



# 15<sup>th</sup> NSTDA Annual Conference (NAC 2019)



# Science Technology and Innovation for Sustainable Consumption and Production (STI for SCP)

Assoc.Prof. Thumrongrut Mungcharoen, PhD.

National Science and Technology Development Agency (NSTDA) and Secretary General, Thai SCP Network







## **Topic: STI for SCP**

#### Organized by:

- 1. National Science and Technology Development Agency (NSTDA)
- 2. Thailand Network on Sustainable Consumption and Production (ThaiSCPnet)
- 3. Knowledge Network Institute of Thailand (KNIT)
- 4. Thailand Academy of Science and Technology (TAST)

#### Agenda:

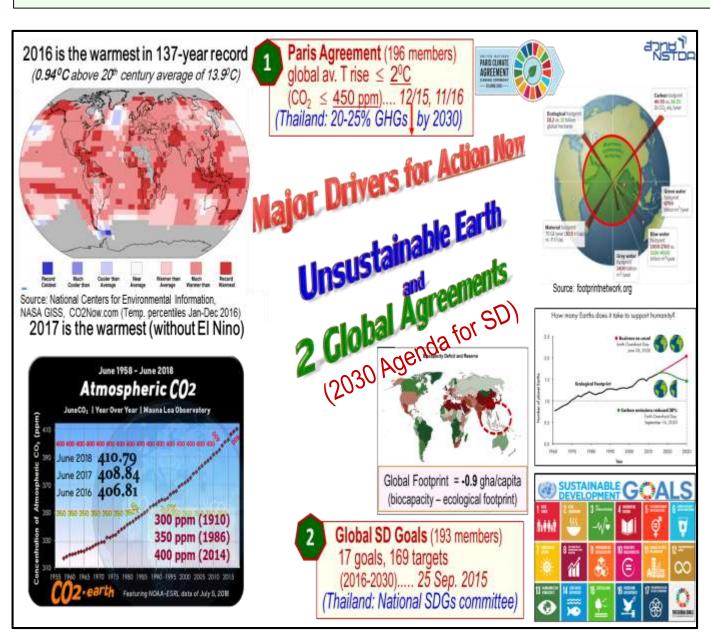
- 09.10-10.30 The Role of STI in SDGs (in English)
- 10.45-12.00 The STI as driven tool for SCP (in Thai)
- 13.30-16.00 Training Workshop: STI for SCP (in Thai)
  - Sustainable Industry
  - Sustainable Agriculture & Food
  - Sustainable Tourism & Service

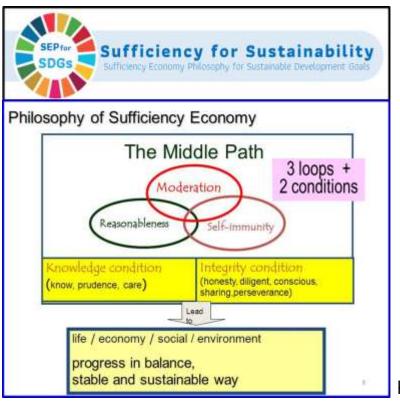
#### ADDE TO

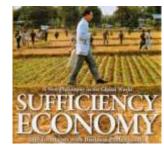
## **Sustainable Development Goals (SDGs)**

#### **SD** in Thailand Context

(Sufficiency Economy Philosophy: SEP)









His Majesty the Late King Bhumibol Adulyadej



## Position of NSTDA on STI for SDGs





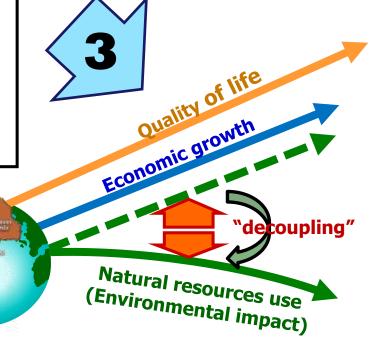
National target: 30% RE by 2036 & Commitment: 20-25% GHGs↓ by 2030

### "STI for SDGs":

help support National target & Global commitment

- 1. GHGs reduction (Paris Agreement)
- 2. Sustainable Development Goals
- 3. Decoupling





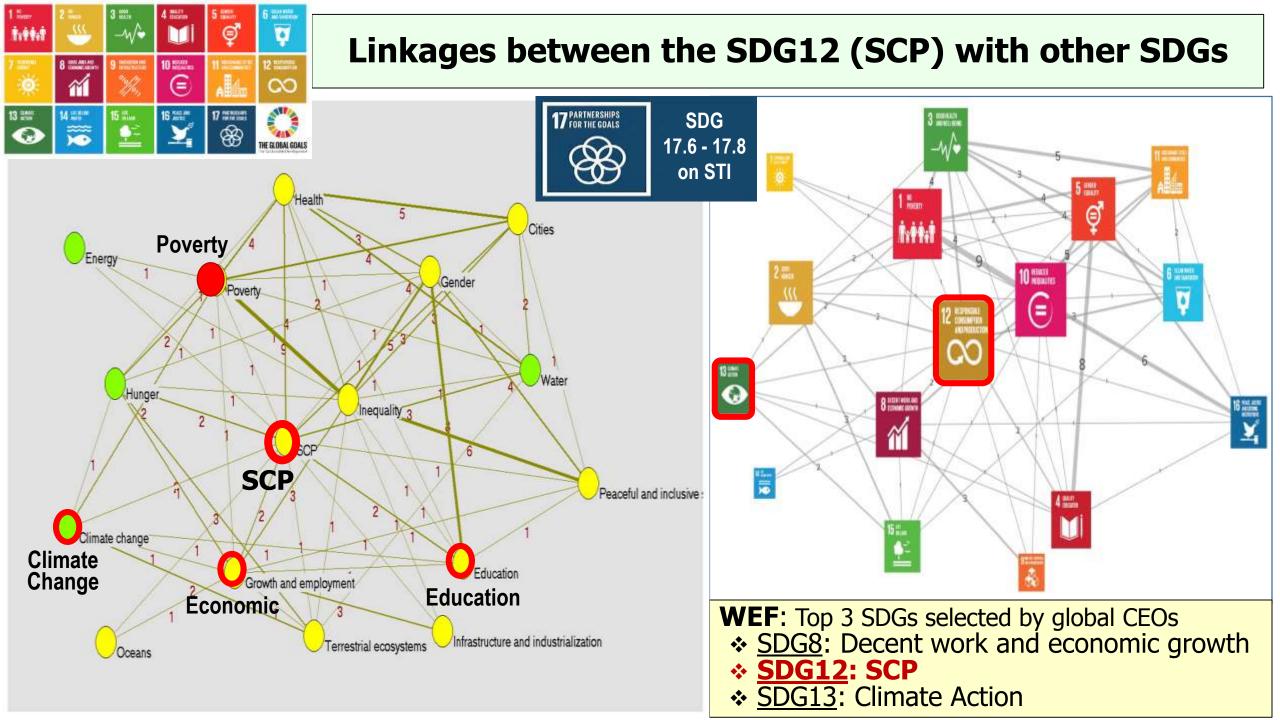
**Sustainable Development Goals 2030** 



Support at least 7 out of 17 SDGs (2030)

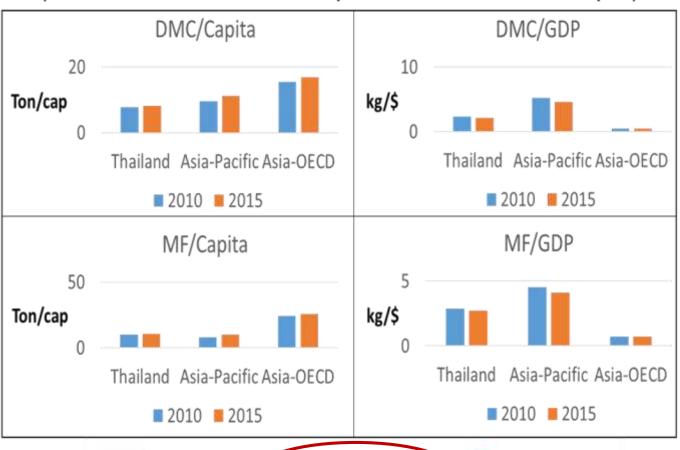
4. Can be scaled-up & open for partnership!

Thailand → ASEAN → Global



#### Case Studies: STI support on national baseline data for SDGs 12.2/8.4, 9.4, 12.3, 12.b (NSTDA & partner orgs.)

# Case Study SDGs Indicators Baseline Data & Improvement (SDG 12.2.2 Domestic Material Consumption and SDG 12.2.1 Material Footprint)

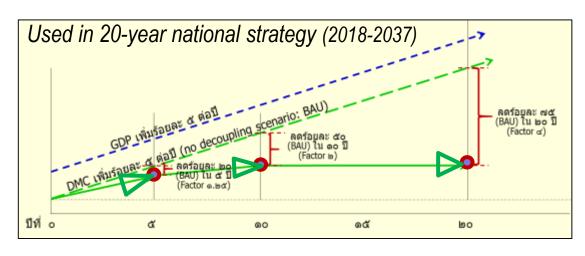






MOU between <u>ONEP</u> and NSTDA on 22 March 2018 to "Support STI for SDG12"





Other SDGs Indicators Baseline Data for Thailand are under studied at NSTDA & partner organizations:

- **1. SDG 12.2.1** (=8.4.1), **12.2.2** (=8.4.2).. with <u>UN Environment</u>
- 2. SDG 9.4.1 GHG emissions (consumption-based accounting) per unit of value added... with UNIDO
- 3. SDG 12.3.1 Food Losses Index.... with FAO
- **4. SDG 12.b** Sustainable Tourism: using SEEA (System of environmental and economic account) with TSA (Tourism satellite account)... with Ministry of Tourism & Sport

From baseline data → Benchmarking + Hotspots for improvement

Will illustrate the STI for SDGs at the Regional & International Level with the following 4 case studies:

- 1 Thai Academy of Science and Technology (TAST) with AASSA and IAP on STI for SDGs
- 2 Thailand with Indonesia, Japan, UNESCAP, APRSCP and partners on SCP at HLPF 2018
- ③ NSTDA with UN environment on Global LCA Data Access Network (GLAD)
- 4 NSTDA support UN environment project: (1) AP Low C Lifestyles Challenge (2) Mobile app for reducing food waste or "Lookie Waste"









Association of Academies and Societies of Sciences in Asia



"S&T have a profound impact on the society and nation as a whole"

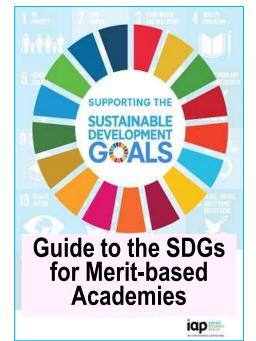
#### 1. STI-SD: Policy and Knowledge Dissemination:

**1.1 Policy:** *Past President* → ex-Minister of S&T

Current President → a member of "National Research and Innovation Policy Council"

- 1.2 Public Seminar related to SDGs: for examples
  - □ "Thai SD Perspective on Food Loss and Waste" (SDG 12.3) in 2017
  - □ "Aging Well in Thailand 4.0" (SDG 3) on 26 January 2018
- 1.3 Books & Reports: for examples
  - □ Report on "Food and Nutrition Security and Agriculture in ASEAN" (SDGs 2, 3, 12) published in 2016 as part of the IAP's project 3.5 years (Nov 2015 June 2018)
  - □ Book on "Sustainable Energy Development for Thailand" (SDG 7) published in April 2007
- 1.4 SD information on Website:
  - ☐ Link to several SDGs information sources in Thailand
- 2. STI-SD Policy & Implementation:

TAST participated in **STI for SDGs**, **both Policy support & Baseline data development** for Thailand



Will illustrate the STI for SDGs at the Regional & International Level with the following 4 case studies:

- 1 Thai Academy of Science and Technology (TAST) with AASSA and IAP on STI for SDGs
- 2 Thailand with Indonesia, Japan, UNESCAP, APRSCP and partners on SCP at HLPF 2018
- ③ NSTDA with UN environment on Global LCA Data Access Network (GLAD)
- 4 NSTDA support UN environment project: (1) AP Low C Lifestyles Challenge (2) Mobile app for reducing food waste or "Lookie Waste"



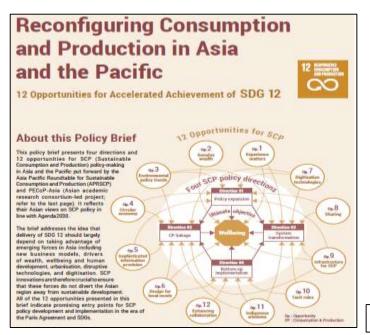
# NSTDA (a representative of Thailand) participated as a speaker in the side event of HLPF 2018: "SCP in Asia and the Pacific for Accelerated Achievement of SDGs" on 18 July 2018 in NY

(co-organized by Governments of Indonesia, Japan, Thailand, UNESCAP, APRSCR, PECoP-Asia and IGES)
Participants: ~ 100 persons (government policy makers and agencies, international agencies and other relevant stakeholders

#### Presentation topic of Thailand: "Announcing an initiative for SCP and sufficiency economy"







Will illustrate the STI for SDGs at the Regional & International Level with the following 4 case studies:

- ① Thai Academy of Science and Technology (TAST) with AASSA and IAP on STI for SDGs
- ② Thailand with Indonesia, Japan, UNESCAP, APRSCP and partners on SCP at HLPF 2018
- ③ NSTDA with UN environment on Global LCA Data Access Network (GLAD)
- 4 NSTDA support UN environment project: (1) AP Low C Lifestyles Challenge (2) Mobile app for reducing food waste or "Lookie Waste"



Footprint

Family: CF,

# Thailand joins the Global LCA Data network (GLAD) with UN Environment (SDGs 12 and others)



Will illustrate the STI for SDGs at the Regional & International Level with the following 4 case studies:

- 1 Thai Academy of Science and Technology (TAST) with AASSA and IAP on STI for SDGs
- ② Thailand with Indonesia, Japan, UNESCAP, APRSCP and partners on SCP at HLPF 2018
- ③ NSTDA with UN environment on Global LCA Data Access Network (GLAD)
- 4 NSTDA support UN environment project: (1) AP Low C Lifestyles Challenge (2) Mobile app for reducing food waste or "Lookie Waste"



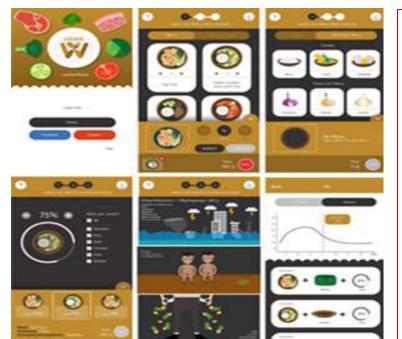
# Asia Pacific Low Carbon Lifestyles Challenge for young startups contest (SDG 12.8)

MTEC/NSTDA provided LC data support under the REAL project, funded by the Japanese Govt.



## "Lookie Waste": Mobile App for reducing food waste (SDG 12.3)

Developed by MTEC/NSTDA under the REAL project, funded by the European Commission

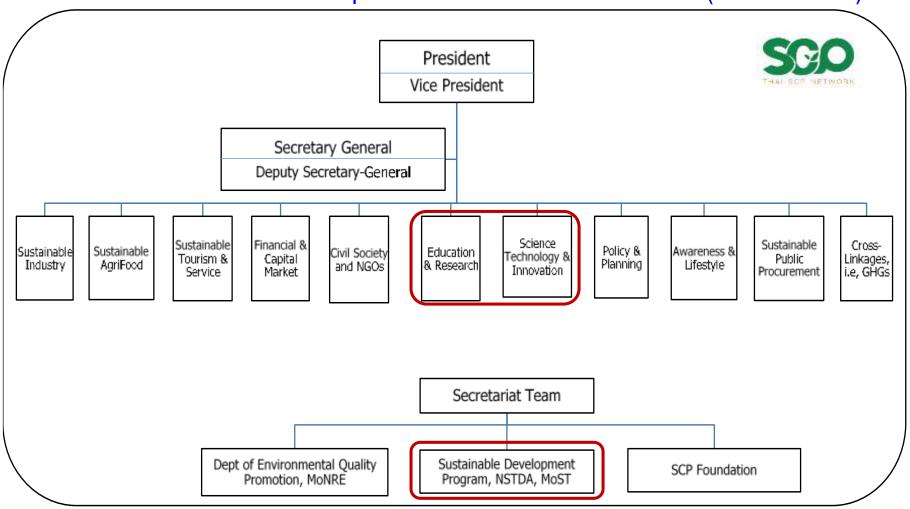




REAL = Resource Efficiency through Application of LCT

#### Latest Update on STI for SDGs- focusing on SDG12 (SCP)

Thai Sustainable Consumption and Production Network (ThaiSCPnet)



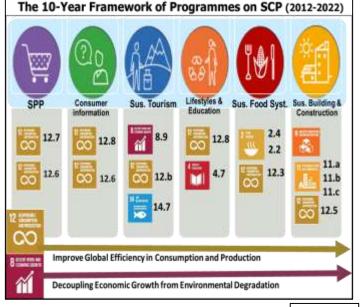
Established since 25 September 2018

- Coordinate SCP activities (awareness, training, implementation) within the country
- Produce Annual SCP Status/ Progress Report

SDG12/ SCP linkage Thai → ASEAN → Global



#### **Global Network: 10YFP**



see: www.ThaiSCP.net



## **Session 1: The Role of STI in SDGs**

## 09.10-10.30 The Role of STI in SDGs (in English)

#### **Invited Speakers:**

- 1. Janet Salem, UN Environment
- 2. Sooksiri Chamsuk, UNIDO
- 3. Puja Sawhney, EU SWITCH-Asia SCP Facility
- 4. Prof. Masahiko Hirao, PECoP-Asia SCP Research Group & University of Tokyo