

## Engaging Members through Sustainable Development and Humanitarian Technology Programs

*Paul M Cunningham, Chair, IEEE Humanitarian Activities Committee  
President, IEEE Society on Social Implications of Technology  
2016 VoLT Program*

# Mission



## Humanitarian Activities Committee

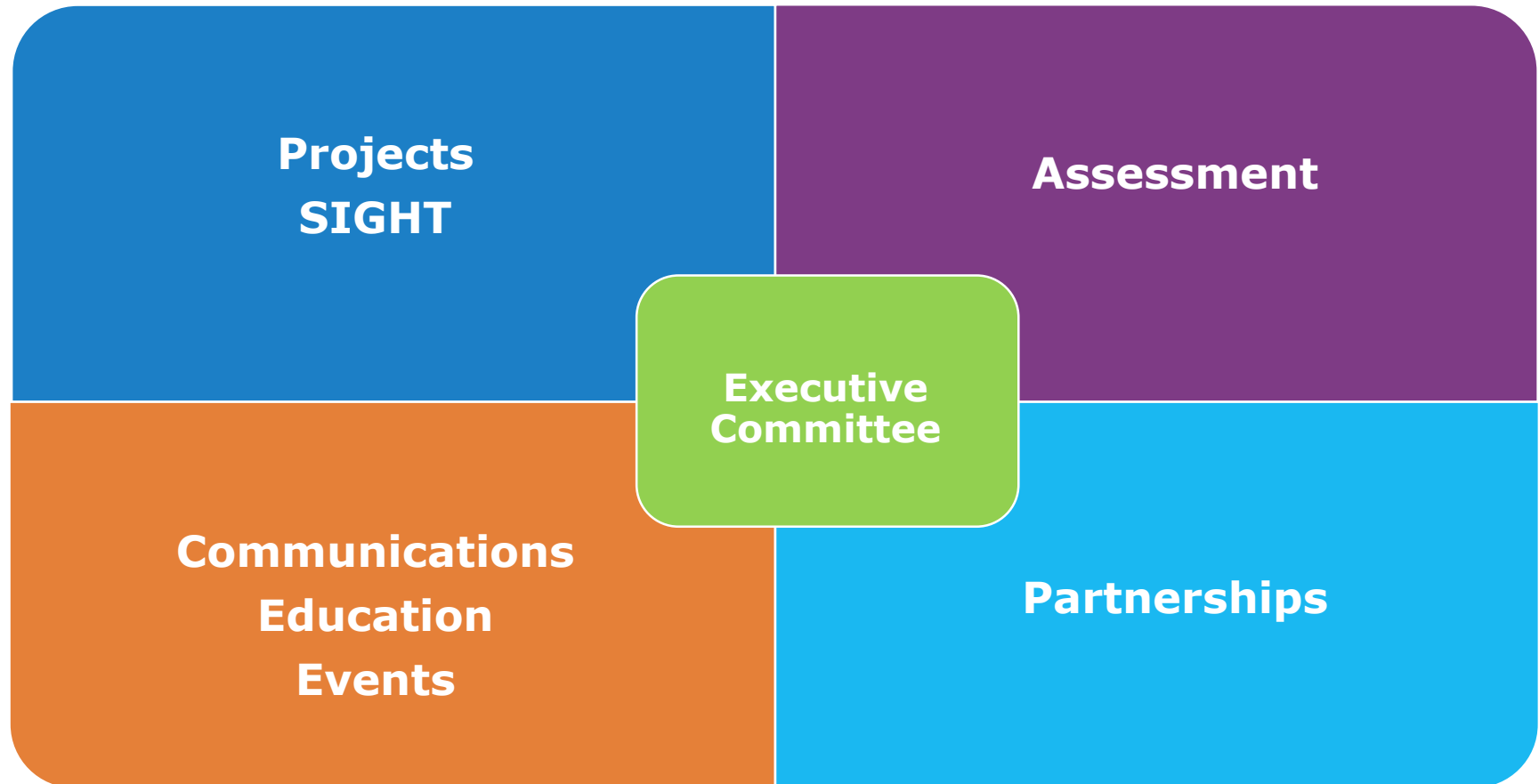
- ❖ The IEEE Humanitarian Activities Committee supports the IEEE Board-endorsed vision of IEEE volunteers around the world carrying out and/or supporting impactful “feet-on-the-ground” activities at local level.
- ❖ HAC supports Sustainable Development related IEEE volunteer activities by
  - Providing financial support to relevant projects and events
  - Providing educational, mentoring and networking support
  - Promoting and supporting collaboration by IEEE & non-IEEE volunteers through IEEE SIGHT (Special Interest Group on Humanitarian Technology) Program
  - Building strategic partnerships with other relevant stakeholders
  - Providing volunteers who support local teams undertaking “feet-on-the ground” community based activities



# HAC Subcommittees



Humanitarian Activities  
Committee



# Background of HAC Chair



Humanitarian Activities  
Committee

## ❖ Multi-disciplinary Background

- Graduate of Trinity College Dublin, Smurfit Graduate Business School, Kodaly Institute
- Finalising PhD on Entrepreneurship & Collaborative Open Innovation in Africa, DSV, Stockholm University

## ❖ Professional Experience

- Technology, strategy and policy expert with national governments, European Commission, World Bank
- Research and innovation expert for European Commission, European Science Foundation, National Research Foundation (South Africa), Research Council of Norway, Vinnova (Sweden)

## ❖ Research, Innovation and Practitioner Experience

- Successful track record of participation in international research as Coordinator or Principal Investigator
- Recognized by Enterprise Ireland as an Irish Champion of EU Research (2015, 2017)
- Helped African institutions secure > €165 million in research funding (FP7 2007–2013, H2020 (2014–2017))
- Guest Lecturer, Trinity College Dublin (Centre for Global Health)
- Visiting Senior Fellow, Glyndwr University (Social implications of technology, SDGs & Global Citizenship)
- Visiting Professor, IUM, Namibia (Social Implications of Technology, Technology for Development)

## ❖ IEEE Volunteer Activities

- President (2017 – 2018), IEEE Society for Societal Implications of Technology (SSIT)
- Chair (2018), IEEE Humanitarian Activities Committee (HAC)
- Member (2017 – 2018), IEEE Global Public Policy Committee (GPPC)

## ❖ Successful track record of working with partners in resource constrained environments

- *IST-Africa (government partners) WSIS Prizes 2018 Champion - Regional & International Cooperation*
- mHealth4Afrika (education and research partners in coordination with government)
- 4- IEEE SSIT IST-Africa SIGHT (university staff & students in coordination with government)



# HAC Supports



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Awareness Raising  
of Sustainable  
Development

Training,  
Networking and  
Mentoring

Engagement with  
Sustainable  
Development  
Projects and Events

Contribution to the  
Sustainable  
Development\*  
Community

\*How the “humanitarian” space is  
often defined outside IEEE.

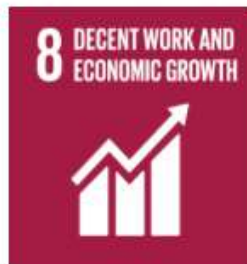




# UN Sustainable Development Goals (SDG)



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## SUPPORTING

## Experienced teams with a strong track record

- ❖ Proposals demonstrating clear understanding of target community needs, alignment with SDGs and volunteer “feet-on-the ground” activities strengthening local capacity through technology adaptation and deployment
- ❖ **Grants of US\$20k - \$60k per funded project (max. 12 month duration)**
- ❖ 2018 Call for Proposal Deadlines:
  - 31 March
  - 30 June
  - 01 September
- ❖ Contact: [hac-projects@ieee.org](mailto:hac-projects@ieee.org)

# Project Support



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## *Attributes*

- ❖ Supporting local IEEE volunteers to address community challenges – “feet-on-the-ground” projects
  - ❖ Clearly articulate local community needs, how they are involved and will benefit
  - ❖ IEEE Volunteers responsible for implementing project living in target country/countries
  - ❖ Address local capacity building, technology adaptation and deployment, assessment, impact and sustainability
  - ❖ Direct project costs (equipment, materials, supplies, travel) for 12 month period
  - ❖ *Please note there is no reimbursement of volunteer salaries or indirect costs (overhead, F&A, project management, administration)*

## *Projects NOT considered for support*

- ❖ Do not clearly articulate active community involvement, address local needs or sustainability plan
- ❖ Projects focused primarily on
  - ❖ Research
  - ❖ Immediate disaster relief
  - ❖ Development of technology for arbitrary development (e.g. building better water pump for resource constrained environments)
  - ❖ Supplying or distributing existing products
- <sup>8</sup>❖ Commercial implementation or deployment





## SUPPORTING

### Sustainable Development activities within existing events

- ❖ Support for showcasing sustainable development and humanitarian technology activities within existing events – e.g., **sessions, tracks, workshops, speakers**
- ❖ Support developing sessions, speakers, publicity
- ❖ Partial grant funding of up to **US\$15k** towards specific activities
- ❖ 2018 Call for Proposal deadlines
  - 15 March
  - 15 May
  - 15 July
- ❖ Contact: [hac-events@ieee.org](mailto:hac-events@ieee.org)



# Event Support



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## *Attributes*

- ❖ Supporting Sustainable Development elements within existing events
  - ❖ Pre-conference workshops, Tracks, Workshops, Plenary Speakers, Panel Sessions
  - ❖ Clearly articulate
    - ❖ how the component(s) requesting support is aligned with HAC vision
    - ❖ Supports capacity building or showcases IEEE volunteers undertaking sustainable development activities
    - ❖ Target audience
    - ❖ Proposed performance metrics
- ❖ *Please note that IEEE events must have official conference approval prior to submitting request for support. All applications must include confirmation of approval for this request from General Chair, Program Chair or local Section Chair.*

## *Elements of events NOT considered for support*

- ❖ Sponsorship of entire conference
- ❖ IEEE Distinguished Lecturer Series
- ❖ Regular IEEE Organisational Unit meetings (including section, chapter, committee meetings)
- ❖ Scholarship to individuals
- ❖ Participation of individual(s)/team(s) at competitions or awards
- ❖ Cannot support projects or provide seed funding for start ups



# IEEE SIGHT

*A network of IEEE and non-IEEE volunteers around the globe that partner with local communities to leverage technology for sustainable development*

[sight.ieee.org](http://sight.ieee.org)



**IEEE SIGHT**  
Special Interest Group on Humanitarian Technology

The Special Interest Group on Humanitarian Technology (SIGHT) program is a network of IEEE volunteers around the globe that partner with local communities and organizations to leverage technology for sustainable development.

Today more than 100 SIGHT Groups address off-grid power, internet connectivity, agriculture, and education efforts in more than 40 countries.

Each SIGHT project has structured requirements that tie funding to social impact and fosters a multi-disciplinary approach to technology development.

Our vision and mission is quickly outlining a new mindset for thousands of engineers around the globe, fostering care beyond good intentions.

SIGHT.IEEE.org  
Connect with us: [Facebook icon] [Twitter icon] [Instagram icon]

**IEEE**  
Advancing Technology for Humanity

IEEE 2015-2016

# SIGHT Program

- ❖ SIGHT is a global network of IEEE and non-IEEE volunteers working in partnership with local communities to leverage technology for sustainable development
- ❖ SIGHT projects have structured requirements tying funding to social impact, fostering a multi-disciplinary approach to adaptation and deployment of technology
- ❖ SIGHT is focused on providing education, training, mentoring and other resources to support effective, ethical collaboration between IEEE and non-IEEE volunteers with complimentary skills and experience
- ❖ SIGHT groups in over 40 countries address local societal challenges in fields including agriculture, education, health, connectivity and off-grid power

# SIGHT Project Support

## SUPPORTING

**SIGHT Groups located in target country/countries**

- ❖ Proposals demonstrating consultation with and a clear understanding of the needs of target communities as well as active local stakeholder involvement in “feet on the ground” activities leveraging appropriate use of technology
- ❖ **Grants of US\$1,000 - \$19,999 per funded project (max. 12 month duration)**
- ❖ 2018 Call for Proposal deadlines:
  - 31 March
  - 30 June
  - 01 September
- ❖ Contact: [hac-projects@ieee.org](mailto:hac-projects@ieee.org)

# SIGHT Project Support

## *Attributes*

- ❖ Supporting SIGHTs to address community challenges – “feet-on-the-ground” projects
  - ❖ Clearly articulate consultation with local communities, needs driven approach, how they are involved and will benefit
  - ❖ Aligned with UN Sustainable Development Goals
  - ❖ IEEE Volunteers responsible for implementing SIGHT project are living in target country
  - ❖ Address local capacity building, technology adaptation and deployment, assessment, impact and sustainability
  - ❖ Direct project costs (equipment, materials, supplies, necessary travel) for 12 month period
  - ❖ Please note there is no reimbursement of volunteer salaries or indirect costs (overhead, F&A, project management, administration)

## *Projects NOT considered for support*

- ❖ Do not clearly articulate active community involvement, addressing local needs or sustainability plan
- ❖ Projects focused primarily on
  - ❖ Research
  - ❖ Immediate disaster relief
  - ❖ Development of technology for arbitrary development (e.g. building better water pump for developing world)
  - ❖ Supplying or distributing existing products
  - ❖ Commercial implementation or deployment



# We Need Your Help



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## *Identify IEEE Volunteers involved in Sustainable Development Activities*

- ❖ Survey Region, Section and Society Chapter Members
  - ❖ Identify those leading local or other IEEE community development activities
  - ❖ Identify those involved in local or other non-IEEE community development activities
  - ❖ Identify those interested in Sustainable Development volunteer opportunities

## *Recognize contribution of IEEE Volunteers and identify their needs*

- ❖ Recognize volunteers supporting communities to leverage technology
- ❖ Showcase success stories, good practices & lessons learnt across and beyond IEEE

## *Support for Sustainable Development Activities at Region & Section Level*

- ❖ Establish and strengthen capacity of Region 8 and Section level Sustainable Development Coordination Support Teams
- ❖ Identify local opportunities for IEEE and non-IEEE Volunteer collaboration
- ❖ Inform support by identifying training and educational requirements



# For more information

## ❖ Volunteer Lead

❖ Paul M Cunningham, HAC Chair, [pcunningham@ieee.org](mailto:pcunningham@ieee.org)

## ❖ Staff Lead

❖ Holly Schneider Brown, [h.s.brown@ieee.org](mailto:h.s.brown@ieee.org)

*Access HAC, IEEE SIGHT and other IEEE H&P Opportunities*



[www.ieee.org/doing-good](http://www.ieee.org/doing-good)

