

# Global Sustainability; What is the Plan for Science Centre Action?

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# Science to Solve Global Challenges

## Climate Change/Global Change

Adaptation to increased hazard,  
innovation, focus on natural  
disasters

Rapid urbanization  
and population growth

Poverty

Sustainable Infrastructure

Access to infrastructure, services,  
rights, and technologies

Sustainability

Innovation

Technology

# Science Centres to Bring Sustainability and Awareness



- Energy Efficiency
- Reduction in usage of high quality drinking water
- Selection of materials based on environmental performance
- Contribute to sustainable urban environment
- Contribute in reducing world hunger and poverty alleviation
- Contribute to the improvement of quality of life
- Contributing to healthy and safe working environment
- Contribute in preparations for disasters (Human and Natural)

*Innovation - clean technologies for sustainable development; robotics, nano-engineering, life-cycle analysis*







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# Sustainability Sites in and Around Cities





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# UNESCO Sites

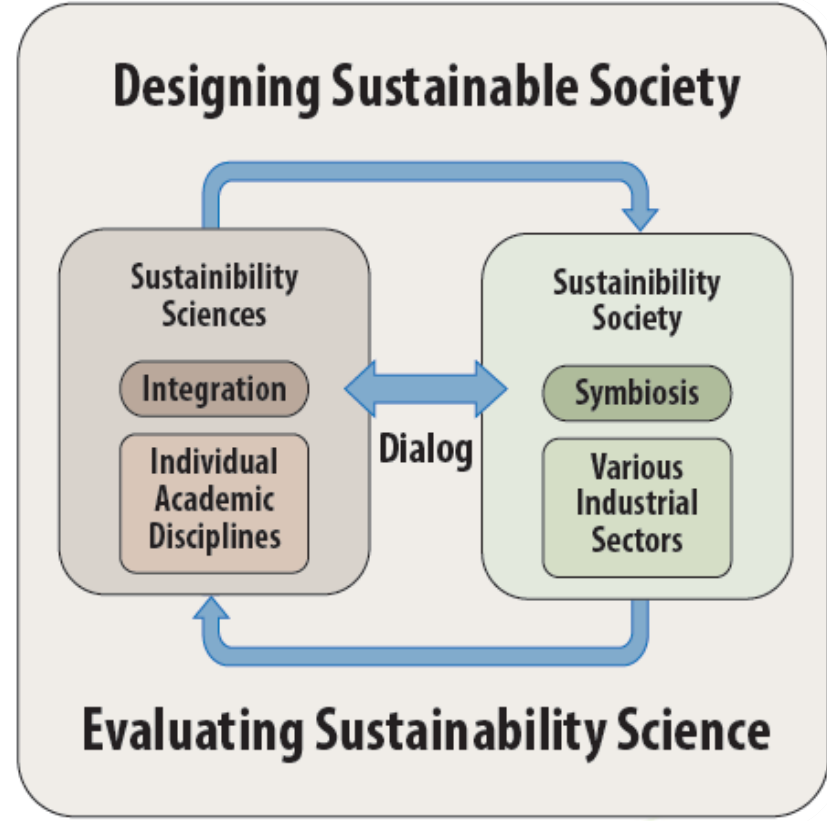
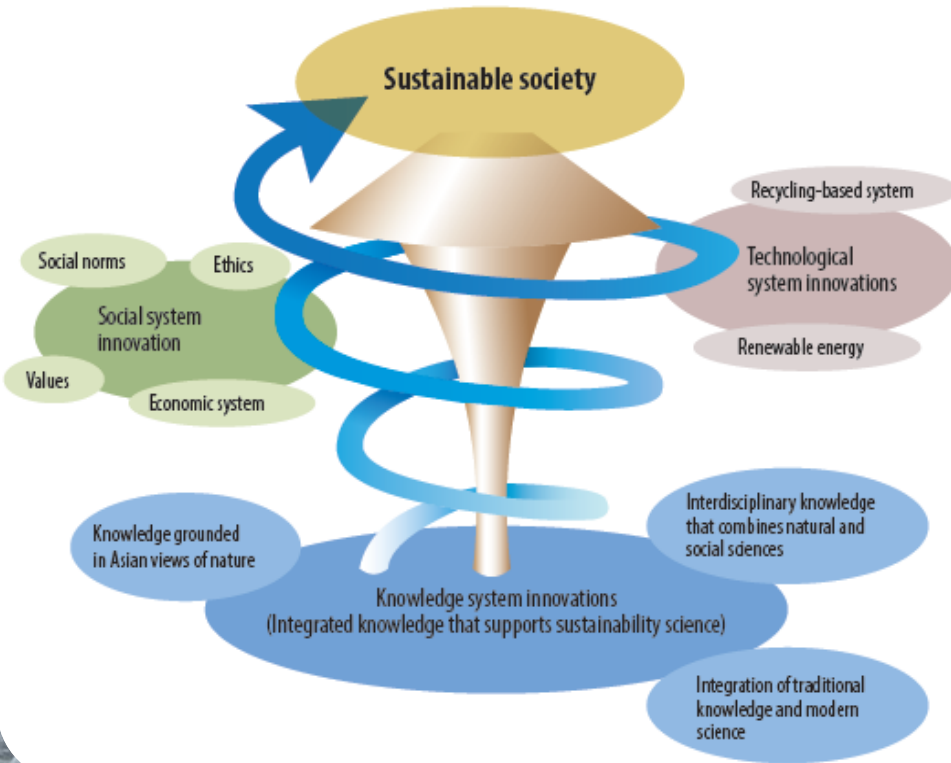
## UNESCO Programs (after Dowling, 2016)

Program	Sites	Countries
 World Heritage	1052	165
 Man and the Biosphere	669	120
 UNESCO Global Geoparks	120	33



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# Sustainability Science Approach







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# Supporting the Development of Science Parks & Technology Business Incubator

## Pilot Projects

### Project 1.

**Arab States** : Mubarak (Alexandria), Egypt  
Mubarak City for Science and Technology

### Project 2.

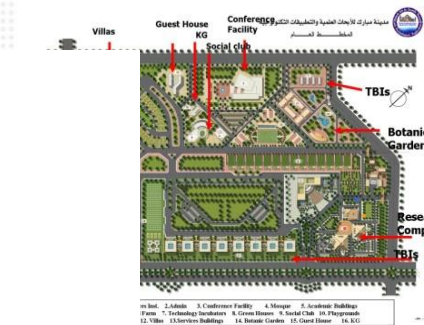
**Africa** : Nairobi, Kenya  
Science and Technology Park of Nairobi University

### Project 3.

**Asia-Pacific** : Jakarta, Indonesia  
Indonesia Science and technology Park

### Project 4.

**LAC** : Bogota, Colombia  
Techno-Ecological Park of USME – TEPU





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# Promote SC Partnerships for Inclusive Cities







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# 180 Cities in 72 Countries

## UNESCO Creative Cities Network

- Literature
- Film
- Music
- Crafts & Folk Art
- Design
- Media Arts
- Gastronomy



Bring Culture and Science Together  
**New Vision for Old Cities**



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# UNIVERSAL DECLARATION OF HUMAN RIGHTS



# WORLD SCIENCE FORUM 2017 SCIENCE FOR PEACE

## DECLARATION OF THE EIGHTH 'SCIENCE FOR PEACE' WORLD SCIENCE FORUM

THE EQUITABLE AND  
SUSTAINABLE MANAGEMENT  
OF NATURAL RESOURCES  
IS ESSENTIAL TO  
AVOIDING CONFLICTS  
AND PROMOTING PEACEFUL  
DEVELOPMENT

THE PRESERVATION OF  
SCIENTIFIC CAPACITIES,  
THREATENED BY GLOBAL  
MIGRATION TRENDS, IS THE KEY  
TO PEACE, SUSTAINABLE  
DEVELOPMENT, RESILIENCE AND  
RECOVERY

COMMITTING TO THE  
FULFILMENT OF THE  
UNIVERSAL RIGHT TO  
SCIENCE

DIVERSITY IS A KEY ENABLER OF  
EXCELLENCE IN SCIENCE,  
TECHNOLOGY AND  
INNOVATION AND IS ESSENTIAL  
TO OPTIMISE ITS RELEVANCE  
AND IMPACT

SUPPORTING THE LAUNCH  
OF A REGIONAL SCIENCE  
FORUM IN THE ARAB  
WORLD

