



*Abdullateef Aliyu – Chair, IEEE Smart Village - Africa Working group
Vice President, IEEE Smart Village*

IEEE Smart Village Africa Working Group (AWG) Journey thus far

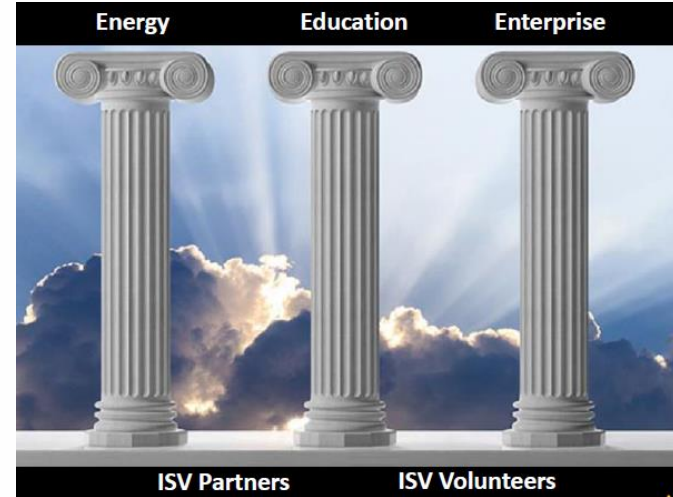
IEEE Smart Village

Systematic Solutions for Empowering a Community.

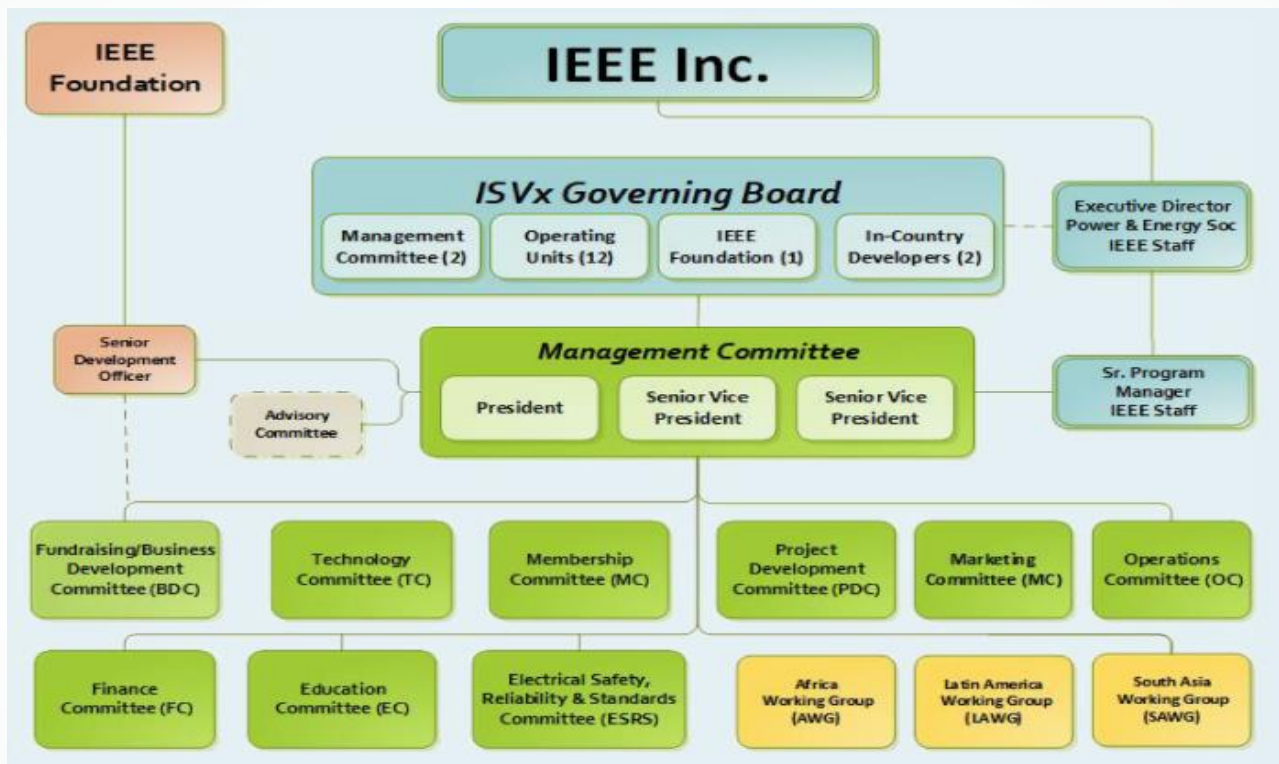
We fund community-Connected entities:

- ❑ To provide energy, education and enterprise
- ❑ We mentor/monitor them
- ❑ We encourage them to think big:

Grow beyond our funding to serve a million people in underserved areas



ISV – Organization Chart



Revised October 23, 2020

ISV-Beyond the 3 Pillars



IEEE has **423,000+** members across 39
Technical Societies in 160 countries.

Rotary has:

1.2 million Rotarians across
35,000 member clubs worldwide.
250,000 young Rotoract members
in 10,900 clubs worldwide

Both organizations are committed to
advancing the welfare for people of every
nation, faith, tribe, race and gender.



This Certifies that the Rotary Club of

Silicon Valley Smart Village, California, USA

having been duly organized and having agreed, through its officers and members,
to be bound by the Constitution and Bylaws of Rotary International, which agreement
is evidenced by the acceptance of this certificate, is now a duly admitted member of

ROTARY INTERNATIONAL

and is entitled to all the rights and privileges of such membership.

In witness whereof the signatures of its officers, being duly authorized,
are subscribed hereto this **15 June 2020**

Admission to membership in Rotary International recommended by



Ramesh Hariharan

District Governor

Rishi Malaviya
President, Rotary International

Focus Areas

Rotary Focus Areas



Promoting peace



Providing clean water, sanitation,
and hygiene



Saving mothers and children



Supporting education



Fighting disease



Growing local economies



Environment

Supported By

IEEE Smart Village Technologies

Reliable Electricity



Telecomms & Internet



Computers



Electric Transportation



AI – Virtual Reality Instructors



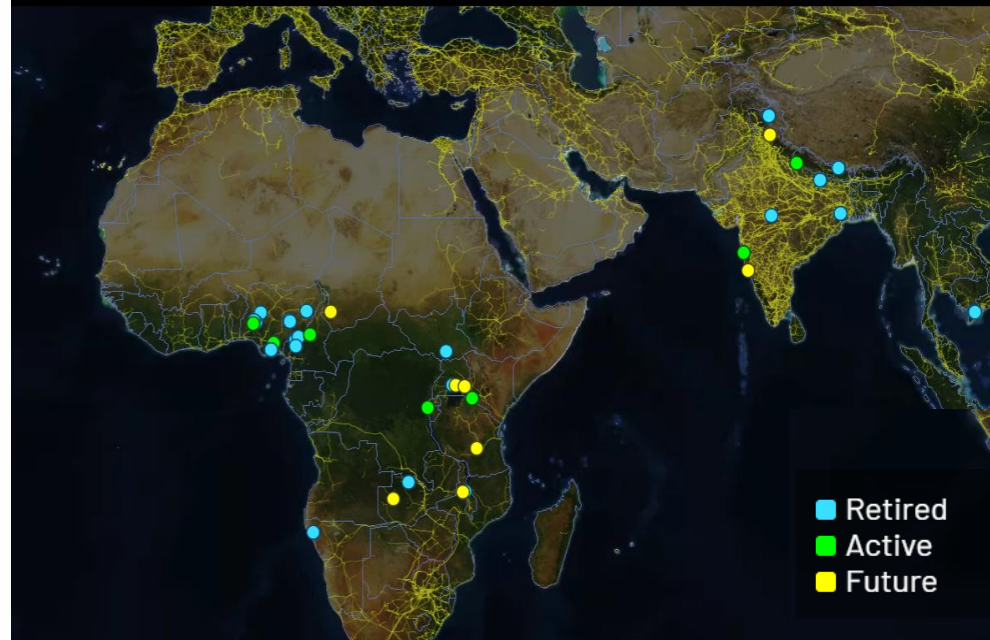
ISV – Regions AWG, LAWG, SAWG & CWG

Mission

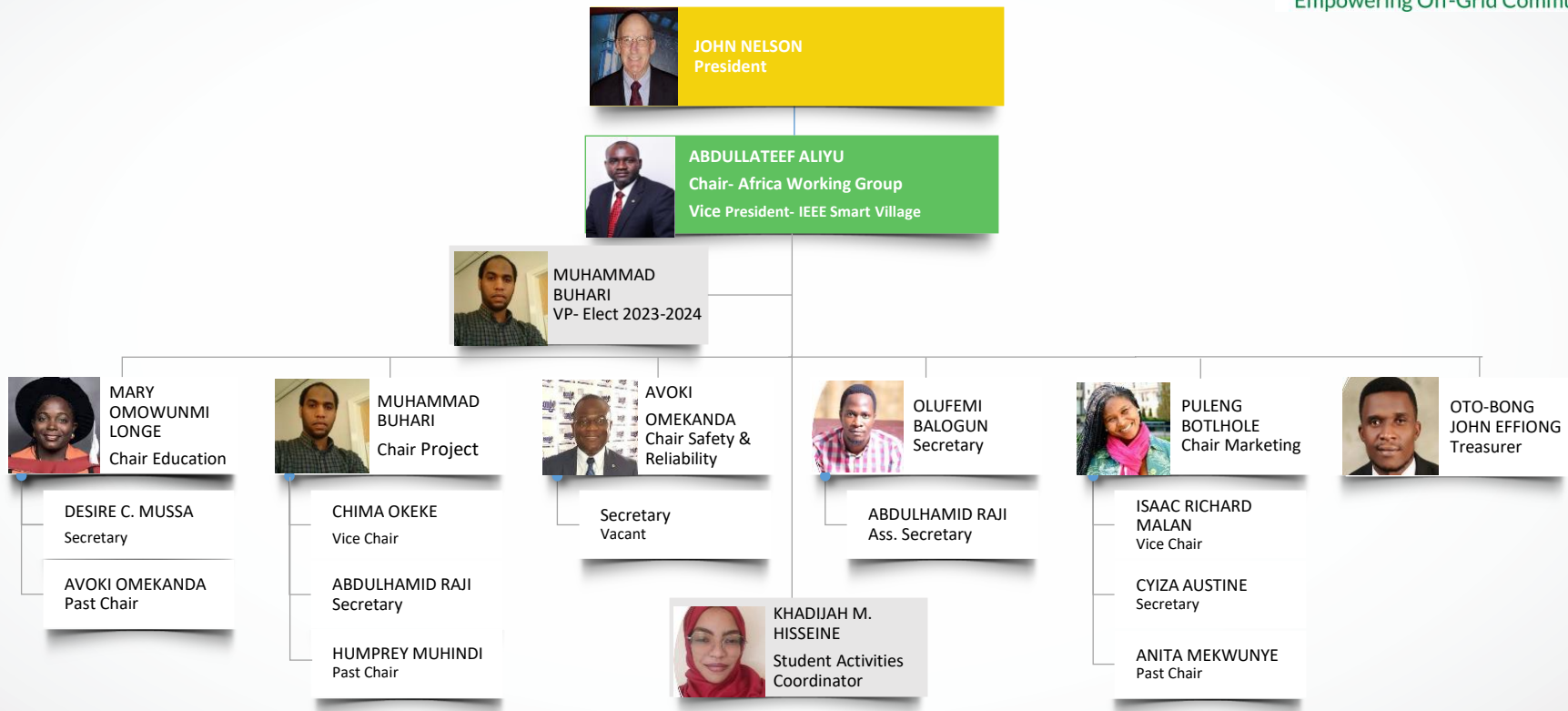
Decentralize ISV to provide local representation, local project support, and local promotion of ISV goals and opportunities

Vision

Promote and vet regional projects, expand ISV within the region and develop ISV Student Chapters in each technical university in the region in such a way that all people enjoy equal access to electricity, education, and entrepreneurship opportunities for themselves and others.



AWG Organization Chart



7 Regional Working Group Mandate



Develop a good cross section of African representation



Set up ISV student branches in all African Technical Universities



Develop working solar model with each student branch for hands on experience



Support African Projects and be available to travel to various sites on an annual basis



Support IEEE Power Africa conferences



Create and Propose new ISV projects in Africa



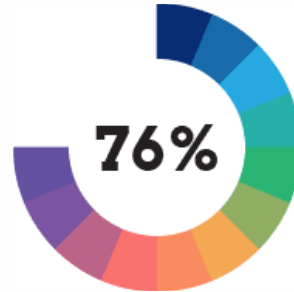
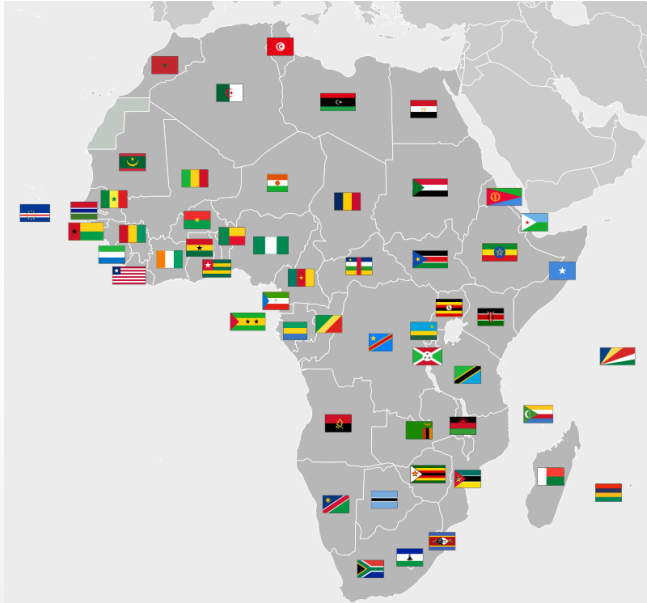
Increase participation of females in ISV & IEEE in Africa



Inaugurated in October - 2020

Mandate 1- Africa Representatives

- ISV representation is now in 41 Countries out of 54 on the continent
- Newly added countries Burkina Faso, Niger, Gambia, Lesotho, and Togo
- Other countries out of Africa in the group – UAE, Spain, Australia, Norway, Iraq



13 more countries to reach

Djibouti
Seychelles
Comoros
Cabo Verde
Mauritania
Eritrea
Gabon
Sao Tome & Principe
Mali
Guinea-Bissau
Somalia
Equatorial Guinea
Burundi

Mandate 2- ISV Student Chapters-in Technical Universities

Vision -Set Up the Next Generation of renewable Entrepreneurs and Innovators in Africa

S/N	Name	Location	Country	#Members	Status	Project
1	University of Johannesburg (UJ)	Johannesburg	South Africa	107	Active	E-Mobility projects
2	Bayero University Kano (BUK)	Kano	Nigeria	100	Active	Solar Bicycle
3	Nile University	Abuja	Nigeria	15	Active	Campus Mobility
4	Baze University	Abuja	Nigeria	20	Active	TBD
5	Skyline University Kano	Kano	Nigeria	25	Onboard	TBD
6	Uganda Technology and Management University (UTAMU)	Kampala	Uganda	12	Onboard	TBD



University of Johannesburg SB Displaying ISV Swag

The goal is to start with 6 pilot student chapters

Mandate 3- Working Solar Model with SB

University of Johannesburg – E-Mobility projects

Bayero University – Solar Bicycle

- ☐ SME on e-Mobility assigned to mentor the students
- ☐ Conference opportunity provided for students to learn
- ☐ Seed Fund to developed working prototype
- ☐ Train on commercialization
- ☐ Meet the Entrepreneur Competition (ETC)



Source: Rediff.com

Mandate 4- support African Projects

Several Project are currently been executed and support by the Working group:

- ❑ Global Telehealth project
- ❑ Renewable Energy Innovators Cameroon **Plot** for USDA Funds
- ❑ Gaba-Kaduna SunBlazer Field Test –SNL
- ❑ 1000 Hills Honey Enterprise Dairy Proc.
- ❑ SVSV Rotary IAV COVID Tele-health Pilot
- ❑ The Maa Trust
- ❑ Regis University
- ❑ Akpoku & Ozuzu Offgrid Electrification
- ❑ Social Lite Lighting System
- ❑ Global Telehealth Project
- ❑ KSV Women's Gemstone Training - Zambia
- ❑ The Natoot Farm Upscale Project - Kenya
- ❑ Omupo Electricity for Water and Women Rice Producers' Support - Nigeria

11 KW SunBlazer IV Powering TMT Vocational Training Center



Mandate 5- Support the PAC Conferences

- ☐ Supported the conference with volunteers
- ☐ Plan the ISV Session during the Conference
- ☐ Articles in Empower newsletter to support participation
- ☐ Volunteers supporting strongly the LOC
- ☐ Student Paper Contest
- ☐ Scholarship Award
- ☐ Meet the Entrepreneur Competition
- ☐ Technical Programs
- ☐ Publicity
- ☐ Tutorials
- ☐ Lesson Learnt
- ☐ Next Power Africa will be in Oct - **Morocco 2022**



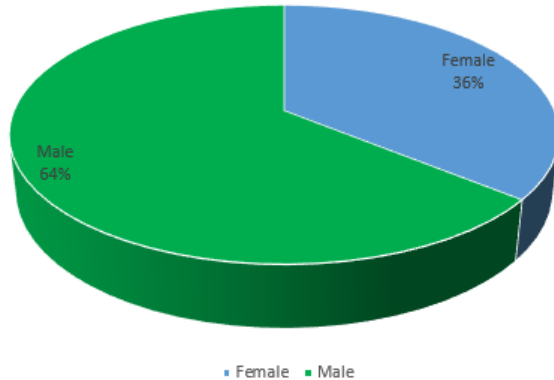
Mandate 6- Create and propose new ISV projects in Africa

- Kenz Pack – Egypt
- STEM Activities for Future Engineers
- RDO-Honey Farm in Tanzania
- Social Lite Lighting - Ghana
- Furuna mini – Grid in Kaduna
- eScooter – Egypt/ Nigeria



Mandate 7- Increase participation of females in ISV & IEEE in Africa

- About 500+ Registers Volunteers
- High level of female Participation
- Actively involve with AWG Operation





Nile University



IEEE Industrial Electronics Society



IEEE smart village™
Power a Village, Empower Community

RENEWABLE ENERGY Workshop

2-day workshop targeted to train next-generation of female energy entrepreneurs

 Nile University, Cairo

 18-19 October, 2022

Facilitators



Irene Samy
Professor- Nile University,
Cairo Egypt



Morgan Kiani
Professor- University of
Texas at Arlington



Dr. Muhammad Buhari
Head of Solar Systems
Research, Bayero University



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Village (AWG)



Thank You!

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