



Humanitarian Activities
Committee

IEEE SIGHT

Special Interest Group on
Humanitarian Technology



IEEE Humanitarian Activities and Region 8 Partnership

Sampathkumar Veeraraghavan

2021 - 2022 Global Chair, IEEE Humanitarian Activities Committee

R8 Meeting, 15 Oct 2022, Cairo, Egypt



Introduction to IEEE HAC|SIGHT

Inspiring and Enabling IEEE Volunteers to Carry Out Impactful Humanitarian Technology Activities

What is IEEE HAC?

The IEEE Humanitarian Activities Committee (HAC) provides leadership as well as a suite of resources that inspire and enable IEEE volunteers around the world to carry out and support impactful humanitarian technology and sustainable development activities at the local level.



IEEE HAC Strategic Areas of Focus



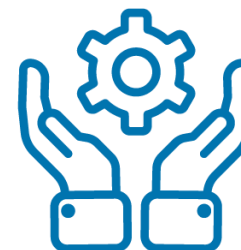
Raising Awareness

HAC increases understanding of the role of engineering and technology in sustainable development.



Providing Training

HAC provides educational resources and opportunities so that humanitarian technology participants can have a greater positive impact.



Supporting humanitarian technology and sustainable development activities

HAC awards funding for grassroots IEEE member projects that utilize technology to address local challenges.



Building a sustainable development community

HAC collaborates across and beyond IEEE to foster opportunities in sustainable development.

hac.ieee.org

IEEE Special Interest Group on Humanitarian Technology (SIGHT)

Creating a global network of technically-trained individuals

SIGHT's global network of IEEE volunteers partner with underserved communities and local organizations to leverage technology for sustainable development.

- There are more than **31,000+ individual SIGHT members in 130 countries** - approximately 66% are students or graduate students.
- SIGHT encourages members to form Groups to **learn** about sustainable development, **build** relationships within their local communities, and **implement** projects that utilize technology to tackle key challenges the community is facing.
- Since SIGHT's inception in 2011, **210 SIGHT Groups** have been established in **54 countries**. **Thirty one** of the Groups are in Region 8.

sight.ieee.org

IEEE SIGHT
Special Interest Group on
Humanitarian Technology

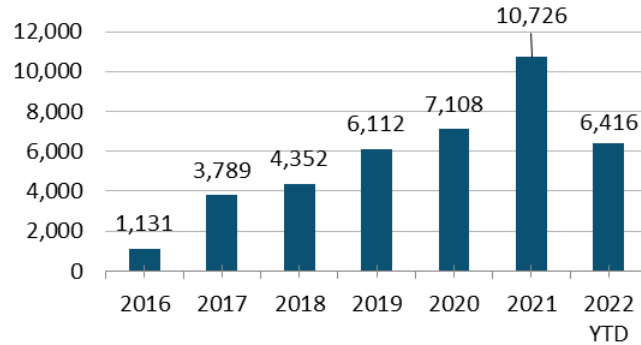


IEEE SIGHT Global Network

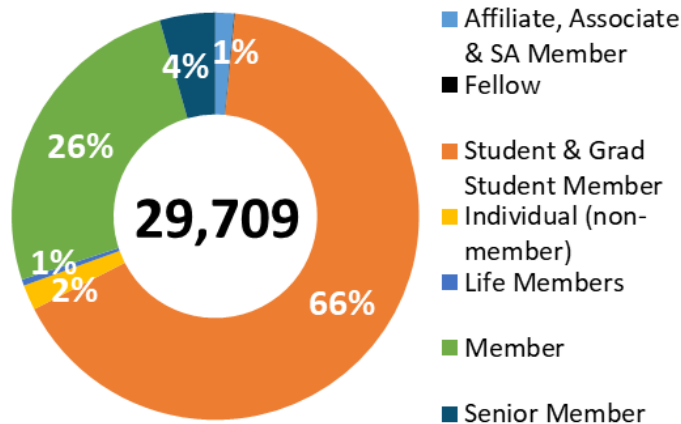


SIGHT Membership – Indicators of Engagement and Growth

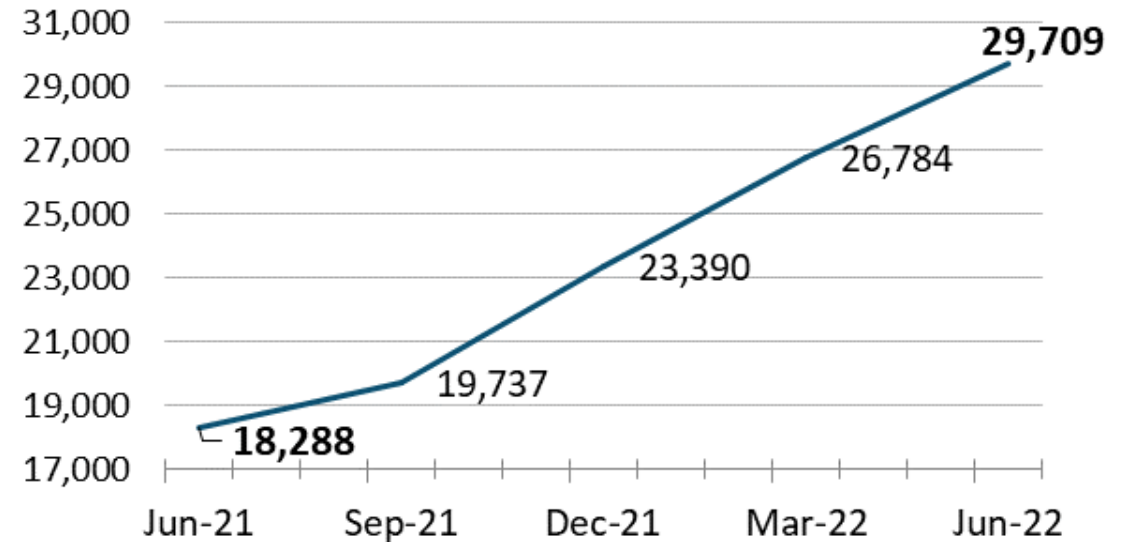
New SIGHT Members by Year



SIGHT Members by IEEE Grade



SIGHT Membership Growth Year over Year (2021-2022)



IEEE HAC Collaboration Efforts in 2022



IEEE Antennas and Propagation Society



HAC/SIGHT Public Visibility and Awareness Raising Work in 2022



Humanitarian Activities Committee

- HAC started the year on a high note with the [2021 IEEE HAC Annual Report](#) and the [HAC/SIGHT Success Story Portfolio](#), publications that demonstrate the record-breaking growth and portfolio of programs offered in 2021. HAC plans to produce both documents again in 2022.
- IEEE Institute published an article on HAC's work in 2021 - "[IEEE Humanitarian Program Sees Record Growth](#)." The article provides visibility on the impactful work of HAC in 2021 despite the continuing challenges of the pandemic.
- HAC delivered the general session "Increasing Value Delivered to Members and OUs through IEEE HAC/SIGHT" at the IEEE Board of Directors February meeting series.
- IEEE SIGHT Day, held on 28 April, included an opening session with 2022 IEEE President Ray Liu – "[Humanitarian Technology at IEEE, Your Professional Home](#)."
- IEEE HAC hosted a side event to the [United Nations Conference of States Parties to the Convention on the Rights of Persons with Disabilities \(COSP15\)](#) - "Leveraging a Global Network of Technologists to Advance Assistive Technologies/Innovations in Serving Local Communities."

IEEE SIGHT
IEEE SIGHT Day 2022 Session:
Humanitarian Technology at IEEE,
Your Professional Home
DATE: 25 April 2022 **TIME:** 10:00am-11:00am EDT (UTC-4:00)

Speakers:
Dr. Ray Liu, 2022 IEEE President & CEO
Mr. Lwanga Herbert, 2021 – 2022 IEEE SIGHT Steering Committee Chair

Host: Mr. Sampathkumar Veeraraghavan, 2021 – 2022 IEEE Humanitarian Activities Committee (HAC) Chair

IEEE
Advancing Technology for Humanity

IEEE
Humanitarian Activities Committee

Conference of States Parties to the Convention on the Rights of Persons with Disabilities (COSP15)
side event hosted by the
IEEE Humanitarian Activities Committee (HAC)

Leveraging a Global Network of Technologists to Advance Assistive Technologies/Innovations in Serving Local Communities

Date: 17 June 2022

Speakers:
Mr. Sampathkumar Veeraraghavan, Chair, IEEE Humanitarian Activities Committee
Ms. Julianna Pichardo, Program Specialist, Humanitarian Activities & Sustainable Development

IEEE



IEEE HAC/SIGHT Projects Program & Educational Materials

IEEE HAC/SIGHT Projects Context & Approach



Humanitarian Activities
Committee

Historical Context

- Since 2013, IEEE HAC and SIGHT have provided funding to IEEE Members who implement **humanitarian technology and sustainable development projects** in their local communities.
- Funded projects address one or more of the UN Sustainable Development Goals (SDGs).
- From 2016 - 2021, HAC awarded **over US\$2.9M** to **421 projects and events**.
- In 2021, HAC received a record-breaking 385 project proposals from 45 countries and 7 IEEE Regions; 92 projects were awarded funding.
- As of 20 July 2022, HAC has already received 172 proposals this year.

Approach

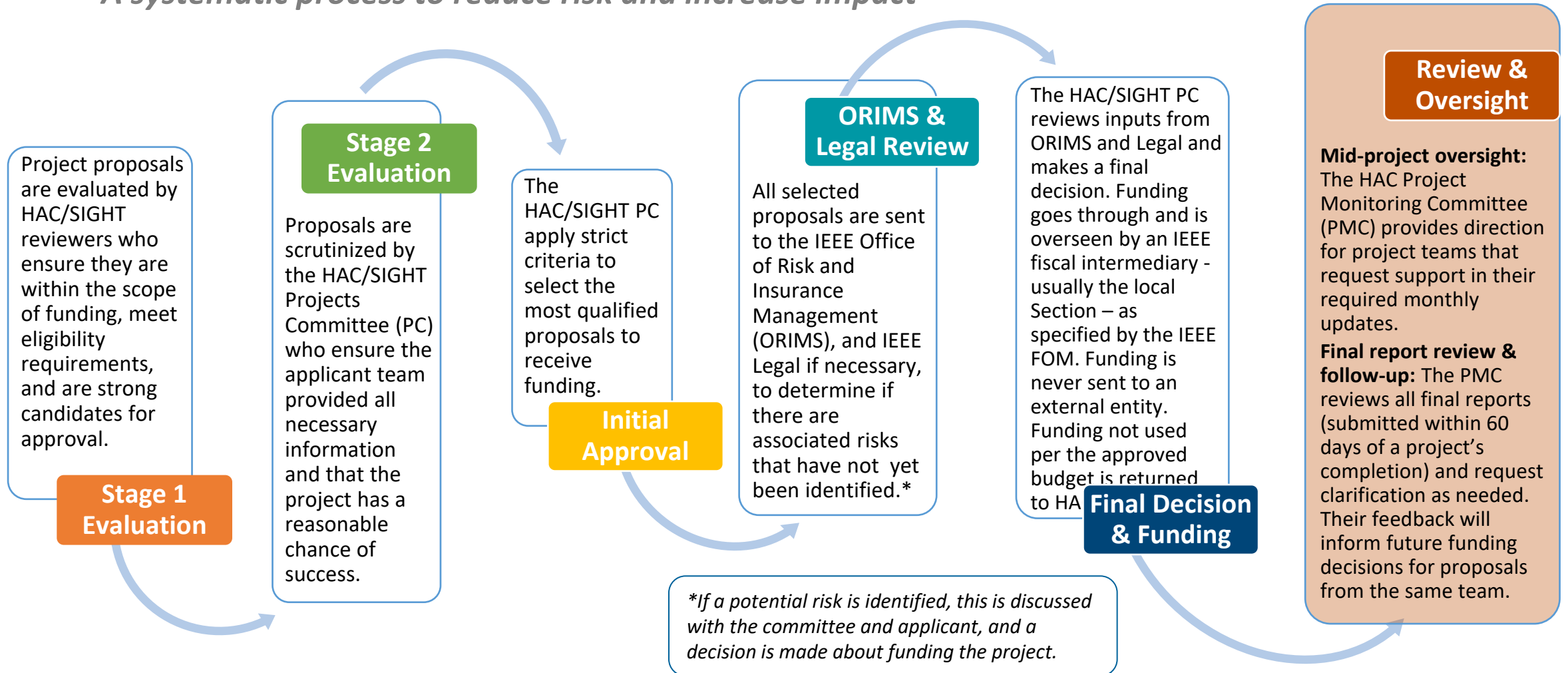
Funded projects must:

- **Have a technology component; projects cannot be solely humanitarian in nature**
- Focus on application/localization of technology, not the research and design of brand-new technology
- Address medium- to longer-term challenges - not immediate needs in a disaster
- Be locally-driven
- Be grassroots/bottom-up
- Have a connection to an existing IEEE organizational unit to act as the fiscal agent; **HAC/SIGHT Projects funding may only be transferred within the IEEE ecosystem**
- Submit regular reporting updates, which are reviewed by the HAC Project Monitoring Committee

Solutions have included sustainable power sources, clean water systems, telemedicine platforms, internet access, and many more.

HAC/SIGHT Project Management Process

A systematic process to reduce risk and increase impact

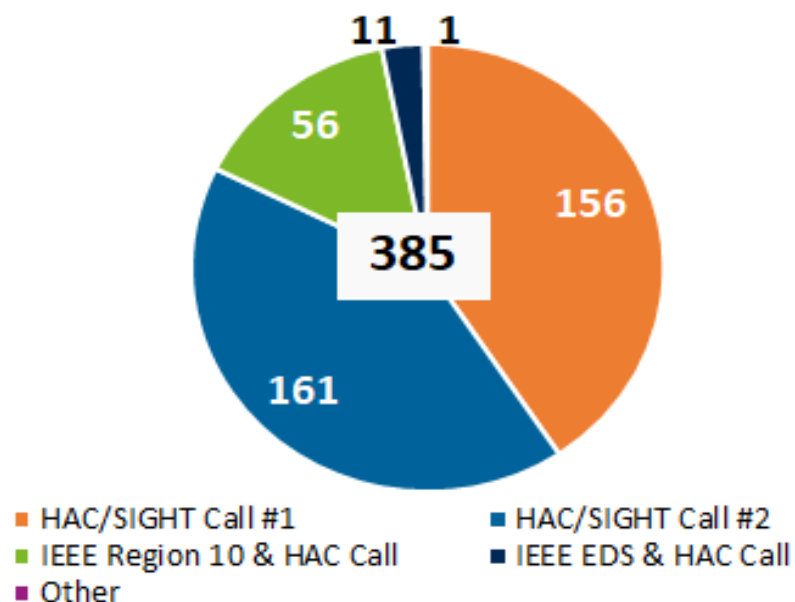


HAC/SIGHT Projects Program in 2021

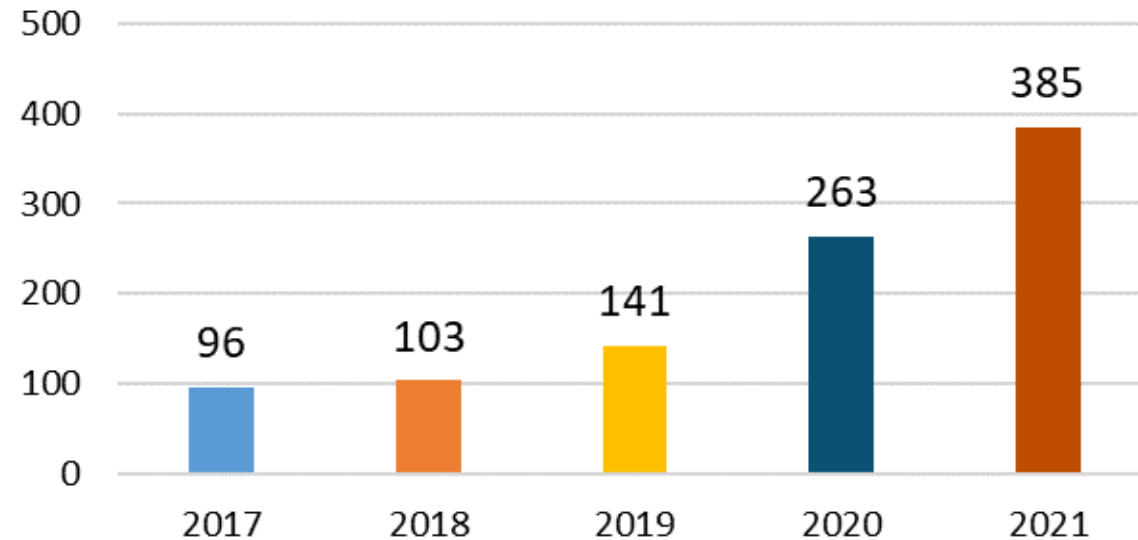
New heights for HAC/SIGHT Projects

- 385 project proposals from 45 countries and 7 of 10 IEEE Regions: 92 projects awarded funding.

**Total HAC Projects Proposals Received
2021 Year-to-Date***



**HAC & SIGHT Project Proposals
Received 2017-2021**



HAC Projects 2022

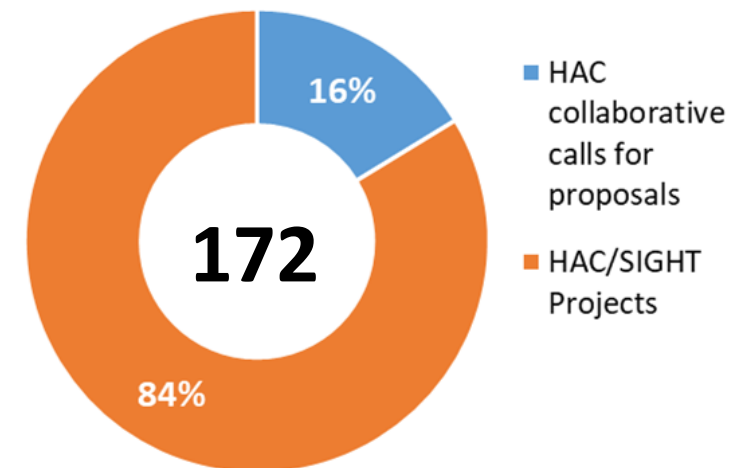
IEEE HAC/SIGHT Call for Proposals Focused on Pressing Community Needs

- Call to support to IEEE member grassroots projects that utilize technology to address pressing needs of the members' local communities
- 144 proposals submitted from 19 countries and five IEEE Regions
- Awards of between US\$1,000 and US\$5,000 per project
- Term of funding: Up to 6 months
- For the first time, HAC/SIGHT will collect data on project leader gender
- Updates made to project monitoring process and incorporation of new platform to capture aggregate data and institutional knowledge to inform strategic decision making

Collaborative Calls for Proposals with...

- The IEEE Antennas & Propagation Society (AP-S)
- The IEEE Signal Processing Society (SPS)
- IEEE Region 8

HAC Projects Proposals Received 2022 YTD



Complementary Educational Materials

HAC provides educational resources and opportunities so that humanitarian technology participants can have a greater positive impact.

- ▶ HAC/SIGHT have six free, online courses hosted on the IEEE Learning Network. The curriculum equips learners with a basic understanding of humanitarian technology and sustainable development, and how these concepts are different from aid, charity, and disaster relief. It outlines the need for holistic analysis of existing systems, instructs on the principles of community engagement, and covers the role of appropriate technology in sustainable development.
- ▶ Courses:
 - Introduction to Sustainable Development
 - Multidisciplinary Perspectives in Humanitarian and Sustainable Development Activities
 - Community Engagement in Sustainable Development Projects
 - Humanitarian Technology for Sustainable Development
 - Sustainable Project Design
 - Project Assessment, Monitoring and Evaluation
- ▶ HAC believes that learning about these topics will provide a strong foundation and will better prepare participants to conduct a sustainable development and humanitarian technology activity or project.

Additional Resources

- There are other resources available on the HAC website to help applicants write a strong proposal:
 - Proposal Complete Checklist. This is a resource to ensure that a proposal meets all the criteria to advance to the evaluation stage of the process.
 - A recorded Q&A is available on addressing the common pitfalls in completing the new Project Assessment Matrix.
 - Presentation on characteristics of a great proposal.
 - A training presentation was held for those interested in becoming HAC/SIGHT reviewers, but it is also helpful for applicants to learn what reviewers like to see in proposals.

Highlights of IEEE HAC/SIGHT and R8 partnerships



Looking Forward to More Successful Projects! Joint IEEE HAC Call for Proposals

- IEEE Region 8 (R8) and IEEE HAC hosted a [collaborative call for proposals](#) to support SIGHT Groups in R8 to implement community intervention projects and address local community challenges.
- Aim to support great initiatives and creative ideas on how to address challenges using technology in the local communities of R8 SIGHT Groups. Proposed projects have a sustainability plan, demonstrate community buy-in, and should be cost-effective, environmentally sustainable, trust-enhancing, relevant to users and the community, and accessible.
- Proposals submitted by six SIGHT Groups in six countries.
 - 2021: 20 from all CfPs (22% of funded projects)
 - 2022 YTD: 14 from HAC CfP, 5 from R8/HAC CfP

The graphic is a promotional poster for a call for proposals. It features a dark blue header with the text 'Call for Proposals for Community Intervention Projects'. Below this, the text 'IEEE Region 8 and IEEE HAC' is displayed in a light blue font. A central graphic shows a blue square containing a white icon of a document with a checkmark and a plug, connected by lines to four smaller colored squares (purple, green, blue, and orange) arranged around it. Below this graphic, the text 'Submission Deadline 30 June 2022' is written in orange. At the bottom, there are two logos: 'IEEE Region 8' with a map of Africa and 'IEEE Humanitarian Activities Committee'. An orange button with the text 'Learn More' is located at the bottom right.

Call for Proposals for
Community Intervention Projects

IEEE Region 8 and IEEE HAC

Submission Deadline
30 June 2022

IEEE Region 8

IEEE Humanitarian Activities Committee

Learn More

HAC Capacity Building workshops and Events support

- 1) Power Africa 2022
- 2) Nigercon22
- 3) Region 8 Student Young professional congress
- 4) Region 8 HAC congress
- 5) Africa summit
- 6) HAC capacity building workshops in leading R8 events





Opportunities with HAC/SIGHT

MEMBERS

- **Add** free [SIGHT membership](#) to your IEEE membership
- **Take part** in the free, online courses on humanitarian technology and sustainable development topics on the [IEEE Learning Network \(ILN\)](#)
- **Form** [a SIGHT Group](#) to assess needs in your local community, apply for financial resources, and implement a sustainable technological solution
- **Submit** your project to the upcoming HAC/SIGHT [Call for Proposals](#)
- **Donate** to the IEEE SIGHT Fund of the IEEE Foundation. Your contribution of any amount helps HAC/SIGHT transform the lives of individuals and communities around the world

OUs

- **Identify** potential opportunities for collaboration and joint programs
- **Publicize** HAC/SIGHT opportunities, such as the upcoming [Call for Proposals](#)
- **Sponsor or Present** at the 2022 IEEE HAC Global Summit



Talk to us!
Reach out at
hac-office@ieee.org

Questions?

Websites and Contact Information



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hac.ieee.org

IEEE SIGHT

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Write to us at hac-office@ieee.org

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