



SDGs and the concept of SCP (SDG 12)

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สถาบันเทคโนโลยีและสารสนเทศเพื่อการพัฒนาที่ยั่งยืน
ศูนย์เทคโนโลยีโลหะและวัสดุแห่งชาติ
สำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ

Sustainable Development Goals



- On 25 September 2015, the 193 countries of the UN General Assembly adopted the 2030 Development Agenda titled *Transforming our world: the 2030 Agenda for Sustainable Development*.
- The 17 Sustainable Development Goals and 169 targets which we are announcing today demonstrate the scale and ambition of this new universal Agenda. They seek to build on the Millennium Development Goals and complete what they did not achieve. They seek to realize the human rights of all and to achieve gender equality and the empowerment of all women and girls. They are integrated and indivisible and balance the three dimensions of sustainable development: the economic, social and environmental.
- The Goals and targets will stimulate action over the next 15 years in areas of critical importance for humanity and the planet.

..Leave No One Behind..



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD

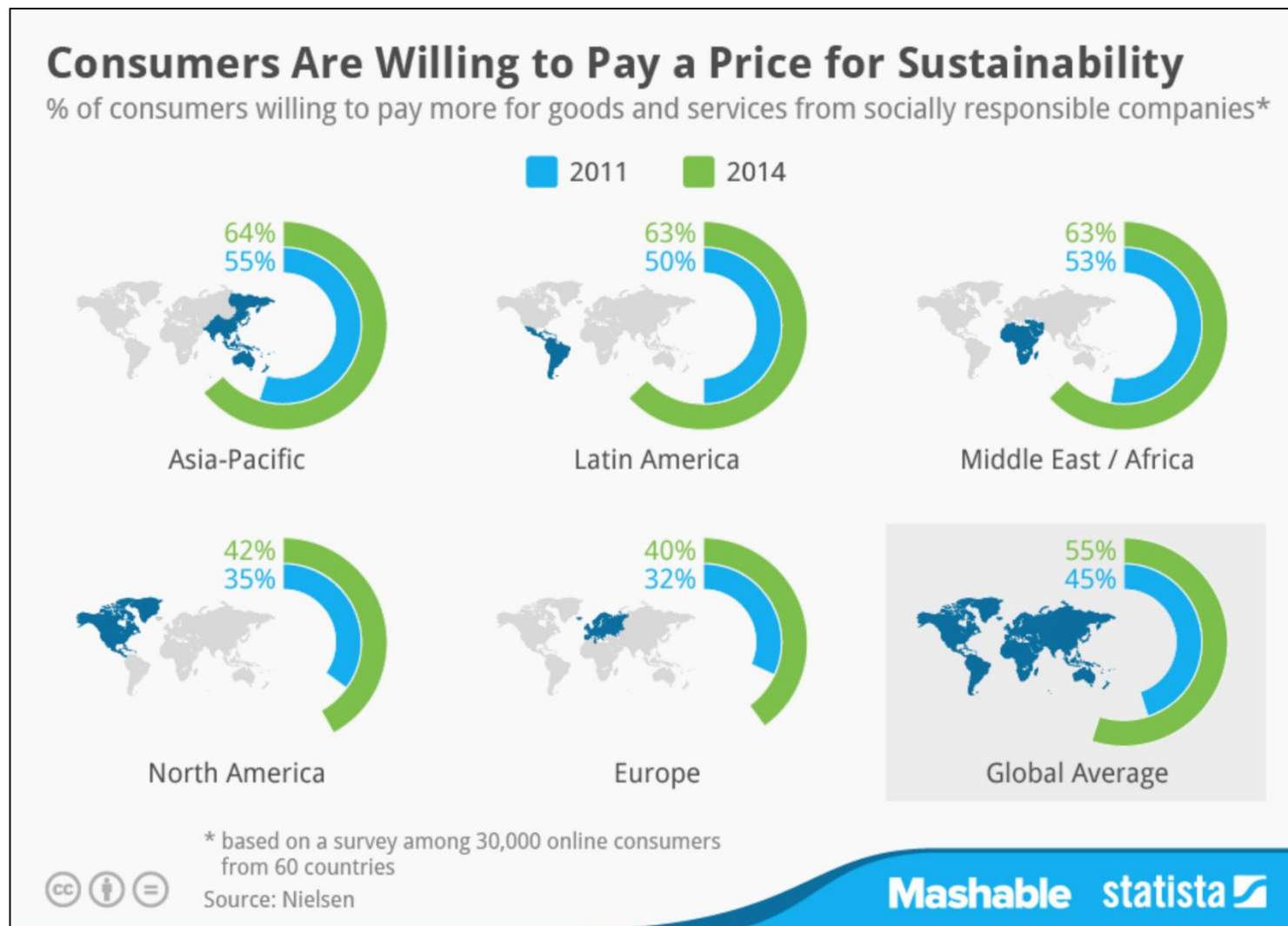
The SDGs goals & targets: Proportion of elements in each dimension

Goal	No. of targets	Proportion of elements in each dimension			Primary focus
		Social	Environmental	Economic	
1. Poverty	5	60%	13%	27%	Social
2. Hunger, food security, etc	5	60%	27%	13%	Social
3. Health	9	96%	4%	0%	Social
4. Education	7	81%	5%	14%	Social
5 Gender	6	100%	0%	0%	Social
6. Water	6	44%	44%	12%	Social / Environmental
7. Energy	3	22%	44%	34%	Environmental
8. Economy, employment, etc	10	37%	10%	53%	Economic
9. Industry and infrastructure	5	13%	20%	67%	Economic
10. Inequality	7	67%	0%	33%	Social
11. Cities	7	62%	33%	5%	Social
12. SCP	8	21%	58%	21%	Environmental
13. Climate	3	56%	44%	0%	Social /Environmental
14. Oceans	7	5%	67%	28%	Environmental
15. Ecosystems	9	22%	67%	11%	Environmental
16. Peace	10	93%	0%	7%	Social

Sustainability and Trade



Buying organic, sustainable or Fair Trade goods is more expensive - but this doesn't have to be the case



TOP SUSTAINABILITY TRENDS 2018



TREND 1
**RE-PRIORITIZING
SUSTAINABILITY**



TREND 2
**BOOSTING SUPPLY CHAIN
TRANSPARENCY**

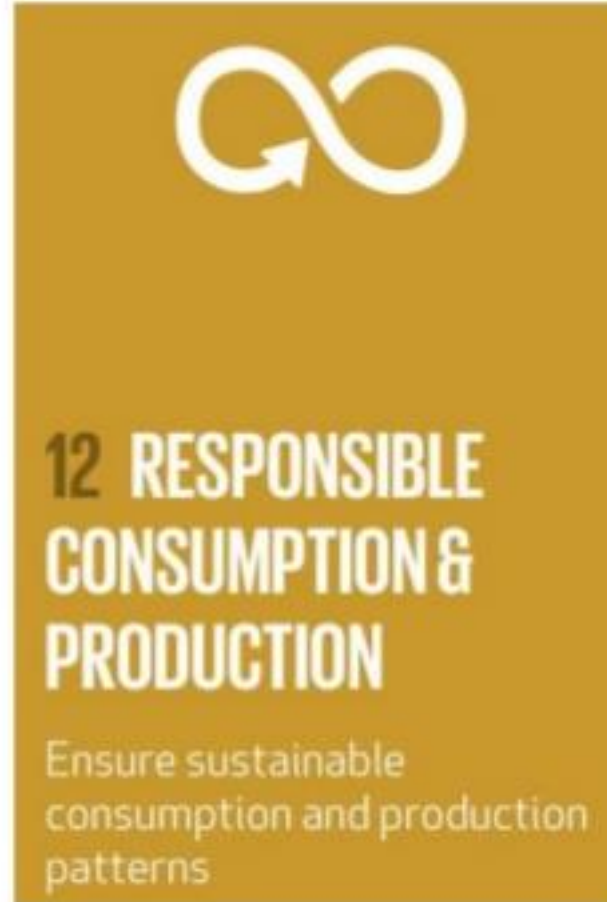


TREND 3
**RISING NEED FOR
COLLABORATIONS**

SDG 12: Ensuring sustainable consumption & production (SCP) patterns

Goal 12 key targets & indicators:

- **Policy** – national SCP policies
- **Resources** – material footprint; DMC/capita; DMC/GDP
- **Food systems** – global food loss index
- **Waste** – recycling rate; hazardous waste standards
- **Business/CSR** – company sustainability reports
- **Public sector** – GPP programs
- **Education** – sustainability mainstreamed



Solutions for Sustainable Production and Consumption

Patrick ten Brink

Head of Green Economy Programme, IEEP

S&T support

Tourism

Energy

Tier Classification for Global SDG Indicators (11 May 2018)
















Targets	Indicators	Possible Custodian Agency(ies)	Partner Agencies	Initial Proposed Tier (by Secretariat)	Updated Tier Classification (by IAEG-SDG Members) 21/12/2016	Updated Tier Classification (by IAEG-SDG Members) 11/05/2018	
	12.1	SCP action plan	UNEP		n.a.	Tier III	Tier II 
	12.2.1	Material Footprint	UNEP	OECD	Tier II	Tier III	Tier III 
	12.2.2	DMC	UNEP	OECD	Tier II	Tier II	Tier I 
	12.3	Food loss/waste	FAO, UNEP		Tier III	Tier III	Tier III 
	12.4.1	environmental agreements	UNEP		Tier I	Tier I	Tier I 
	12.4.2	Treated HW	UNSD, UNEP	OECD, Eurostat	Tier II	Tier III	Tier III 
	12.5	Recycling rate	UNSD, UNEP	OECD, Eurostat	Tier III	Tier III	Tier III 
	12.6	sustainability reports	UNEP, UNCTAD		Tier III	Tier III	Tier III 
	12.7	sustainable public procurement	UNEP		Tier III	Tier III	Tier III 
	12.8	SCP in education	UNESCO	UNEP	Tier III	Tier III	Tier III 
	12.a	SCP support in technology	UNEP, UNESCO, World Bank, OECD-to confirm		Tier III	Tier III	Tier III 
	12.b	Sustainable tourism	UNWTO	UNEP	Tier III	Tier III	Tier III 
	12.c	fossil-fuel subsidies	UNEP		Tier III	Tier III	Tier III 

Figure 1: the key subject areas of sustainability reporting for Costa Rica



Figure 2: the key subject areas of sustainability reporting for South Africa



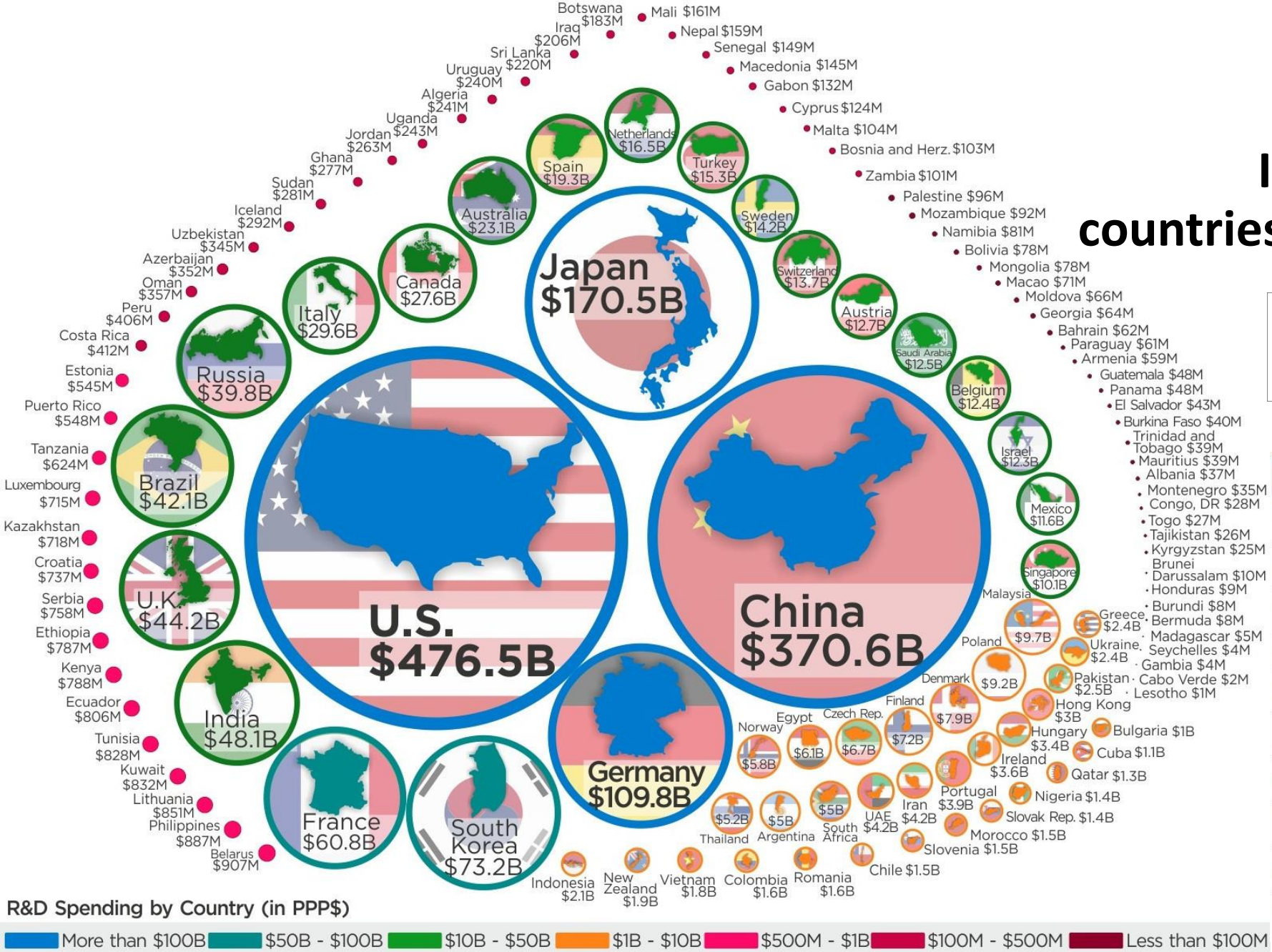
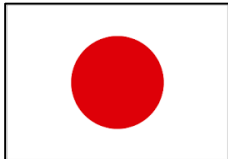
Figure 3: the key subject areas of sustainability reporting for China





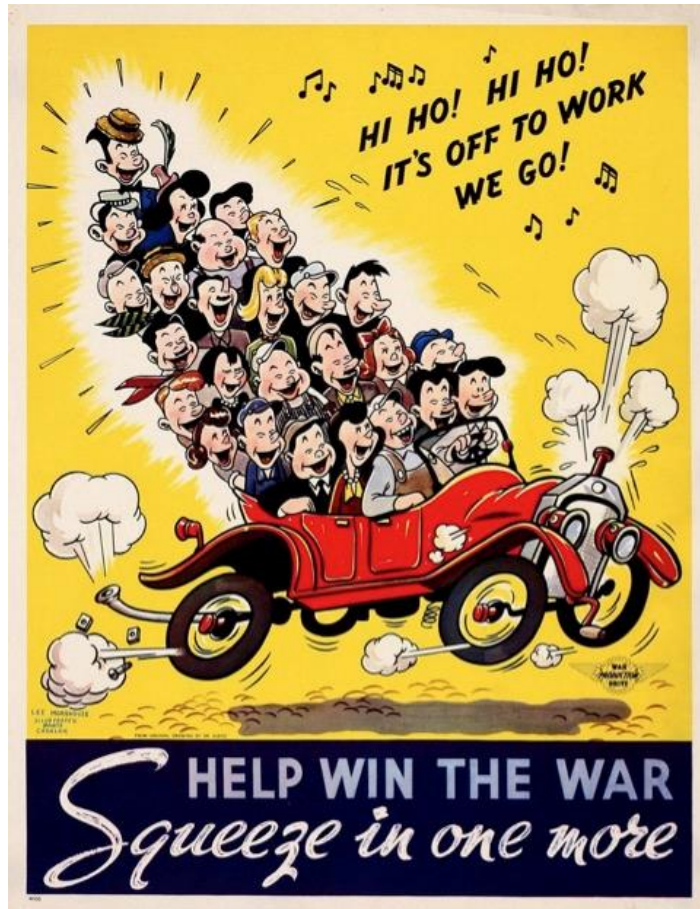
The World in 2050 (TWI2050) initiative last week launched the report '[Transformations to Achieve the Sustainable Development Goals](#)' at the United Nations High Level Political Forum in New York. This report sets out six key transformations that will enable the world to meet the United Nations Sustainable Development Goals (SDGs).

Innovators wanted: these countries spend the most on R&D



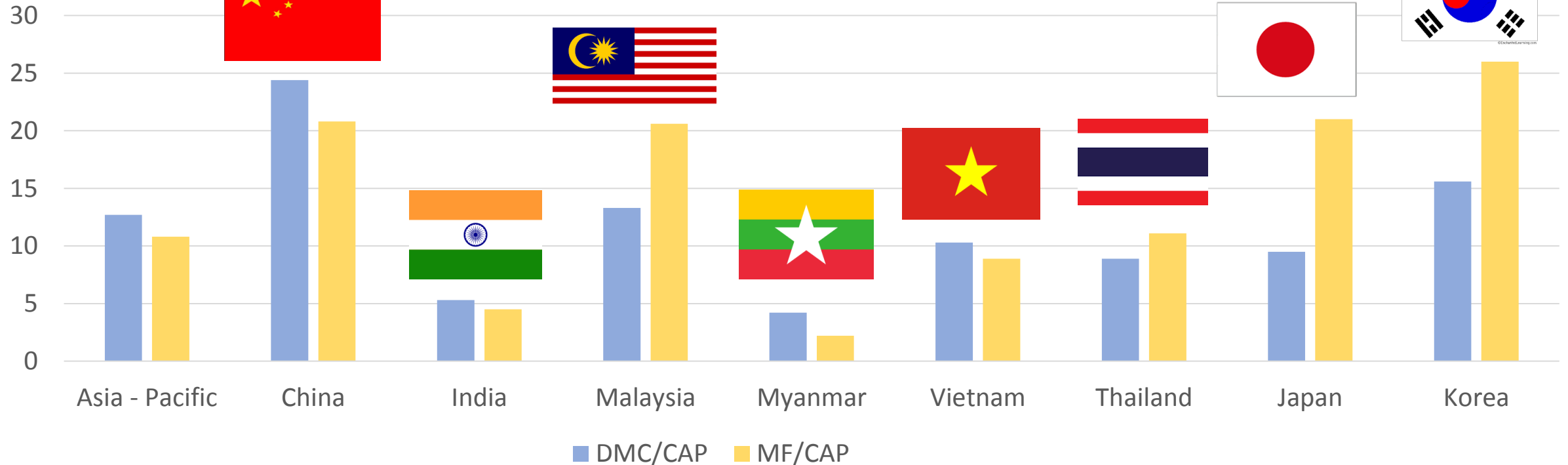
Rank	Country	R&D (as a % of GDP)
#1	South Korea	4.3%
#2	Israel	4.2%
#3	Japan	3.4%
#4	Switzerland	3.2%
#5	Finland	3.2%
#6	Austria	3.1%
#7	Sweden	3.1%
#8	Denmark	2.9%
#9	Germany	2.9%
#10	United States	2.7%

Posters related to SCP (WWII-70y ago)



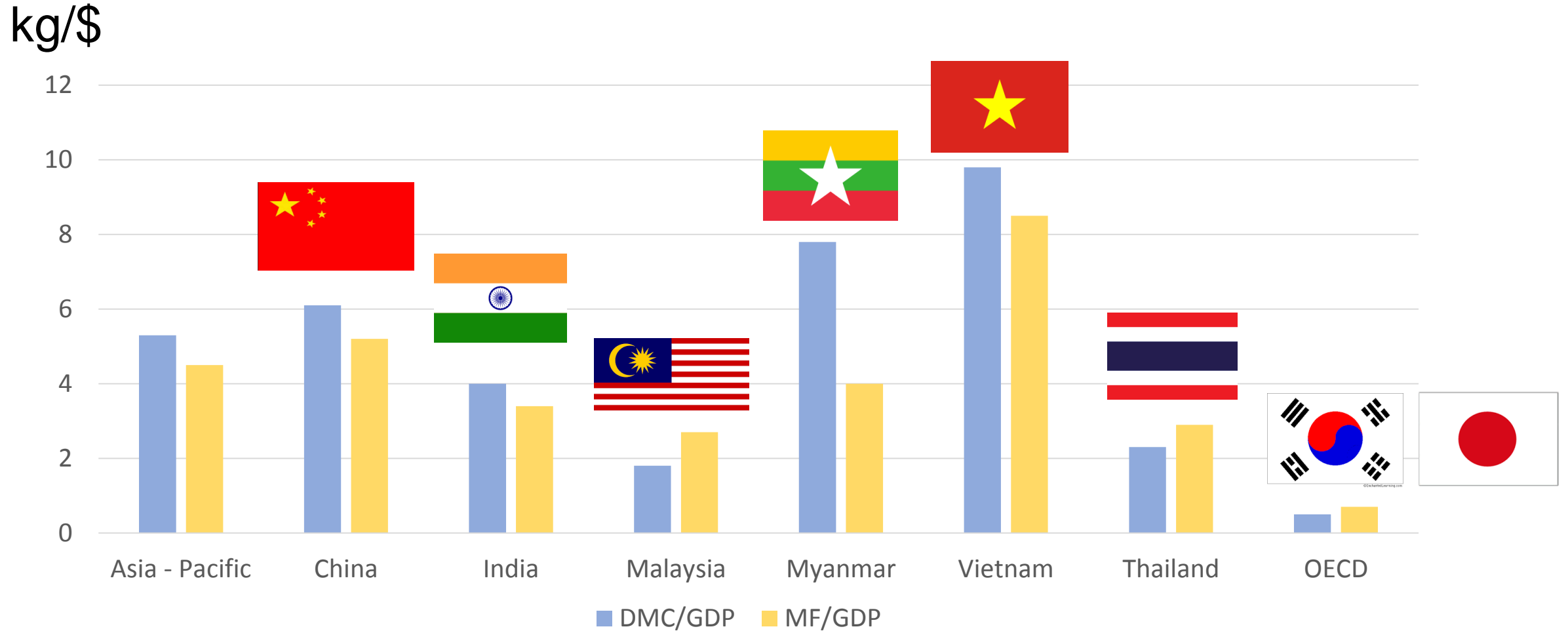
SDG 12.2: DMC & MF per Capita (2015)

Ton/Cap



Domestic Material Consumption : DMC
Material Footprint : MF

SDG 12.2: DMC & MF per GDP (2015)



Domestic Material Consumption : DMC

Material Footprint : MF

LE GASPILLAGE ALIMENTAIRE et les contes de l'antigaspi

gaspillagealimentaire.fr
Ministère de l'Agriculture,
et de l'Alimentation

JETER
MOINS
=
MANGER
MIEUX

LE GASPILLAGE
ALIMENTAIRE
DANS LA CONSOMMATION
DES MÉNAGES
REPRÉSENTE EN FRANCE :

20 kg

DE DÉCHETS PAR AN
ET PAR PERSONNE

SOURCE : ADEME

**MAÎTRE
CORBEAU
NE LAISSERA
PLUS TOMBER
SON FROMAGE**



DONT :

7 kg

DE DÉCHETS
ALIMENTAIRES
NON CONSOMMÉS
ENCORE EMBALLÉS

SOURCE : ADEME

**BLANCHE
NEIGE
AURAIT DÛ
CROQUER
UNE POMME
MOCHE**



**QUAND
PEAU D'ÂNE
PRÉPARE
SA GALETTE
LE PRINCE
N'EN PERD PAS
UNE MIETTE**



**PETIT
POUCET
A COMPRIS
COMBIEN
LE PAIN
EST PRÉCIEUX**



LE COÛT
DU GASPILLAGE
ALIMENTAIRE EN FRANCE
EST ESTIMÉ ENTRE

**100
et 160 €**

PAR AN ET PAR PERSONNE
SOIT DE 12 À 20 MILLIARDS
D'EUROS

SOURCE : ADEME

**À MINUIT
LE POTIRON
DE CENDRILLON
FERA UN BON
BOUILLON**



DANS LE MONDE,
ENVIRON

1/3

DES ALIMENTS DESTINÉS
À LA CONSOMMATION
HUMAINE EST PERDUE
TOUT AU LONG DE LA
CHAÎNE ALIMENTAIRE

SOURCE : FAO

انستدا
NSTDA

MTEC
a member of NSTDA



*Food waste is a social scandal and ecological nonsense.
We will further encourage donations by integrating this
issue with corporate social and environmental
responsibility*

Paris, le 21 décembre 2017
Édouard Philippe, Premier ministre

LOI n° 2016-138 du 11 février 2016 relative à la lutte contre le gaspillage alimentaire on the fight against food waste. The actions will be implemented in the following order of priority:

- prevention of waste,
- use of unsold products by donation or processing,
- recovery for animal feed,
- use for purposes of compost for agriculture or energy recovery by methanisation.

This hierarchy is intended to apply producers to consumers

Kenya brings in world's toughest plastic bag ban: four years jail or \$40,000 fine



Producing, selling and using plastic bags becomes illegal as officials say they want to target manufacturers and sellers first



Cows in Kenyan abattoirs are often found with plastic bags in their stomachs

If we continue like this, by 2050, we will have more plastic in the ocean than fish,” said Habib El-Habr, an expert on marine litter working with the UN environment programme in [Kenya](#).

<https://www.theguardian.com/environment/2017/aug/28/kenya-brings-in-worlds-toughest-plastic-bag-ban-four-years-jail-or-40000-fine>

Piles of waste plastic bags are a common site across Kenya, as in many African countries.

Animals often graze on the rubbish and the United Nations' Environment Programme says huge amounts of polythene bags are pulled out of livestock in Nairobi's abattoirs - as many as 20 bags per cow - raising fears of plastic contamination in beef.

<https://www.bbc.com/news/world-africa-41069853>



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สถาบันเทคโนโลยีและสารสนเทศเพื่อการพัฒนาที่ยั่งยืน

ศูนย์เทคโนโลยีโลหะและวัสดุแห่งชาติ

สำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ