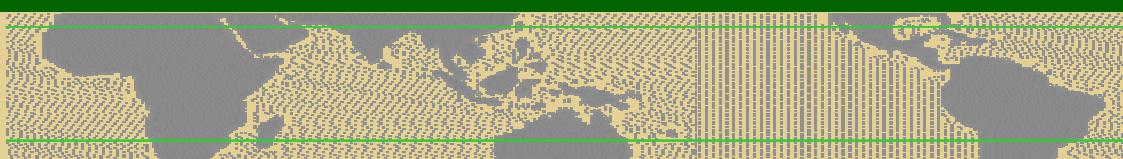


Speaker: Judy C.Y. Huang



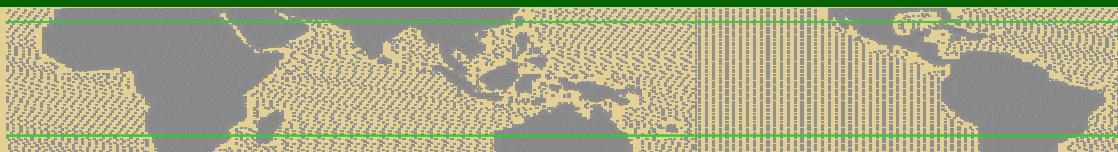
- **Secretary General,**
Archilife Research
Foundation,
Taiwan
- **President,**
Taiwan Society of
Sustainable Built
Environment



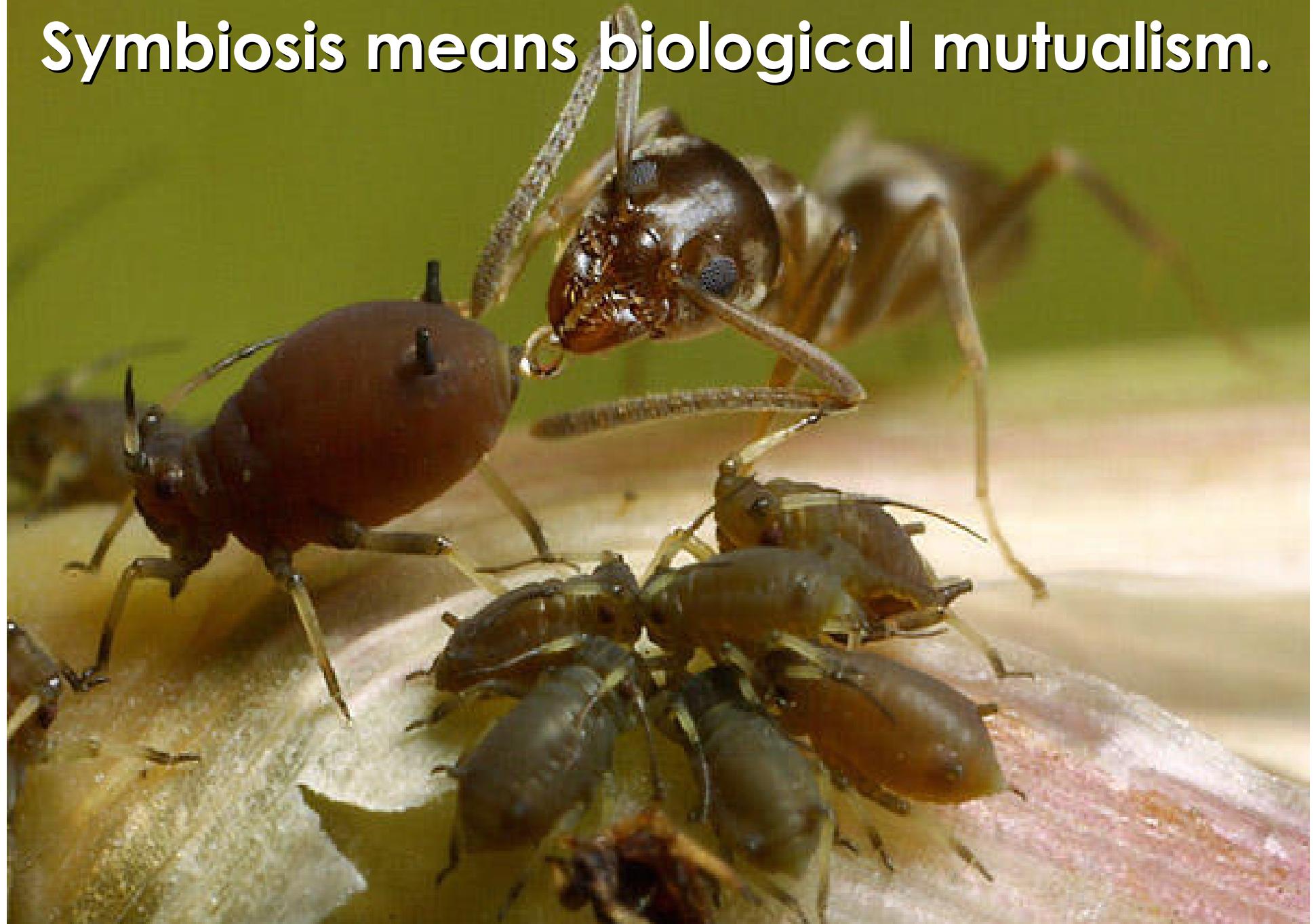
Symbiosis & Beyond



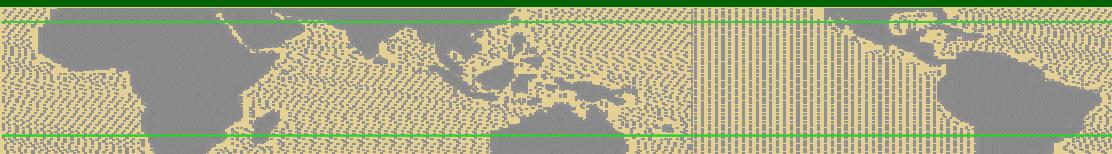
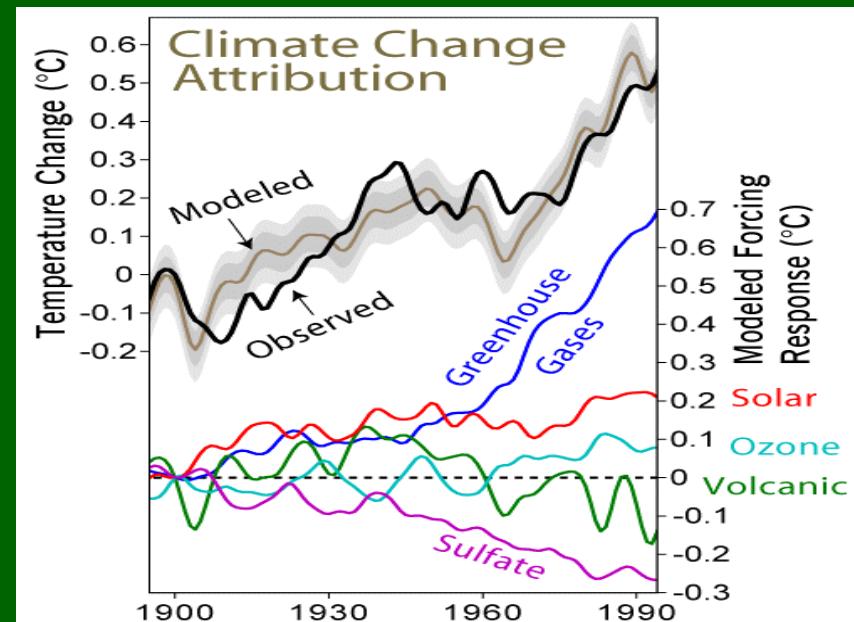
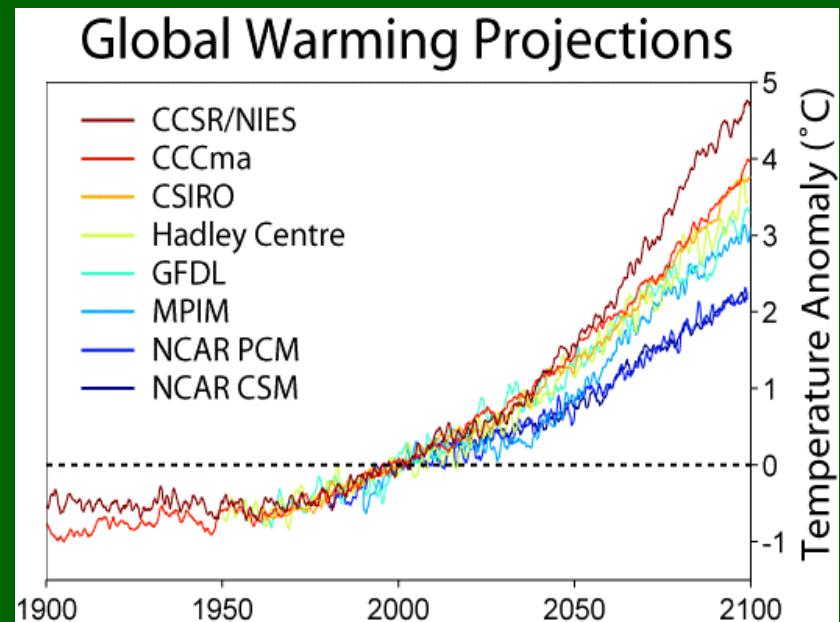
Judy C.Y. Huang, Secretary General
Archilife Research Foundation, Taiwan
September 19, 2008



Symbiosis means biological mutualism.



Use symbiosis to deal with global warming and climate change

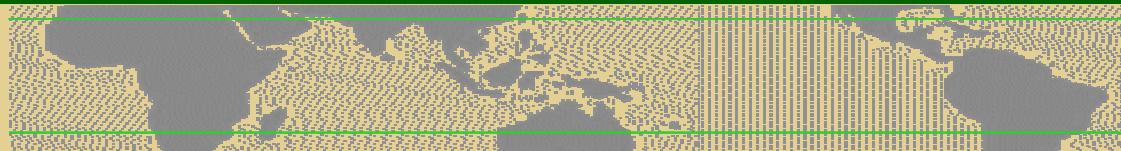


Deliver the **solution** and **suggestion** for sustainable development



SB05Tokyo

SB07Taipei





**Before 1970s,
we think resources and energies are unlimited.**



Advanced western country



Industrialization



Urbanization

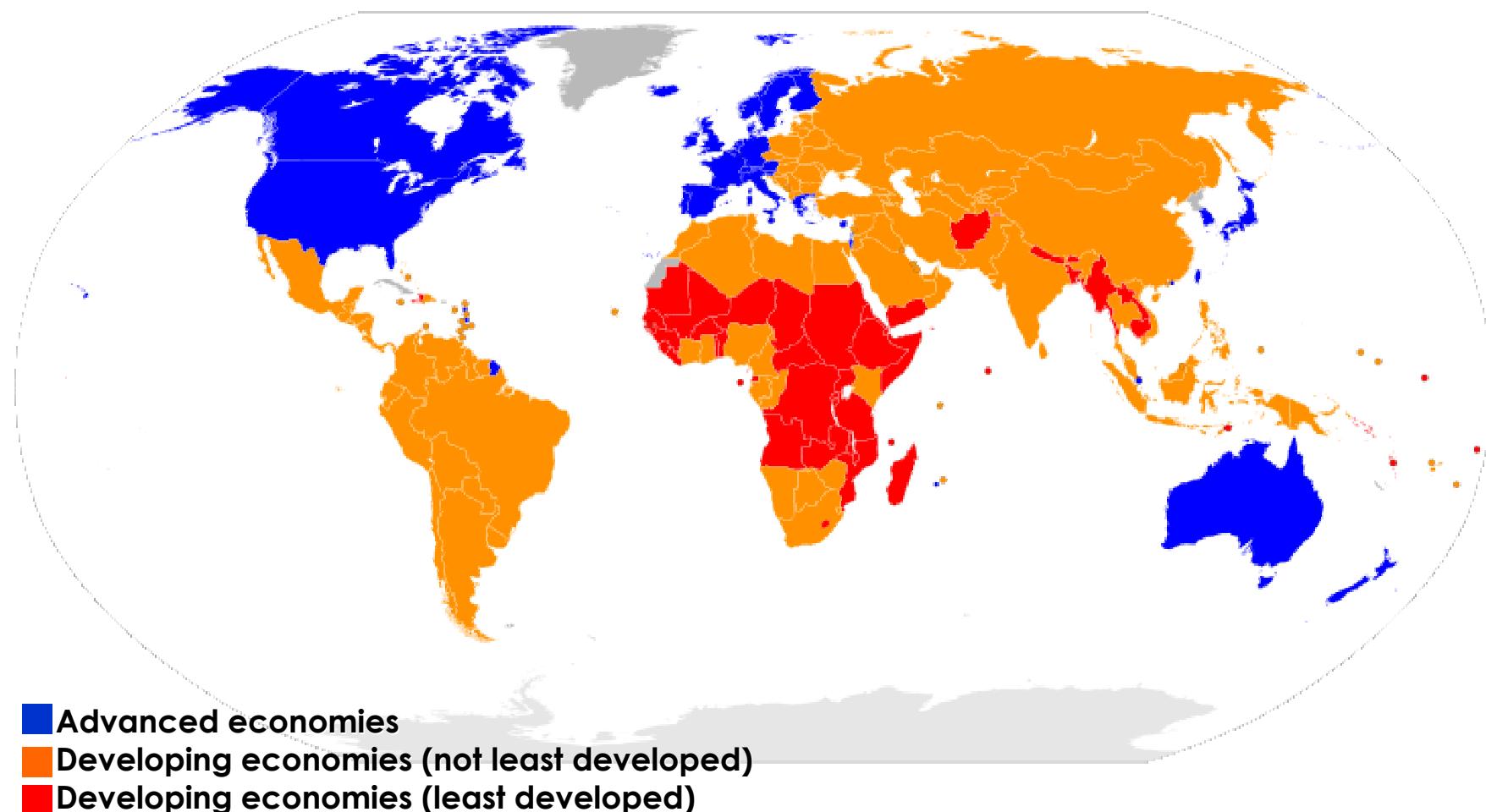


International Trade



Urbanized civilization

Advanced vs. Developing economies



Taipei, Taiwan

New York, USA



The way of western life makes the
whole world in the same model.

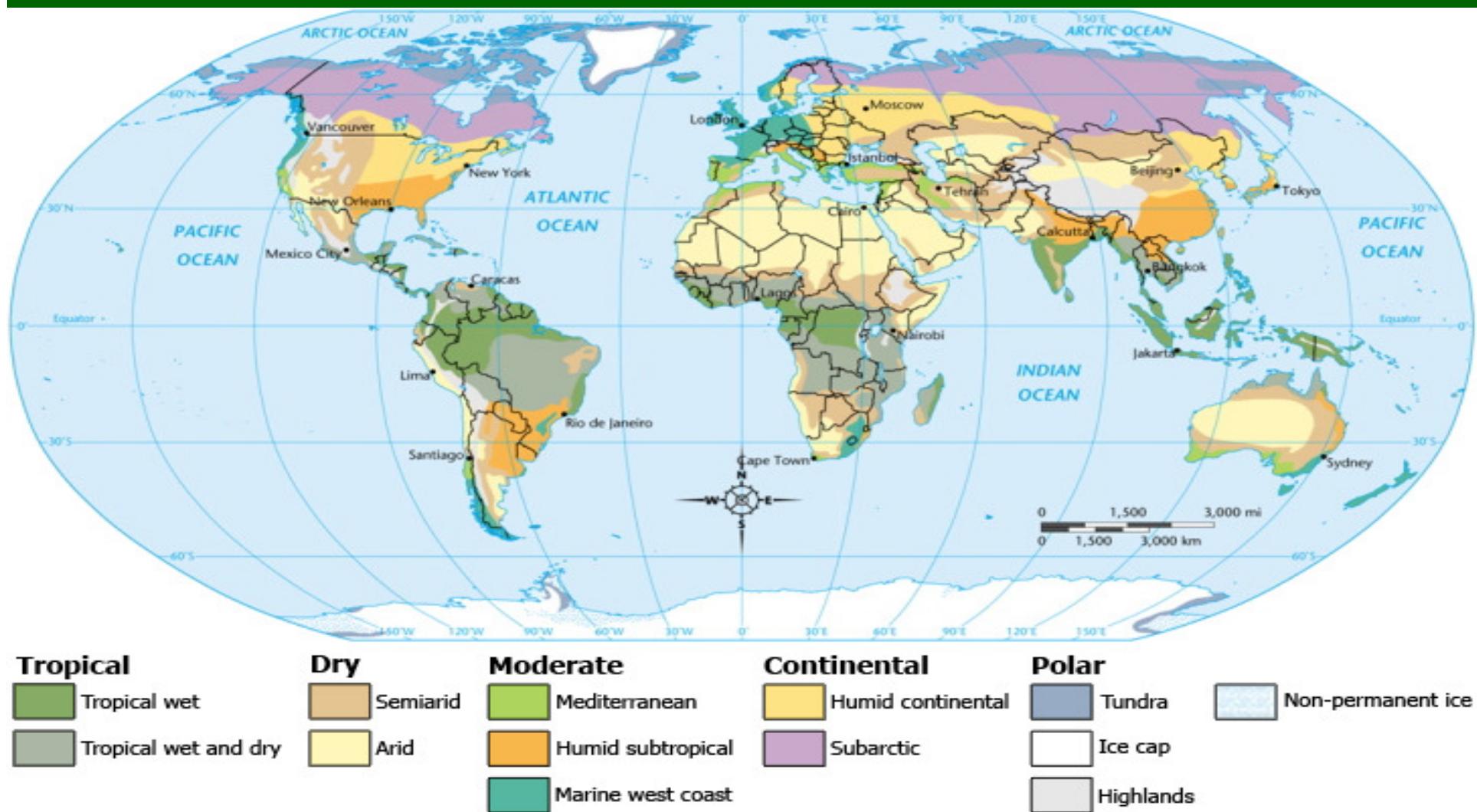


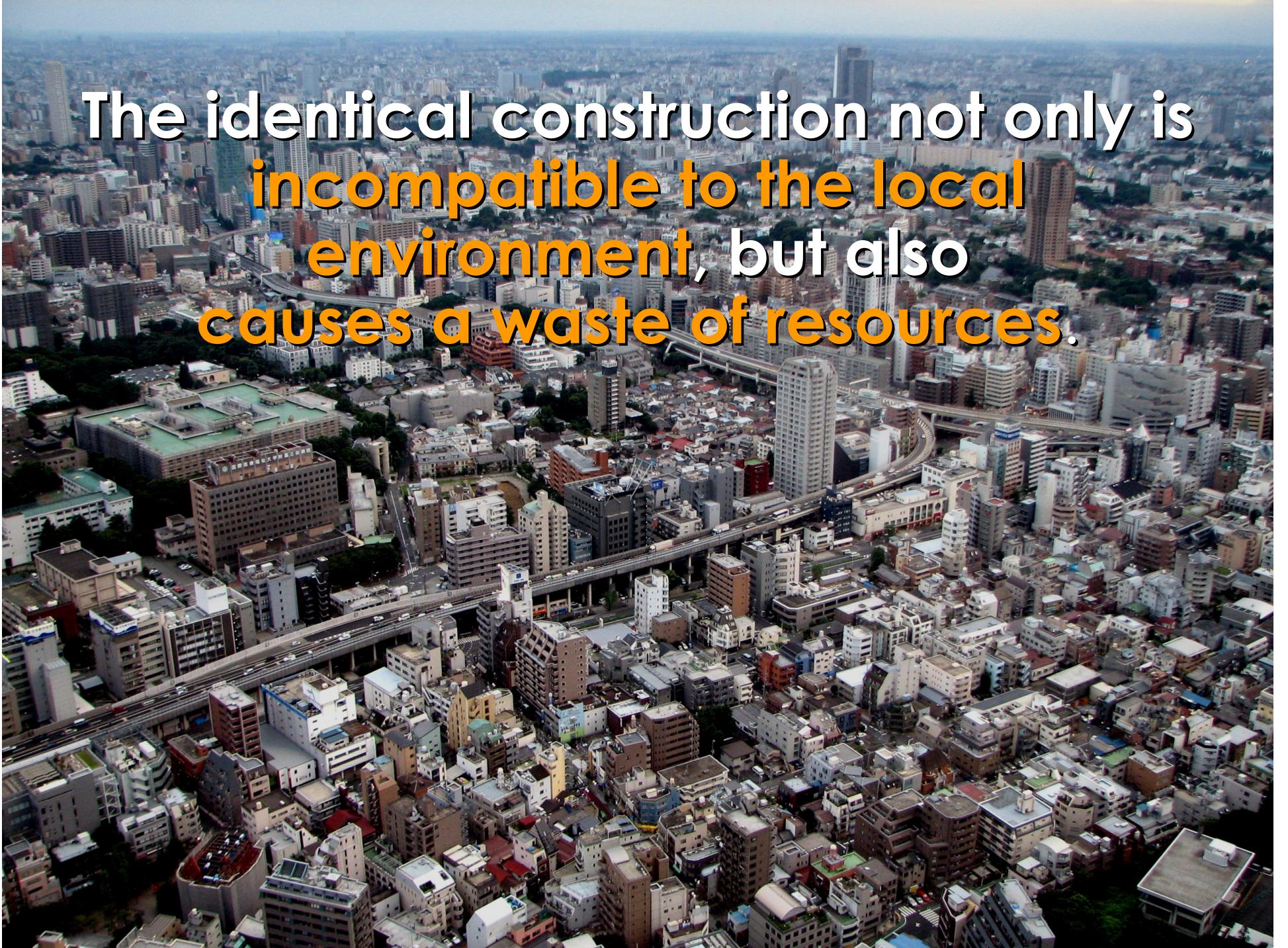
Hong Kong, China



Melbourne, Australia

The western model can not match
the **local climate** and **environment**.





The identical construction not only is incompatible to the local environment, but also causes a waste of resources.



Archilife's deductive model of climate change



The **directional industrialization** and **urbanization** are the main reason for breaking the steady climate.

Industrial civilization

Take ancient forest petrochemical
industry energy

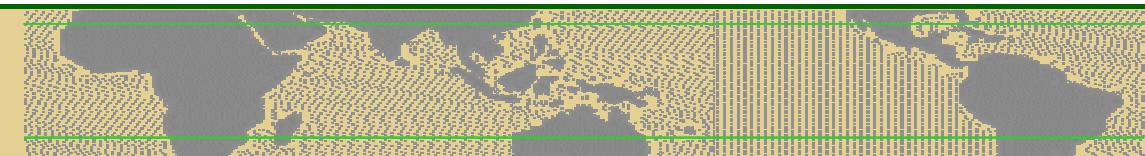
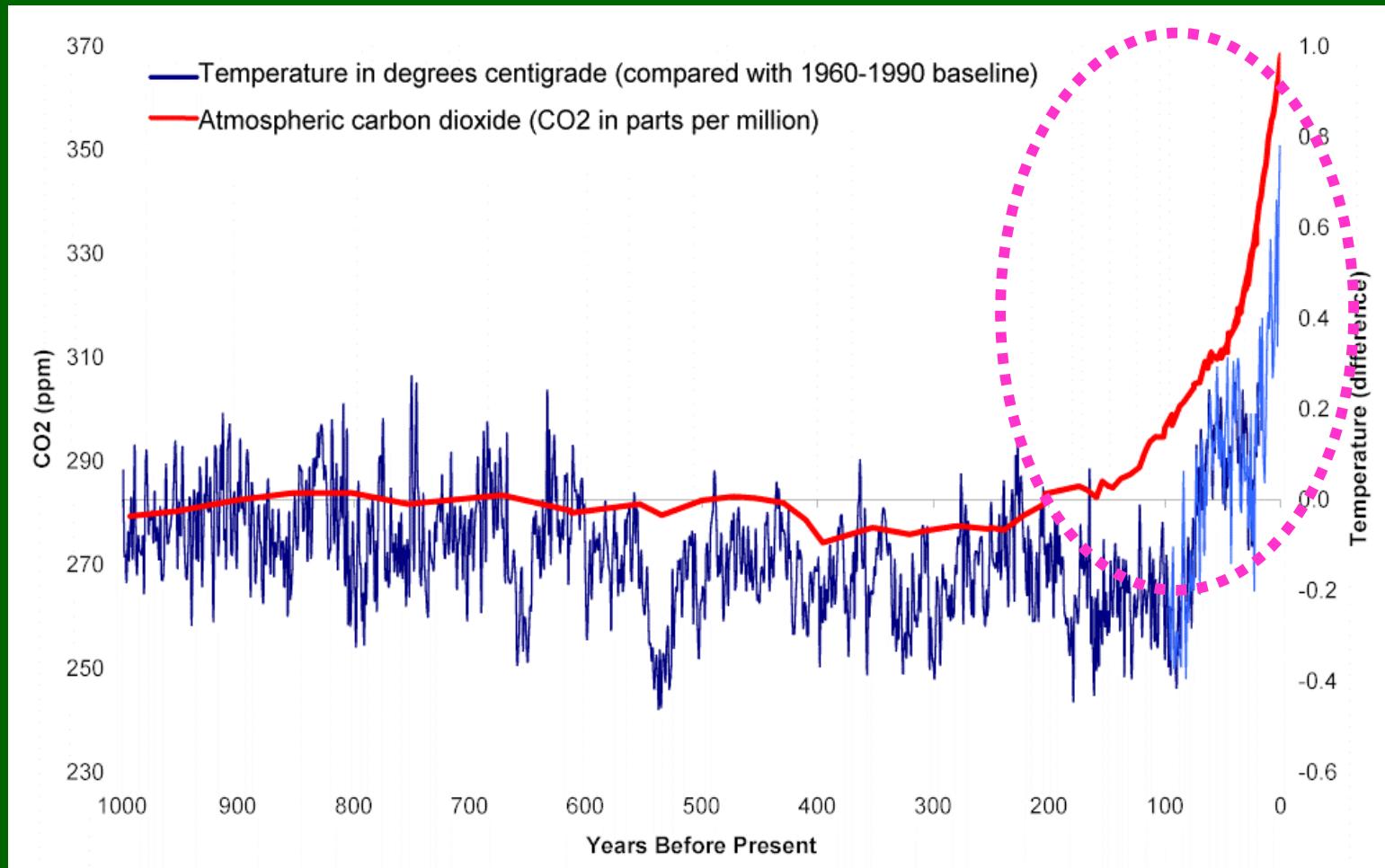


Industrial civilization

Cut down the forest to utilize



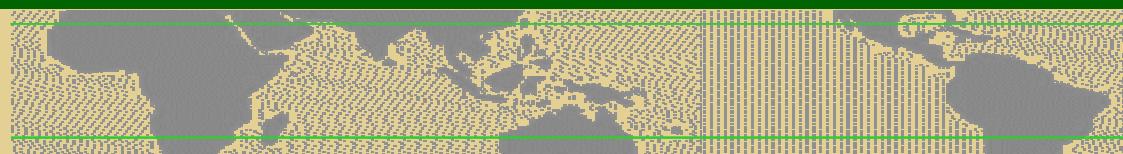
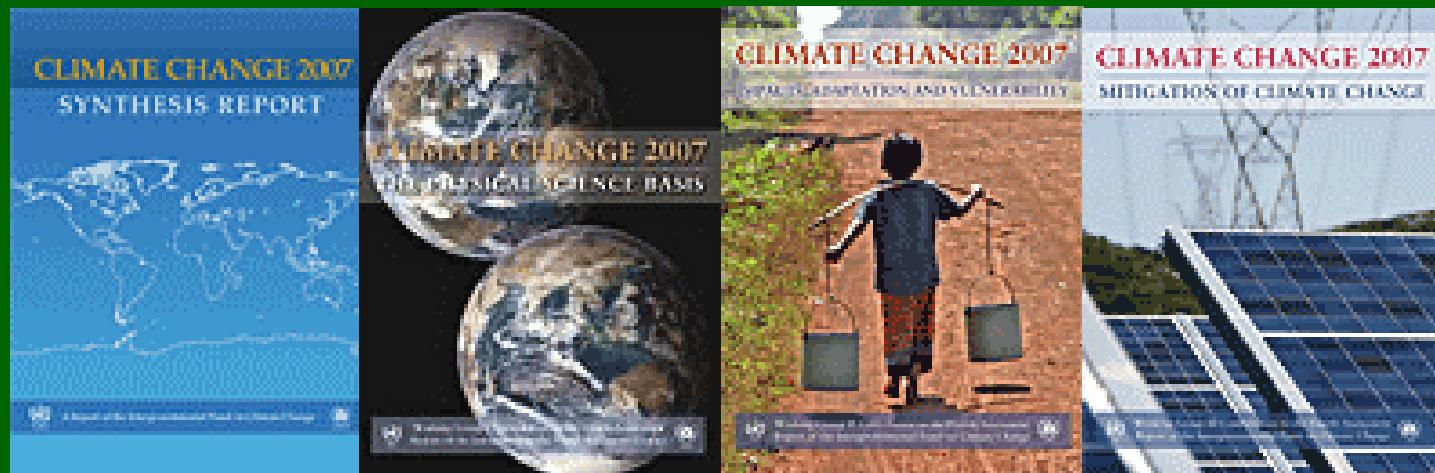
The CO₂ concentration rises fast.



Source : Shackleton, The New Scientist, 2000.

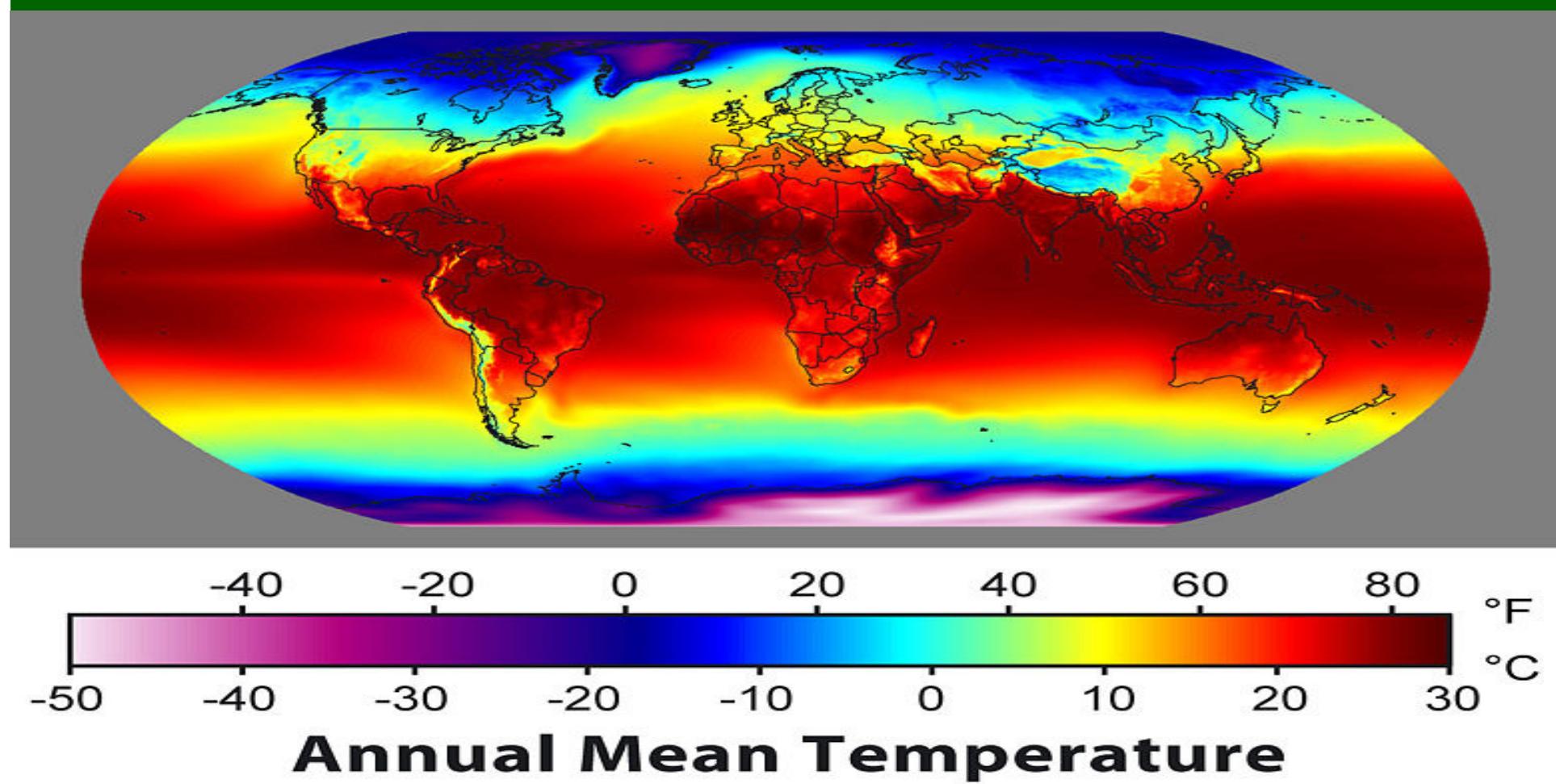
IPCC's Reports

(The Intergovernmental Panel on Climate Change)



The CO₂ concentration

- Determine future global temperature
- Impact on climate change and ecology



The image is a composite of three distinct scenes. On the left, the ancient Incan city of Machu Picchu is visible, built into the side of a mountain. In the center, a modern city skyline with numerous skyscrapers is shown, representing urban civilization. On the right, there are large, green, terraced agricultural fields, symbolizing rural or traditional life. The overall composition suggests a comparison between different ways of life and their impact on the environment.

The rise of CO₂ concentration forces
humankind to reexamine the
direction and content of civilization.

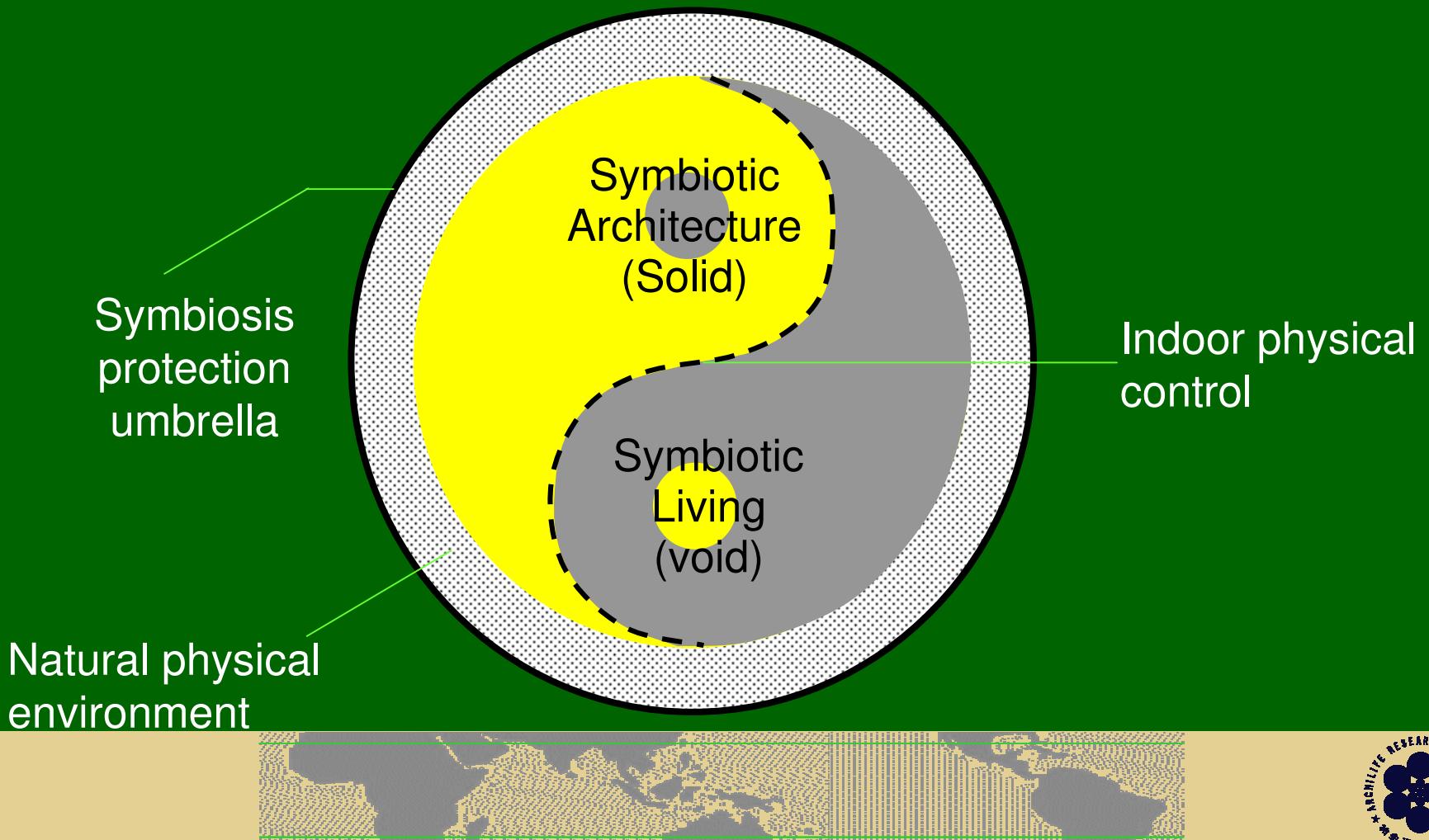


Taiwan is also aware of
the severity of this problem.

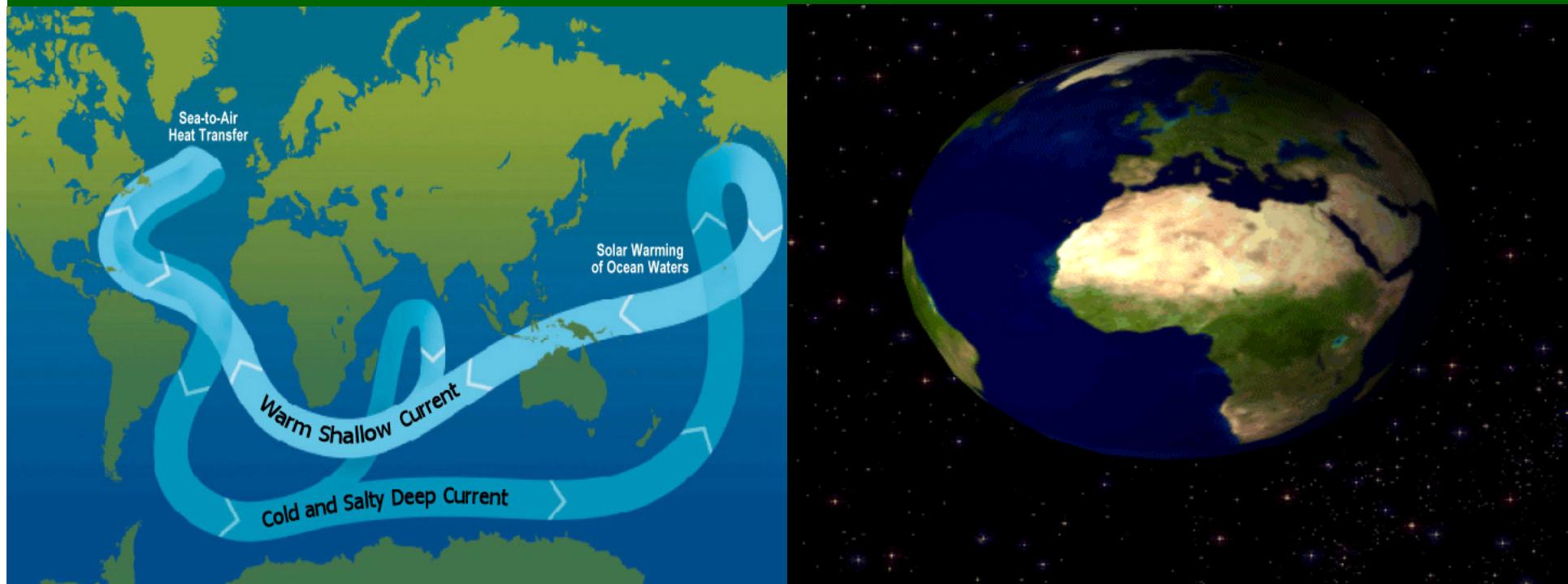


Taiwan

The characteristic of the East

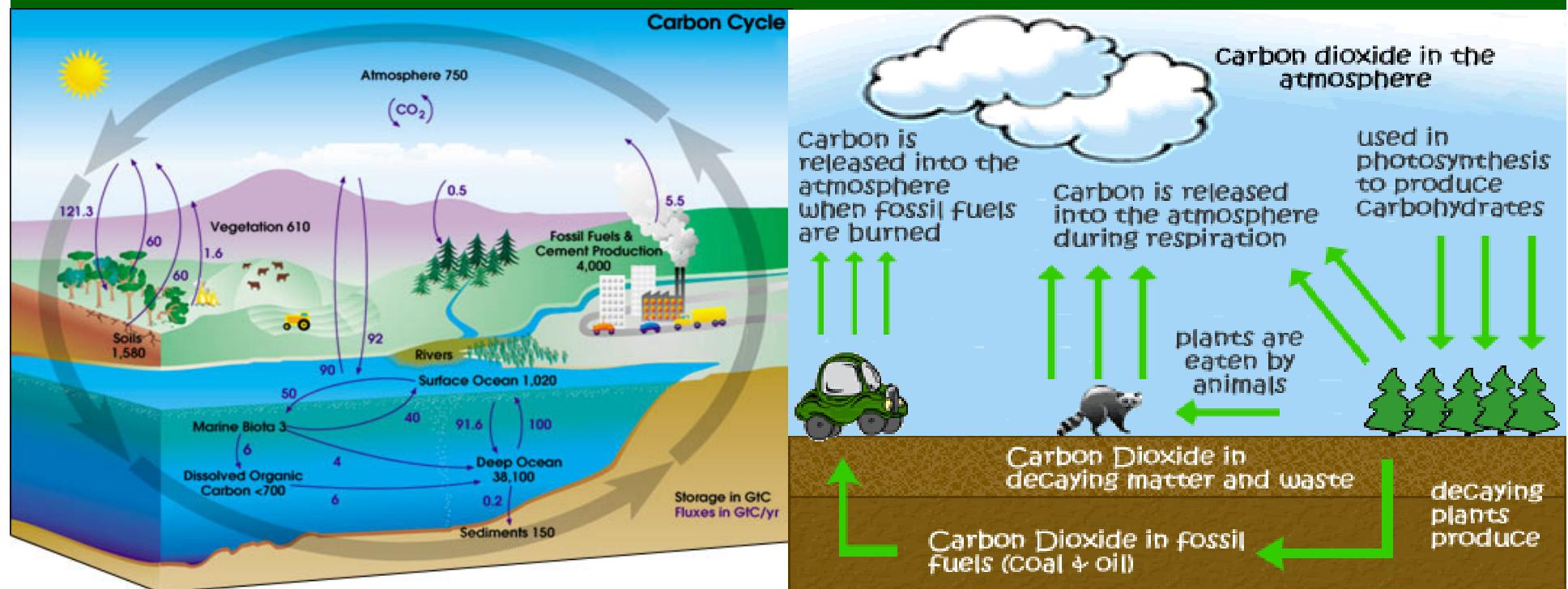


IPCC's reports overlooked the relationship between
climate change and
the evolution of the Earth.



IPCC's inference model

- Overstress the proportion of artificial emission of CO₂
- Underestimate the role played by natural evolution



**Conduct a detailed analysis and obtain
a succinct model of climate change**



**Conduct a detailed analysis and obtain
a succinct model of climate change**

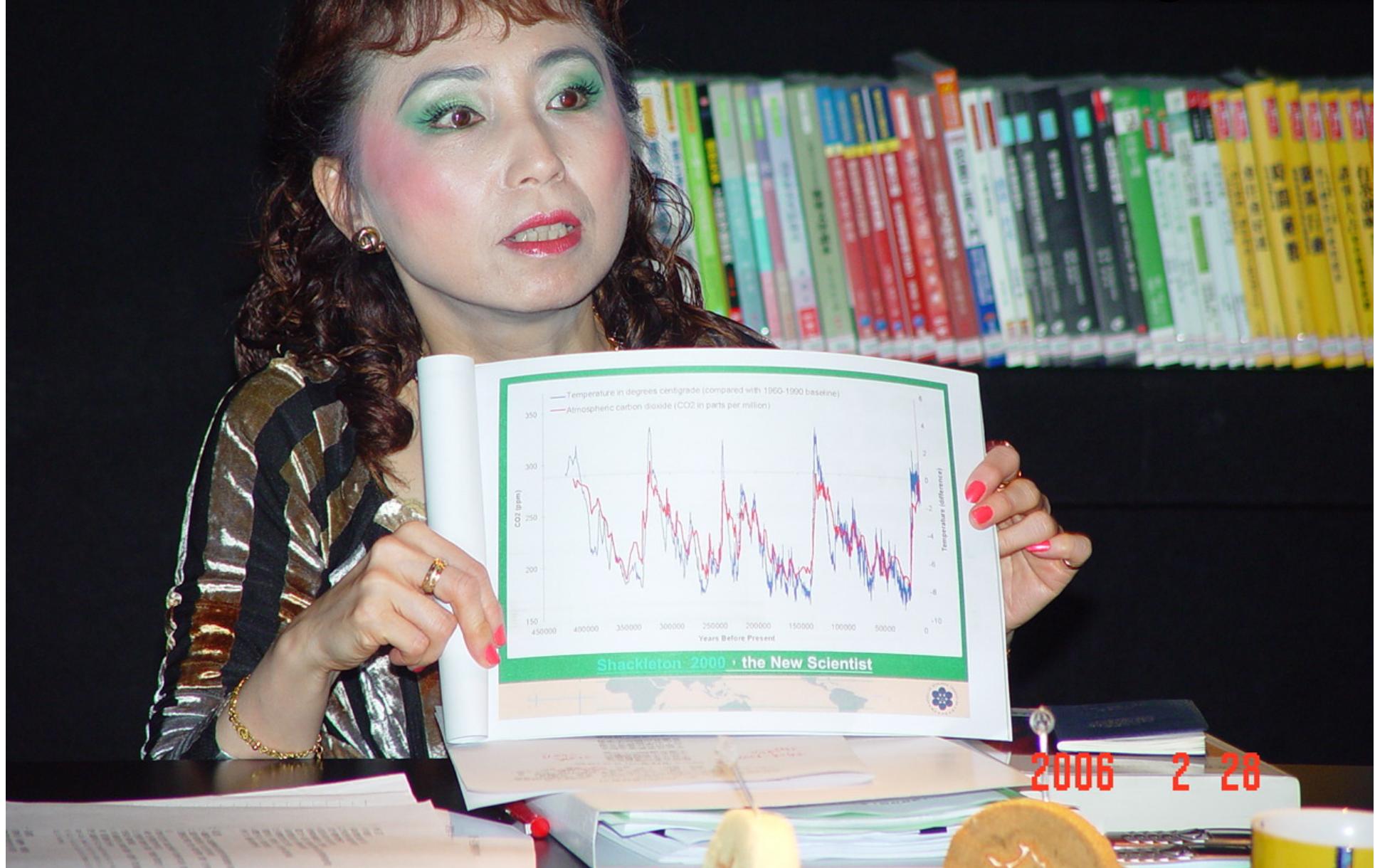


2005 8 13

**Conduct a detailed analysis and obtain
a succinct model of climate change**

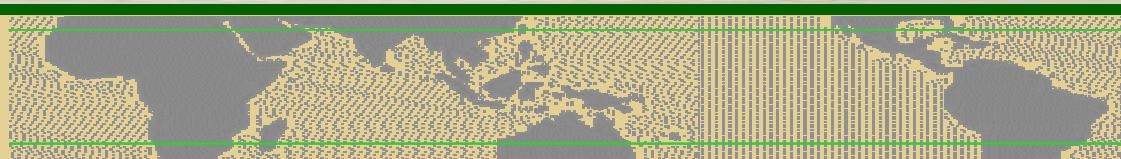
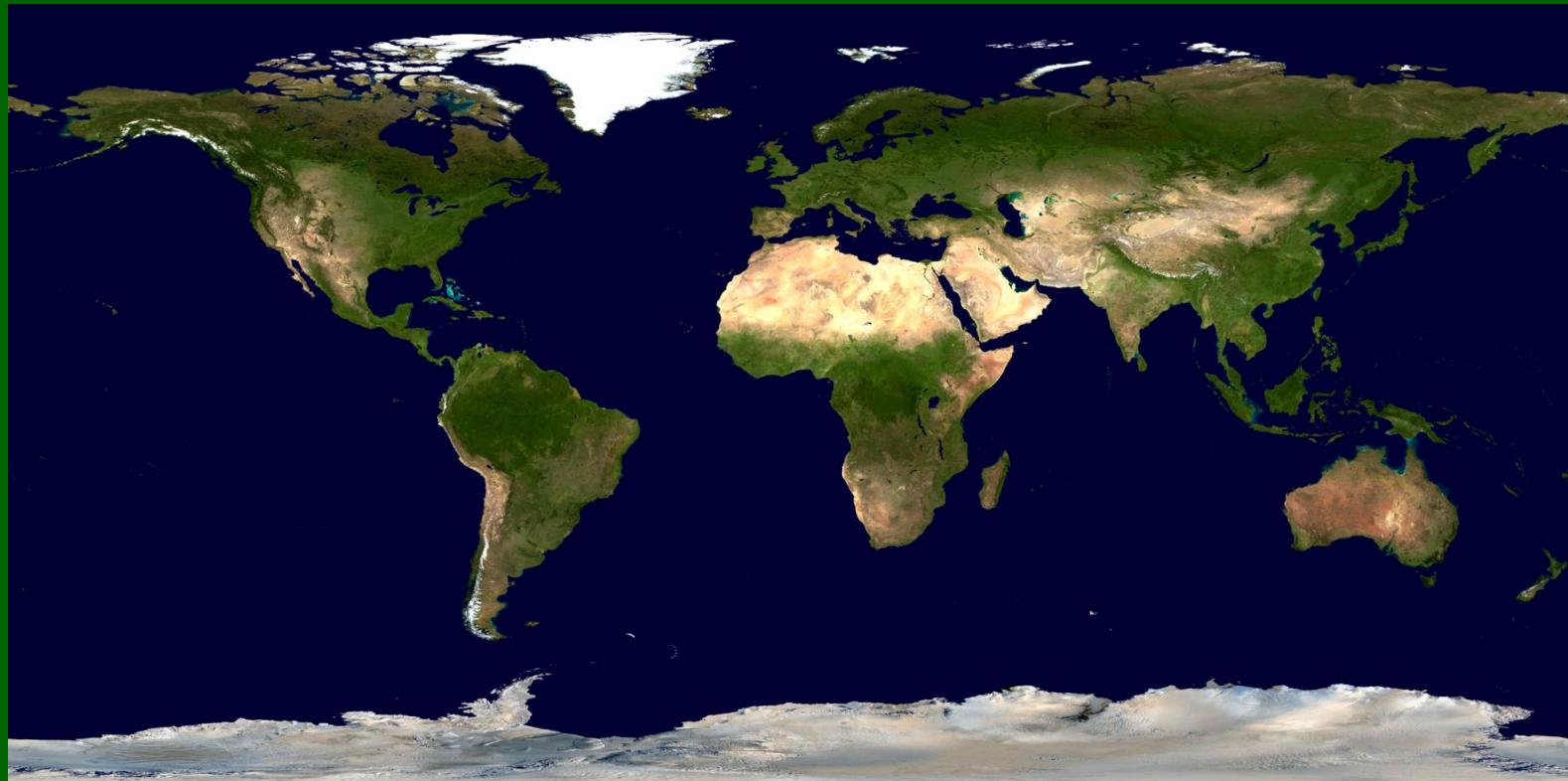


**Conduct a detailed analysis and obtain
a succinct model of climate change**

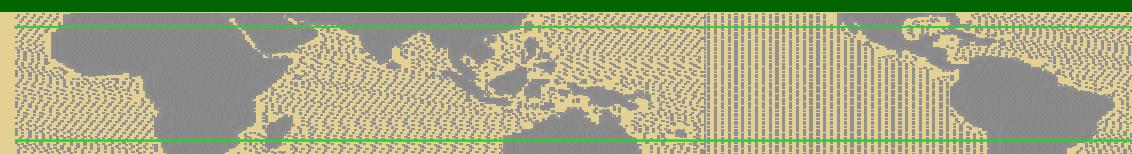
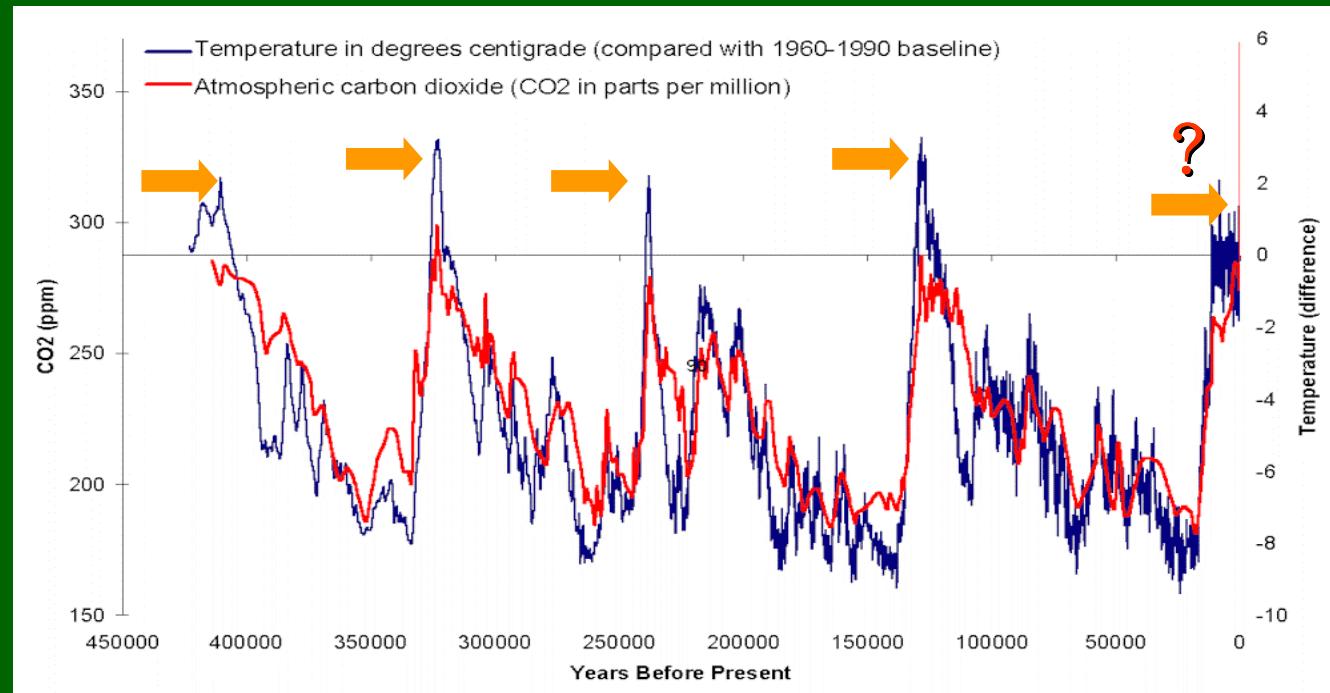


2006 2 28

With CO₂ concentration increases,
the return of desertification areas will be expanded,
and **the areas will have more frequent disasters.**



When the climate exceeds extreme value,
**the safety factor of the industrial products will
be insufficient.**





Climatic eruption phenomenon

The enlargement of desert



If the desertification is getting worse,
the arable land would be reduced
and
food will be lacked immediately.



Biomass energy exclude arable lands and make food supply much shorter.



People
who are threatened by desertification

Their subsistence will have serious destruction.





Symbiotic civilization

Reduce human interference with Nature





Symbiotic civilization

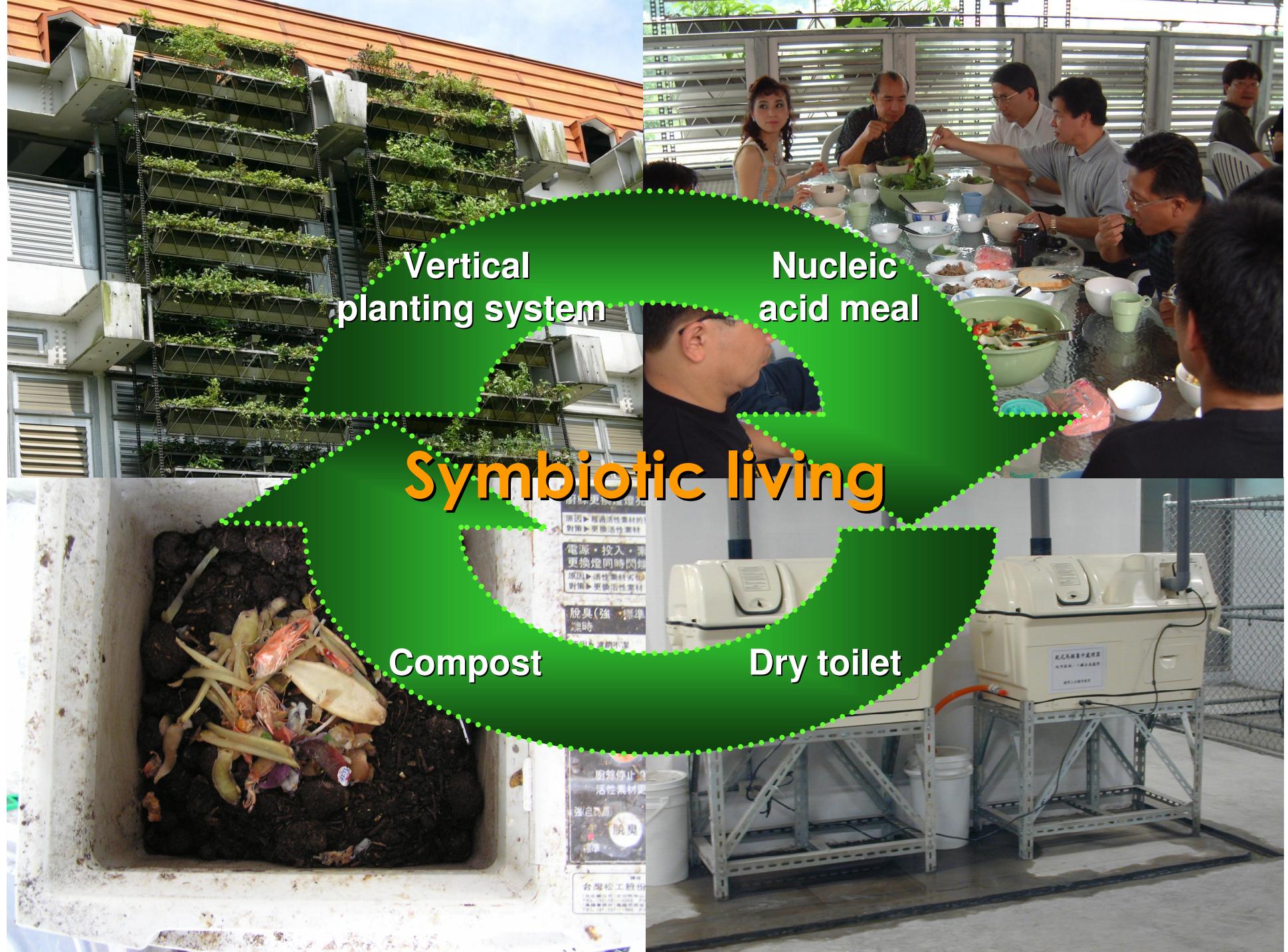
Slow down the climatic eruption

GREEN PARADISE
www.archilife.org

An aerial photograph of a desert landscape. In the foreground, there are several small, rounded green oases or clusters of vegetation. Interspersed among them are numerous pink flowers, likely desert wildflowers. The background shows the vast, arid desert terrain extending to the horizon under a clear sky.

Symbiotic civilization

Reduce the probability of desertification





Vertical planting system



Dry toilet

High-efficient recycling system

Release the burden of the environment



High-efficient recycling system

Cool down the temperature of building

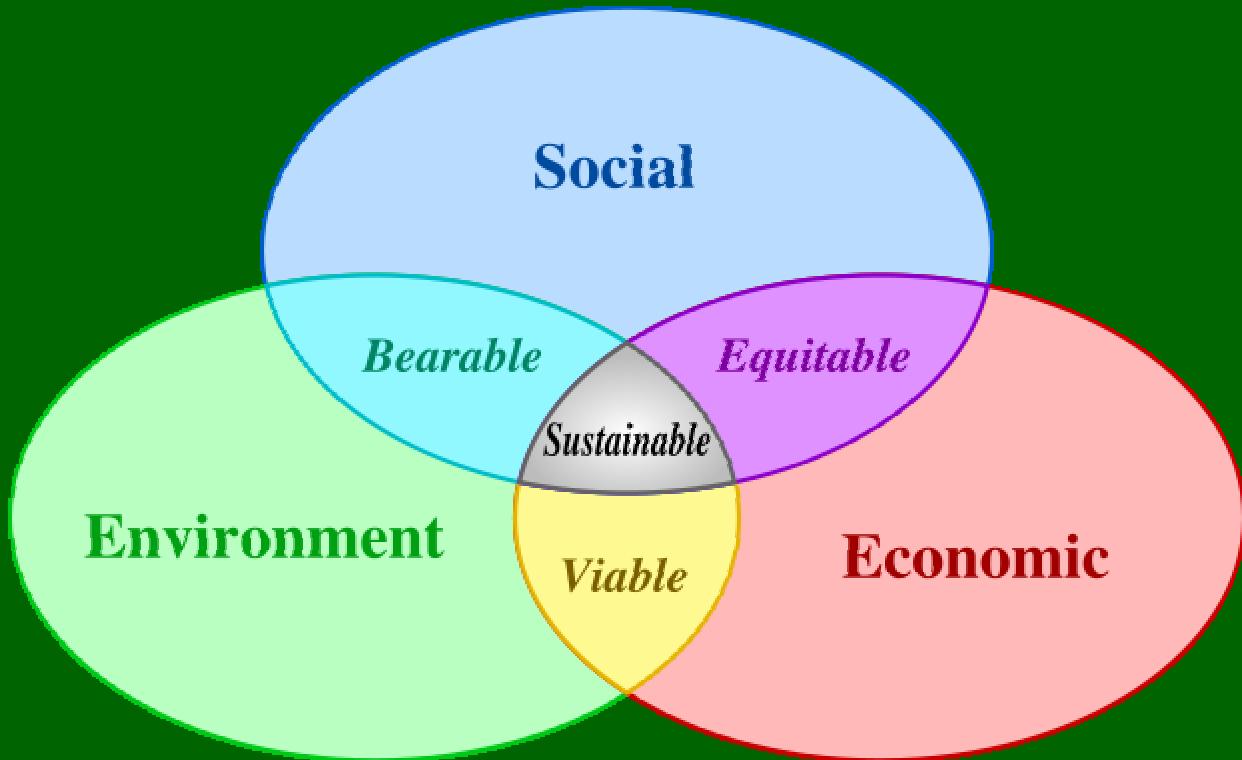


High-efficient recycling system

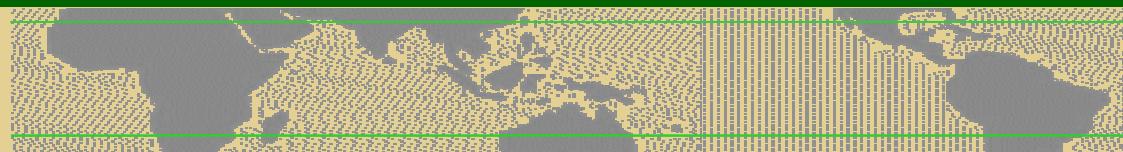
Eliminate the drawbacks of urban civilization



High-efficient recycling system



Make sustainable development come true





Vertical planting system

Daylight working model



Green energy



風力發電機

風力發電機

風力發電機

Vertical planting system



Nucleic acid meal



Four Components

To create a self-sufficient lifestyle

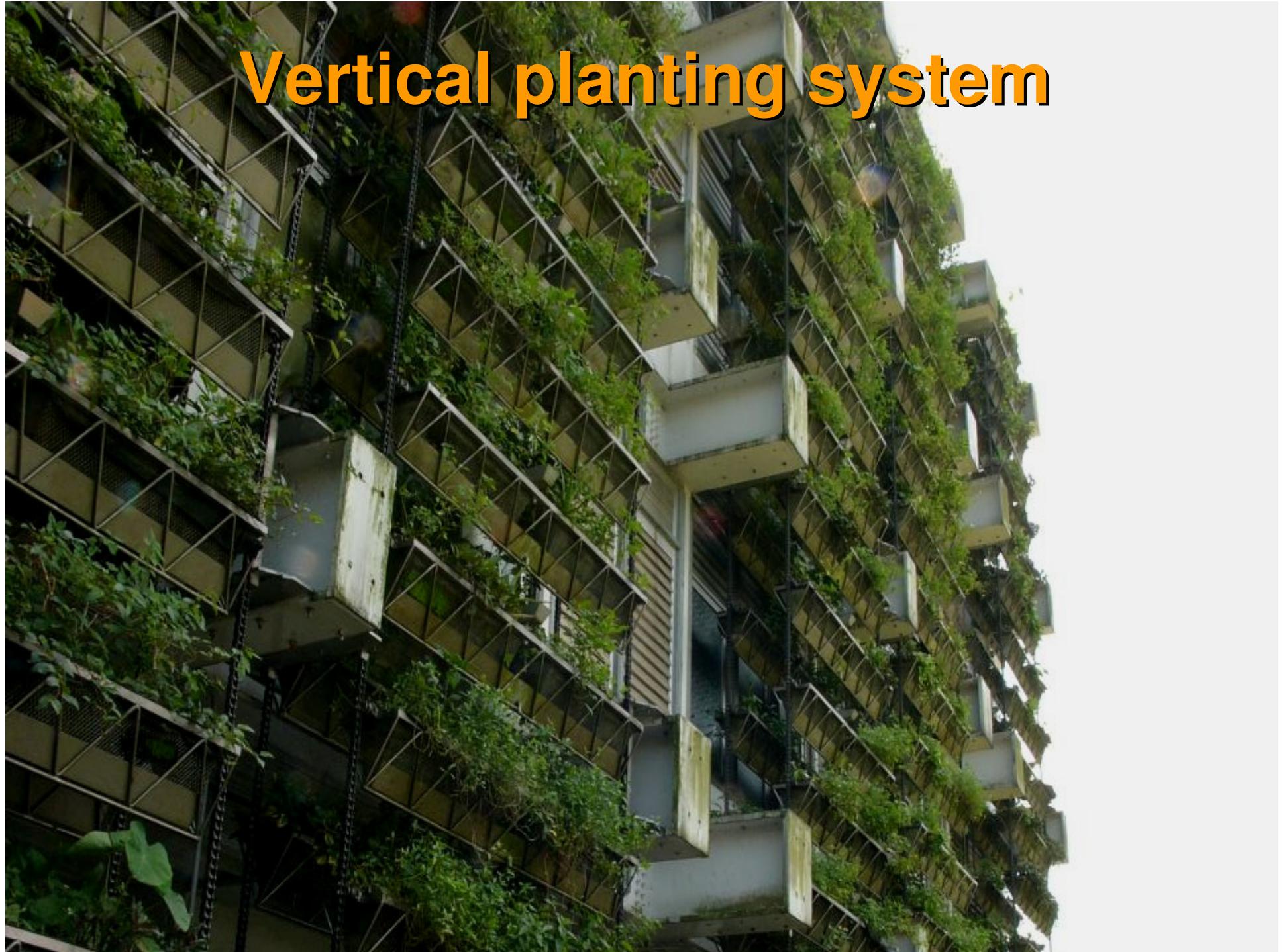


Compost



Cleaning

Vertical planting system



Vertical planting system



Wild edible plants





Vertical planting system + Wild edible plants

- Cool down the environment
- Provide a reliable vegetable source

Nucleic acid meal

- Vegetables + some proteins
- A kind of healthy diets



Waste and wastewater

- Dry toilet
- Wastewater treatment system



Compost function

2-step compost or sterilization



Wastewater

Feedback to the vertical planting system





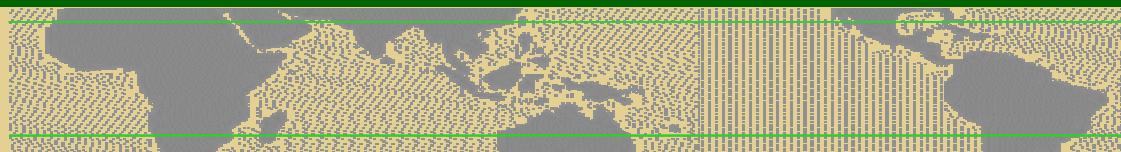
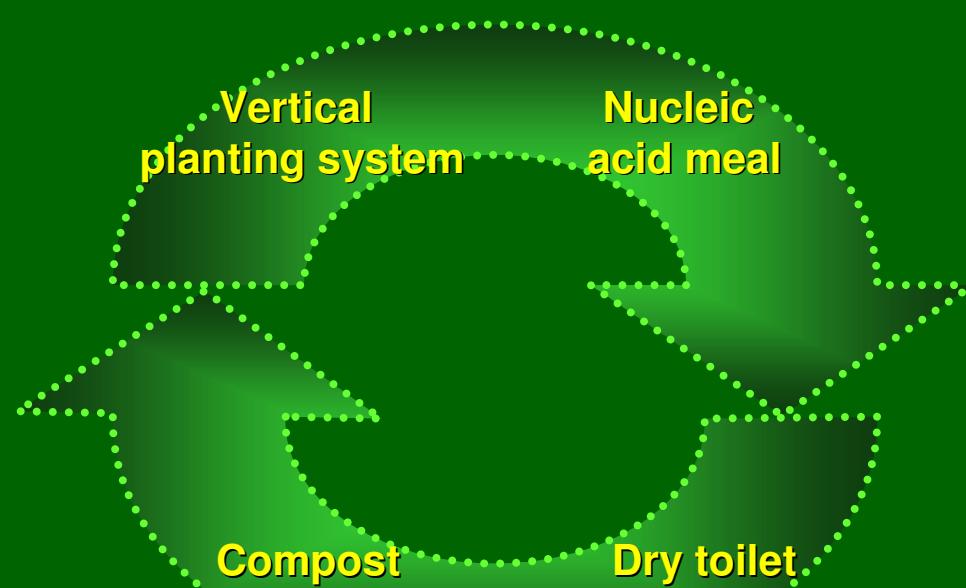
“WILD-TECH”

The new operational technique

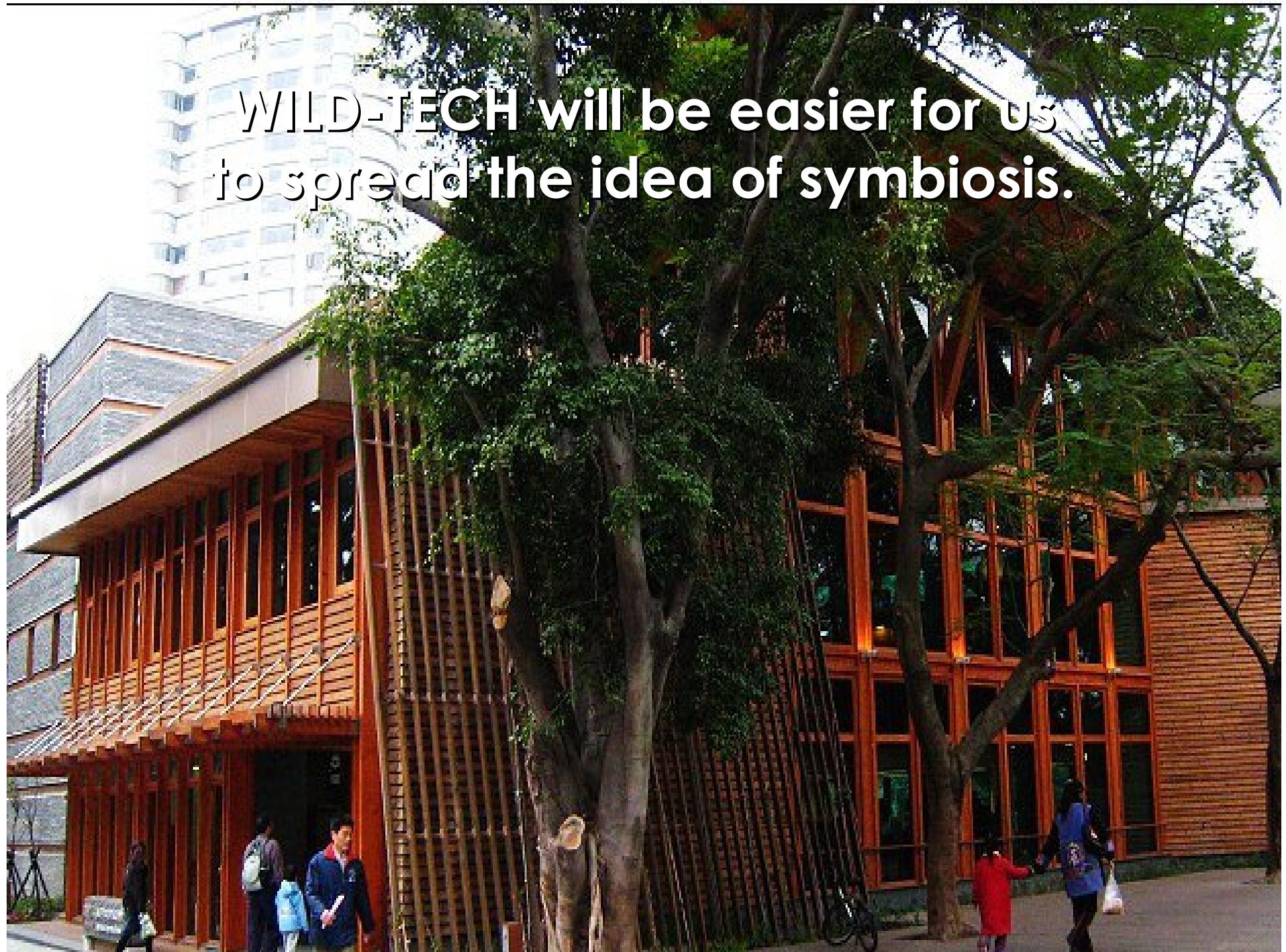


WILD-TECH

Accommodate more micro-scaled or multiple recycling systems



**WILD-TECH will be easier for us
to spread the idea of symbiosis.**



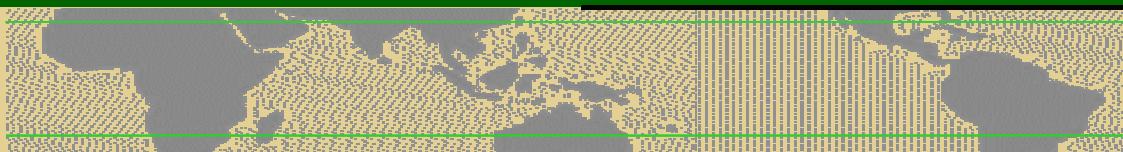
An aerial photograph of a city, likely a developing one, showing a mix of residential buildings, green spaces, and a prominent industrial zone in the background. A large, dark, curved shape, resembling a hand or a stylized letter 'W', is overlaid on the lower portion of the image, pointing towards the industrial area.

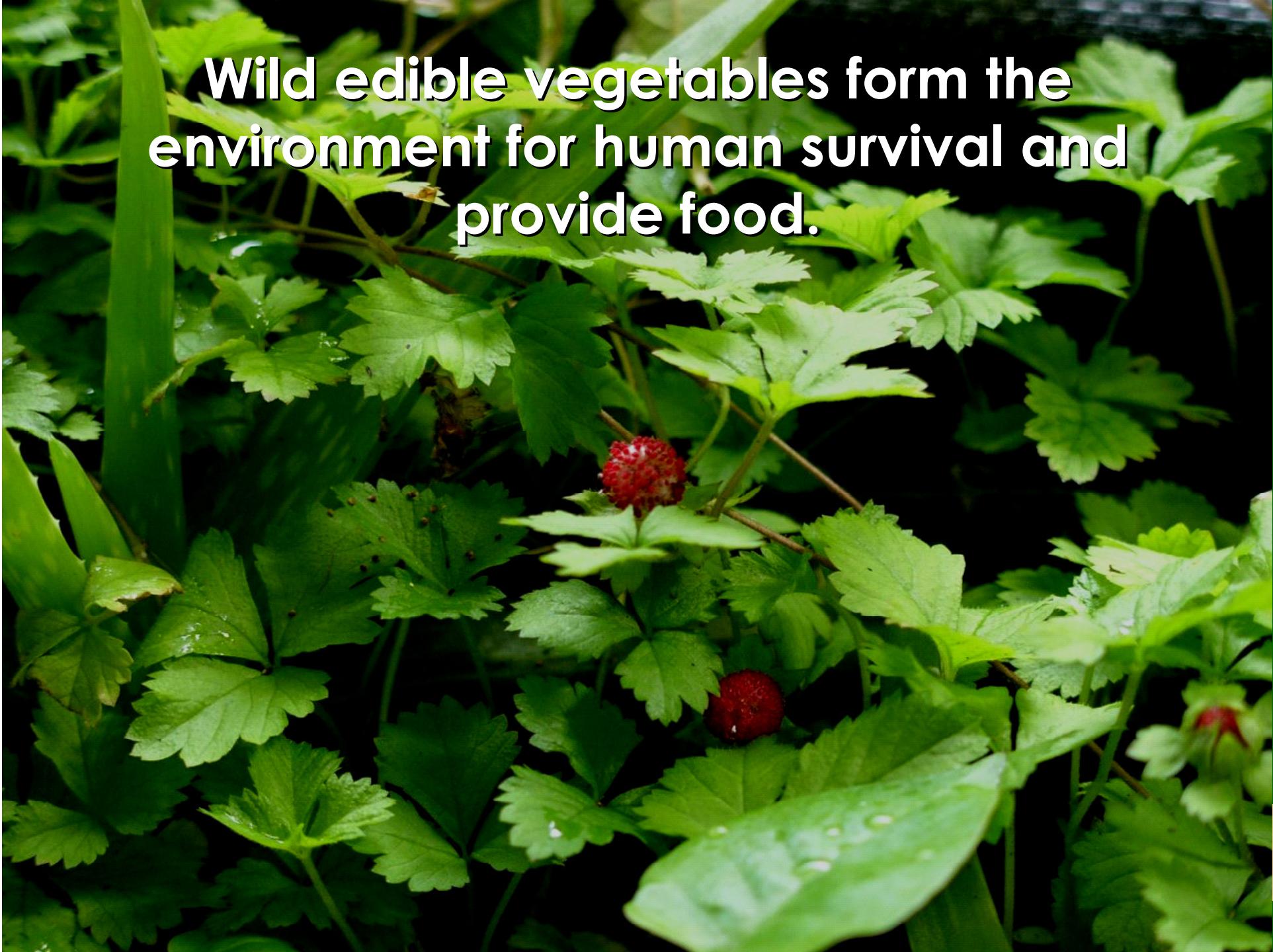
**WILD-TECH can build
recycling society in order to reduce the
workload of environment.**

Human

The center of this recycling system

**Human and wild
edible vegetables
together form the
symbiotic recycle.**





Wild edible vegetables form the environment for human survival and provide food.

Wild edible vegetables have already formed the mimicry in nature with soil, microorganisms and insects.





We need

- Understand the position of wild edible vegetables
 - Use their mechanism of symbiosis

Use artificial treatment to expand the survival quality and quantity of wild edible vegetables





We need to protect the nature and the environment as the foundation for sustainable use.

Select the required wild edible vegetables
and species to achieve sustainability



21/07 > 4/08

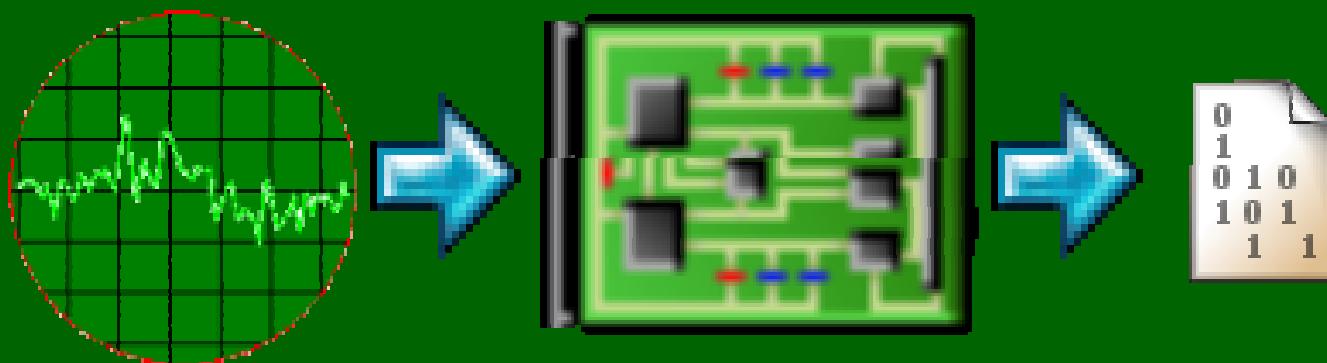
04 42 23 41 24
www.danse-a-aix.com

Trade

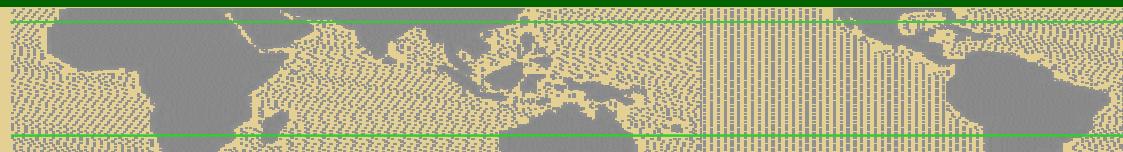
- Improve our living quality
- Enrich our living experiences



Digitalization



- Reduce the dependence on urban markets
 - Enhance networking
 - Transmit the information of symbiosis



Digital life

- Encourage the development of WILD-TECH
- Diversify online transactions



Cyberspace

The world of Internet

Replace traditional markets

Yahoo!奇摩拍賣3C館 數位相機 拍賣,包含:電腦,手機,PDA,LCD,MP3,數位相機,歡迎參觀！ - Microsoft Internet Explorer

1 FAST DELL PC P4 2.8 GHZ WIN XP-2 PRO DESKTOP COMPUTER - eBay (item 280259841326 end time Aug- - Microsoft Internet Explorer

Yahoo!奇摩拍賣3C館 數位相... 新增分頁

YAHOO!奇摩拍賣 會員登入 新使用者？立即註冊

最熱門商品

夏季筆電採購指南

1 FAST DELL PC P4 2.8 GHZ WIN XP-2 PRO DESKTOP COMPUTER

Buy It Now price: US \$419.99 Buy It Now >

Get 15% back - new eBay MasterCard Apply

End time: 4 mins 26 secs (Aug-27-08 21:00:00 PDT)

Shipping costs: Free UPS Ground Service to United States

Ships to: United States

Item location: Grand Prairie, Texas, United States

Quantity: 9 available

History: Purchases

Meet the seller

Seller: 199computerstore (3829) Power Seller

Feedback: 99.6 % Positive

Member: since Jul-26-02 in United States

- See detailed feedback
- Ask seller a question
- Add to Favorite Sellers
- View seller's other items: Store | List
- Visit seller's Store: 199 Computer Store

Buy safely

- Check the seller's reputation

Score: 3829 | 99.6% Positive
See detailed feedback

Cyberspace

The world of Internet

- Reshape urban civilization
- Lead to new civilization



Symbiosphere I Center



Digitalization



Symbiosis

Symbiosphere I Center

This year (2008) we began to pay more attentions to digitalization.



Digitalization + Symbiosis

- Investigate the new civilization
- Induce the future habitable construction



Digitalization + Symbiosis

- Hope for some concrete results before SB11



Energy crisis and Climate change



Revolutionary changes

Green Building

+

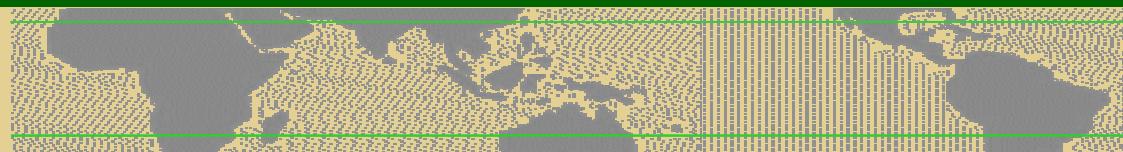
Symbiosis

=

Sustainable Building



Are you interested?



Archilife Research Foundation

September 24, 2005



2005 9 26
SB05 Tokyo





Thank's for your attention.

