



Humanitarian Activities  
Committee

# IEEE Humanitarian Activities – Region 6 Meeting

Tim Lee  
Humanitarian Activities Committee (HAC)  
2015 IEEE MTT-S President  
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# What is IEEE HAC?

- Provides funding centered on 'feet-on-the-ground' mission
- Supports IEEE or IEEE-led groups within its mission
- Acts as partnering and collaboration center
- Enables and promotes humanitarian activities
- Volunteer-staff team that enables others to do impact-driven humanitarian work
- Provide funding up to \$100K USD



# IEEE Humanitarian Activities Committee (HAC)



Humanitarian Activities  
Committee

## 2016 IEEE Ad Hoc Committee on Humanitarian Initiatives Members

Laura Edelson, Chair  
Mike Lightner, Past Chair  
Mario Alejandro Aleman  
Paul M. Cunningham  
Alfredo L. Herrera  
Kartik Kulkarni  
**Timothy T. Lee**  
Kevin Passino  
Jackie Stenson  
Vineeth Vijayaraghavan



Laura  
Edelson  
Chair



Kartik  
Kulkarni  
SIGHT



Tim Lee  
Partnerships

## Staff Support



Holly Schneider Brown  
Staff Lead

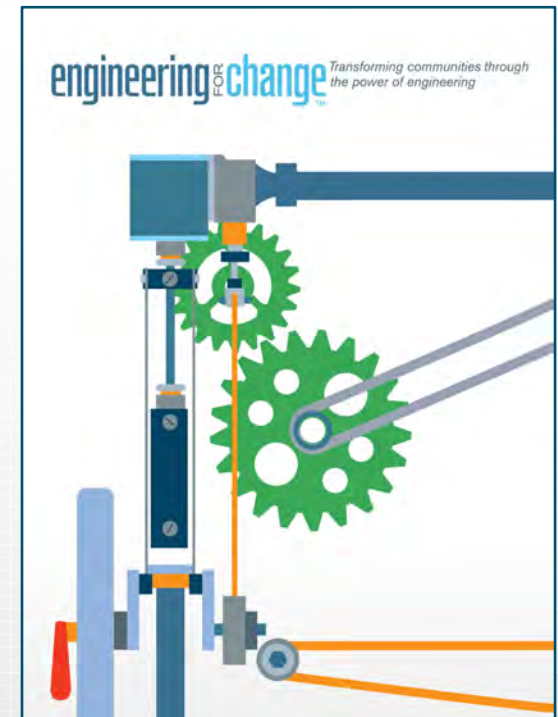


Jackie Halliday  
Program Coordinator



# Partnerships

- We partner with outside organizations and are always looking for new partnerships
- Prospective partnerships:
  - Non-profit organizations
  - Local governments
  - Private companies
- **IEEE + ASME = E4C**



engineering **FOR**  
**CHANGE**



What are *humanitarian activities*  
as defined by the international  
community and IEEE?

# What's the Difference?

## Humanitarian Aid

- Short-term
- Delivered in disaster zones
- Responds to an incident or event
- Focused on saving lives

VS.

## Development Aid

- Long-term
- Delivered in developing countries
- Responds to systematic problems
- Focused on economic, social, and political development

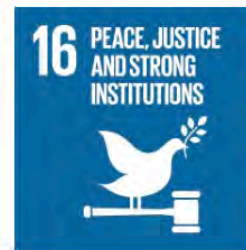




# SUSTAINABLE DEVELOPMENT GOALS



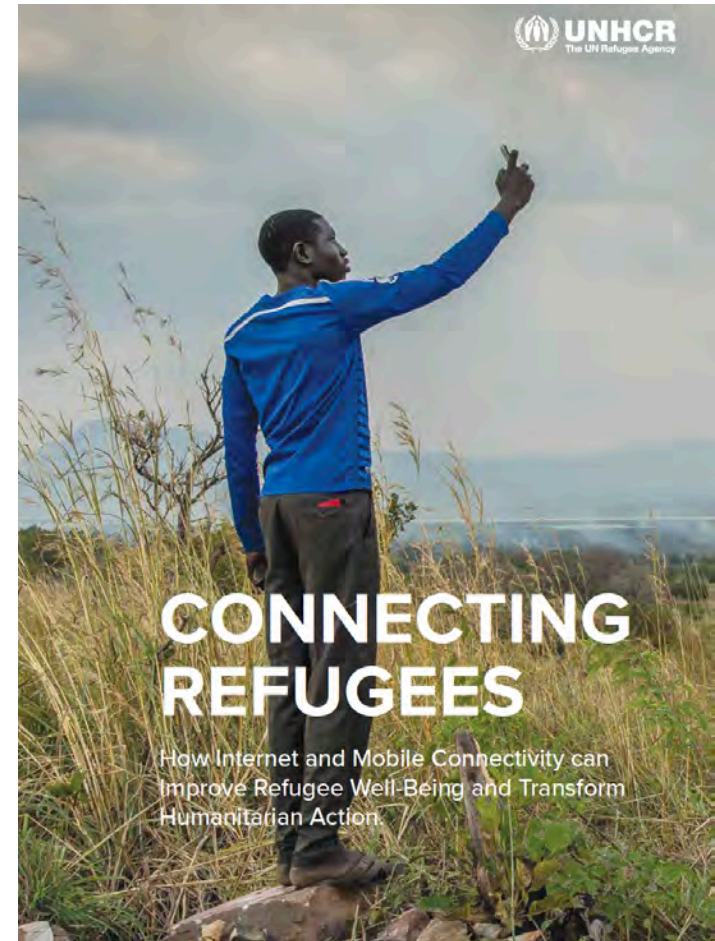
SDG with ICT Reference



**How are you involved to deliver Sustainable Engineering Solutions to meet these Goals?**

"In the world we live in today, Internet connectivity and smart phones can become a lifeline for refugees," Filippo Grandi, the UN High Commissioner for Refugees, said in the UNHRC report.

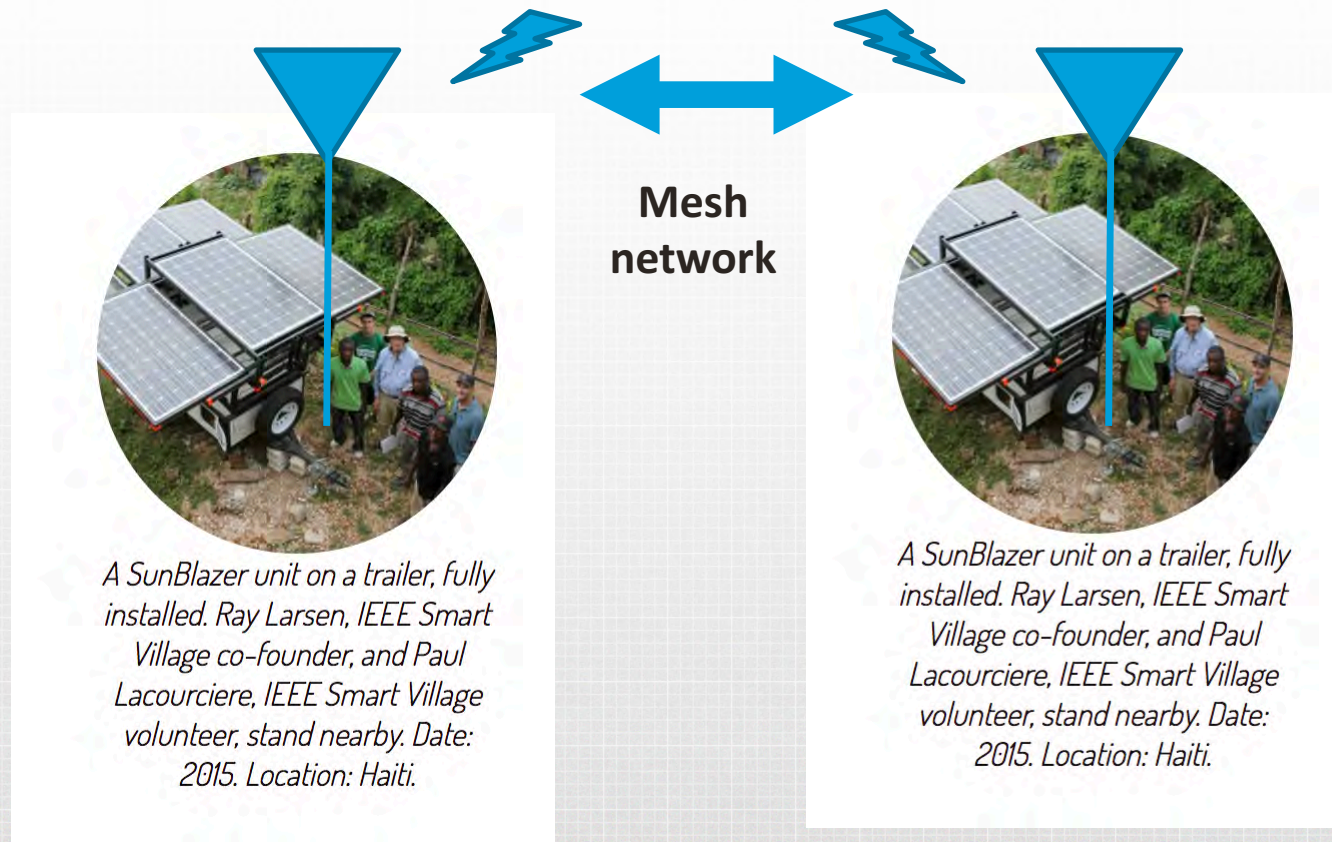
- **Internet access as important as food, water to refugees**
- **Data plans are so expensive that refugees spend about a third of their incomes to get online, according to a UN Refugee Agency study published Wednesday. In Tanzania, some refugees are willing to sell up to 10 days worth of food rations to buy a month of data for their phones, the study found.**
- **The UN said the internet and smartphones allowed refugees to get crucial information, communicate with family members, access essential services and connect with their communities.**





# What can we do?

# Building Connectivity on top of IEEE SMART Village Platform





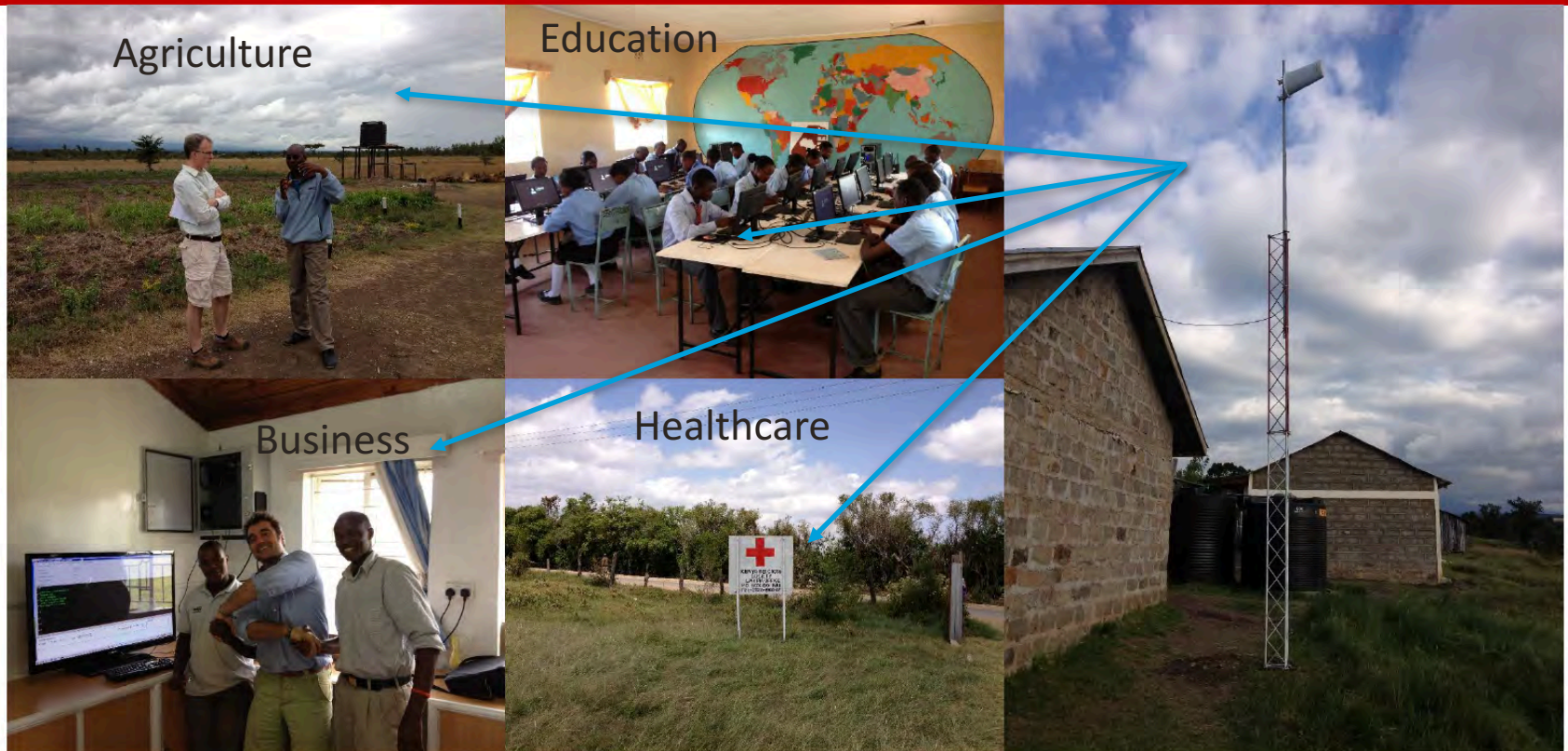
# Rural Communications

RuralConnect®





# Kenya



# IEEE HAC / SIGHT and Smart Village

- Common goal – “Advancing Technology for Humanity”
  - ISV – Off-Grid Power and Last Km Connectivity
  - HAC / SIGHT – Last Km Connectivity CoP
- Working together will benefit both
  - Build communication bridge between IEEE HAC and IEEE ISV
  - Develop working framework and Structure
  - SIGHT project and events



## How to start with Humanitarian Activity

Dinko Jakovljević  
Lebogang Madise  
Lee Crudgington



# IEEE R8 Humanitarian Committee

- **Alexandros Osana** (Greece) – Chair
- **Lebogang Madise** (South Africa)
- **Dino Jakovljevic** (Croatia)
- **Lee Crudgington** (UK and Ireland)
- Heind El-Rawy (Egypt) – Corresponding Member

Alex



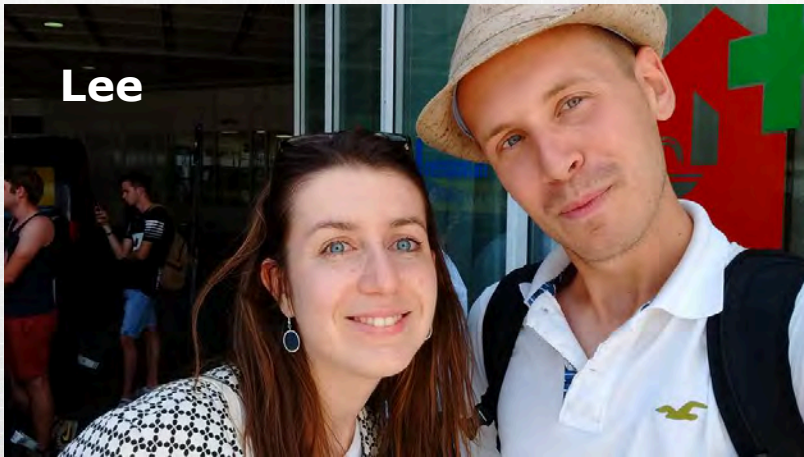
Lebo



Heind



Lee



Dinko



# Agenda



- Why?



- SIGHT interest group



- Projects



- Q & A



# Why?

# 4 million children in Syria needs humanitarian aid







5 FACTS  
YEMEN'S  
HUMANITARIAN  
CRISIS

# 13.1 mln

13.1 mln Yemenis have no access  
to clean water and adequate  
sanitation

SOURCE: UNOCHA PHOTO: REUTERS/Khaled Abdullah



THOMSON REUTERS  
FOUNDATION



# 300 million people live without electricity in India



# Floods in Gunja (Croatia) affected more than 7000 people

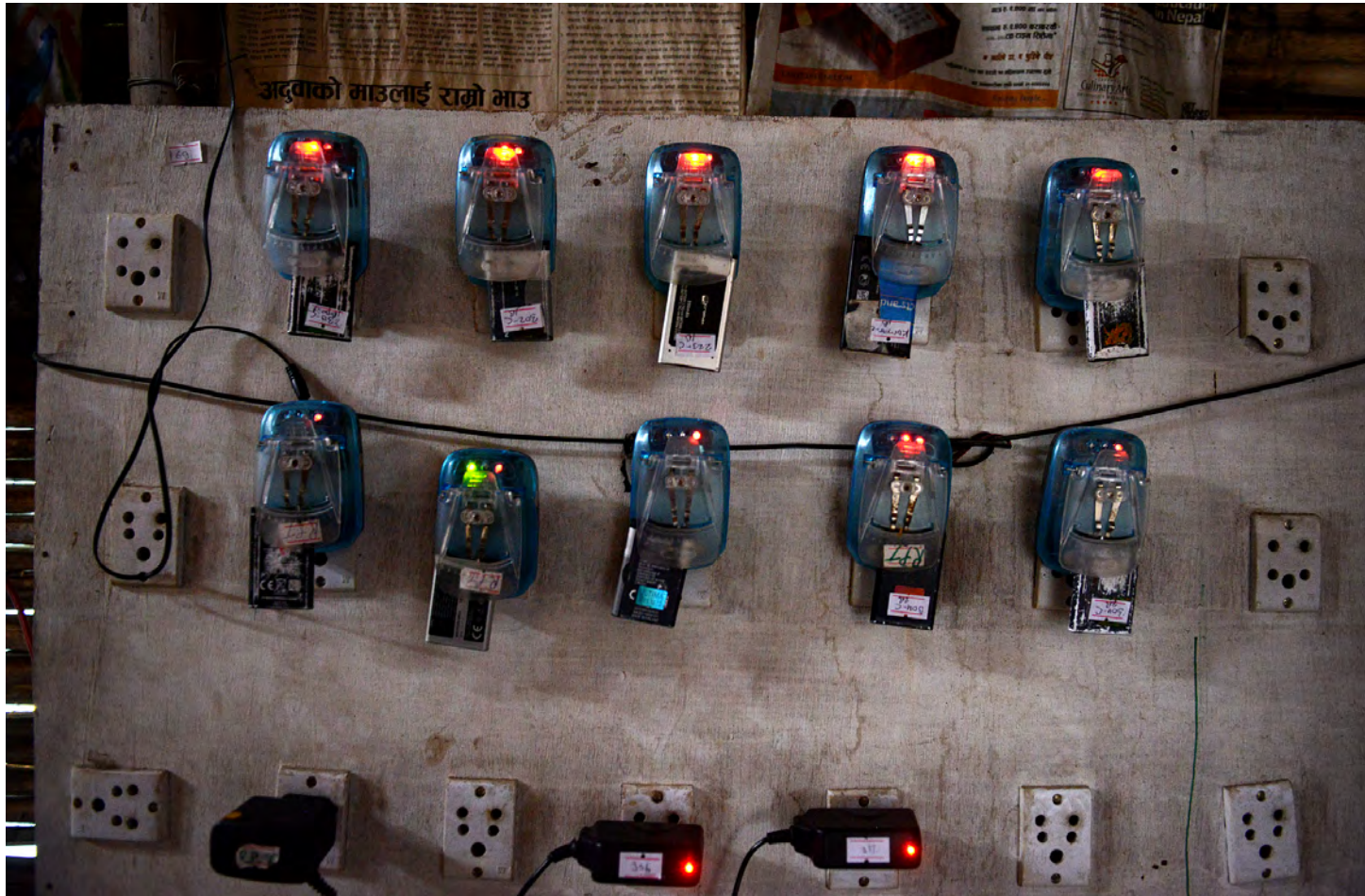




# Liter of Light DIY project



# Solar station project in refugee camp





# IEEE SIGHT

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Special Interest Group on  
Humanitarian Technology

# Special Interest Group on Humanitarian Technology

SIGHT is network of IEEE volunteers around the globe that partner with underserved communities and local organizations to leverage technology for sustainable development.



# On what is SIGHT focused?

SIGHT is focused on sustainable solutions and projects which will create long term difference in the lives of people in underserved community.



# SIGHT Values

- SIGHT focuses on sustainable solutions that make a long-term difference in the lives of people
- SIGHT operates through local volunteers and partners working with local communities
- For SIGHT, success is only achieved through partnerships, starting with the community and extending to government organizations, NGOs, schools, hospitals, companies, and others
- For SIGHT and its volunteers continuous training and education is essential

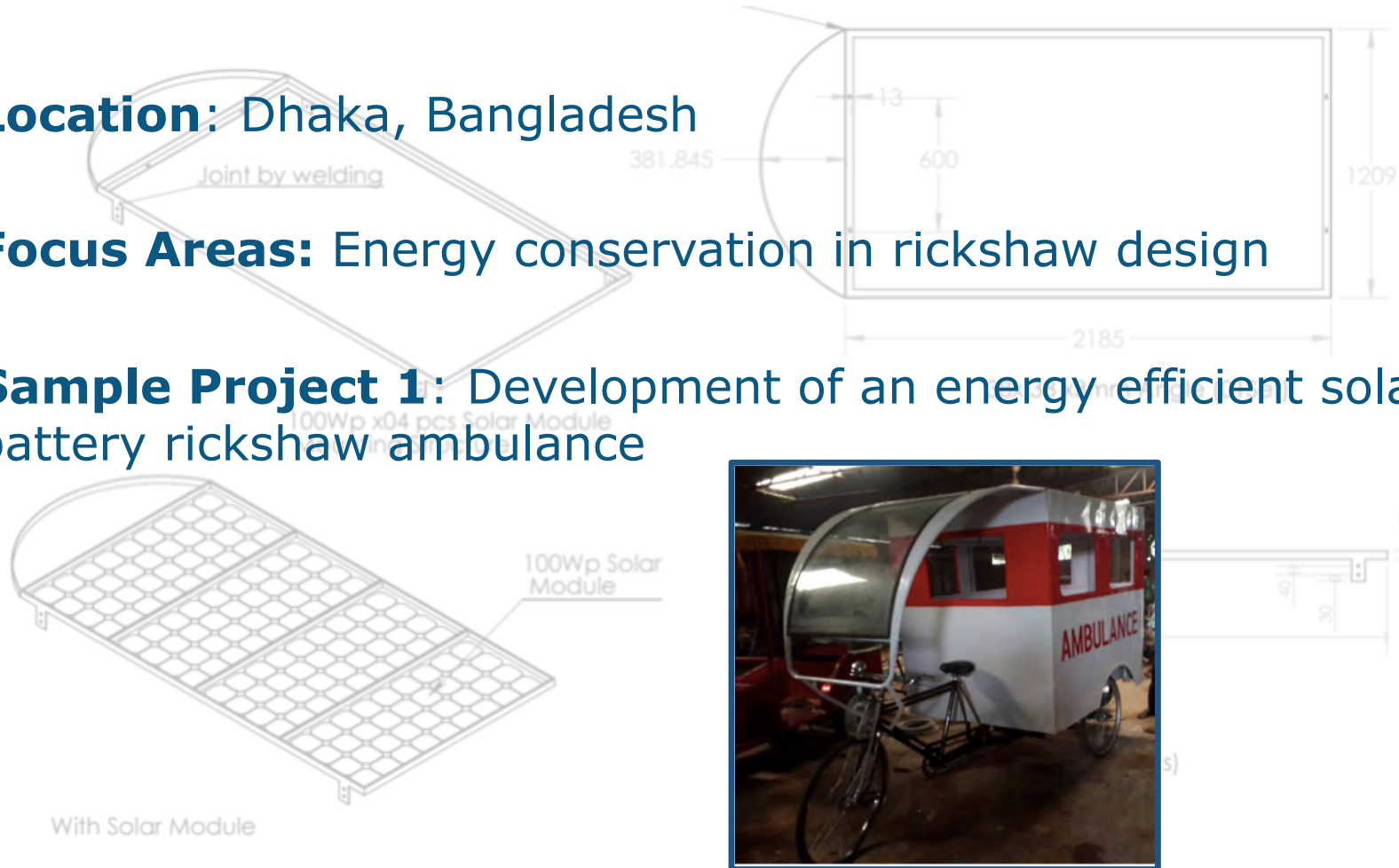


# Case Study: CARG SIGHT

**Location:** Dhaka, Bangladesh

**Focus Areas:** Energy conservation in rickshaw design

**Sample Project 1:** Development of an energy efficient solar battery rickshaw ambulance



# What is SIGHT Group?



# What is a SIGHT Group?

A group of at least 6 IEEE members (*additional IEEE and non-IEEE volunteers are welcome*) who come together to

- (1) learn about sustainable development,
- (2) build relationships with local underserved communities and,
- (3) implement projects that leverage technology to tackle key problem within the community.

Photo: Artisanal Fishers SIGHT, India

# Types of SIGHT group

## Professional SIGHT Groups

- Sponsored by a society, section, council or region
- Engage in long-term projects with the community

## University SIGHT Groups

- Sponsored by a student branch
- Require a faculty lead
- Engage in a “feet on the ground” project with the community



# How to start a SIGHT group



**1. THINK**



**2. BUILD**



**3. SIGN**



**4. SEND**



**5. APPROVED**

# How to write a successful petition

1. **Think** through your group's motivations and areas of interest
2. **Focus** on community needs (rather than a product or idea that is looking for a problem to solve)
3. **Plan** for unintended consequences

The image shows two overlapping forms. The top form is titled "IEEE Special Interest Group on Humanitarian Technology" and "PLAN OF ACTIVITIES FOR PROPOSED SIGHT". It asks for information for the proposed group and includes questions like "1. What was the motivating factor that led to forming this group?" and "2. What will be the focus area of the group?". The bottom form is titled "PETITION TO FORM AN IEEE SIGHT" and includes a table for petitioners with columns for Name, Member Number, Signature of Petitioner, and Email Address. It also includes a note: "\*\* 6 QUALIFIED PETITIONERS ARE REQUIRED FOR A SIGHT FORMATION \*\*".

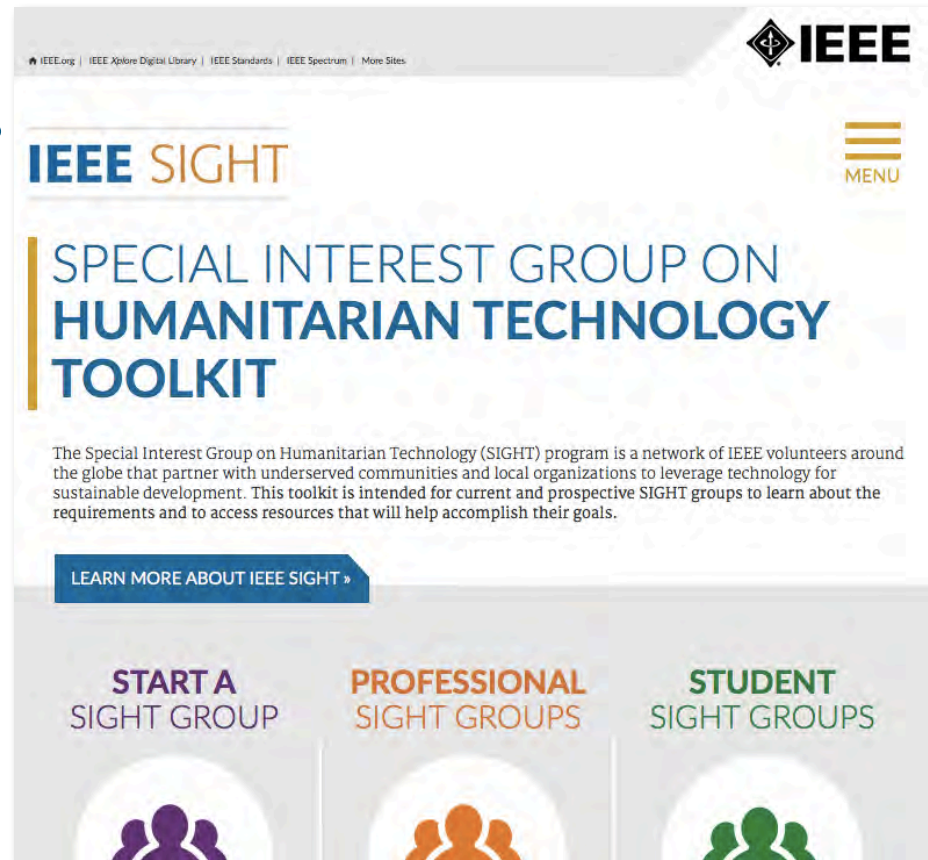


# SIGHT resources

# Resources: Online Toolkit

**The Online SIGHT Group Toolkit** provides information and resources for current and prospective SIGHT Group participants.

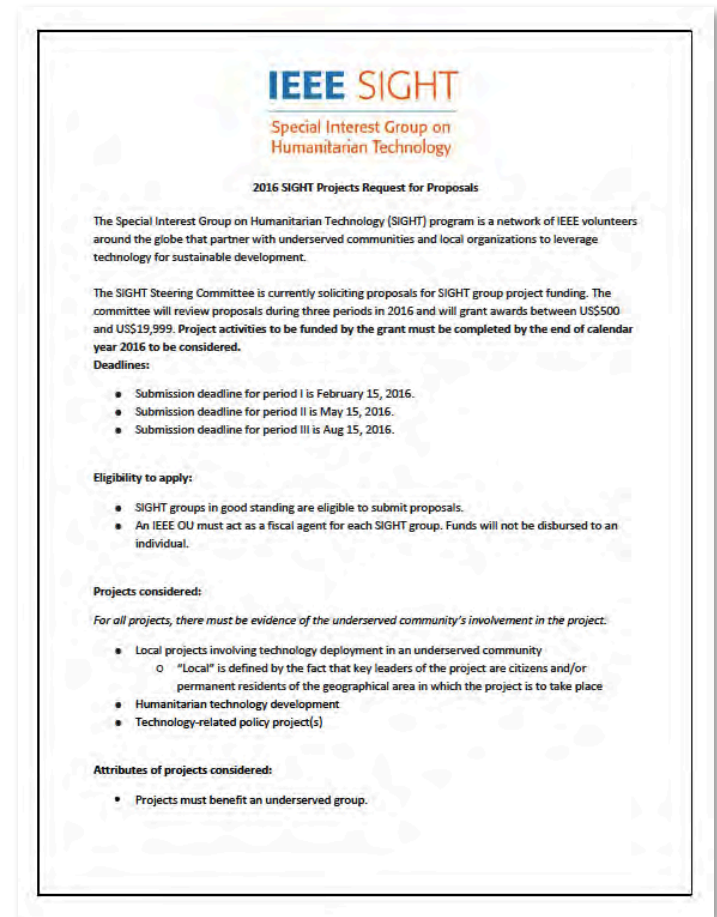
Resources are a combination of custom SIGHT tools and curated online resources.





# Resources: Project Funding

- Project Proposals updated to reflect new requirements and expectations
- \$500 - \$19,999 (USD)
- Project activities must be completed by the end of calendar year 2016
- An IEEE OU must act as a fiscal agent for each SIGHT group



# 2016 MTT-S SIGHT Plans

- GHTC – MTT-S is Technical Co-Sponsor, Jim Weiler hosting booth
- LAMC Special Session on Humanitarian Technology – Tushar Sharma / James Rautio
- APMC – IMARC SIGHT Program
  - Prof Yahel Ben-David, De Novo Group
  - Workshop: Delivering broadband wireless access to rural communities



# Q & A



# Thank you!

