SCG: CIRCULAR ECONOMY
BUSINESS IMPACTS

Risk of inaction

Captures new economic opportunities

Circular economy principles

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<th>Durability</th>
<th>Replacement</th>
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<th>Renewability</th>
<th>Upgrades</th>
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<th>Reuse</th>
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<th>Repair</th>
<th>Reduced material use</th>
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Opportunities

- Reduce operating costs
- Improve competitiveness
- Strengthen relationships:
  - Customers
  - Employees
  - Providers

Source: CEO Guide for Circular Economy, WBCSD
GROWING THE CIRCULAR ECONOMY NETWORKING BY SD SYMPOSIUM

SCG SD Symposium 2018, Bangkok

WBCSD Council Meeting 2018, Singapore
CREATING “COLLABORATION” ON CIRCULAR ECONOMY PLATFORM

Greenovation Lube Packaging
Circular Economy

Plastic wastes mix Asphalt, a Circular
Economy for Road Construction

Paper Recycling
Through Value Chain Collaboration

Glasswool Insulation
Waste Recycling Collaboration
ESTABLISHING STRATEGIES TO UNLOCK CIRCULAR ECONOMY VALUE

2. Circular Product & Service Development TO CREATE & MAINTAIN VALUE OF MATERIALS

1. Waste Littering & Management TO COLLECT & RE-CREATE RECYCLABILITY

* TH issue, now from waste to collection and dump in landfill
Waste Management Challenges & Opportunity

MANAGE BY-PRODUCT TO CREATE RECYCLABILITY

Sorting

Littering station
- Easy and friendly sorting station using visualization
  Example
  - PET
  - Plastic
  - Hazardous waste
  - Dirty waste
  - Glass/Metal
  - Paper

Mindset and Behavior
- Educate employees for correct waste sorting
- Promote “value to me” and “value to society”

Collecting

Waste collection
Rightly Manage:
- Storage
- Distribution
- Logistics

Re-processing

High value
- Upcycling
- Recycling
- Alternative Materials e.g. RECYCLED PLASTIC ROAD
- Incineration/ RDF
- Fertilizer/ Compost

Zero Waste to Landfill
WASTE MANAGEMENT MODEL:

Objective:
- Manage waste at beginning source
- Demonstrate as a role model: From office to home
- Build an ecosystem to circulate resource
- From sorting collecting to recycling

#ใช้ให้คุ้ม #แยกให้เป็น #ทิ้งให้ถูก
INNOVATION - PACKAGING IN CIRCULAR ECONOMY

To driving innovation trends for
Raw material producer Brand owner cooperation

Example: Recycle of Lube oil gallons

*Photo for illustration only*
Work with Department of Highway and Department of Rural Road to create plastic road standard
DESIGN PRODUCTS TO MAINTAIN VALUE OF MATERIALS

Reduced material use
Thinner and lighter weight material with high strength for food & beverage and consumer packaging

Durability
High strength material for multiple usage industrial packaging

Reuse
Industrial Bulk Container
Chemical drum container

Renewability/ Recycle
Higher percentage of recycled plastic resin blending while maintaining product property

Recycle
Recyclable mono-material packaging with high oxygen barrier to replace Aluminum layer

Replace

Food & beverage packaging
5 KEY SUCCESS FACTORS FOR CIRCULAR ECONOMY

1. Awareness

- Sharing and raising awareness
- Waste bank at Khao Phai community

2. Collaboration

- Partnership with private companies
- Alliance to End Plastic Waste
- wbcsd

3. Regulations

- Public-Private Partnership (PPP)
- Government sector
- Private sector
- Civil society/non-profit organization
- Waste management roadmap

4. Innovation

- Plastic waste recycled road
- Recycled product
- More durable

5. System

- Principles and procedures according to circularity measures