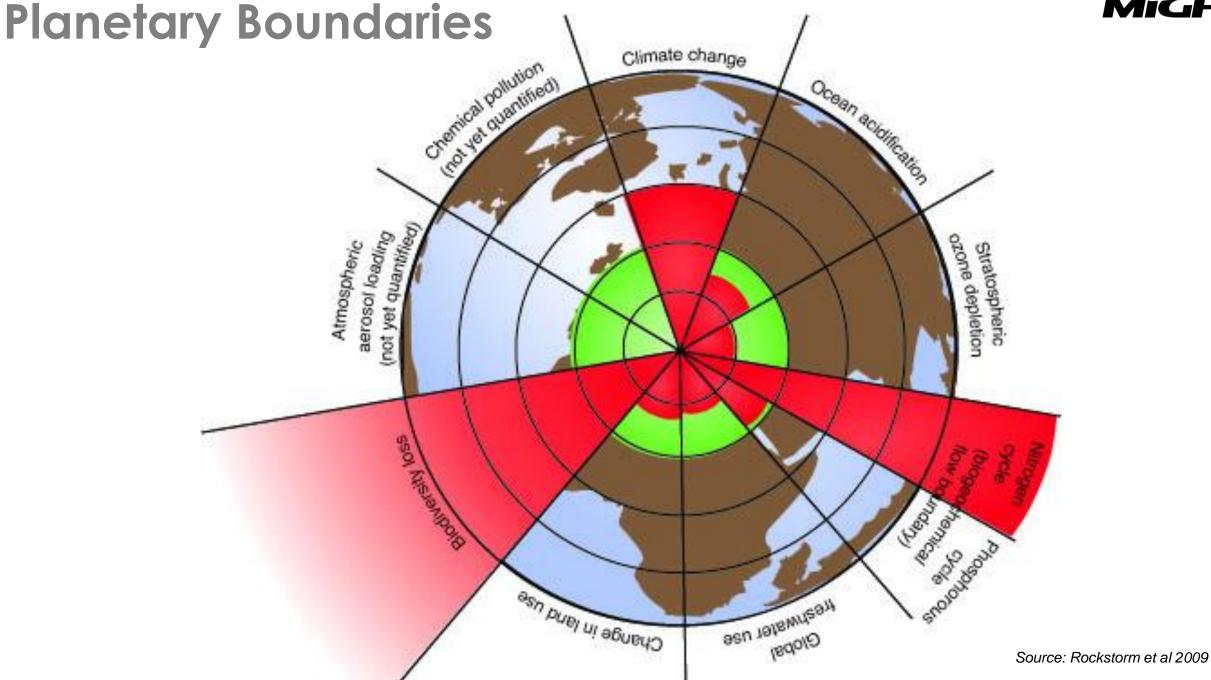
- ONE, an international advocacy organization founded by U2 front man Bono

Global Challenges











Three Pillars to the Post 2015 Development Agenda





SUSTAINABLE GALS





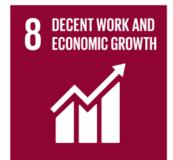




























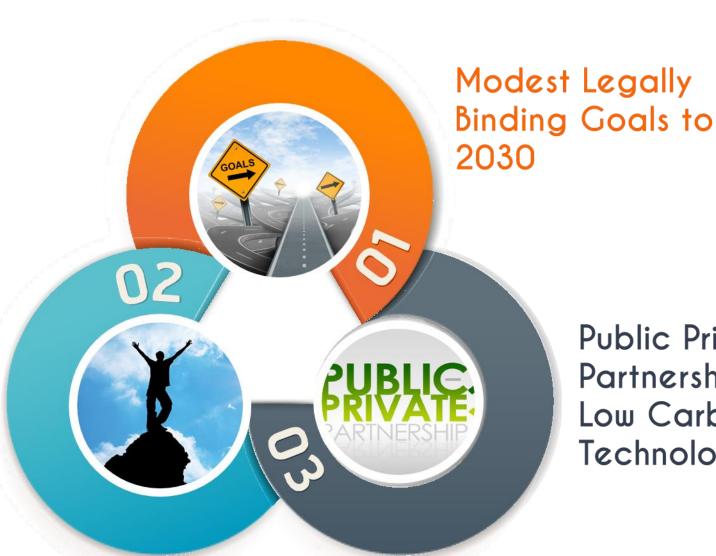




Three Tiered Global Mitigation Agreement at COP 21



Bold Aspirational Deep Carbonization Pathways to 2050



Public Private Partnerships for Low Carbon **Technologies**

National Strategies & Initiatives



- National Green Technology & Climate Change Council
- Low Emission Capacity Building
- Clean Development Mechanism
- Green Technology Funding Scheme
- MYCarbon
- Feed-in-Tariff





Malaysia's Climate Change Priorities



Climate adaptation and mitigation actions supported with adequate adaptation measures



Voluntary measures for emission reduction and transition to a low-carbon society



Eleventh Malaysia Plan: Focus Areas

Strengthening the enabling environment for green growth

Strengthening governance to drive transformation

Enhancing awareness to create shared responsibility

Establishing sustainable financing mechanisms

D) Strengthening resilience against climate change and natural disasters

Strengthening disaster risk management (DRM) Improving flood mitigation

Enhancing climate change adaptation







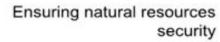
Adopting the sustainable consumption and production concept

Creating green markets Increasing share of renewables in energy mix

Enhancing demand side management (DSM) Promoting low carbon mobility

Managing waste holistically

Conserving natural resources for present and future generations



Enhancing alternative livelihood for indigenous and local communities



Our Focus





National Waste Grid Program



Benefits

Government



Reduction of up to RM 5 B in capital expenditure for waste treatment facilities until 2020

Rakyat

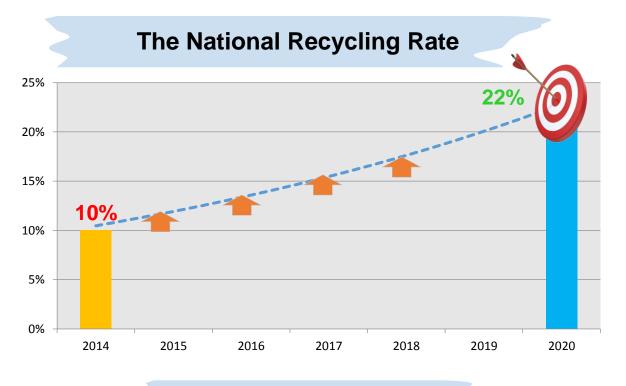


Increased income to the student community by direct buyback points system for recycled items

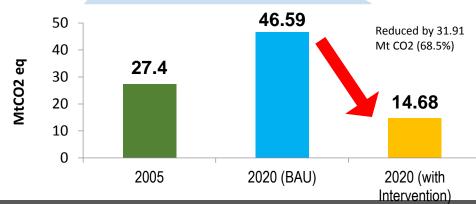
Industry



Capital and operational investment by the private sector up to RM 2 B until 2020 for privately operated Waste Industry Eco Park



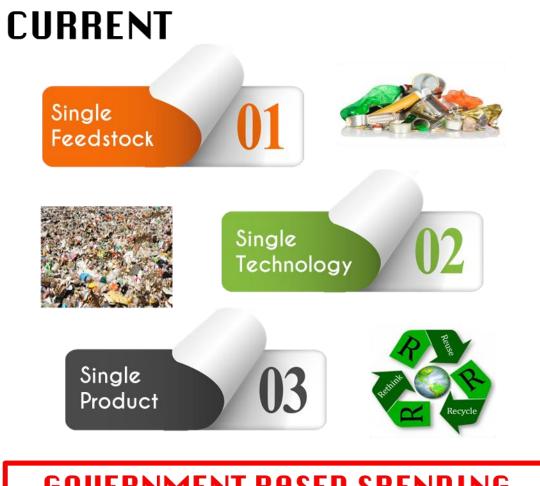
The Environment



A High Impact Program



NATIONAL WASTE GRID = HOLISTIC WASTE MANAGEMENT



GOVERNMENT BASED SPENDING



Source: MIGHT – Green Technology Foresight 2030



MiGHT

Need for alternative feedstocks...and innovation

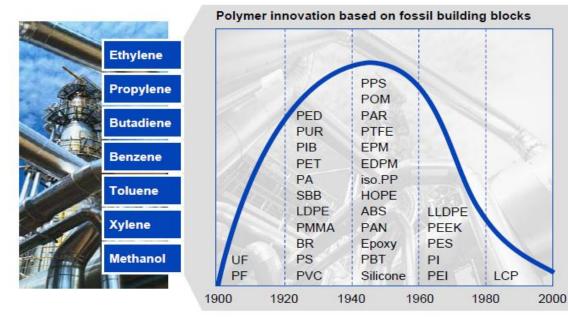
- Oil Scarcity
- Oil price volatility
- Growing population
- Growing Wealth

Sustainable Demand

- Concerning of reserves of fossil fuels
- Growing public environmental concerns (climate change, CHG reduction, global warming, etc.)
- Sustainability demand from end consumers
- Sustainability objectives set by many companies

Technology Development

- Continued advanced in biotechnology
- Agricultural feedstock at competitive prices



Source: McKinsey & Co., 2009



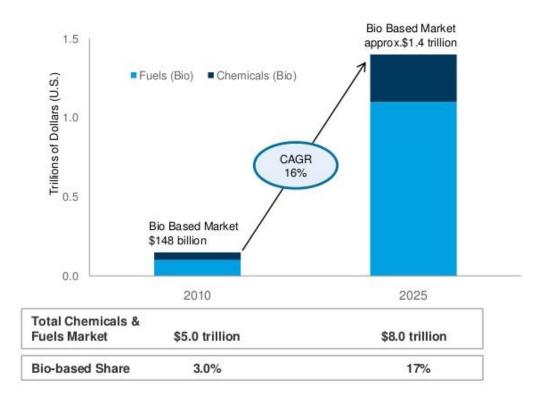
- 1. New Building Block
- 2. New Opportunities

Bio-based Market Projection

MiGHT

Bio-based Market Opportunity

Source: Silicon Valley Bank June 2012



From Petrochemicals to Green Chemicals

We use 87 million barrels of oil per day Chemicals represent < 10% of total oil consumption







- Plastics packaging
- Chemicals in shampoo
- Surfactants in detergents
- Chemical fibers in cloth
- Ink
- Glue
- Paint
- Rubber







WHAT DO WE DO WHEN THE WORLD RUNS OUT OF OIL?

- No Oil, No Plastic!

Smart Communities Program



Industry Driven Projects Based Partnership Centric Government Facilitated

International Collaboration -Strengthening the 'Melaka Living Lab'



.....Integrating City Systems for High Inclusiveness & High Multiplier Impact

(Focus Areas: Community Needs Driven, Green Industry Clusters, Capacity Building, R&D & Localization)

2. NUO: 2nd Call - Potential Demo Projects in Melaka

Innovate UK

- 1. Cambridge: ICT- Platform Technology for Sensors
- 2. IES : City Data & Simulation
- 3. Transport System Catapult: ICT- Multi-Modal Citizen Journey Planning.
- 4. Green Lizard: Green Platform Technology from Biodiesel By-products to value add chemicals applicable in multiple sectors.

Status - Facilitating linkages for submission on 30-9-15.

3. GLOBAL ENVIRONMENT FACILITY 6: Sustainable Cities Development in Malaysia

Roll-out Plan:

Sept 2015: Engagement with EPU as Key Partner

Sept 2015: Engagements with Key Partners, e.g. Corridors.

Oct 2015: National Steering Committee Meeting No.1

Oct 2015: Workshop 1 Dec 2015 : Workshop 2 Feb 2016: Workshop 3

May 2016: Submission of Project Details

Sept 2016: Disbursements of Remaining project Funding

NEWTON-UNGKU OMAR FUND (NUOF): 1st Call - Big Data Project in Melaka

PROJECT: BUILDING LOCAL CAPACITY IN UNDERSTANDING, ANALYZING AND VISUALIZING BIG DATA IN MELAKA, MALAYSIA













Status - Workshop No.2 in Melaka - pendina date finalisation















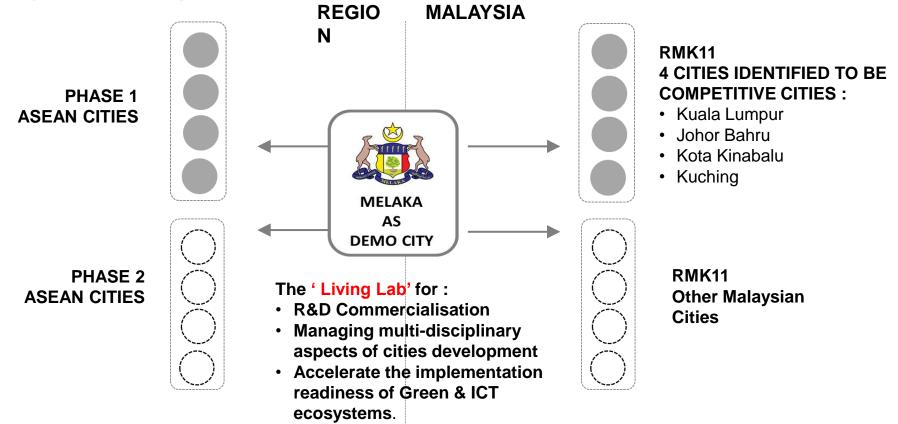
Workshop 1:

- 1. Objectives:
 - To provide project overview and deliverables/ time.line.
 - To gather input on implementation
 - To gather information on related projects to date in Malaysia
- 2. No of days: I full day
- 3. Location : Kuala Lumpur
- 4. No of pax : 100 pax

Implementation



Role of Melaka & Rest of Cities



COLLABORATION ARRANGEMENTS

MIGHT IN PARTNERSHIP WITH REGIONAL PLATFORMS



(1)



- ASEAN Secretariat
- ASEAN Innovation Network
- IMT-GT

MIGHT IN PARTNERSHIP WITH STATE PLATFORMS:

- Regional Economic Corridors
- State Green Technology Corporations
- State ICT GLCs.

Global Cleantech Innovation Programme



VISION

Malaysia as **Regional** Cleantech innovation **hub** with **competitive** global status **companies** delivering solution to mitigate climate change and environment degradation.



STRATEGIC OBJECTIVES

Creating investable Malaysian cleantech companies

Bridging Market, Technology & Funding.

Intensify commercialization towards green market access through national programs such as Smart Communities.

Continue Support to accelerate GCIP **Alumni** towards **Scale-up** stage & becoming Regional/Global Industry **Champions**.

Cleantech Global Network



TECHNOLOGY

- Technology Foresight
- Technology Deepening
- Access to Academia

FUNDING

- Investments
- Facilitation funding
- Access to Venture Cap.









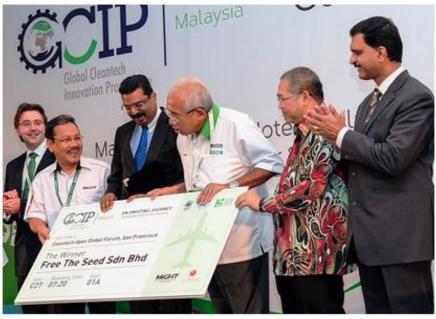




Free The Seed to represent Malaysia at global green forum

Digital News Asia Oct 21, 2014

- · Processes paddy husks into fibre for boxes, packing material
- · Has the potential to improve the livelihood of farmers



Free The Seed founder Ramaness Parasumaran (third from left) receiving his prize from Deputy Minister of Energy, Green Technology and Water, Mahdzir Khalid.

AN idea to turn fibre derived from paddy husks and stalks into recyclable boxes and other packing material won the Malaysian leg of the Global Cleantech Innovation Programme (GCIP).

Free The Seed Sdn Bhd came out tops in the competition-based accelerator programme that aims to nurture startups in the green technology sector to bring their ventures to the next level by providing them with mentoring, coaching and connections to the right investors and markets.

Organised by the United Nations Industrial Development Organisation (Unido) and The Cleantech Open accelerator, and supported by the Global Environment Facility (GEF), the programme was held for the first time in Malaysia.

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Sustainable Development Solution Network (SDSN)



The Sustainable Development Solutions
Network (SDSN) is a global network that
mobilizes scientific and technical
expertise from academia, civil society,
and the private sector in support of
sustainable development problem
solving at local, national, and global
scales.



Functions







- To expand regionally and nationally to accelerate practical problem solving
- To develop and disseminate online materials

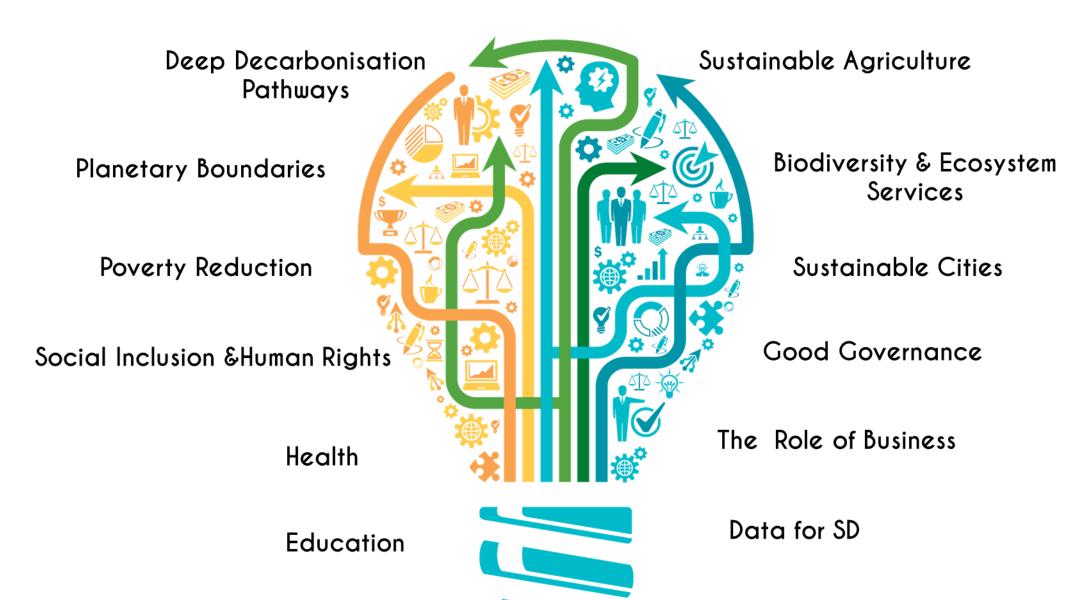








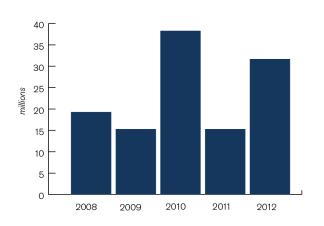
SDSN: Thematic Networks



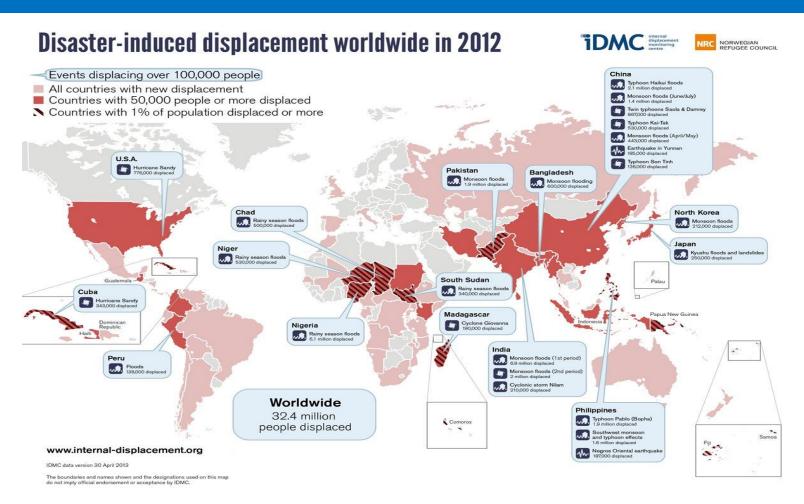
Eco-homes For Disaster Relieve



Climate Change and Natural Disaster has displaced 120 million people from 2008 to 2012, or an average of 24 million people a year.







People newly displaced each year by climate and weather related hazards, 2008 – 2012 (Source: Internal Displacement Monitoring Centre (IDMC))



Current Efforts for Climate Displaced & Environmental Migrants

Immediate Response Systems are Limited

1

Immediate housing for displaced persons are limited in quantity and quality

2

Most are tent based (very temporary in nature) and cannot survive against elemental forces for long

3

Quantity and quality is a problem - often not enough sturdy housing for medium to long-term climate change displaced refugees.







In conclusion ...

Implementation, Implementation, Implementation





Collaborative Model That Works On A Win-win Approach



THANK YOU



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Contact Information MIGHT Tel: +603 87157888

Email: CorporateCommunication2@might.org.my