

# UN SUSTAINABLE DEVELOPMENT GOALS



# OVERVIEW

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. Race, Justice, and Institutions
17. Partnerships for the Goals



# 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**

**1** NO  
POVERTY



**01**

# **NO POVERTY**

End poverty in all its  
forms everywhere





# Community Management Committees

- UN initiative
- Provide agricultural training for displaced people in Sudan
- Collective production and selling

<https://undp.medium.com/growing-farming-businesses-in-sudan-f76490279479>

# 2 ZERO HUNGER



02

## ZERO HUNGER

End hunger, achieve food security and improved nutrition and promote sustainable agriculture

# Vertical Farming

- Produce food in layers
- Optimize plant growth and space usage

<https://www.usda.gov/media/blog/2018/08/14/vertical-farming-future>



# 3

## GOOD HEALTH AND WELL-BEING

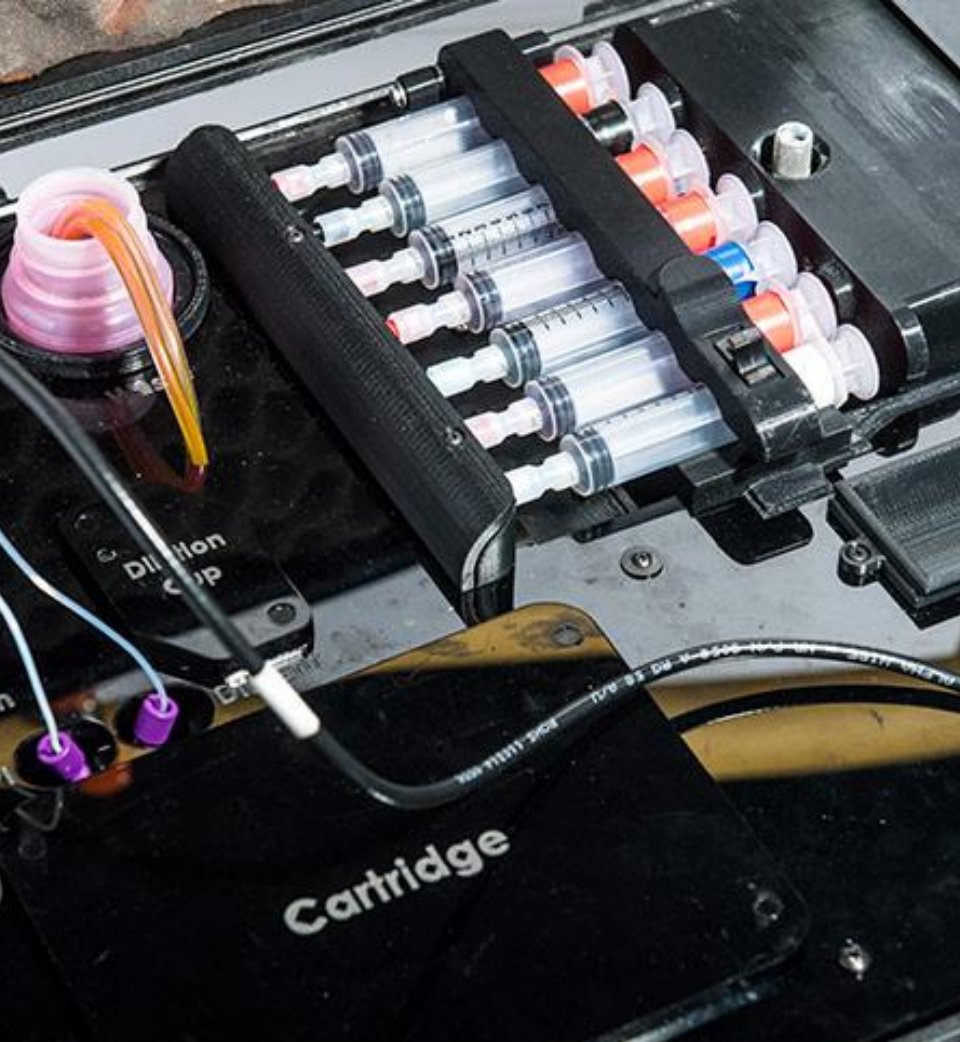
# 03



## GOOD HEALTH AND WELL-BEING

Ensure healthy lives and  
promote well-being for all at  
all ages





# PharmaChk

- Team of BU biomedical engineers led by Professor Muhammad Zaman
- Device to detect counterfeit or substandard drugs

<https://www.bu.edu/bostonia/summer17/bad-medicine/>

<http://www.bu.edu/articles/2014/2-million-to-engs-zaman-to-develop-counterfeit-drug-detector/>

# 4 QUALITY EDUCATION



04

## QUALITY EDUCATION

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

# Panda (School Connect)

- Entrepreneurs in Libya
- Connect teachers and parents to follow up on children's education

[undp.org/content/undp/en/home/stories/young-libyan-entrepreneurs-help-children-learn-online.html](https://undp.org/content/undp/en/home/stories/young-libyan-entrepreneurs-help-children-learn-online.html)



5

GENDER  
EQUALITY



05

**GENDER  
EQUALITY**

Achieve gender  
equality and empower  
all women and girls



# Cotton Mill

- Women entrepreneurs in Nepal
- Locally-manufactured masks
- Supported by UNDP

<https://undp.medium.com/masked-opportunities-8efe44559384>



# 6

# CLEAN WATER AND SANITATION

# 06



## CLEAN WATER AND SANITATION

Ensure availability and sustainable management of water and sanitation for all

# Mangrove Still

- Biologically inspired solar-powered distiller for desalination

<http://planet.wemimic.it/>



# 7 AFFORDABLE AND CLEAN ENERGY

07



## AFFORDABLE AND CLEAN ENERGY

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



# Windchill

- Designed by students at University of Calgary
- Inspired by how animals regulate body temperature
- Refrigerant-free cooling device

<https://www.ucalgary.ca/news/students-built-cold-food-chamber-inspired-kangaroos-and-elephants>

# 8

# DECENT WORK AND ECONOMIC GROWTH

# 08



## DECENT WORK AND ECONOMIC GROWTH

Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



# Grameen Bank

- Awarded 2006 Nobel Peace Prize
- Microfinance organization for rural poor
- 8.4 million borrowers as of January 2011

<http://www.grameen.com/introduction/>



Grameen Bank

# 9

# INDUSTRY, INNOVATION AND INFRASTRUCTURE

# 09



## **INDUSTRY, INNOVATION, AND INFRASTRUCTURE**

Build resilient infrastructure,  
promote inclusive and  
sustainable industrialization and  
foster innovation

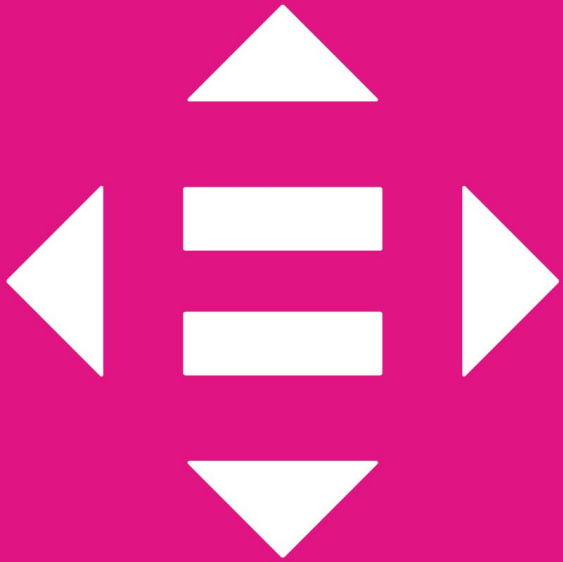


# EConcrete

- “Environmentally sensitive solutions for urban and coastal infrastructure”
- Winner of Ray of Hope Prize (2020) from Biomimicry Institute

<https://econcretetech.com/>

# 10 REDUCED INEQUALITIES



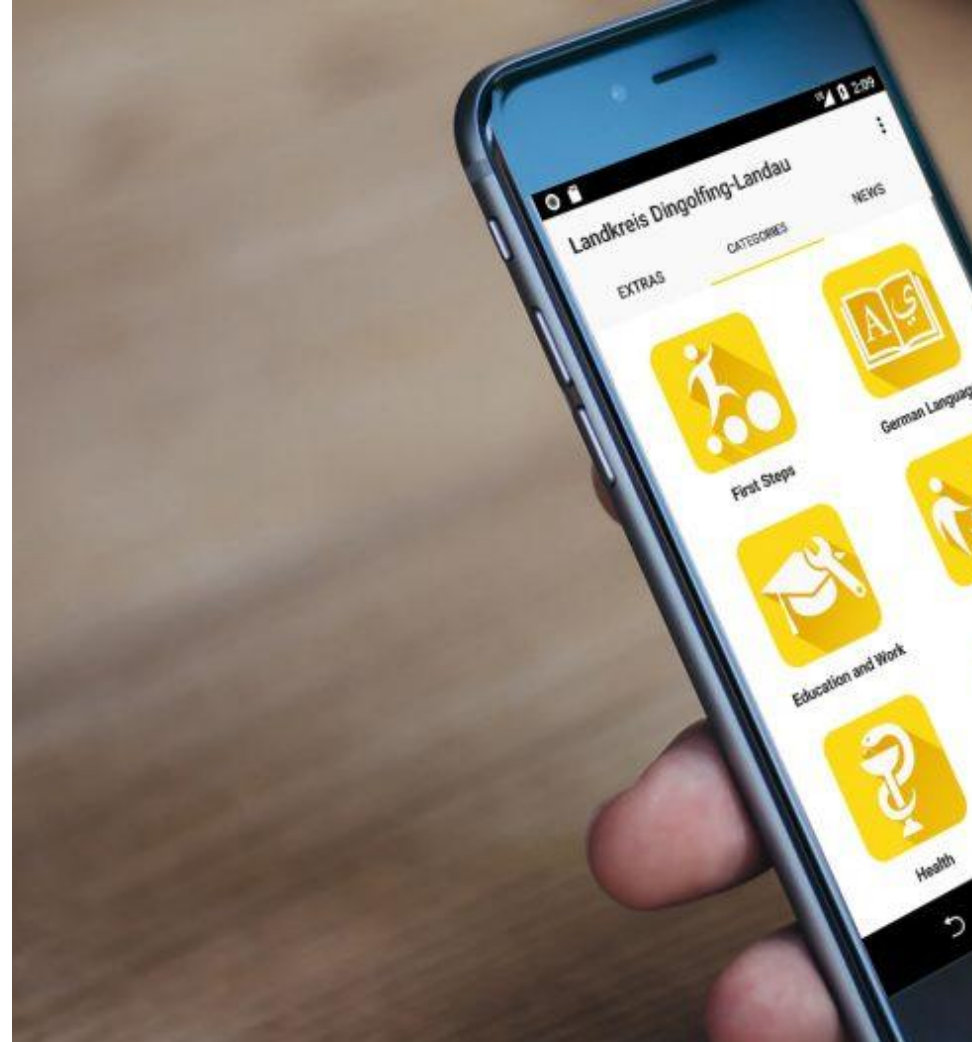
## REDUCED INEQUALITIES

Reduce inequality  
within and among  
countries

# Integreat

- Mobile information app and website
- Provide newcomers (immigrants or migrants) with information in native language without internet access

<https://integreat-app.de/en/>





# 11 SUSTAINABLE CITIES AND COMMUNITIES

11



## SUSTAINABLE CITIES AND COMMUNITIES

Make cities and human settlements inclusive, safe, resilient and sustainable



# Initiatives in Paraguay

- Sustainable bus shelters with WiFi, compost bins, and QR codes
- Local leaders in CLeaning brigade
- Training program for urban park rangers

<https://undp.medium.com/a-country-of-friends-greens-its-capital-city-767d374d0f9>

# 12

## RESPONSIBLE CONSUMPTION AND PRODUCTION



# 12

## RESPONSIVE CONSUMPTION AND PRODUCTION

Ensure sustainable  
consumption and  
production patterns

# Rescuing Leftover Cuisine

- Nonprofit addressing food waste and food insecurity
- Deliver excess food from restaurants and other businesses to shelters and pantries
- BU graduate Lizy Flagg created app for local chapter!

<https://www.rescuingleftovercuisine.org/>

<http://www.bu.edu/articles/2020/lizy-flagg-creates-app-to-fight-food-insecurity-boston/>



# 13 CLIMATE ACTION

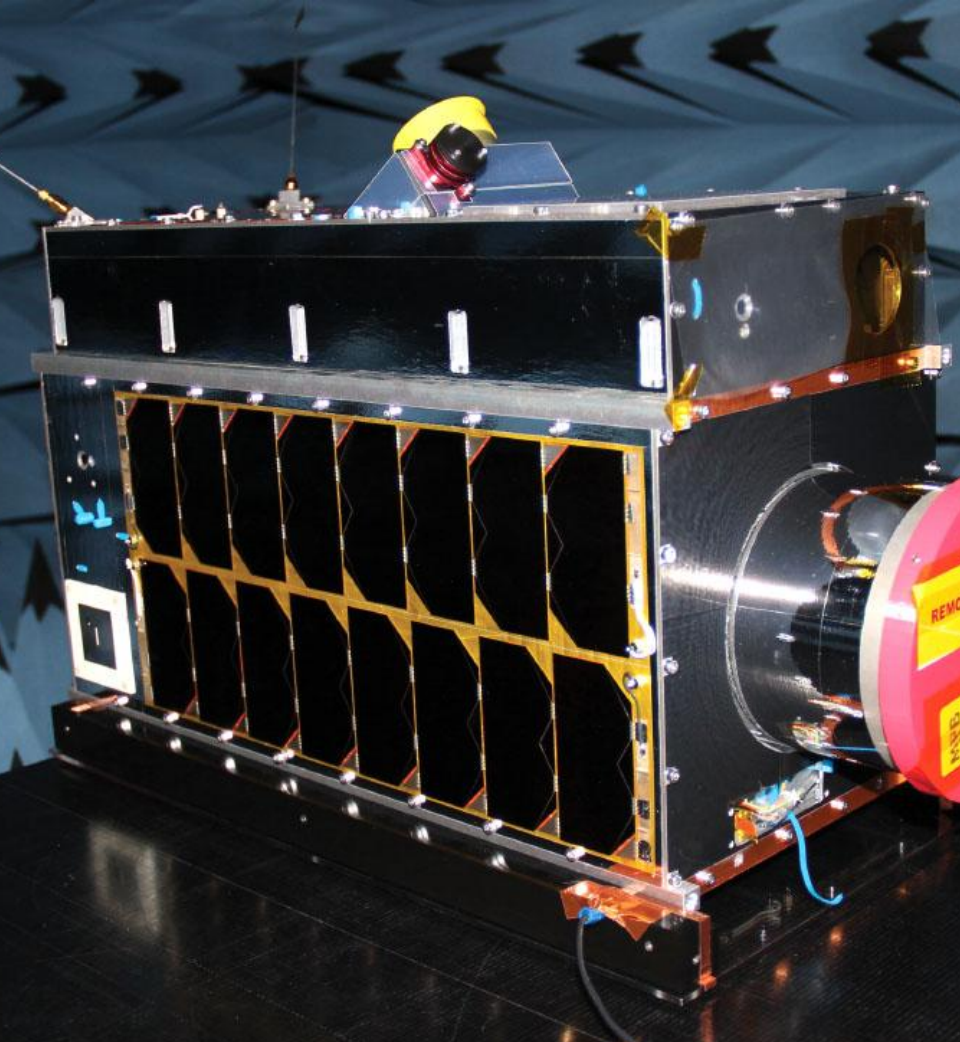


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## CLIMATE ACTION

Take urgent action to combat climate change and its impacts



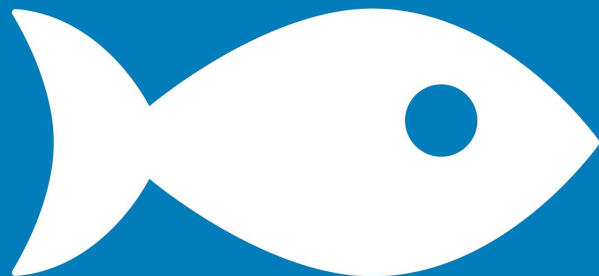


# Claire (Microsatellite)

- Microsatellite tracking methane leaks
- Global climate modeling

<https://spectrum.ieee.org/aerospace/satellites/spotting-mystery-methane-leaks-from-space>

# 14 LIFE BELOW WATER



14

## LIFE BELOW WATER

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

# RangerBot

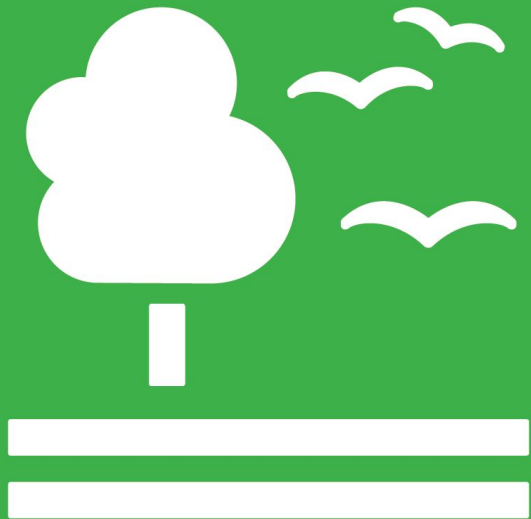
- Funded by Google Impact Challenge
- Vision-based underwater robot for monitoring coral reef environments

<https://www.barrierreef.org/what-we-do/projects/rangerbot>



# 15

# LIFE ON LAND



# 15

## LIFE ON LAND

Protect, restore and promote sustainable use of terrestrial ecosystems





# Borneo Nature Foundation

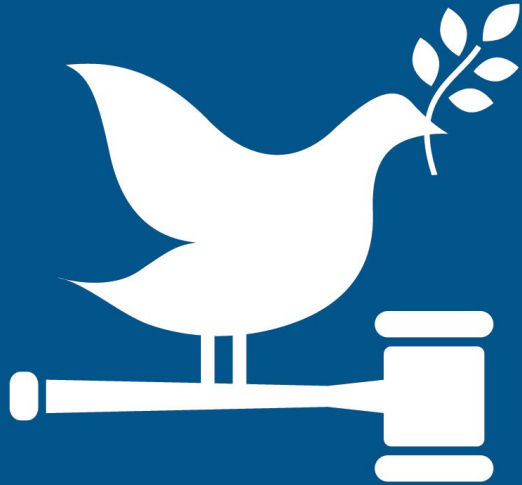
- Community Seedling Nurseries in Borneo's tropical rainforests
- Simultaneously address orangutan habitat-loss and empowerment of local communities

<http://www.borneonaturefoundation.org/en/>



# 16

# PEACE, JUSTICE AND STRONG INSTITUTIONS



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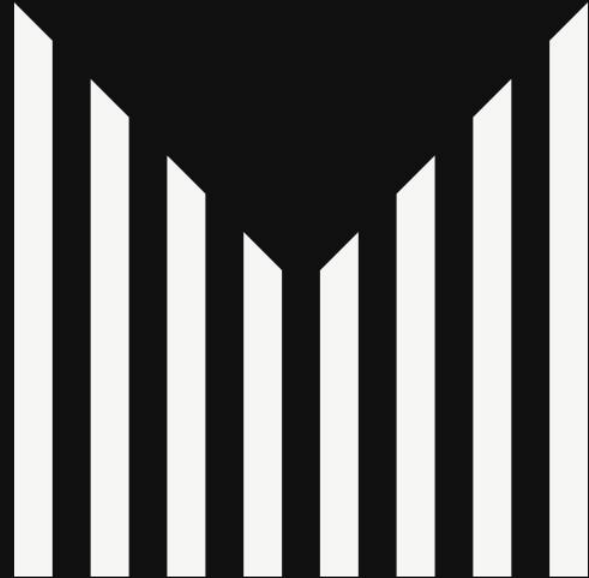
# PEACE, JUSTICE, AND STRONG INSTITUTIONS

Promote peaceful and  
inclusive societies for  
sustainable development

# Marshall Project

- Nonprofit news organization
- Focuses on US criminal justice system

<https://www.themarshallproject.org/about>



# 17 PARTNERSHIPS FOR THE GOALS

17



## PARTNERSHIPS FOR THE GOALS

Strengthen the means of implementation and revitalize the global partnership for sustainable development



**Questions?**

