



# SCWS 2017

Connecting the World  
for a Sustainable Future

## Sustainability and Youth in Developing Countries

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Egypt

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# Introduction



# The New Library of Alexandria

A complex of lively institutions!





Much more than a library

- A library for 4-8 million books
- A center for Internet connectivity
- A conference center for thousands
- A Planetarium/ ALEXploratorium
- Permanent Museums
  - (Antiquities, sciences, Sadat and Manuscripts)
- 11 research and documentation Institutes

... and so much more...



**Over 1.4 Million visitors annually**

2 Million  
hits on our  
websites  
every day





# Planetarium Science Center



# ALEXploratorium



# Planetarium Shows Production



# Activities

- Science Festivity
- Public events
- Robotics
- Workshops
- Science Shows

... and much more



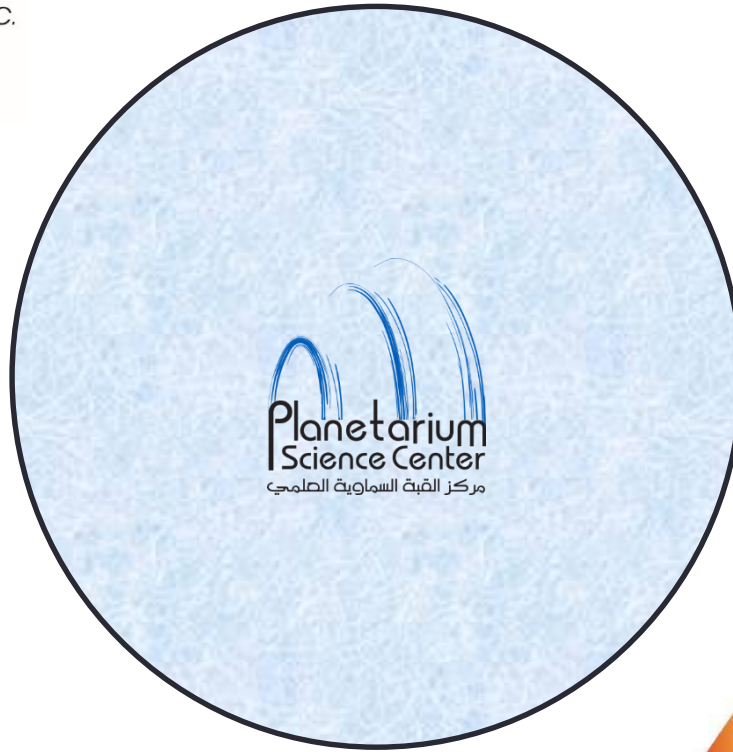
# History of Science Museum



**ecsite**  
EUROPEAN NETWORK  
SCIENCE CENTRES & MUSEUMS

INTERNATIONAL PLANETARIUM SOCIETY INC.  
**IPS**

**nAMES**  
رابطه المراكز العلميه لشمال افريقيا والشرق الاوسط  
North Africa and Middle East Science centers network



**ARA**  
الجمعية العربية للروبوت  
Arab Robotics Association

**Eusea**  
European  
science events  
association

الشبكة العربية للمرأة في العلوم و التكنولوجيا  
Arab Network for Women in Science & Technology

**ASTC**  
ASSOCIATION OF  
SCIENCE-TECHNOLOGY CENTERS

# Sustainability and the poor





# SUSTAINABLE DEVELOPMENT GOALS

**1** NO POVERTY

**2** ZERO HUNGER

**3** GOOD HEALTH AND WELL-BEING

**4** QUALITY EDUCATION

**5** GENDER EQUALITY

**6** CLEAN WATER AND SANITATION

**7** AFFORDABLE AND CLEAN ENERGY

**8** DECENT WORK AND ECONOMIC GROWTH

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE

**10** REDUCED INEQUALITIES

**11** SUSTAINABLE CITIES AND COMMUNITIES

**12** RESPONSIBLE CONSUMPTION AND PRODUCTION

**13** CLIMATE ACTION

**14** LIFE BELOW WATER

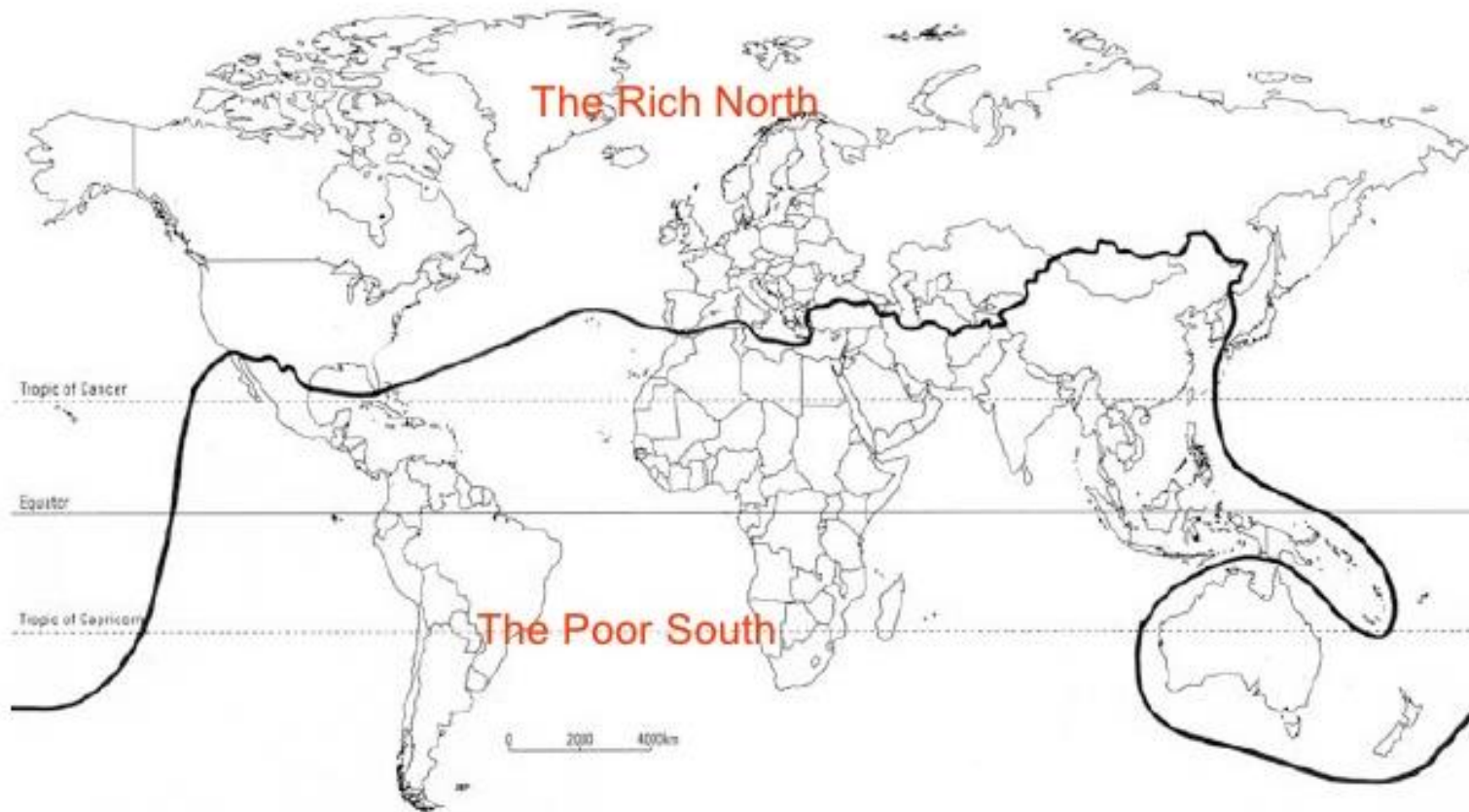
**15** LIFE ON LAND

**16** PEACE, JUSTICE AND STRONG INSTITUTIONS

**17** PARTNERSHIPS FOR THE GOALS

SUSTAINABLE DEVELOPMENT GOALS

# Brandt Line



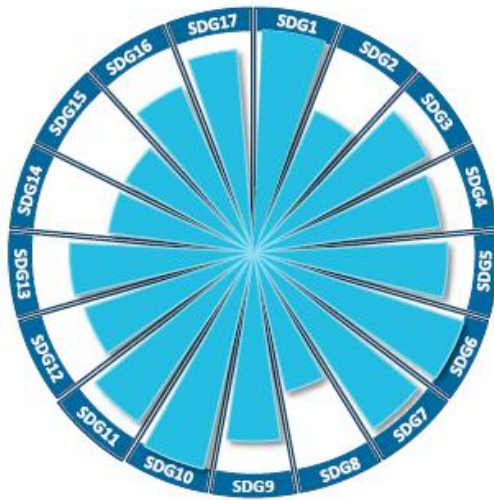
## Sweden

OVERALL SDG PERFORMANCE	Global rank	Score or value	Regional average
SDG Index	1 (of 149)	84.5 /100	75.3 /100

### Comparison with other development metrics

Human Development Index, 2014	14 (of 188)	0.91 /1	0.88 /1
Subjective Wellbeing, 2015	8 (of 149)	7.4 /10	6.6 /10
GDP per capita, PPP, 2015	12 (of 149)	US\$ 47319	US\$ 40671
Global Competitiveness Ind., 2016	9 (of 140)	5.43 /10	4.9 /10
Environmental Perf. Index, 2016	3 (of 180)	90.4 /100	84.4 /100

### AVERAGE PERFORMANCE BY SDG



### SDG DASHBOARD



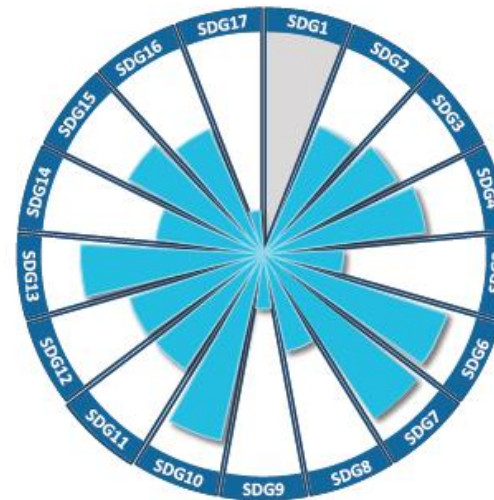
## Egypt, Arab Rep.

OVERALL SDG PERFORMANCE	Global rank	Score or value	Regional average
SDG Index	66 (of 149)	60.9 /100	56.9 /100

### Comparison with other development metrics

Human Development Index, 2014	108 (of 188)	0.69 /1	0.72 /1
Subjective Wellbeing, 2015	124 (of 149)	4.2 /10	5.4 /10
GDP per capita, PPP, 2015	81 (of 149)	US\$ 11262	US\$ 33313
Global Competitiveness Ind., 2016	116 (of 140)	3.7 /10	4.4 /10
Environmental Perf. Index, 2016	104 (of 180)	66.5 /100	65.6 /100

### AVERAGE PERFORMANCE BY SDG



### SDG DASHBOARD



# Major Problems

- Survival **needs** such as food, housing, education and health
- Dilapidation of **valuable** natural resources
- **Social** problems and low population living standards



# Introducing Sustainability practices to youth

- Involve youth as **partners**
- Present Role **Models**
- Natural Resources **Awareness**
- Sustainable **lifestyles** through education and dialogue
- Awareness-raising and **capacity-building**
- Importance of **monitoring** and measuring progress



# BA Projects

## Objectives

- Give a **human face** to environmental issues
- **Empower** youth to become active **agents** of sustainable development
- Promote an **understanding** to changing **attitudes** towards environmental issues
- Advocate partnerships to ensure prosperous future.



# Local Emphasis

- Addressing major **local** environmental challenges
- Focus on **MENA** region and Africa
- Natural resources and adverse **human** impact.
- Enhance the **public** understanding of the threats facing endangered species
- **Pollution** and waste



- **YESBU (Youth for Environmental Sustainability & Better Understanding)**
- Incubator for talented students in Egyptian schools, directed to students (13-18 years old) , and aims to raise environmental awareness among youth, encourage scientific thinking and youth engagement, and encourage team work.





- Science Demonstrations/Workshops

Natural  
Disasters



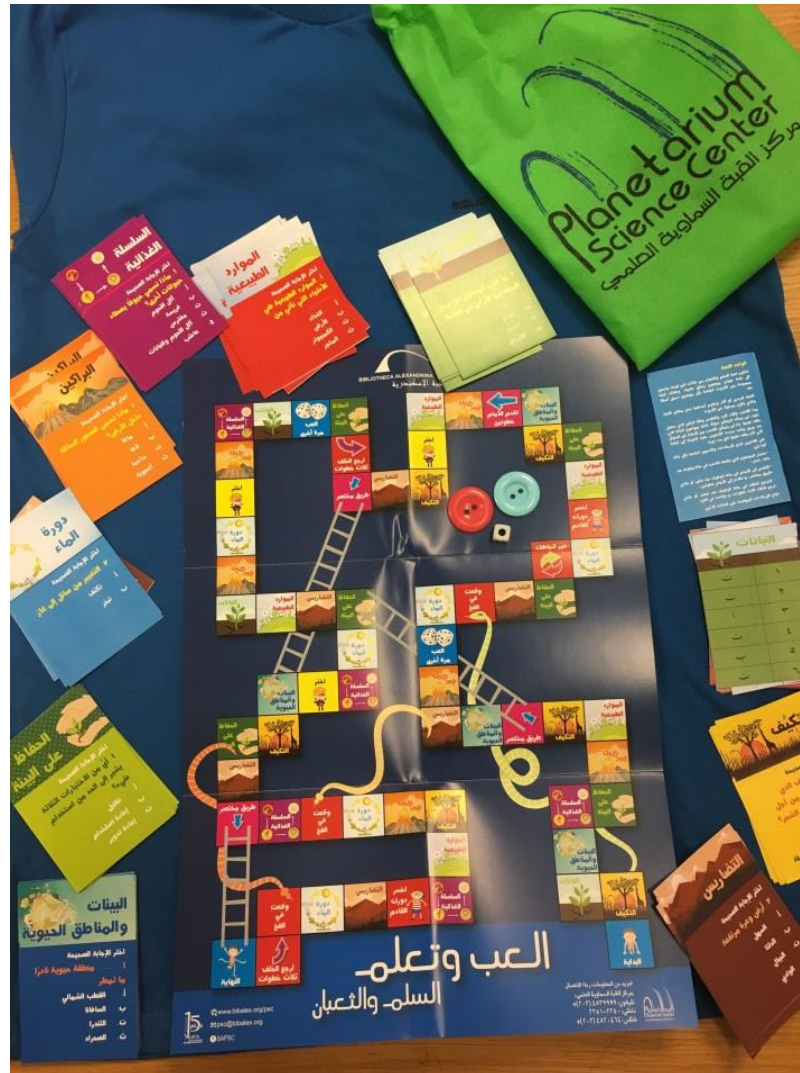
Climate  
Change



Smart Home



# Educational Publications



- Global Experiment focused on mosquitoes in a united effort to advance understanding about how they spread diseases

**FREE EVENT**

  
Planetarium  
Science Center  
مركز العلوم المتحفية

International Science Center and Science Museum Day  
(ISCSMD)  
اليوم العالمي للمراكز العلمية والمتاحف العلمية

  
International Science Center  
& Science Museum Day



**GLOBAL**  
**Mosquito**  
**HABITAT**  
**EXPERIMENT**

التجربة العالمية لموطن **الناموس**

# Promoting SDGs

# SUSTAINABLE DEVELOPMENT GOAL 4

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



- Science club project



# SUSTAINABLE DEVELOPMENT GOAL 6

Ensure availability and sustainable management of water and sanitation for all



- Science Festivity – Environment Day



# SUSTAINABLE DEVELOPMENT GOAL 7

Ensure access to affordable, reliable, sustainable and modern energy for all

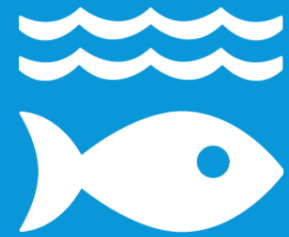


- International Science Center and Science Museum Day



# SUSTAINABLE DEVELOPMENT GOAL 14

Conserve and sustainably use the oceans, seas and marine resources for sustainable development



- Marine life event



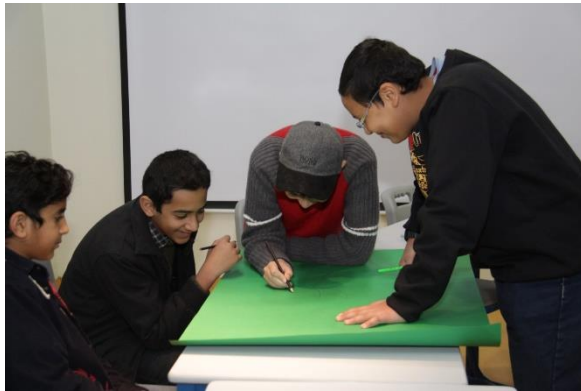


# SUSTAINABLE DEVELOPMENT GOAL 15

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



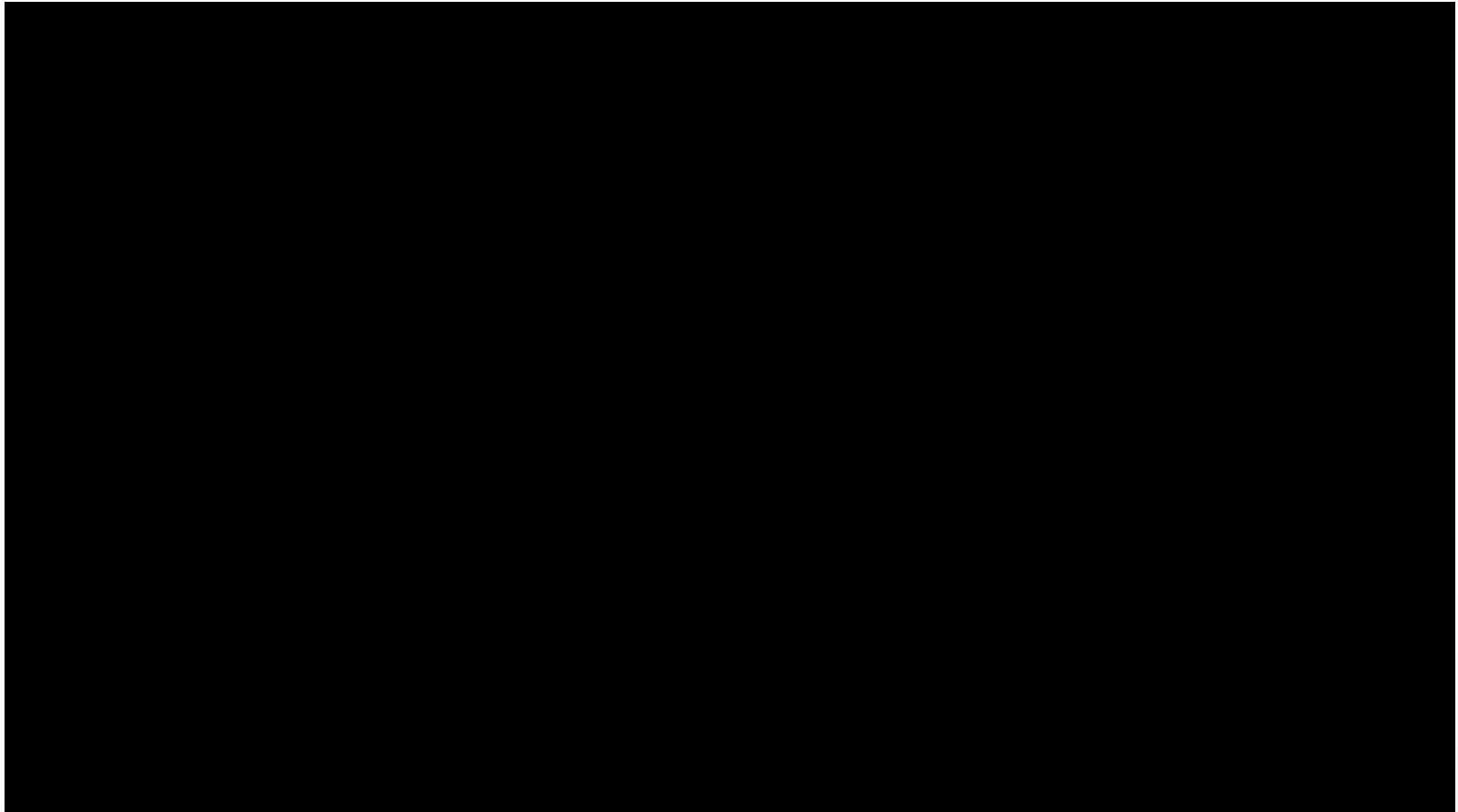
- “Getting closer to our environment” hands on workshop



# Individuals as Active Catalysts



# Youth and Sustainability



# One Final Word

- **SDGs: we're all developing countries now**

**theguardian**

- Rich societies are **not immune** to problems that affect everyone in our interconnected globe.
- We live in a global world where the **consequences** of punctual actions affect the **whole system**



Thank You

