



GREEN PROCUREMENT ENVIRONMENTALLY PREFERABLE PRODUCTS, AND

By

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Sustainable Development, Inc.

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PROGRAMS AND ACTIVITIES

1. Administrator of the National Ecolabelling Programme Green Choice Philippines
2. Conducts capacity building activities on Sustainable Consumption and Production (SCP) (e.g. Ecolabelling, Green Procurement, Life Cycle Assessment, Cleaner Production, EMS, among others)
3. Develops Product Environmental Standards & Specifications for Ecolabelling, Certification, and Green Procurement
4. Administrator of the Green Purchasing Alliance Movement (GPAM)
5. Publisher of Philippine Green Pages
6. Organizes environmental events and exhibitions (Kalikasan GP3 Conference & Expo, Green Supplier's Forum, Green Executive Briefing, Environmental Education and Advocacy campaign)
7. Policy advocacies on SCP and SD
8. Provide technical assistance for government organizations, private companies, POs, and other cause-oriented groups on SCP and environment.



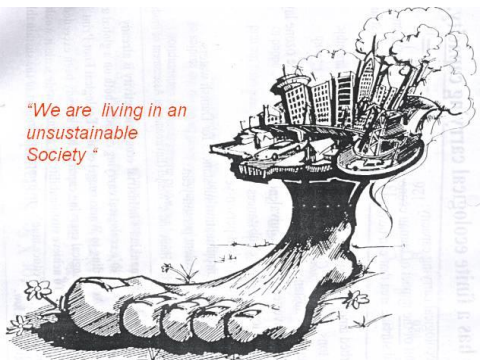
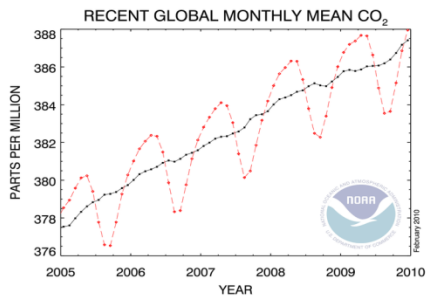
BACKGROUND ON SUSTAINABLE CONSUMPTION AND PRODUCTION



- Earth Summit on Sustainable Development
- Global Warming
- Environmental Issues and Concerns

CONSUMING THE ENVIRONMENT

“The major cause of the *continued deterioration* of the global environment is the *unsustainable* pattern of *production and consumption*.....”



— *United Nations Agenda 21 Report*



Rio de Janeiro 2012 (Rio + 20)

Participants : 50,000

Government : 193

Business Leaders : 1,800

Declaration Includes Key Issues:

- **Green Economy**
- **Development of SD Goals**
- **UNEP SCP 10 years Framework**
- **Sustainability Reporting: Country, company**

Green Economy, SDGs, 10 YFP

EVOLUTION OF ENVIRONMENTAL ISSUES



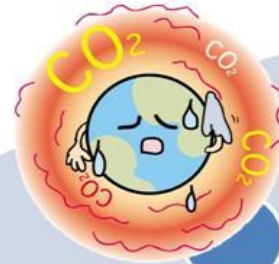
Preservation & Conservation

- Protection of Wildlife
- Soil Erosion
- Local Pollution



Modern Environmentalism

- Population growth, technology, desertification, pesticides, pollution control, resource depletion

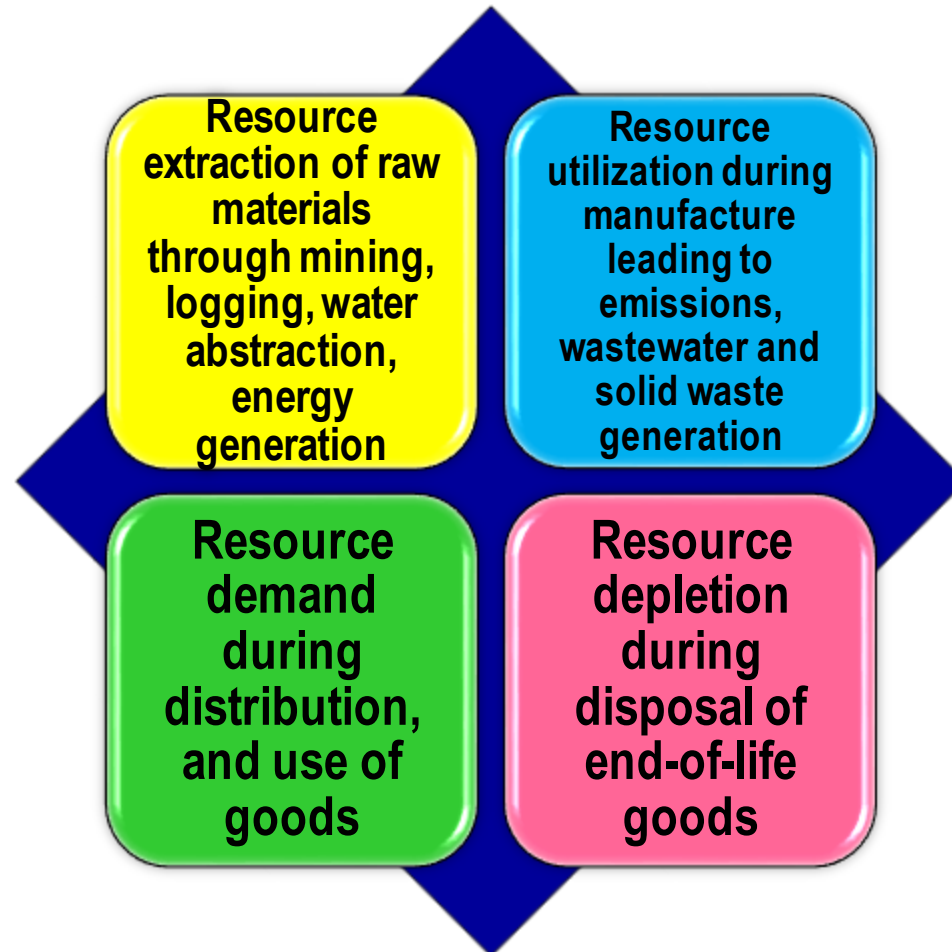


Global Issues

- Acid rain, ozone depletion, rainforest loss, climate change, loss of biodiversity



PRODUCT & ENVIRONMENTAL IMPACTS



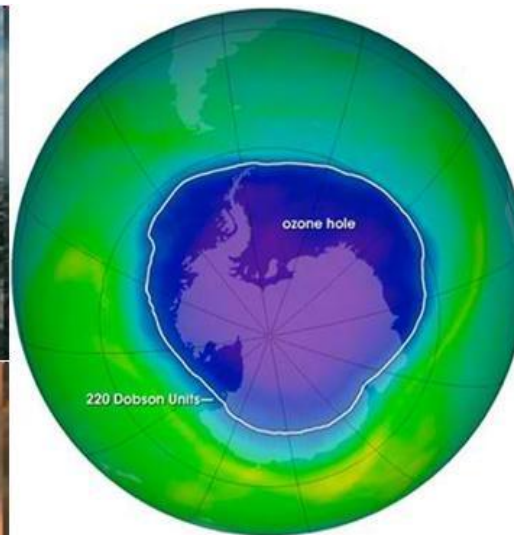
ENVIRONMENTAL CHALLENGES

- **Systematic build-up of dispersed matter mined from the earth crust**



ENVIRONMENTAL CHALLENGES

- **Systematic build-up of persistent compound made by humans**



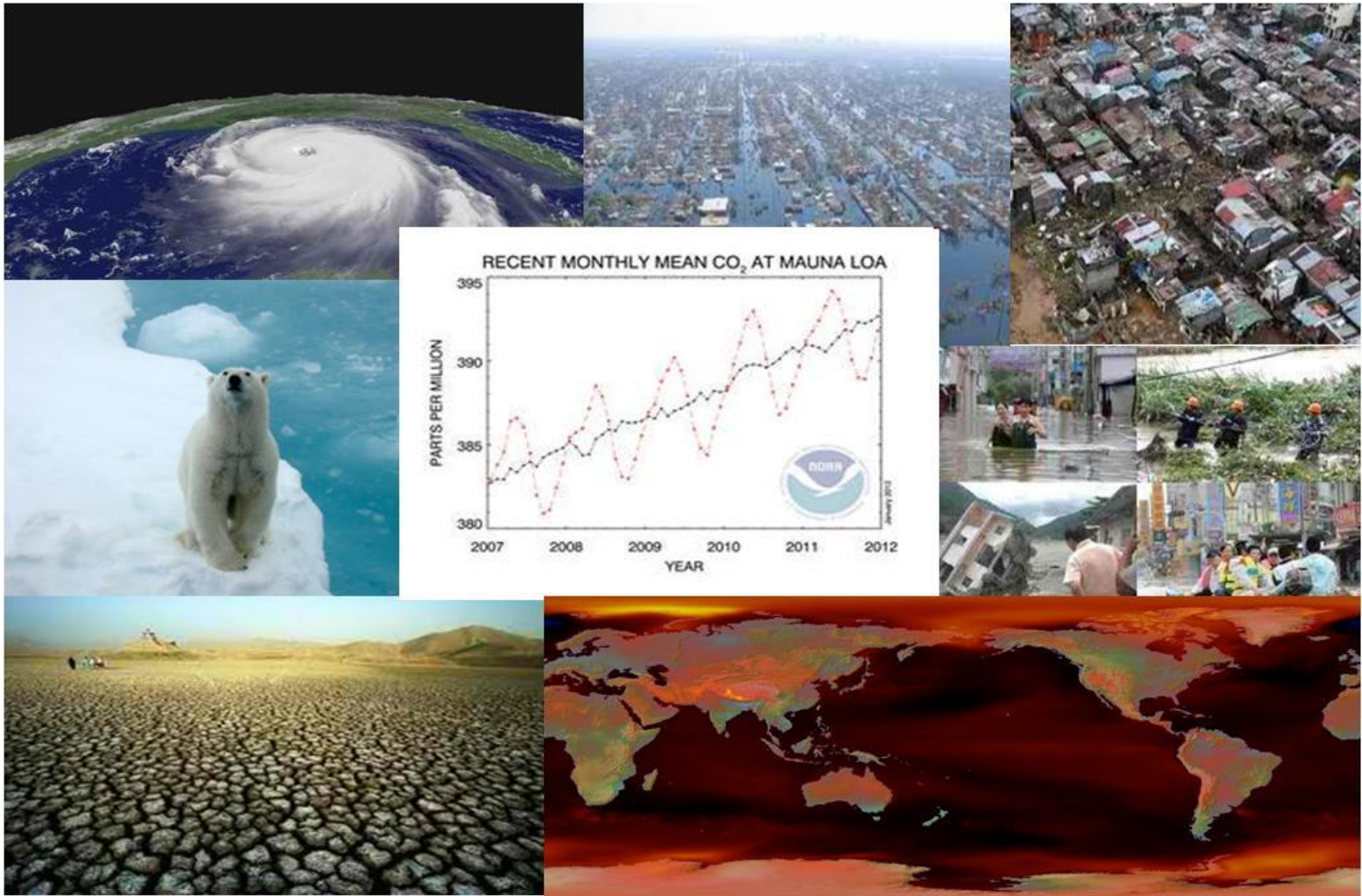
ENVIRONMENTAL CHALLENGES

- **Systematic deterioration of nature's capacity for renewal**

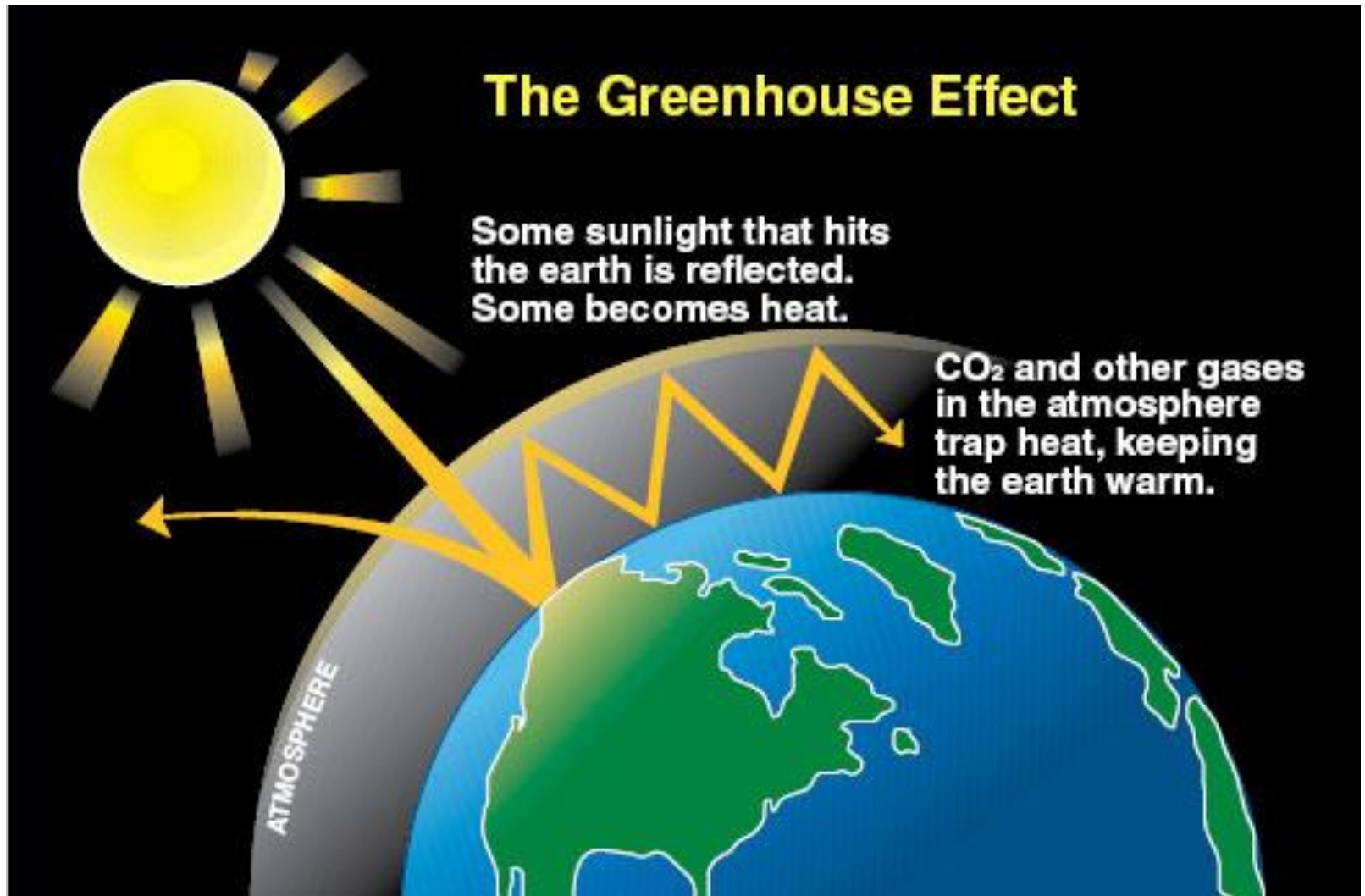


ENVIRONMENTAL CHALLENGES

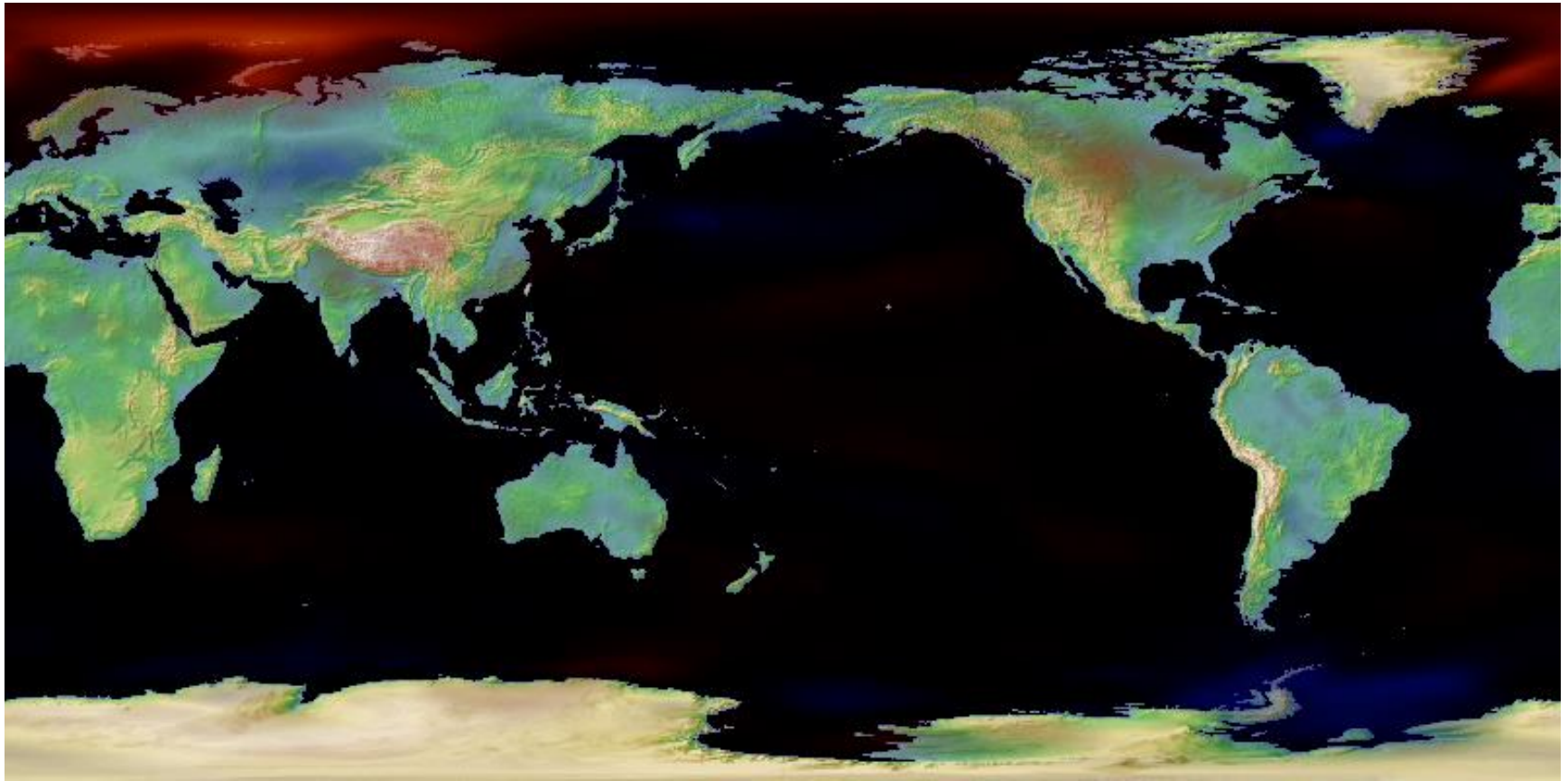
- **Climate Change and Global Warming**



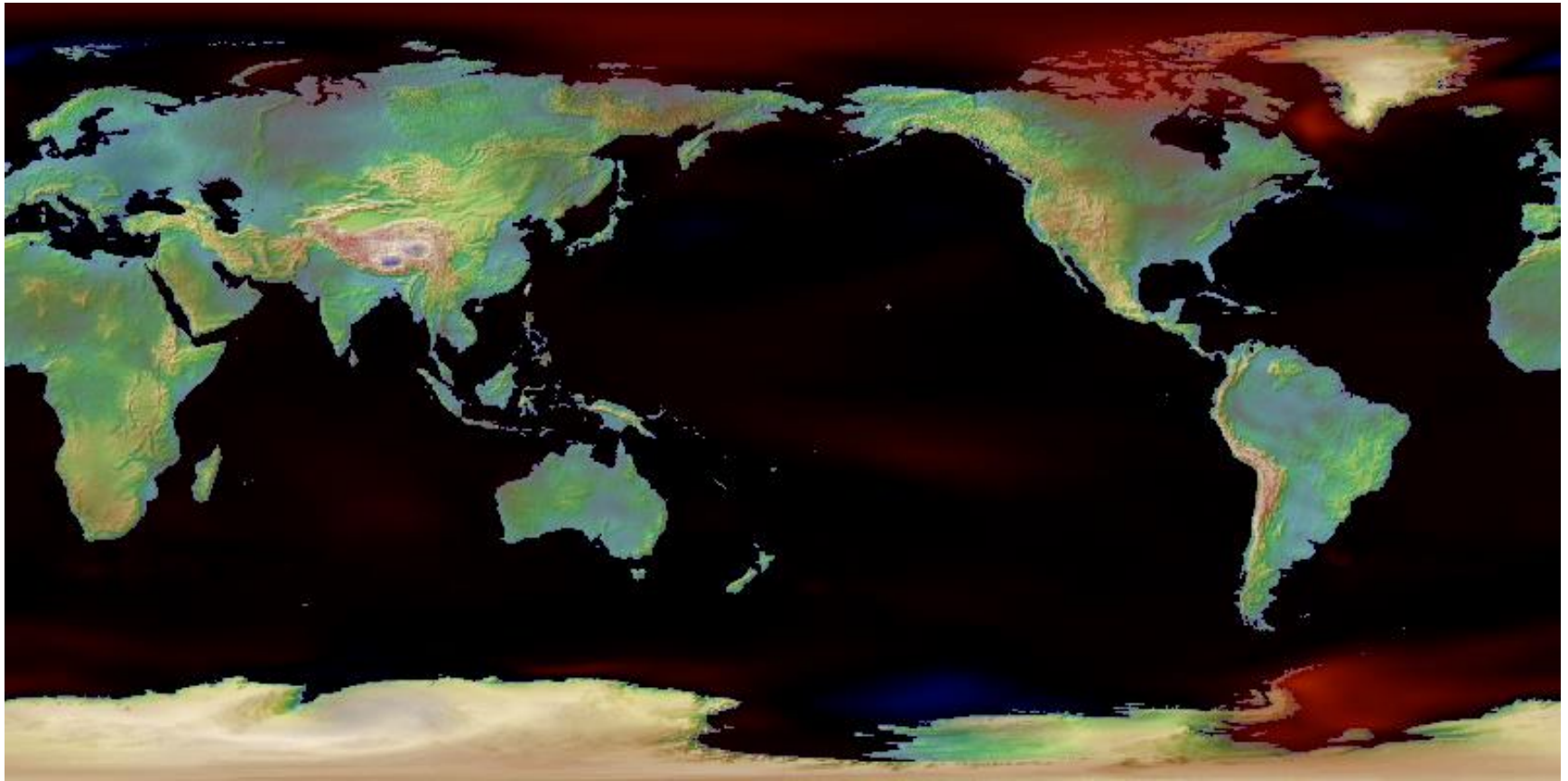
GREEN HOUSE EFFECT



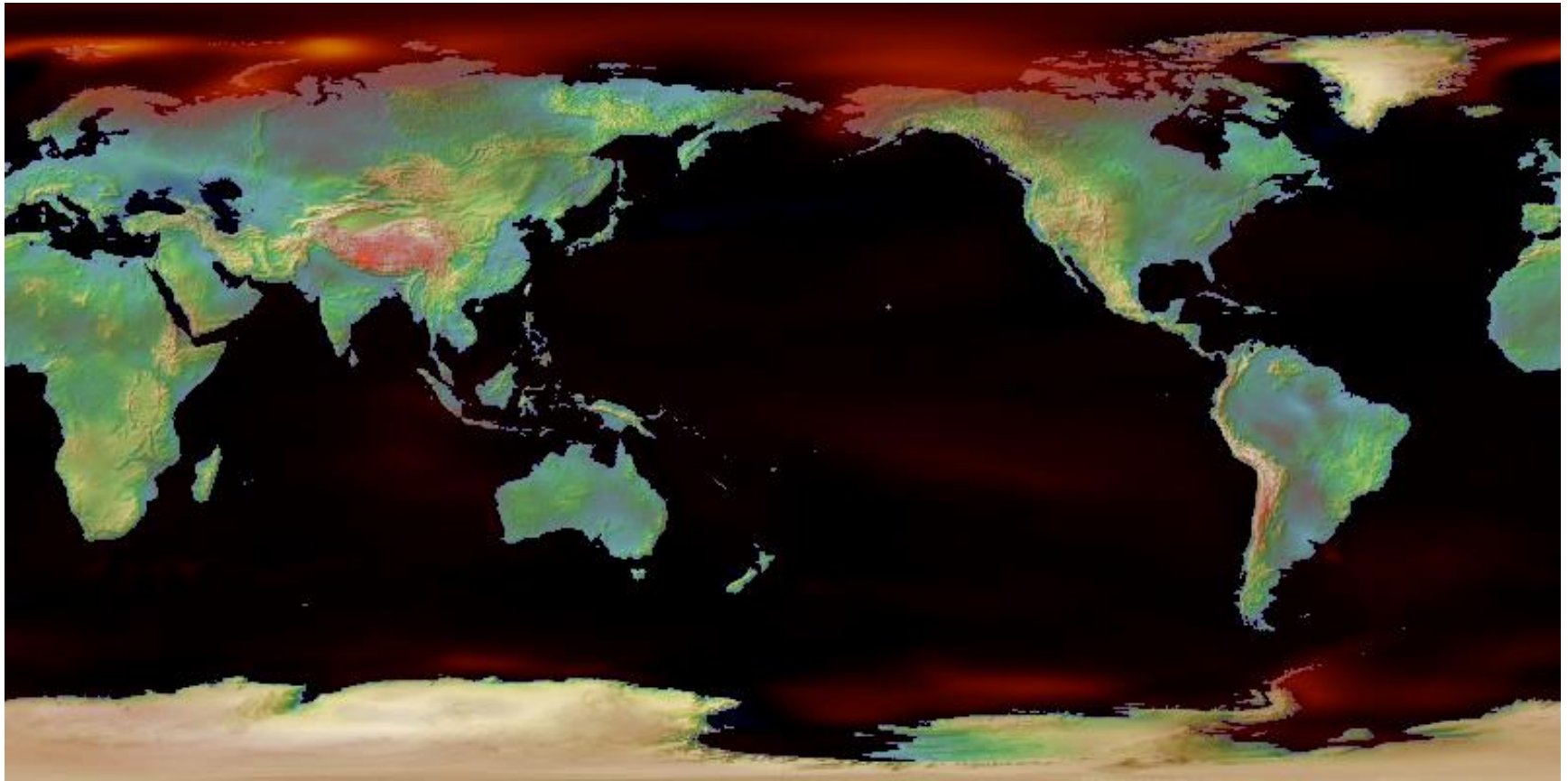
1950



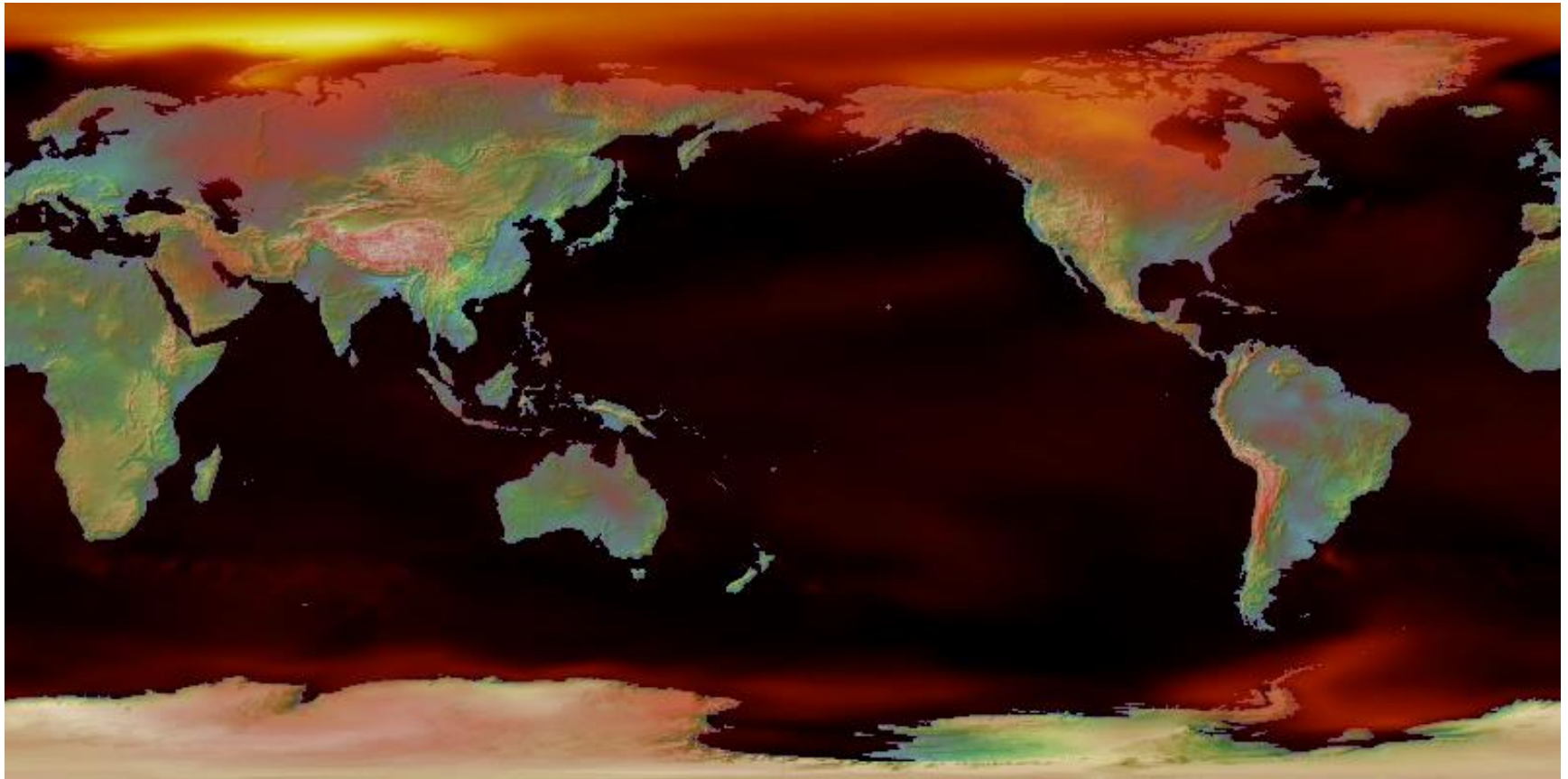
1989



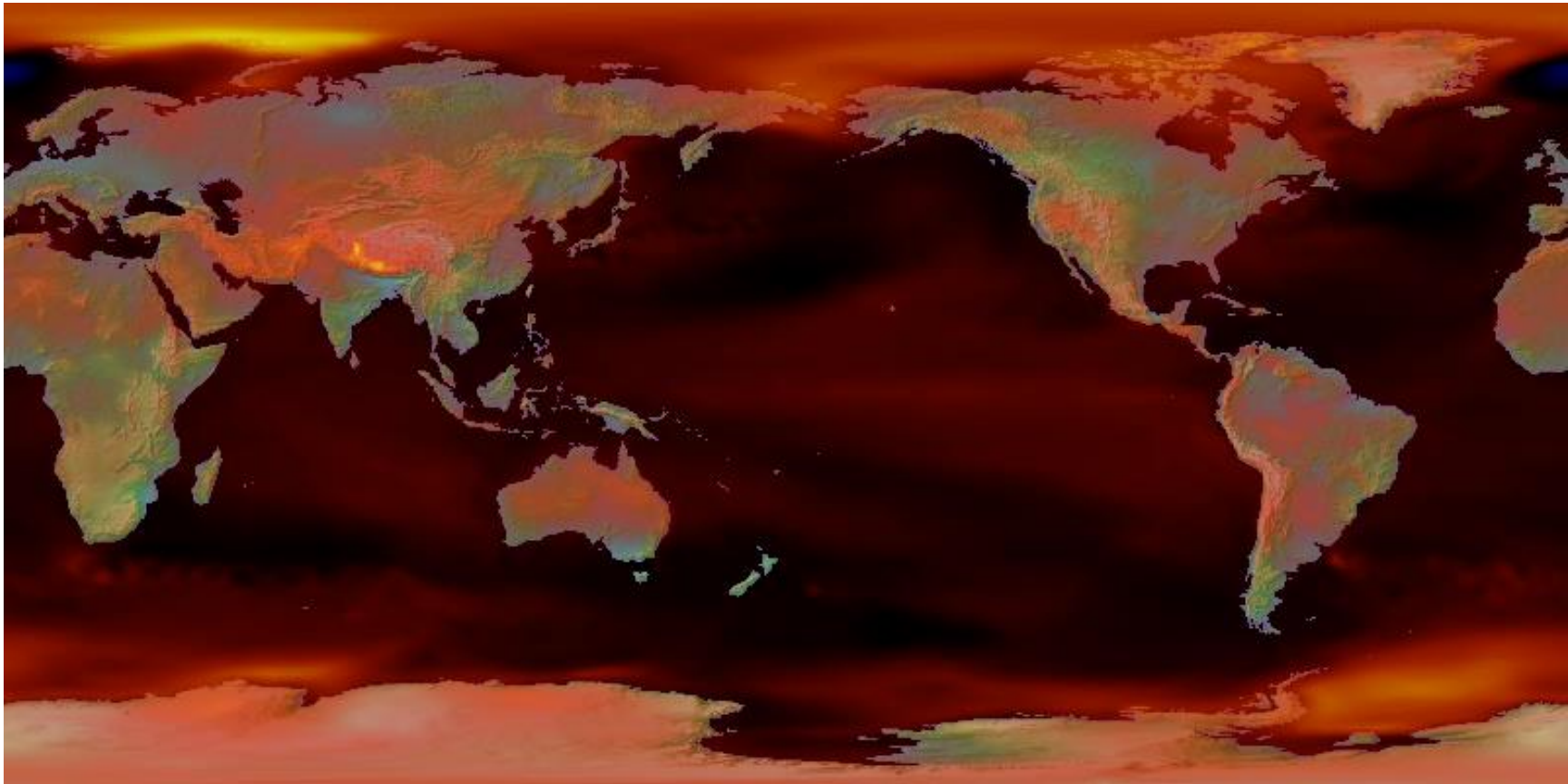
1998



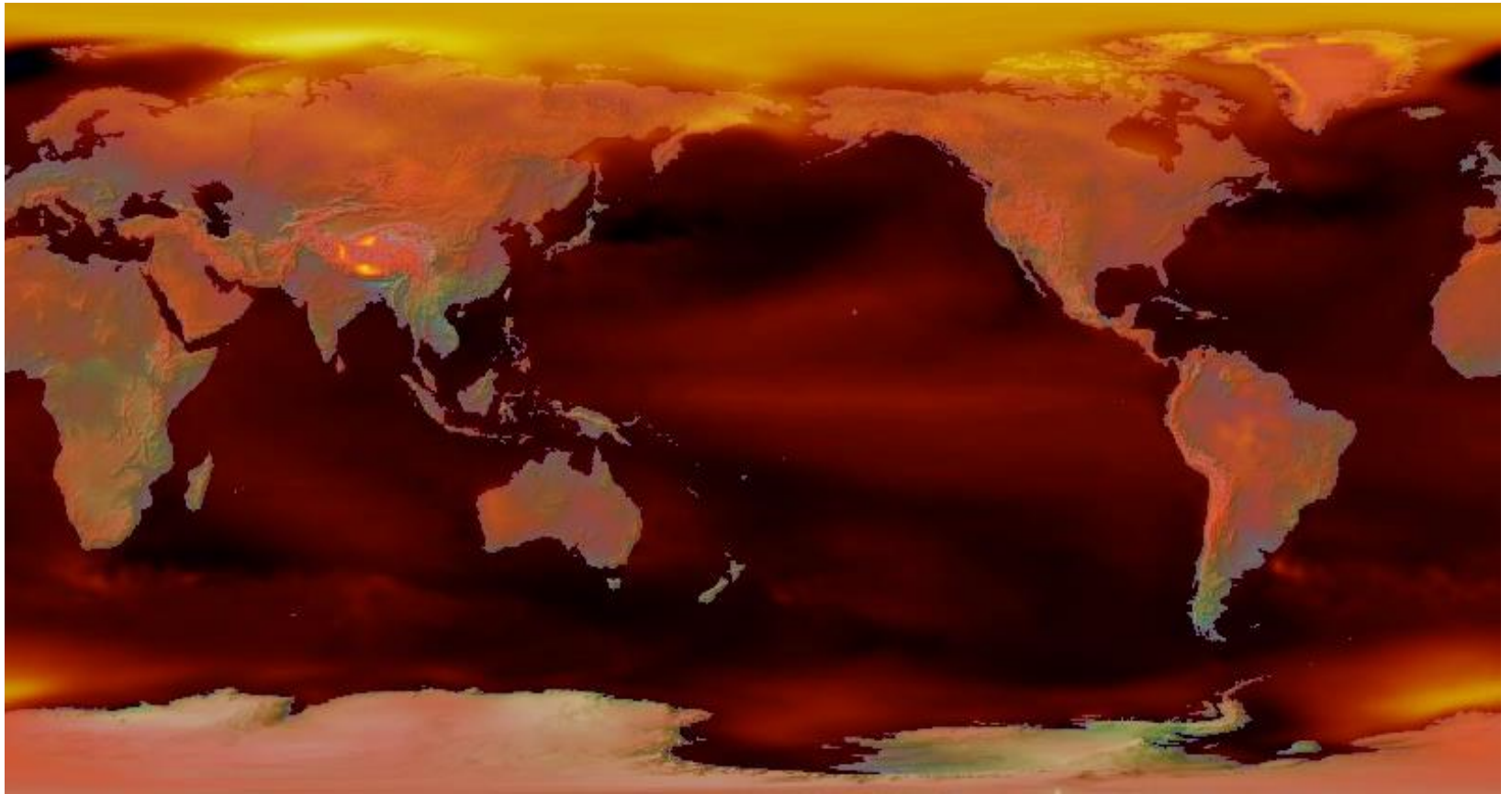
2016



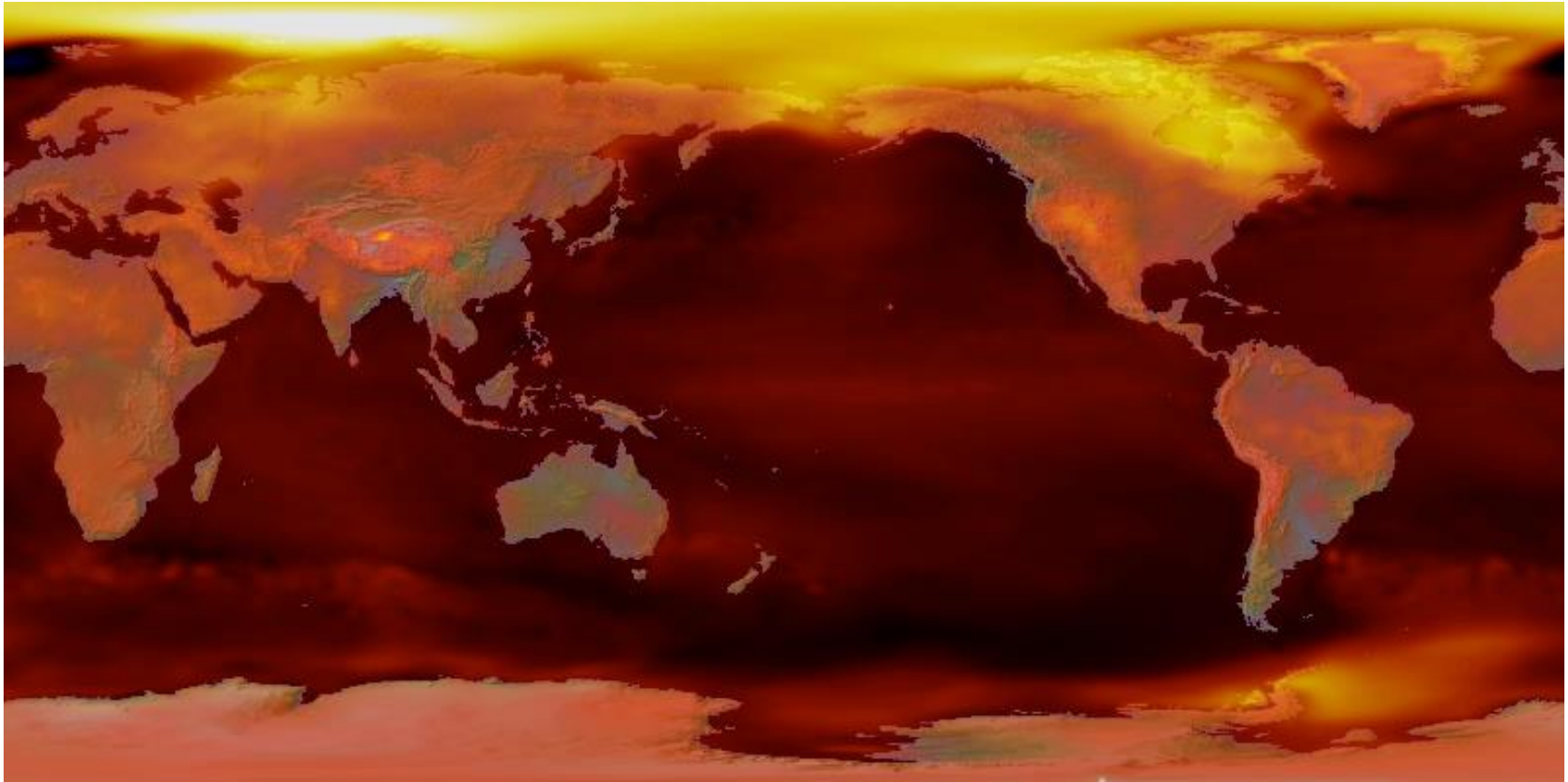
2028



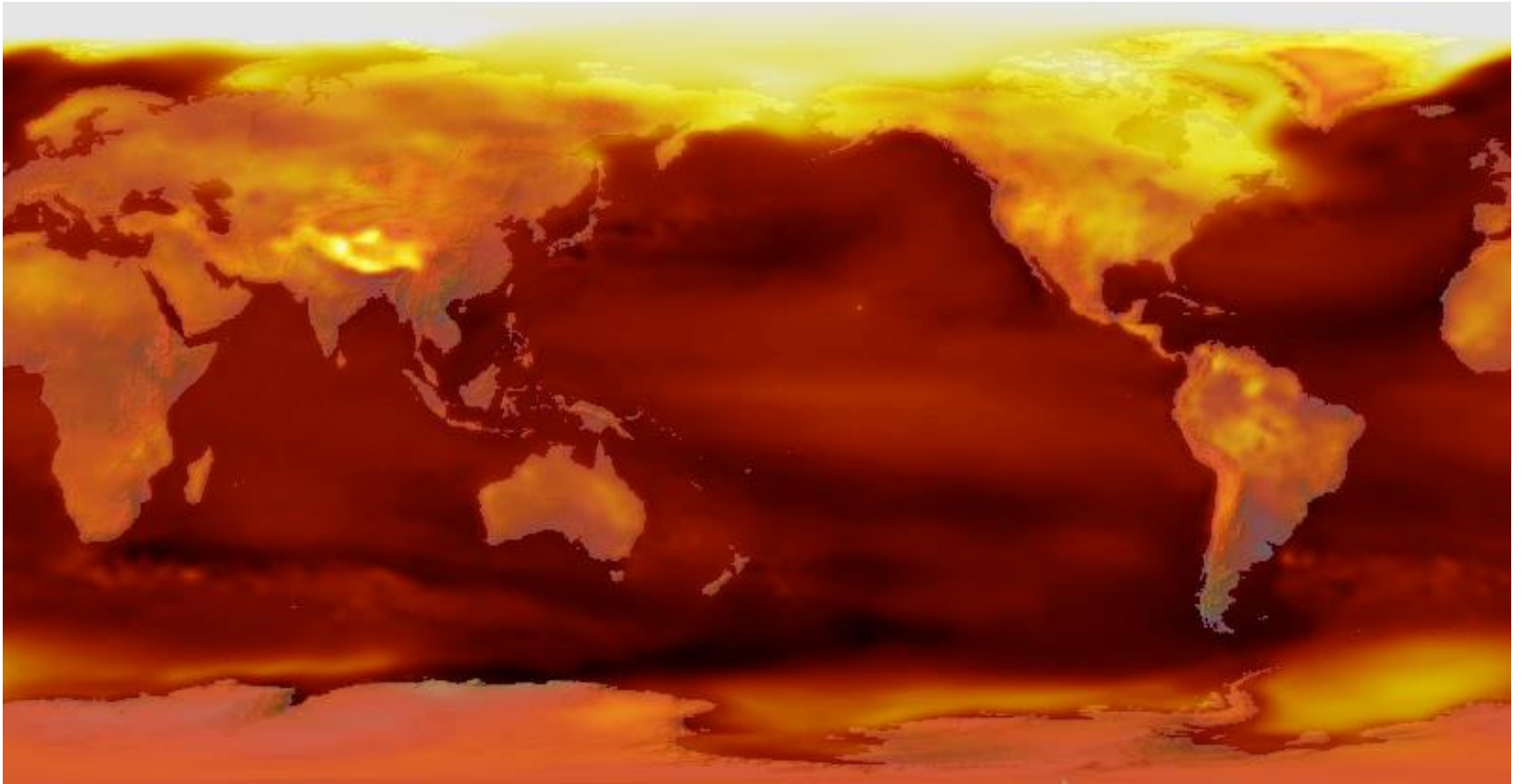
2040



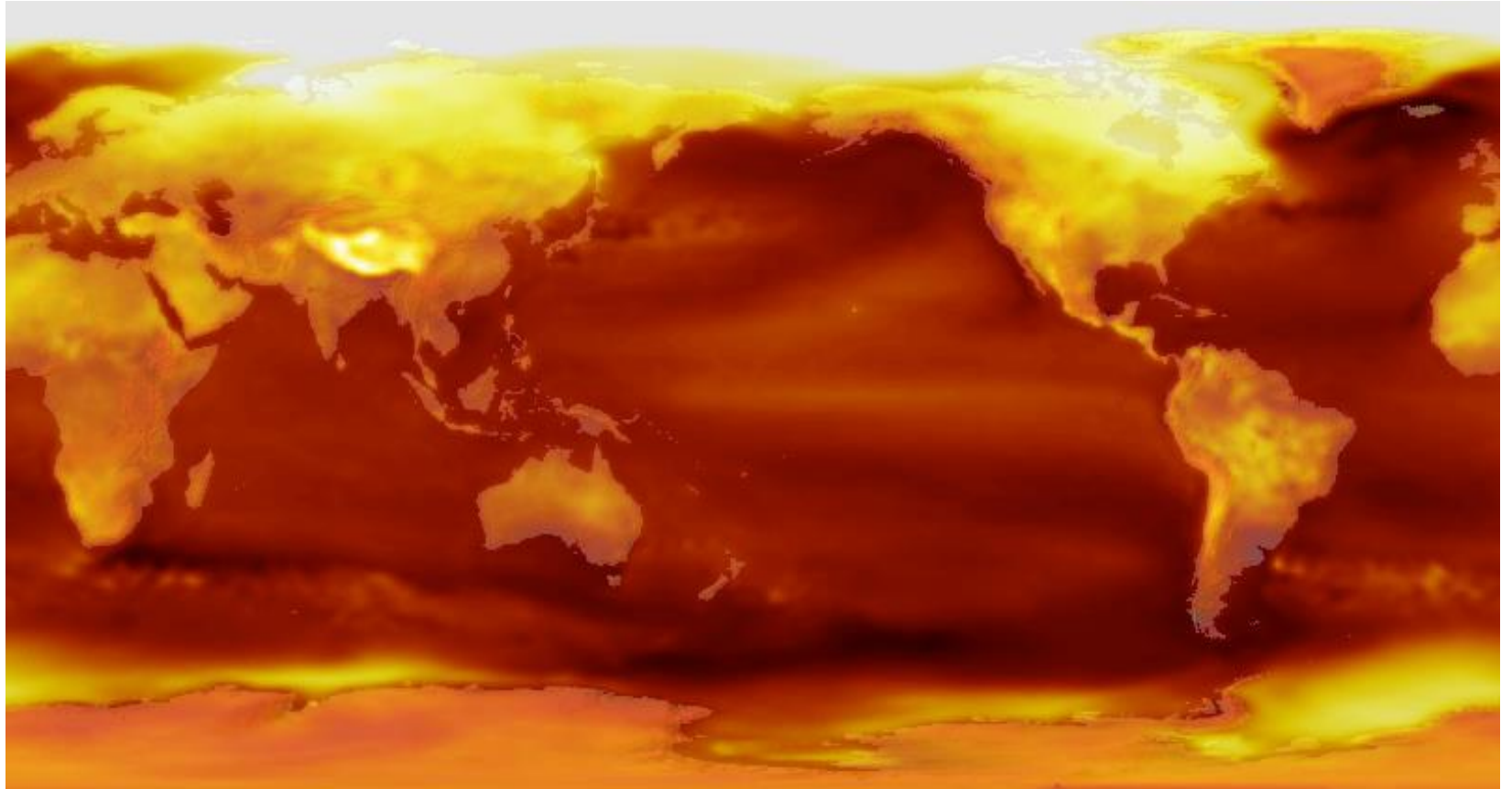
2052



2070



2100



World population development

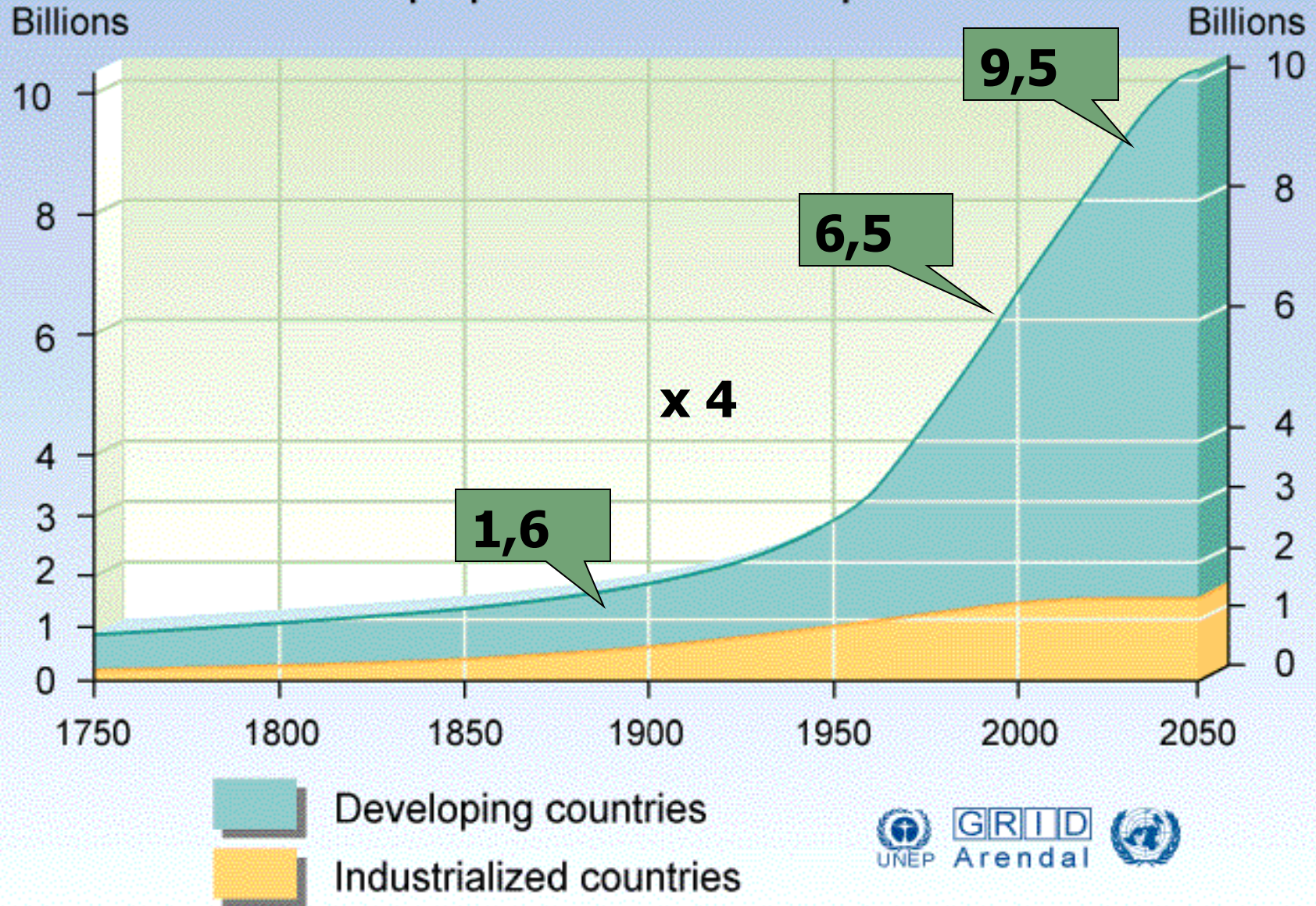




IMAGE VIEW

MAP VIEW

ALL IMAGES

14 of 34



METRO MANILA

65,000 HECTARES

1989

CORY AQUINO

6 MILLION

2015

NOYNOY AQUINO

20 MILLION

3°C or more

rise in temperature by the end of the century, due to doubling of GHG emissions by 2050, under BAU.

60%

of ecosystems damaged or being used unsustainably



1 to 3 billion

additional middle class consumers by 2030

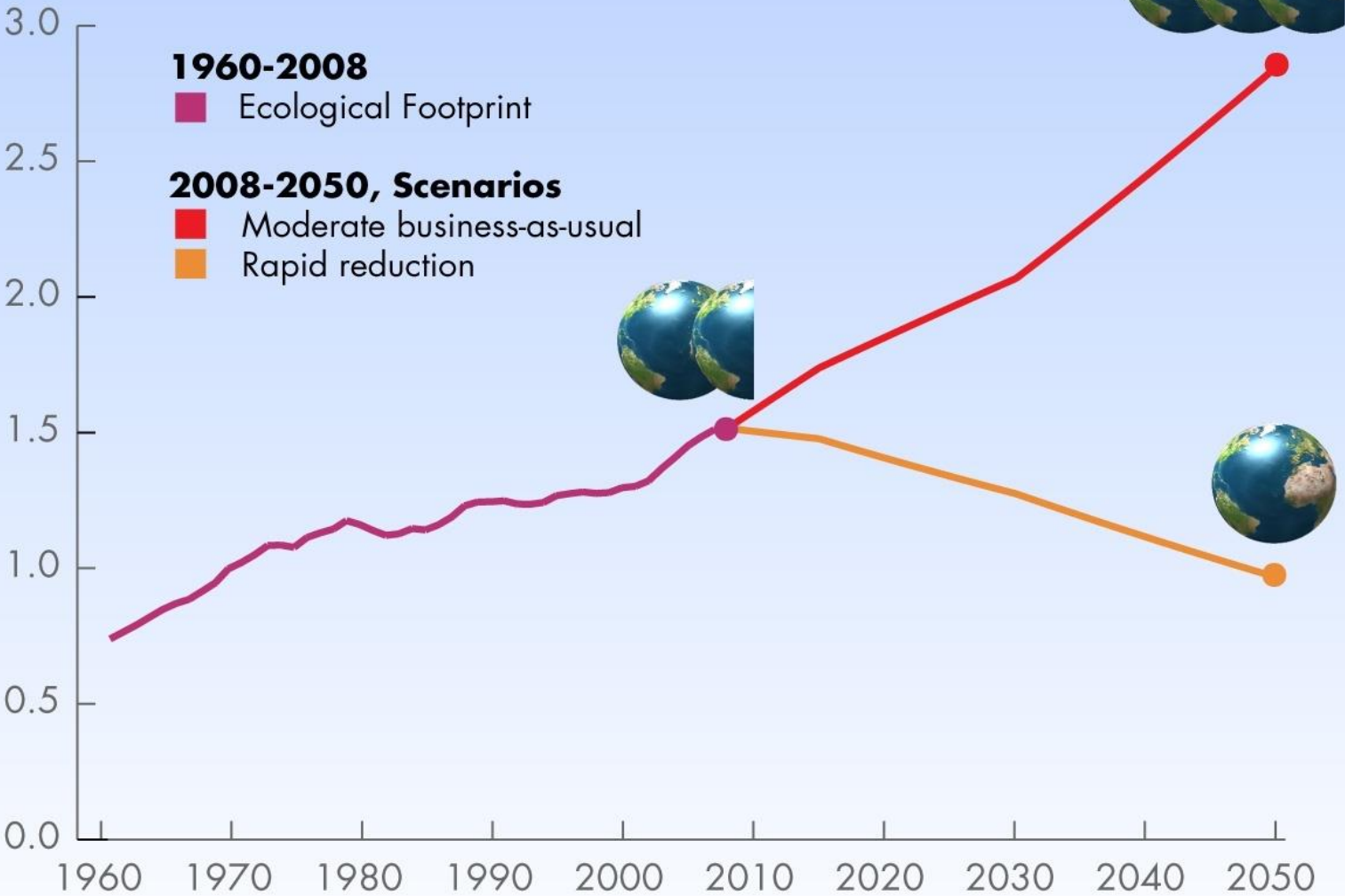


140 billion tonnes

of global extraction of natural resources if consumption stays at current developed country rates.



LIVING BEYOND OUR MEANS



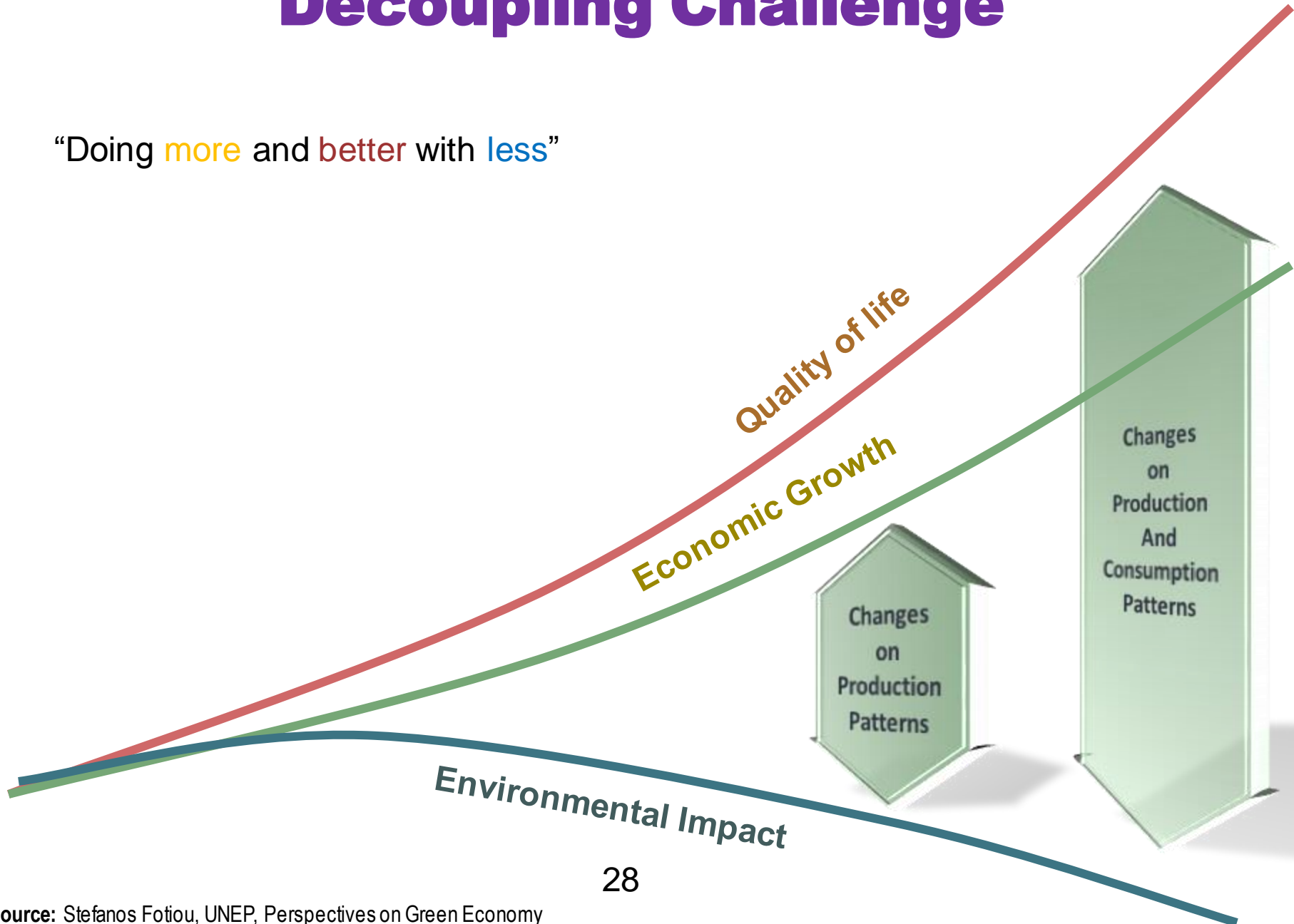
y-axis: number of planet earths, x-axis: years

Source: The Global Footprint Network



Decoupling Challenge

“Doing more and better with less”



UNEP – 6 PRIORITIES & OBJECTIVES

- To strengthen the ability of countries to integrate climate change responses into national development processes

Climate Change



- that countries utilize the ecosystem approach to enhance human well-being

Ecosystem management



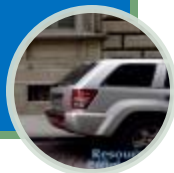
- that environmental governance at country, regional and global levels is strengthened to address agreed environmental priorities

Environmental governance



- that natural resources are produced, processed and consumed in a more environmentally sustainable way

Resource Efficiency - SCP



- to minimize the impact of harmful substances and hazardous waste on the environment and human beings

Harmful substances and Hazardous Wastes

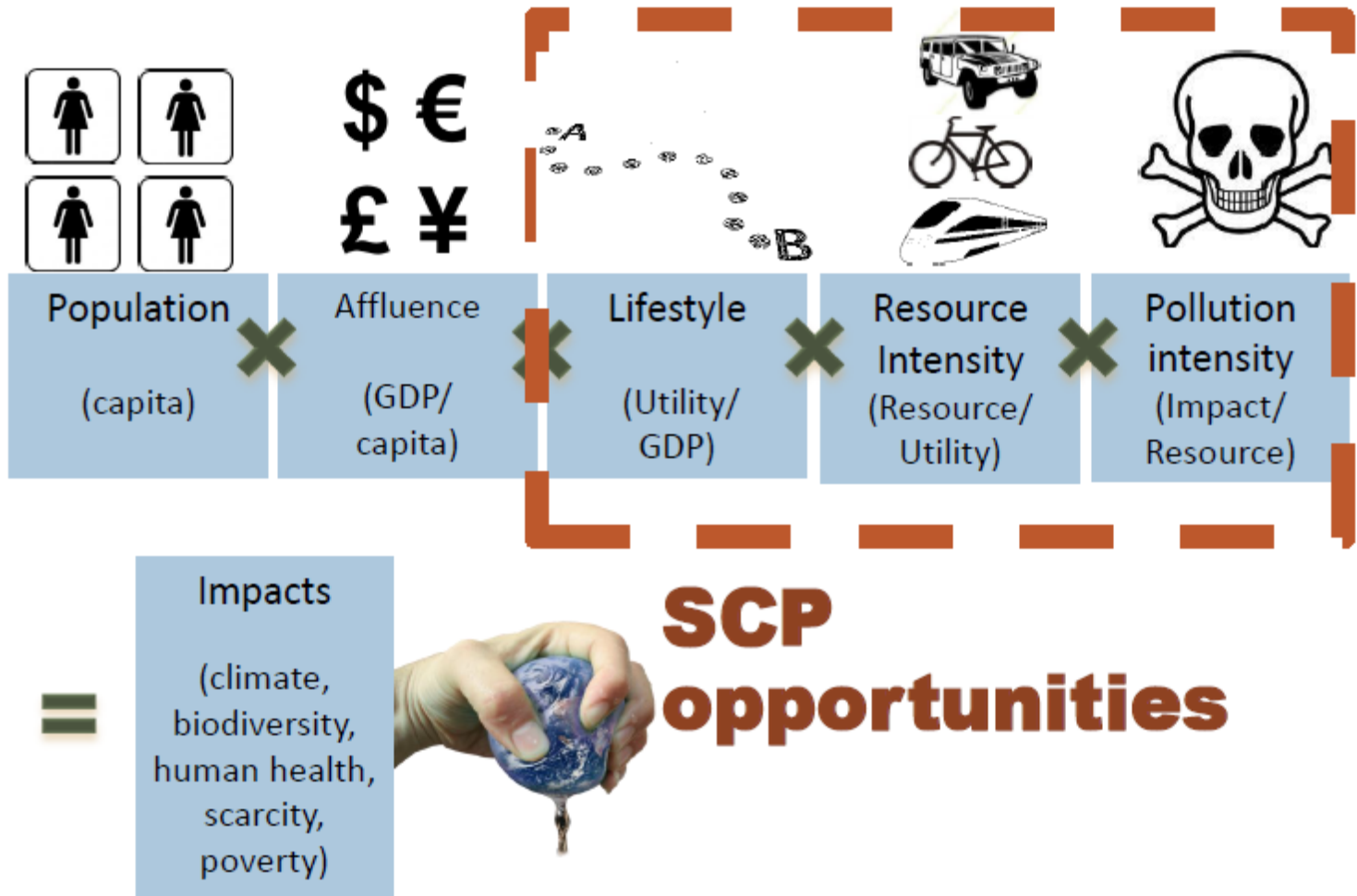


- to minimize environmental threats to human well-being arising from the environmental causes and consequences of conflicts and disasters

Disasters and conflicts



CONSUMPTION & PRODUCTION DRIVERS



MAKING IT HAPPENS

- Regulatory approach
- Social Approach
- Economic Approach
- **Market –based approach**

WHAT GREEN PURCHASING?

Definition

Concepts & Principles

Practices



GREEN BUSINESS: FROM A MOVEMENT TO A MARKET

First Do No Harm

- 1950-1970's – where companies aimed to get the worst environmental abuses under control
- Pollution control laws

Doing Well by Doing Good

- 1980's – companies found that they could replace costs and enhance their reputations by taking proactive steps
- 1990's – Environmental Management System was introduced

Green is Green

- 2000's environmental thinking can do more than improve the bottom line.
- Can help grow the top line through innovation, more markets and business opportunities.
- Cradle-to-cradle thinking life cycle assessment, end of life management, dematerialization, extended producers responsibilities, supply chain.

1950

1960

1970

1980

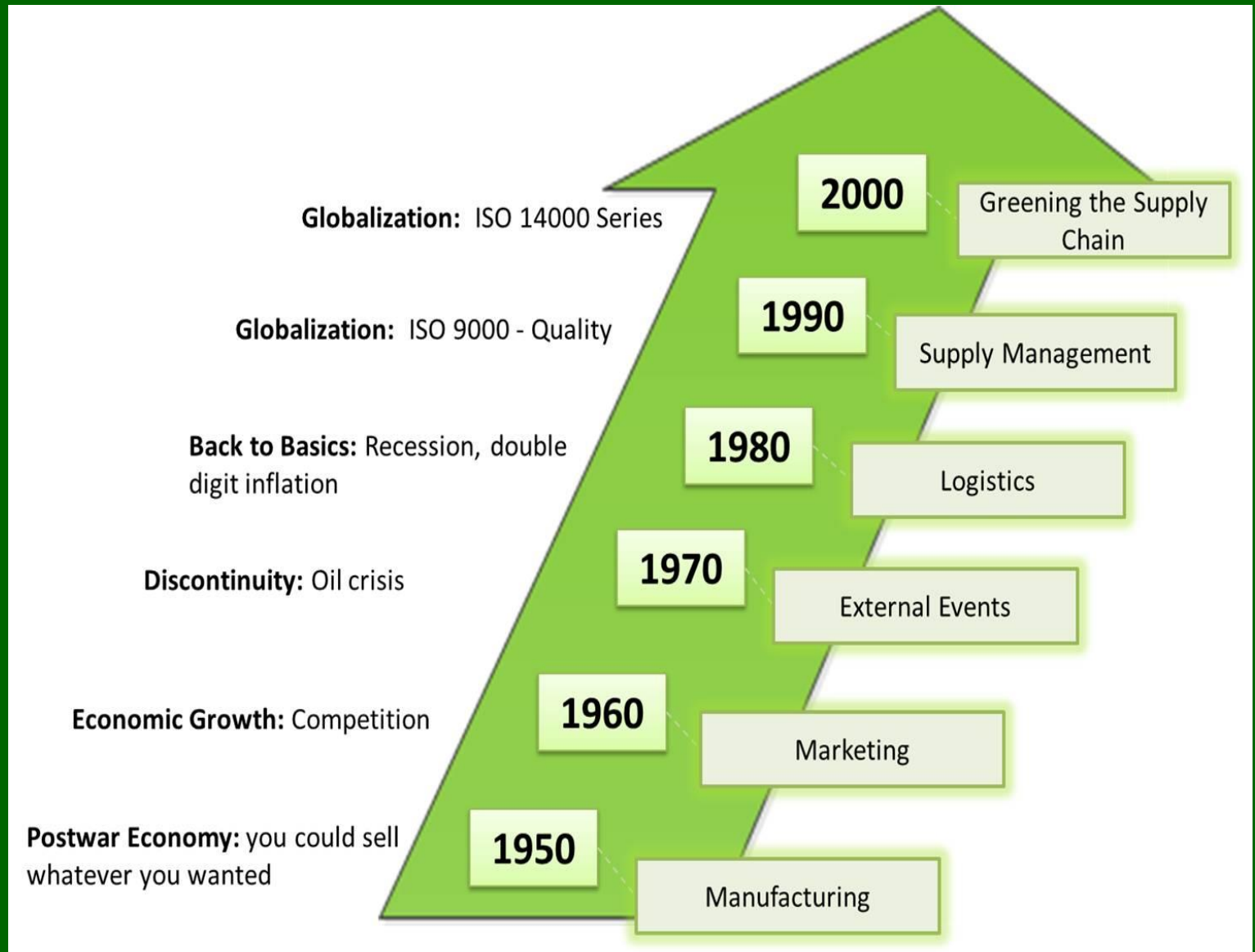
1990

2000

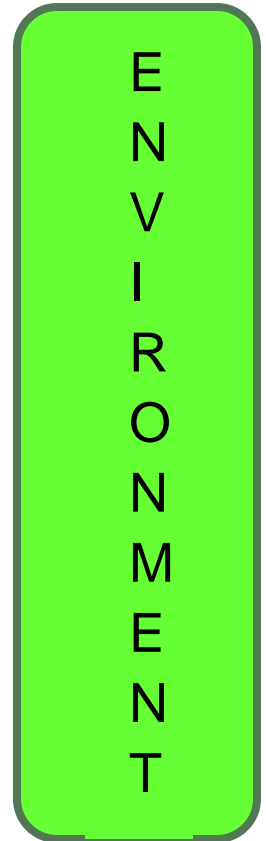
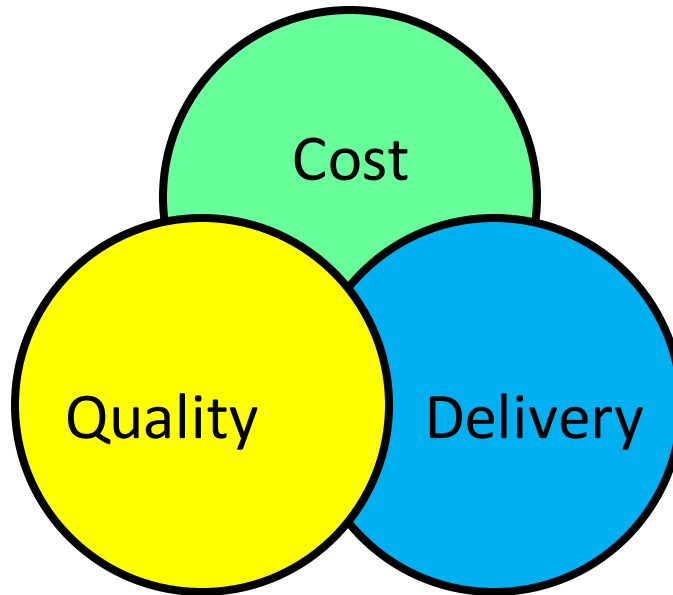
J.Makower2009



FORCES OF CHANGE IN PURCHASING



**Green
Purchasing**



Green Procurement – is the act of procuring products and services where environmental considerations are incorporated as a basis of decision in addition to the conventional judgment such as price, quality and delivery

GREEN PROCUREMENT

Set within the context of achieving **value for money** where it requires the integration of **social and environmental performance** considerations into the procurement process including planning, acquisition, use and disposal.



GREEN PURCHASING

Promotes Sustainable Businesses

*Encouraging environmentally conscious management
and product development through the market*

Green purchasing

Consumer

Green market

Business

Individuals
Governments
Corporations

Green product

Eco-design,
LCA, EMS



BASIC PRINCIPLES OF GREEN PURCHASING

Principle 1: Carefully consider whether the product you're going to purchasing is actually necessary or not before purchasing it.

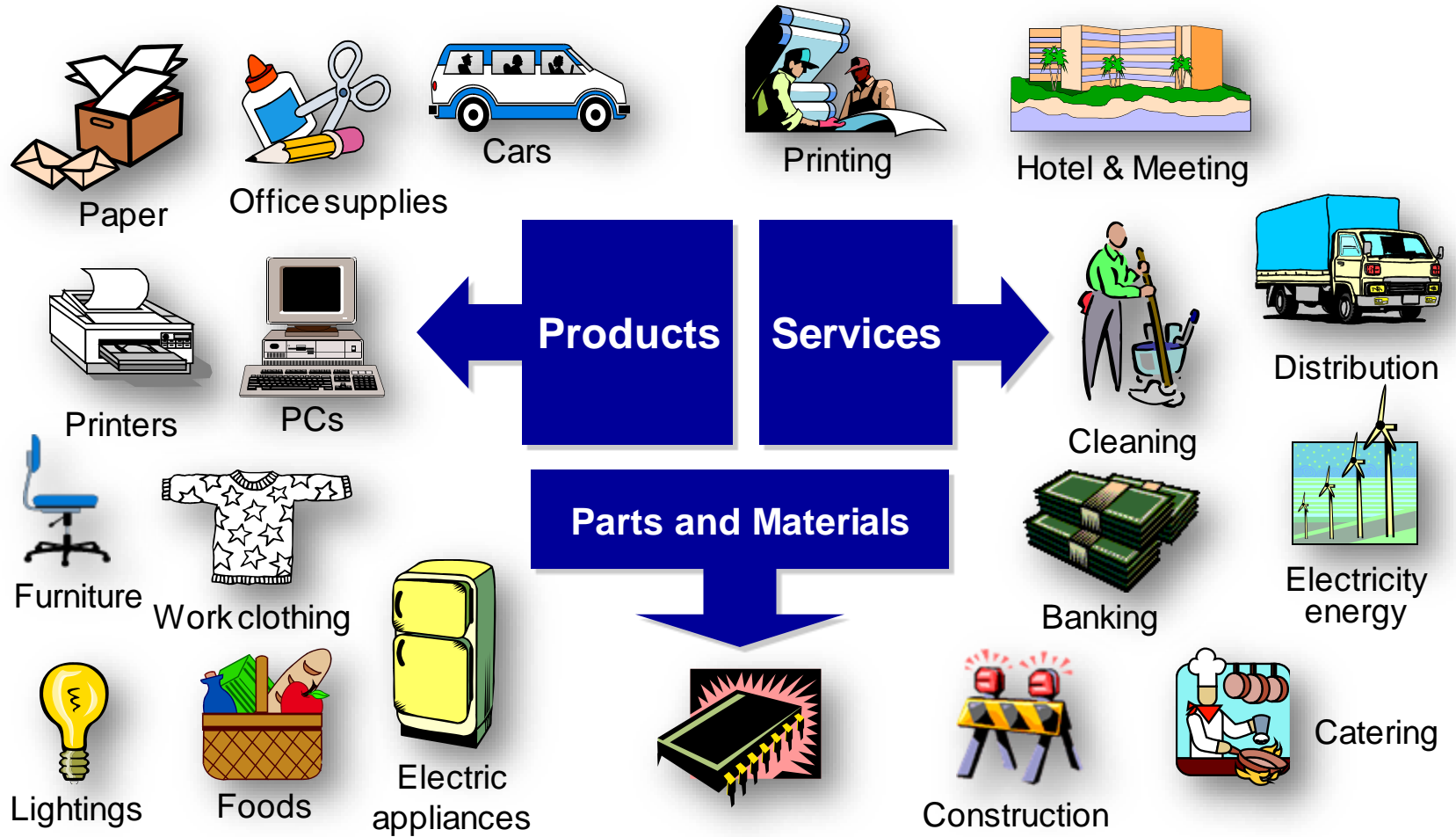
Principle 2: Purchase a product with consideration for various environmental impacts over its life cycle - from extraction of raw materials to disposal.

Principle 3: Select suppliers who make conscious efforts to care for the environment

Principle 4: Collect environmental information on products and suppliers.



APPLICATION OF GREEN PURCHASING



ECOLABELLING

- Identifying Environmentally Preferable Products
 - ISO 14020 Series
- National Ecolabelling Programme Green Choice Philippines

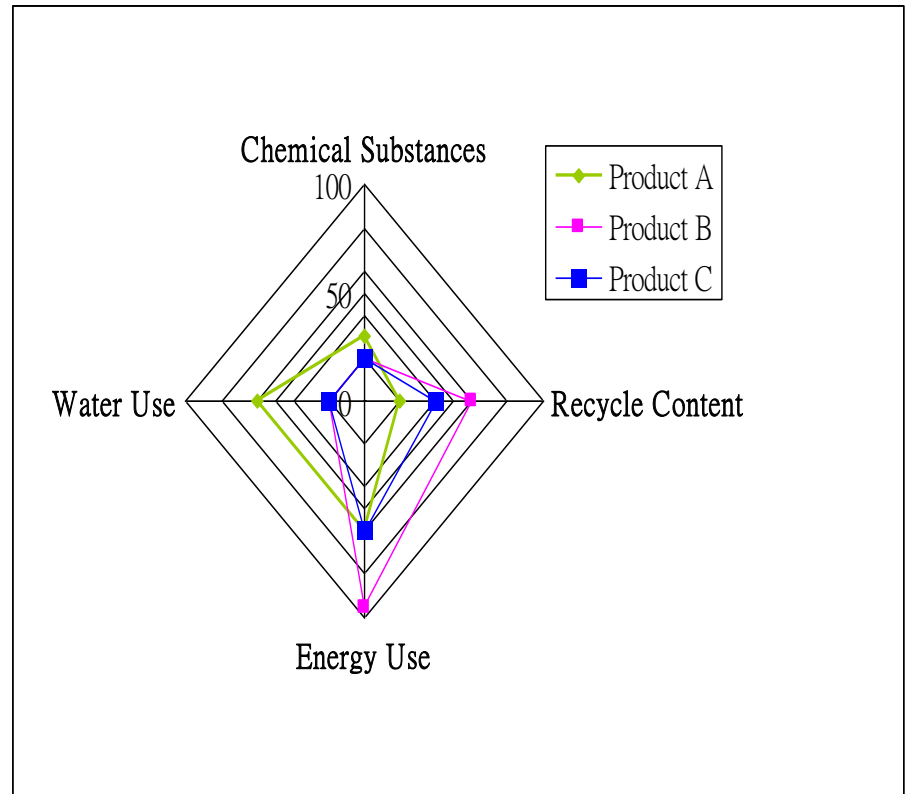


IDENTIFYING ENVIRONMENTALLY PREFERABLE PRODUCTS

- What are green products?
- What makes a product “greener” than the others?
- What proof of those claims can be observed?
- Is the environmental claim certified by an independent third party?

DEFINING “GREEN”....

- “Greener” than conventional products with the same functional characteristics
- Recyclable, low pollution and resource saving
- Based on life cycle consideration
- Net environmental benefit



Dr. Ning Yu, EDF

PRODUCT SPECIFIC ATTRIBUTES

- Recycled Content
- Energy and water efficiency
- Biobased
- Low toxicity
- Durability
- Low VOC
- Renewable resources
- Packaging
- Upgradeable
- Resource conservation
- Others

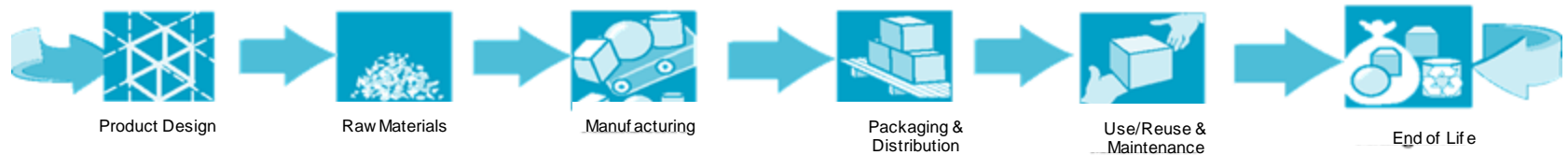
PROCESS SPECIFIC ATTRIBUTES

- Transportation
- Use of renewable energy
- Absence of hazardous byproducts
- Greenhouse gas emissions
- Closed-loop manufacturing facility
- Others

MANUFACTURER SPECIFIC ATTRIBUTES

- Lack of environmental violations
- Credible Environmental Management System
- Public environmental/social reporting procedures
- Mechanism for engaging stakeholders
- Absence of ongoing protests
- Others

LIFE CYCLE PERSPECTIVE



PhP Economic ↑ Continuum ↓ Environmental	<ul style="list-style-type: none"> Does the design minimize life cycle costs? Are there product features that add cost without adding sufficient value? 	<ul style="list-style-type: none"> Are our suppliers getting the best price for their raw materials? Are there hidden disposal or compliance costs associated with the materials they are using? 	<ul style="list-style-type: none"> Are cost-savings available <ul style="list-style-type: none"> productivity improvements; efficient use of raw materials; energy- or water-efficient production methods; opportunities to use waste products as an input for another supplier? Is the supplier/facility ISO14000 certified? Have they been reported for any environmental violations? Are they using renewable energy? Do they publish a CSR report? 	<ul style="list-style-type: none"> Is the distribution system efficient and operating at best practice Has the supplier made plans to mitigate rising fuel prices (e.g., prepared to improve fuel efficiency or switch to alternative fuels)? Is the supplier adhering to WMT's sustainable packaging guidelines (i.e. minimizing packaging and using appropriate materials)? 	<ul style="list-style-type: none"> How often do we have to replace it? How expensive is it to maintain and operate? What are the greenhouse gas emissions associated with product use (e.g. energy efficiency)? What risks does the product pose to human health or the environment? 	<ul style="list-style-type: none"> What are the costs to properly dispose of the product? What revenue streams are available by properly recycling or donating the product? What are the possible human health and environmental impacts associated with proper disposal of the item?
	<ul style="list-style-type: none"> Was it designed to be inexpensive to maintain and operate (e.g., easy to upgrade, energy and water efficient)? Was the product "designed for the environment" (e.g., easily recycled, upgradeable, careful use of safe materials)? 	<ul style="list-style-type: none"> Are the raw materials being sourced sustainably? Are safer materials available? 				

VAGUE CLAIMS

Environmental claims such as
“eco-friendly”, “environment friendly”, “earth friendly”,
“...free”, “earth saver”,
“environmentally preferable”, “energy saver”,
“made with non-toxic materials”, “compostable”,
“recyclable”,
“non-polluting”, “zero waste”, “essentially non-toxic”,
“clean”, “100% CFC free”,
are so common that they are misleading.

Beware!



WHAT IS ECOLABELLING?

- Involves the practice of labeling products and services based on a wide range of environmental considerations (e.g. hazard warnings, certified marketing claims, and information disclosure labels)
- Conveys information on environmental aspects of a product/service to the market (ISO 14020, 1998)



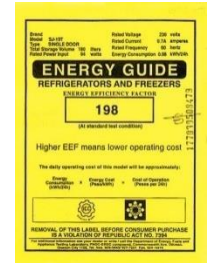
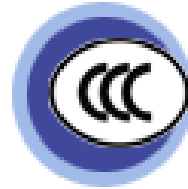
MAIN ELEMENTS OF ENVIRONMENTAL LABELS AND DECLARATIONS

- Mandatory or voluntary
- Level of Verification (first or third party)
- Sectoral application (e.g. PEFC for Forestry)
- Coverage of issues (information, comparison or leadership)
- Type of information transmitted (multiple, single)



EXAMPLE

- mandatory or voluntary



- single or multiple issue (Life Cycle based)



- single or multiple sector



- inform, compare or leadership



- self-declared or 3rd-party verified



INFORMATION TOOL

Ecolabelling, certification standards, reporting, declaration and green or ethical claims

Business

- Management tool
- Performance Control of Supply Chain
- Marketing Tool

Consumer

- Shopping Guide
- Action tool to voice concern through purchasing power

Government

- Policy tool
- Market Incentive
- Stimulate demand for sustainable products



Purpose of ecolabelling is to **communicate environmental information** that is credible and relevant.





DIVERSITY OF LABELS IN THE MARKET



GLOBAL ECOLABELLING NETWORK MEMBERS



Source: www.globalecolabelling.net

ECOLABELLING

- Type I eco-labeling programmes in 11 countries in Asia-Pacific region

- China, Hong Kong, India, Indonesia, Japan, Korea, the Philippines, Singapore, Taiwan, Thailand, Malaysia

- Common traits: trade-mark registered logos, pre-set criteria, third-party certified, etc

- Labeled products are easy for consumers to recognize as green products & services



Ramah Lingkungan



THE NATIONAL ECOLABELLING PROGRAMME



AN ISO 14024 APPLICATION

NATIONAL ECOLABELLING PROGRAMME - GREEN CHOICE PHILIPPINES (NELP-GCP)

- Voluntary
- Third Party Declaration
- Based on ISO 14024 Type I Environmental Labeling
- Awards a Positive Seal of Approval
- Product/Brand/Plant Specific
- Based on multiple criteria through life cycle considerations

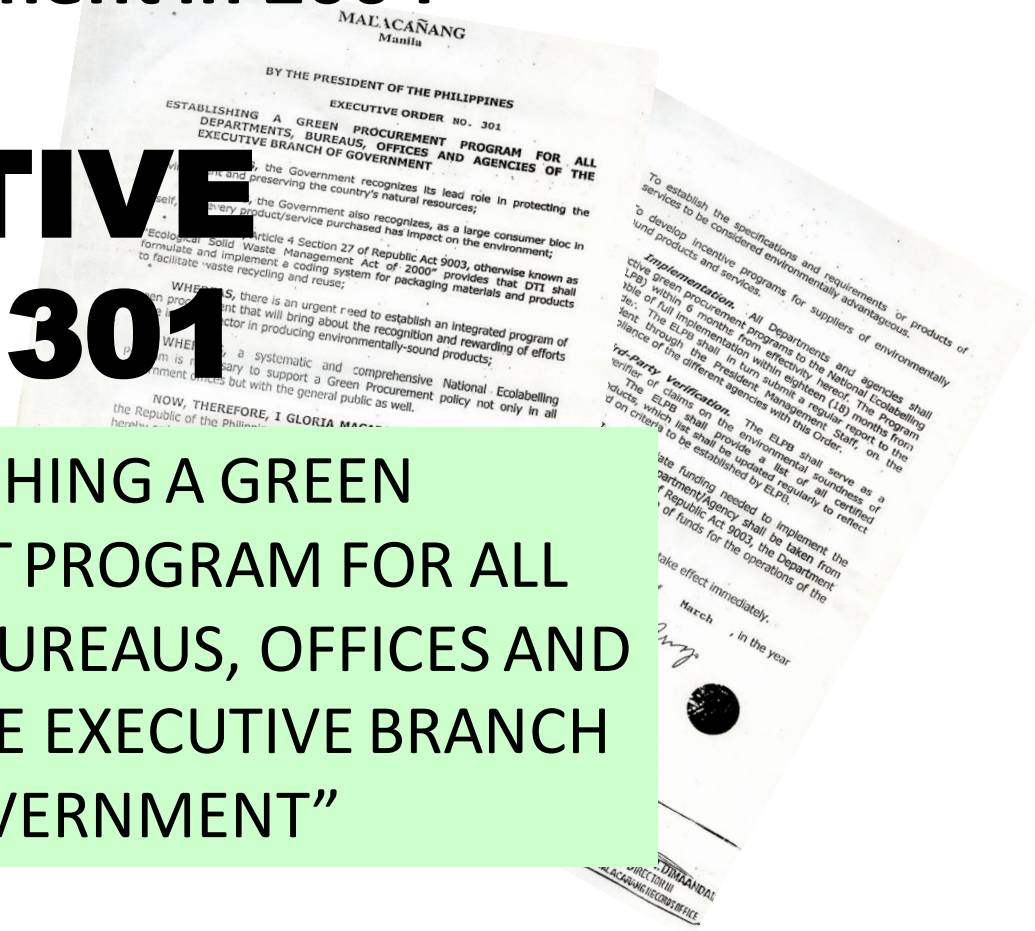


LEGAL BASIS

Lobbied for the establishment of Green Public Procurement in 2004

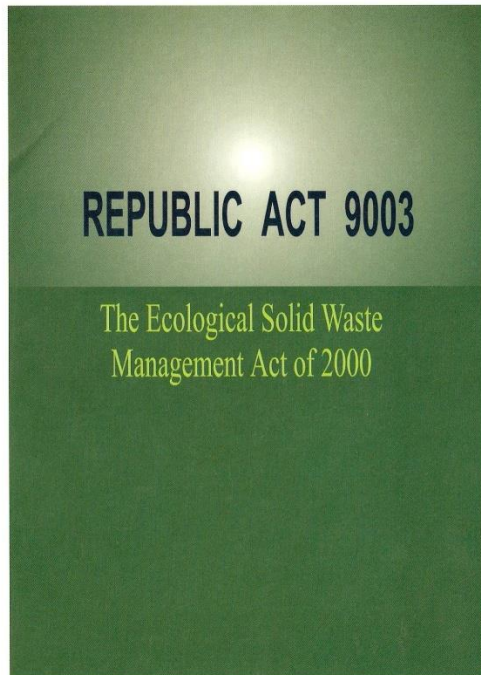
EXECUTIVE ORDER 301

“ESTABLISHING A GREEN PROCUREMENT PROGRAM FOR ALL DEPARTMENTS, BUREAUS, OFFICES AND AGENCIES OF THE EXECUTIVE BRANCH OF GOVERNMENT”



LEGAL BASIS

RA 9003, Republic Act of the Philippine Laws on Ecological Solid Waste Management

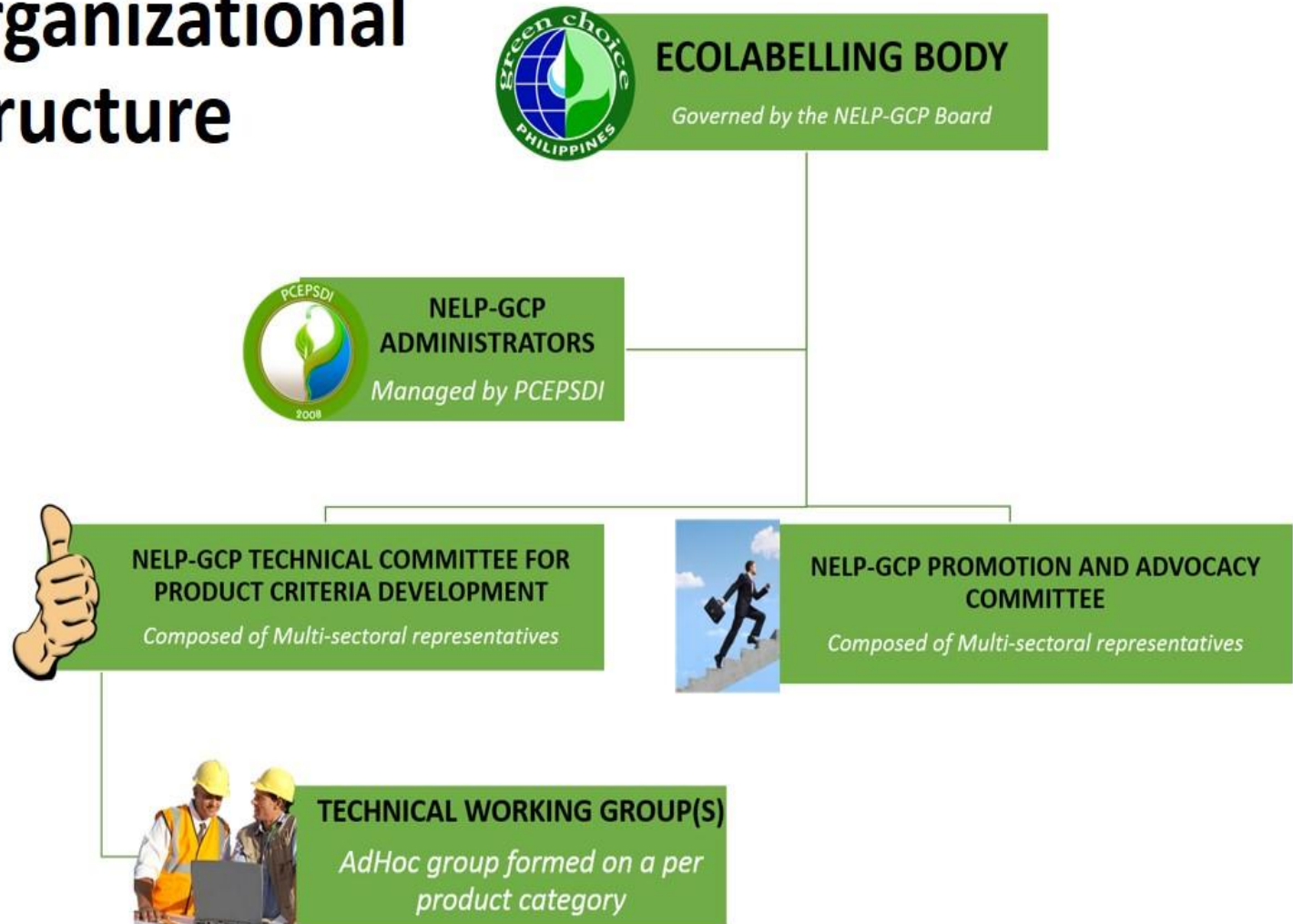


Approved: January 26, 2001

Article 4, Section 27
“Requirement on Ecolabelling”
states that *“Department of
Trade and Industry shall
formulate and implement a
coding system for packaging
materials and products to
facilitate waste recycling and
reuse”*



Organizational Structure



BOARD MEMBERS

Dept. of Environment &
Natural Resources



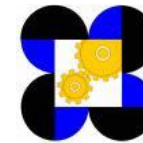
Dept of Trade &
Industry

Dept of Budget &
Management



Nat'l Solid Waste
Management
Commission

Dept of Energy



Dept of Science &
Technology

Development
Academy of the Phils.



Concerned Citizens
Against Pollution

National Consumer
Affairs Council



Philippine Business of
the Environment



Phil. Center for Environmental Protection &
Sustainable Devt., Inc.

TECHNICAL COMMITTEE MEMBERS



PROMOTION AND ADVOCACY COMMITTEE



ADMINISTRATOR

MAIN ACTIVITIES

Product Criteria Development

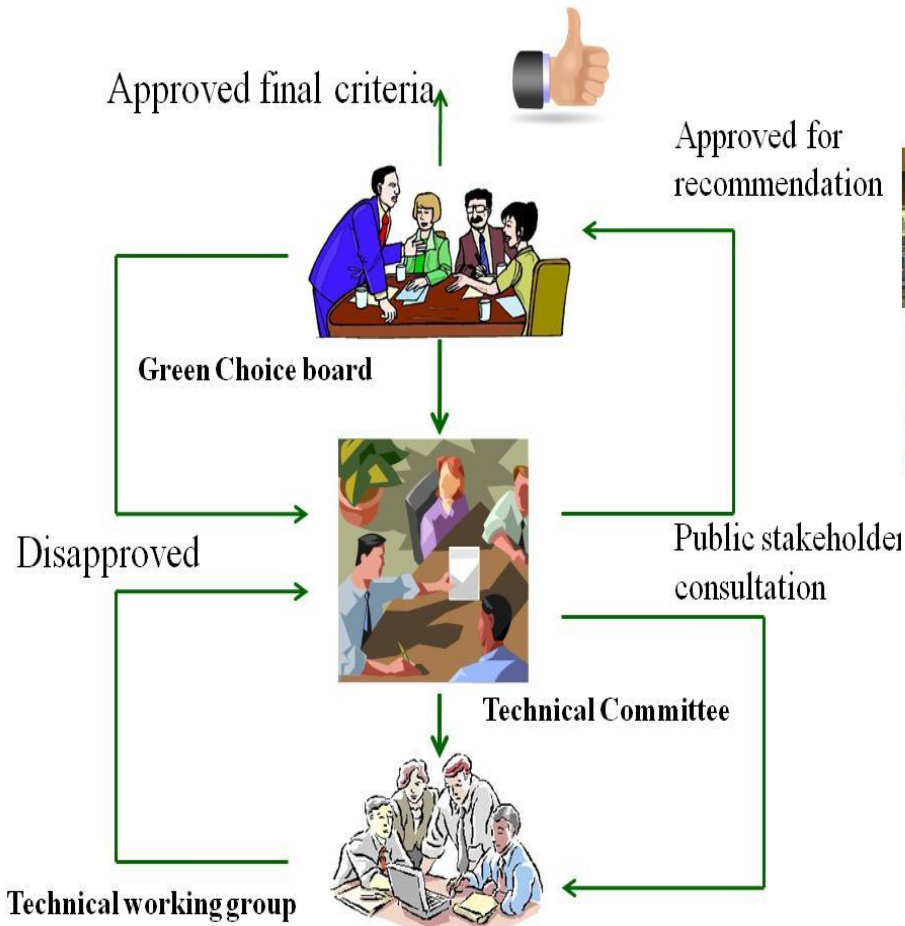
Processing the Application &
Awarding the Seal of Approval

Promotion & Advocacy

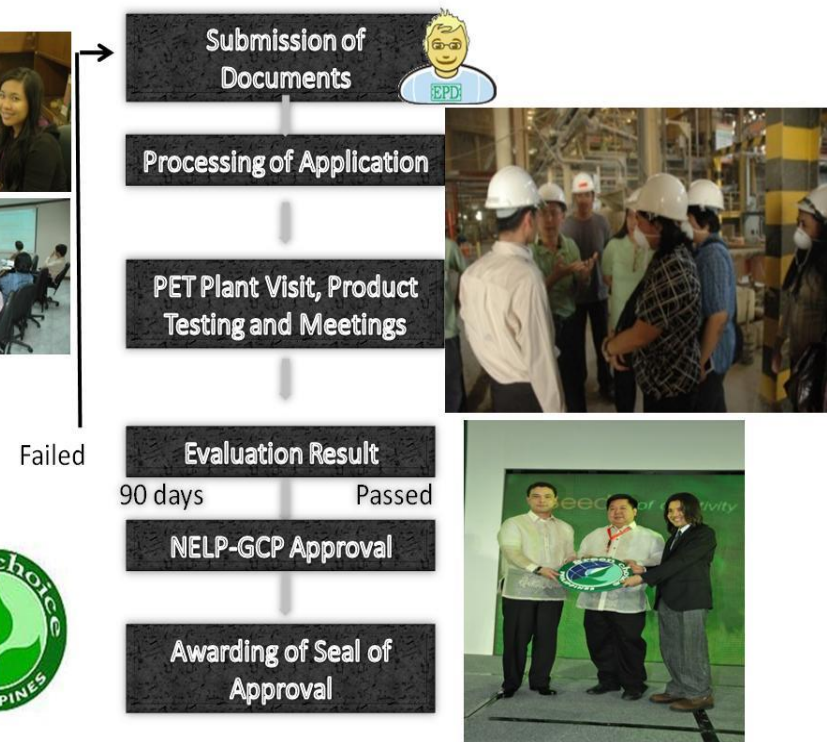


OPERATIONAL MECHANISM

PRODUCT CRITERIA DEVELOPMENT



PROCESSING OF APPLICATION AND AWARDING THE GCP SEAL



Criteria Development



Criteria Development

Identify Issues

Requirements/
Targets

Validation



Key Environmental Issues

Life Cycle Thinking



Criteria Development

Identify Issues

Requirements/
Targets

Validation



Material extraction



Safety

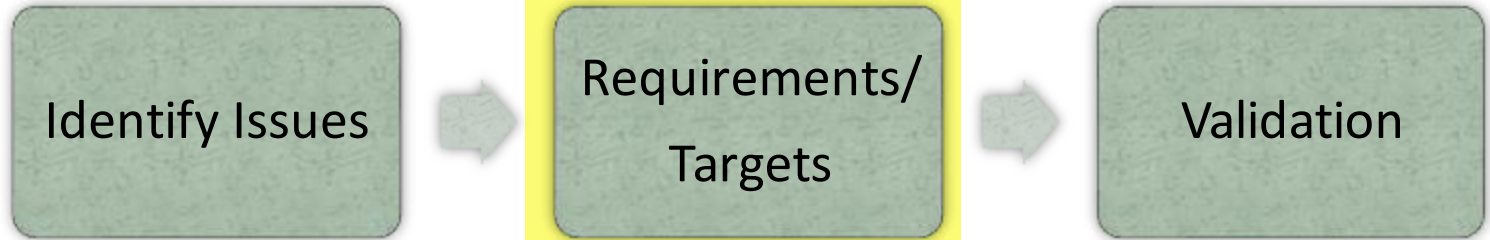


Solid Waste

Among others...



Criteria Development



- **Quality Products** (i.e. Compliant to quality standards)
- **Environmental Edge** (i.e., Reduced pollution, reduced material,
- Compliance with **International Guidelines**



Criteria Development

Identify Issues



Requirements/
Targets



Validation



Standards
on quality



Raw Mat
Source



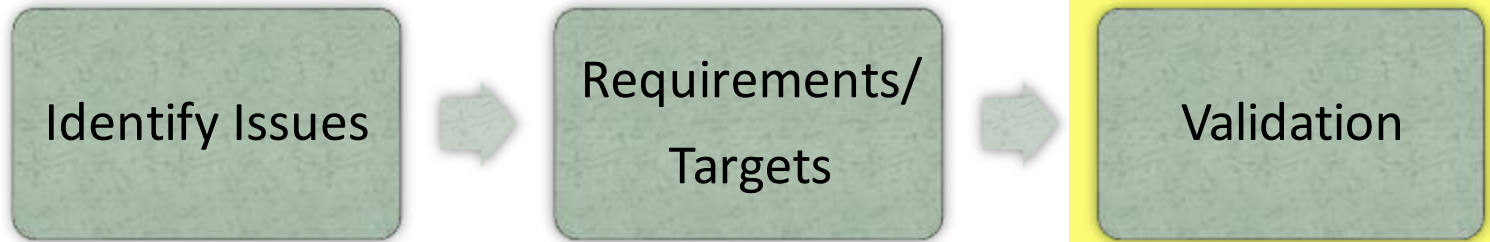
Reduced
energy use /
CO2 emission



Waste
Retrieval or
Recycling

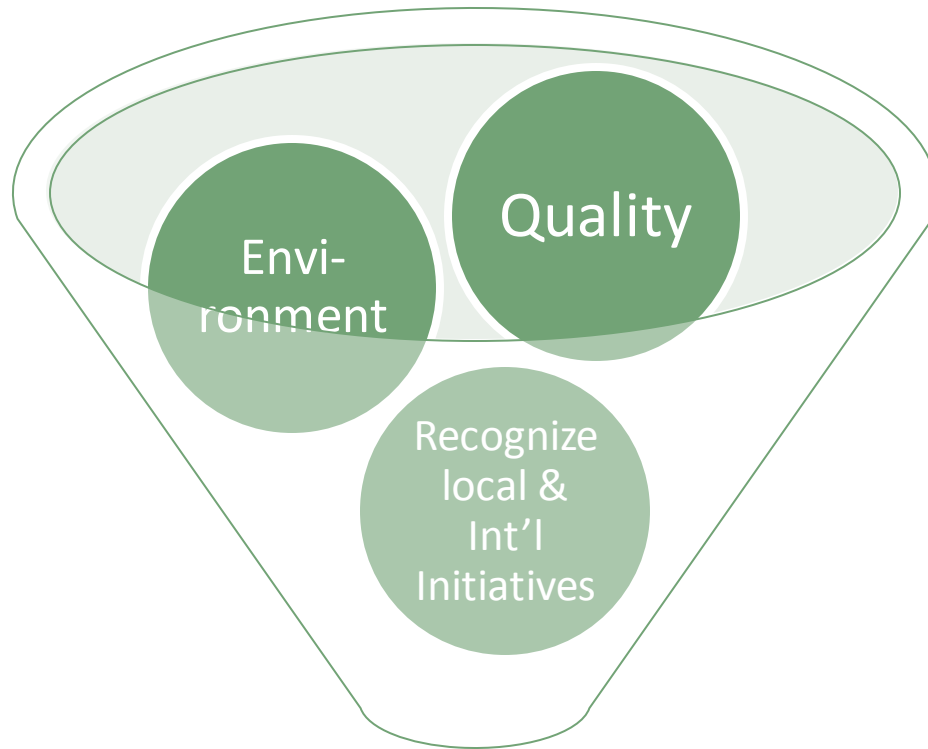


Criteria Development



- Third-party certification
- Laboratory Analysis
- Company records
- Certifications





PRODUCT CRITERIA DEVELOPED

Construction materials - 11



Stationary - 5



Consumer goods - 7



Industrial Products - 5



Office Equipment- 9



Services - 2



AWARDED PRODUCTS

Cement



Water-based Paint



Fiber Cement Board



Induction Lamps



Organic Infill Material



TISSUE PAPER PRODUCTS



LED Lights



Multi-function Printing Device



Detergent/cleaning agent



Electronic Ballast



Ceramic Tiles



Paper Board



Plantex

RECENTLY AWARDED PRODUCTS



GPP PILOT PROJECT

Memorandum of Understanding (MOU) Signing



**8 GPP Pilot Agencies commits to implement GPP
January, 2012 with PCEPSDI, IGPN and DAP
providing capacity building assistance**





European Union's Switch ASIA Policy on SCP

- Supports the implementation of policies and regulation related to clean energy and energy efficiency projects
- **Green Procurement and Ecolabelling programmes to be expanded to new government bodies and new products**
- Supports DENR's capacity to address priority cross cutting SCP matters including clean air legislation





Project Title: Development of Technical Specifications for Ten (10) Product Categories for the Implementation of Green Public Procurement (GPP)

Implementers: GFA Consulting Group and Philippine Center for Environmental Protection and Sustainable Development, Inc.

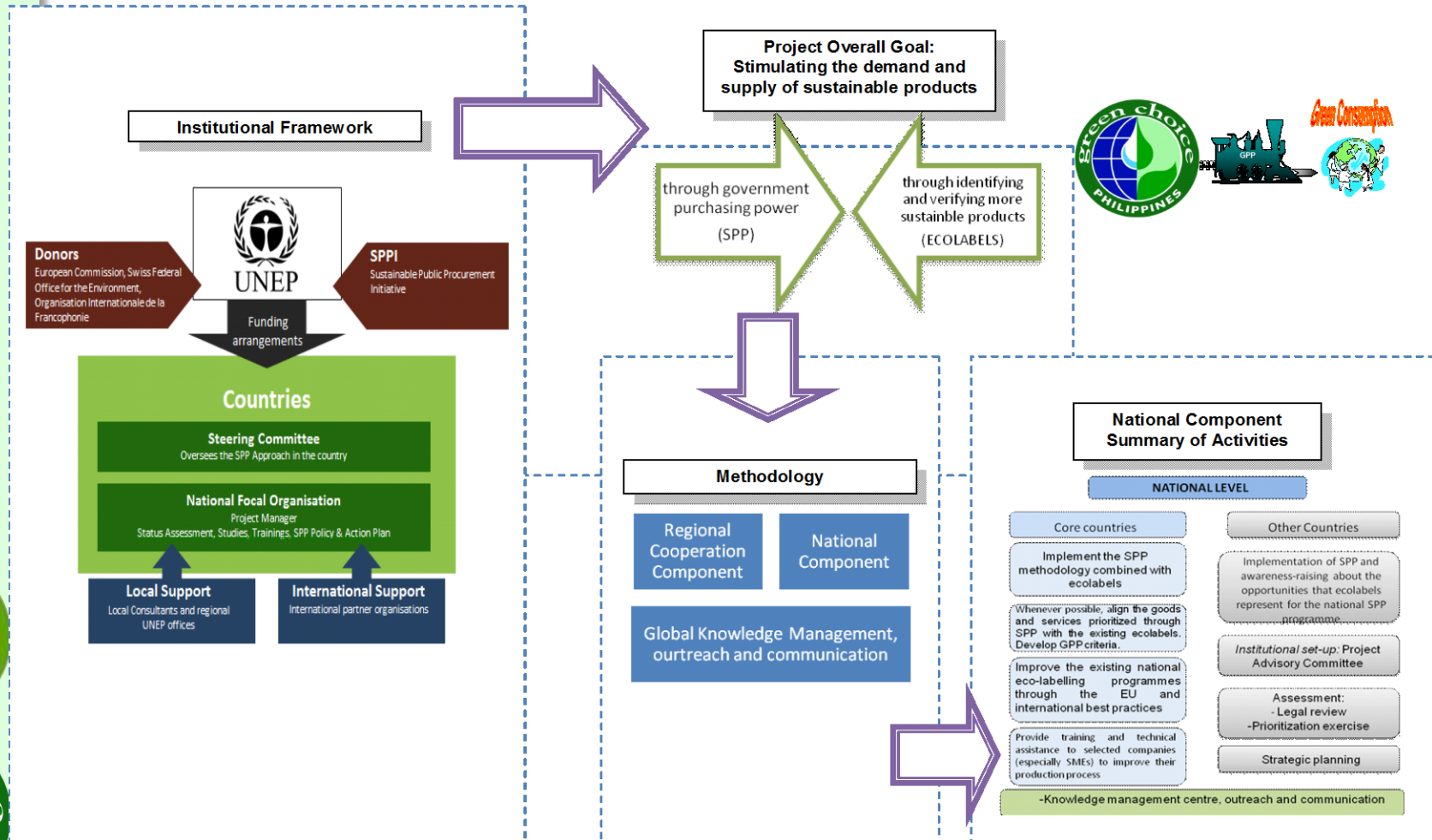
Scope: Eight government agencies piloting GPP – DBP-PS, DTI, DENR, DOE, DOST, PEZA, DAP, and Quezon City

Funding Source: EU Switch Asia Project

Activities: Prioritization of 10 product categories through market analysis, and signification environmental impacts; Development of environmental criteria through life cycle considerations.



SUSTAINABLE PUBLIC PROCUREMENT AND ECOLABELLING PROJECT



GREEN PUBLIC PROCUREMENT (GPP) AND SCP PROJECTS IN QUEZON CITY

1. Establishment and development of GPP Guidelines for Quezon City
2. Capacity Building to QC's Procurers and Suppliers
3. Promotion of Green Building Materials
4. Promotion of Ecolabelling and Greening the Food Services



TRAINING ON GREEN PURCHASING FOR SMEs

Promoting environmentally preferable products/services and green purchasing activities



SUSTAINABLE TOURISM IN MINDORO ISLAND

SUPPLIER'S FORUM ON GPP

273 participants

15 government institutions

105 supplier and contractor companies



Supported by IGPN , APO and EU Switch Asia

EXECUTIVE BRIEFING FOR CEOs ON GREEN BUSINESS , TRAININGS FOR LCA & GREEN PROCUREMENT





GP3 CONFERENCE 2015







Philippine greenpages

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PCEPSDI
2008

**PHILIPPINE CENTER FOR ENVIRONMENTAL
PROTECTION AND SUSTAINABLE DEVELOPMENT,
INC.**

**A MEMBER OF THE
GLOBAL ECOLABELLING NETWORK**

**GEN
Member**

**GCP AWARDED
ECO-PRODUCTS**

**GREEN
MATERIALS**

**GREEN
COMPONENTS**

**GREEN
SERVICES**

**GREEN
PRODUCTS**

THE PHILIPPINE GREEN PAGES

PGP aims to be a one-stop directory of eco-friendly products which connects you with green consumers and purchasers.

[READ MORE](#)

REGISTER YOUR PRODUCT

LET THEM KNOW YOU'RE GREEN!

[REGISTER NOW](#)

EVENTS

Eco-labels to help local products enter 'green' markets

PCEPSDI
2008

**"CAPACITY BUILDING
FOR GREEN PUBLIC
PROCUREMENT
IMPLEMENTATION"**

By Nikka Garriga CAGAYAN DE ORO CITY, MISAMIS ORIENTAL—Local manufacturers ...

[READ MORE](#)

NEWS

Gov't takes step toward 'greening' supply chain

By Amy R. Remo The Department of Trade and Industry ...

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FEATURED

Redefining Responsible

[ADS](#)

IN THE PIPELINE GPP PROJECTS

1. Development of Environmental Specifications for Government Public Procurements
2. Capacity Building for Quezon City on Sustainable Public Procurement & Ecolabelling
3. Development of environmental standards for public accommodations
4. Integration of SCP in the tourism programs of the government
5. Development of ecolabelling standards for construction materials

HUMAN ATTITUDES ON GREEN CONSUMERISM

1. Committed - knows what to do and does it often
2. Conflicted - knows what to do but often doesn't bother
3. Concerned - wants to know what to do but doesn't yet
4. Confused - doesn't know what to do or how to make a difference
5. Cynical - doesn't know and doesn't care



Thank you very much!

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