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COP 22/CMP 12

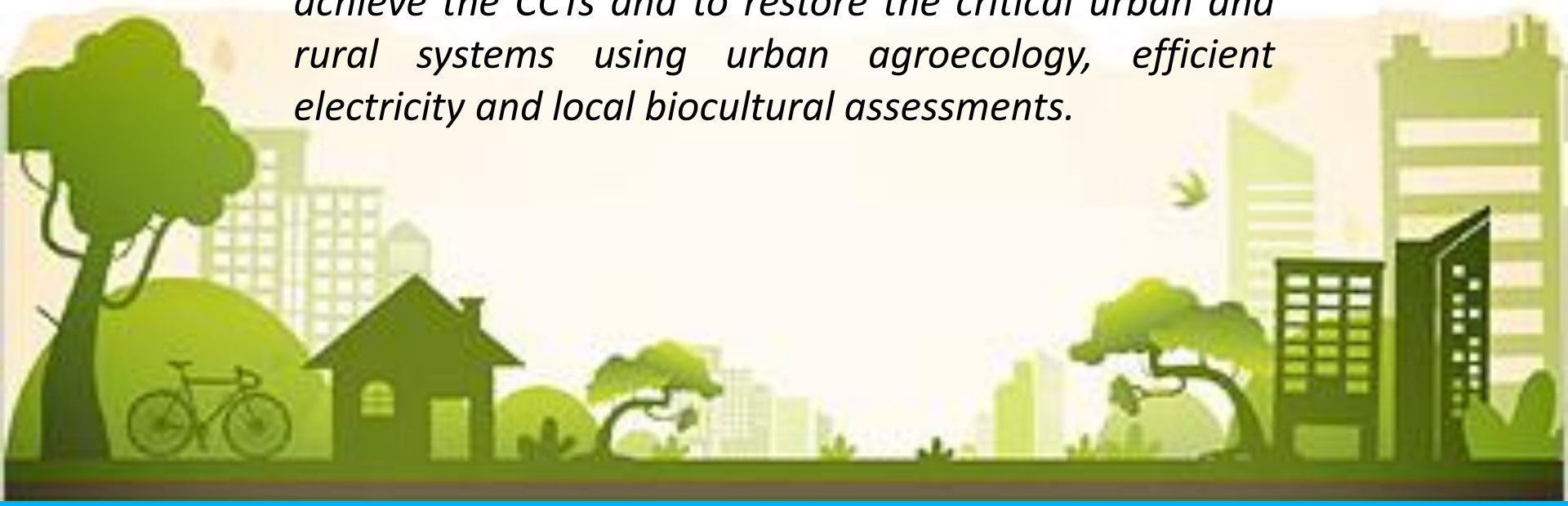
UN Framework Convention on Climate Change UNFCCC

FUTURE CITIES FOR CLIMATE CHANGE TARGETS (CCTs), AGROECOLOGY AND LOCAL BIOCULTURAL ASSESSMENTS

Massimo Pieri

Marrakesh, UNFCCC Headquarter, November 11, 16:45 – 18:15, Room Bering

Increasing Urban and Rural Areas Resilience and Sustainability. Providing solution to technical, environmental and social feasibility. A strategy to achieve the CCTs and to restore the critical urban and rural systems using urban agroecology, efficient electricity and local biocultural assessments.



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Economy vs. Society vs. Environment

70% of the world's population will be living in cities.

It is clear that the current model of development cannot resolve neither the environmental problems nor economic ones.

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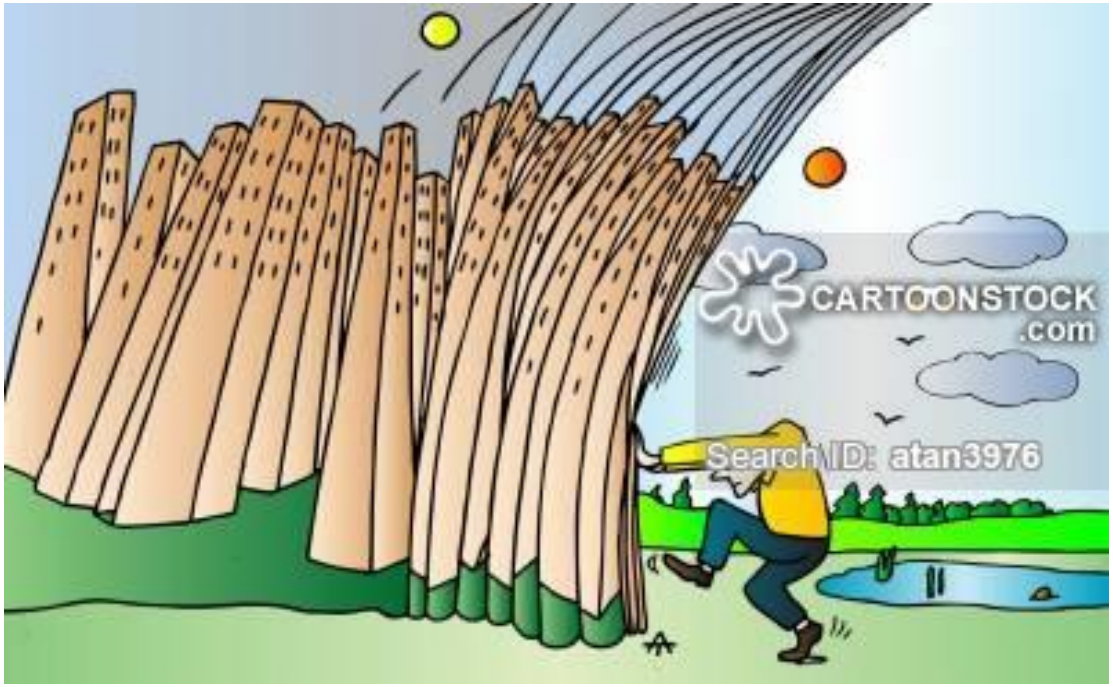
Economy vs. Society vs. Environment



Urban Expansion

Urban Tsunami

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Project Electrical City

The Beijing map

A spider web

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Project Electrical City

New York

Urban Ecology Plans
Agro-ecological Parks
Renewable City

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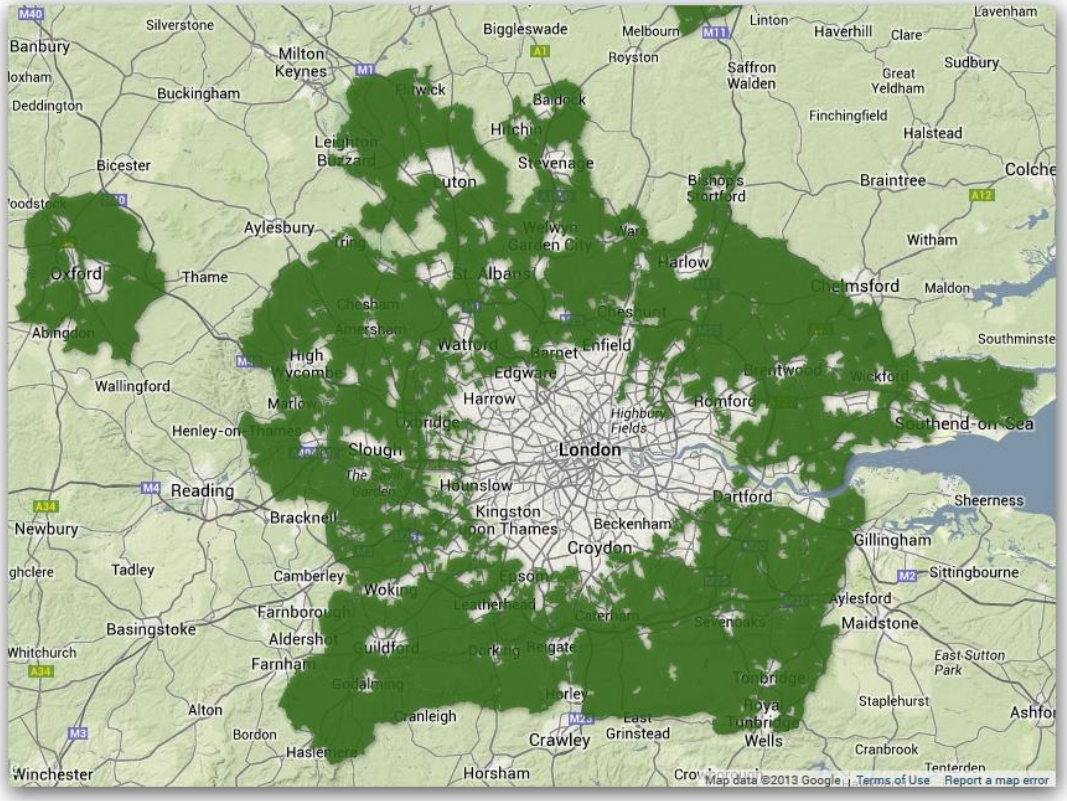

The green belt, London.

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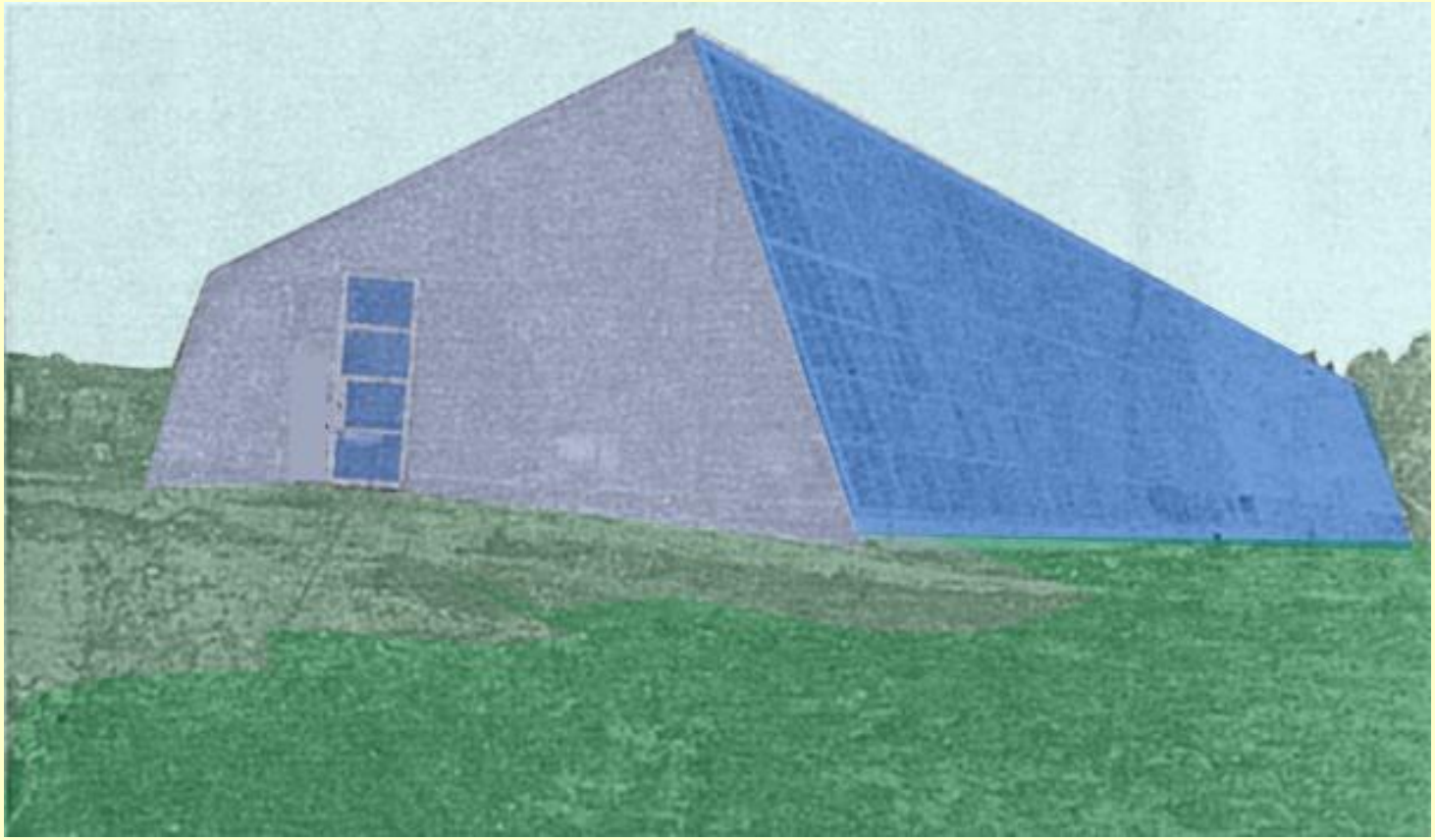
Bioclimatic Asymmetrical Buildings and Cities



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Bioclimatic Asymmetrical Buildings and Cities

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Project The Factory of Baobab

Taking care of one's Health With Food in Africa

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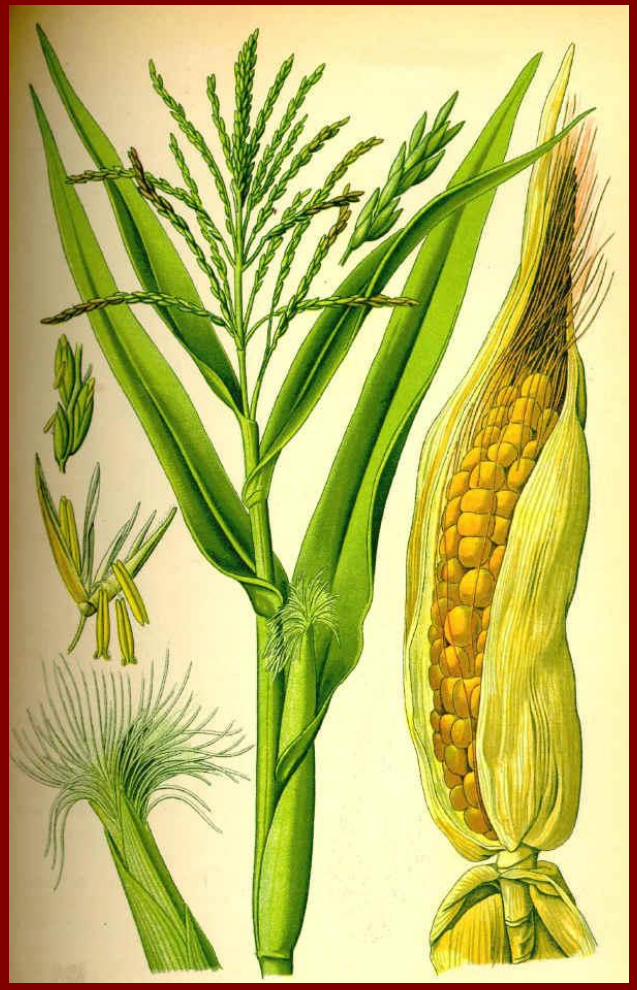
Project The Factory of Maiz

Taking care of one's Health With Food in America



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DISCUSSION ON ELECTRICAL URBAN AREAS. PRINCIPLES, GUIDELINES, INDICATOR TO COMBAT CC.

PRINCIPLES

- Designing human settlements mimicking natural ecosystems;
- Designing the city as a whole, as a complex system;
- Progressive elimination of combustion from the city;
- Defining an interdependence between economy and ecology;
- Defining a strategy to increase biological and cultural diversity;
- Defining a strategy to reduce city-system entropy.
- …

GUIDELINES

- Providing technical, environmental, financial and social feasibility
- Designing cities using Biomimetics ;
- Designing and using high efficiency electricity production and distribution;
- Permanence and wastes treatment should not take place inside the city;
- Designing asymmetric , bioclimatic and adaptive structure of cities and buildings;
- Creating agro-ecological and eco-productive parks;
- Designing accessible city;
- Using circular bioeconomy;
-- …

DISCUSSION ON ELECTRICAL URBAN AREAS. PRINCIPLES, GUIDELINES, INDICATOR TO COMBAT CC.

ACTIONS

- All transportation of goods and persons should be slow and electric;
- The heating, cooling and cooking must be electric or from cogeneration;
- Defining plans of interventions on energy, water and sanitation for urban poor;
- Biodiversity and agriculture should be increasing inside the city;
- Producing nutritious and medicinal food;
- Accessibility should be improved in the city;
-- …

INDICATORS

- Indicators of entropy;
- Indicators of efficiency;
- Indicators of quality;
- Indicators of wellbeing and happiness;
- Indicators for early warning systems of drought, floods, earthquakes, pollution and natural disasters:
- Study of electromagnetic radiation and ionizing radiation in the city;

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