

Introducing IEC and IEC-AFRC

Pierre Selva

Symposium Fisuel – Maroc – 11 & 12 Mai 2016

Fisuel Symposium – Morocco – 11th & 12th of May, 2016



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Pierre Selva
IECEE Treasurer

Fisuel General Assembly
Morocco, May 2016



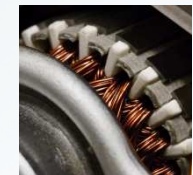
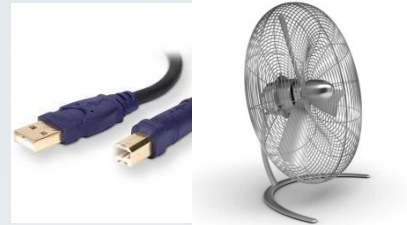
Scope of the IEC

Energy generation and the millions of devices and systems that use or produce electricity and contain electronics.



100 years of experience

Founded in 1906 to promote international co-operation on all questions of standardization and related matters in the field of Electrotechnology



...the IEC makes electrotechnology work for you!



“made in the world”

- **Economies are highly interdependent**
- **Electrical and electronic goods are built in the world**
- **IEC International Standards = countries and companies can participate in global value chains**



A highly strategic tool

- **Standardization strategy belongs at the highest level**
- **Quality management depends on Standards and conformity assessment**
- **Significant market advantages**
- **Direct impact on revenue**



Direct impact on sales

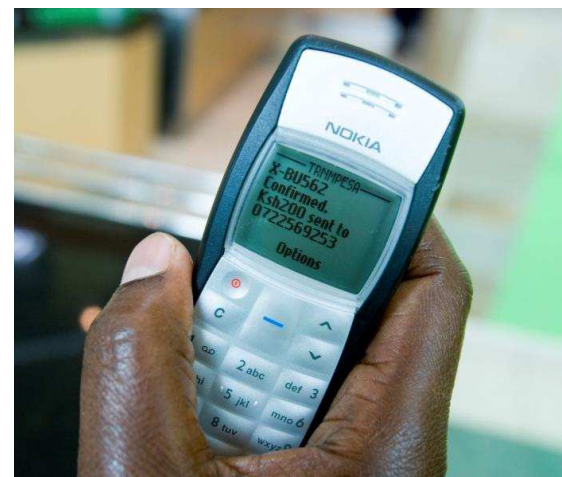
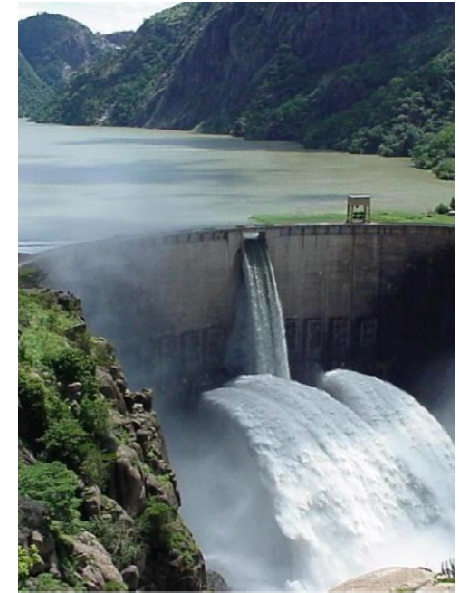
- Ability to sell = need to demonstrate conformity
- Standards are fundamental for conformity assessment
- Stimulate quality and competition
- Grow markets
- Faster time to market





THE GLOBAL GOALS
For Sustainable Development

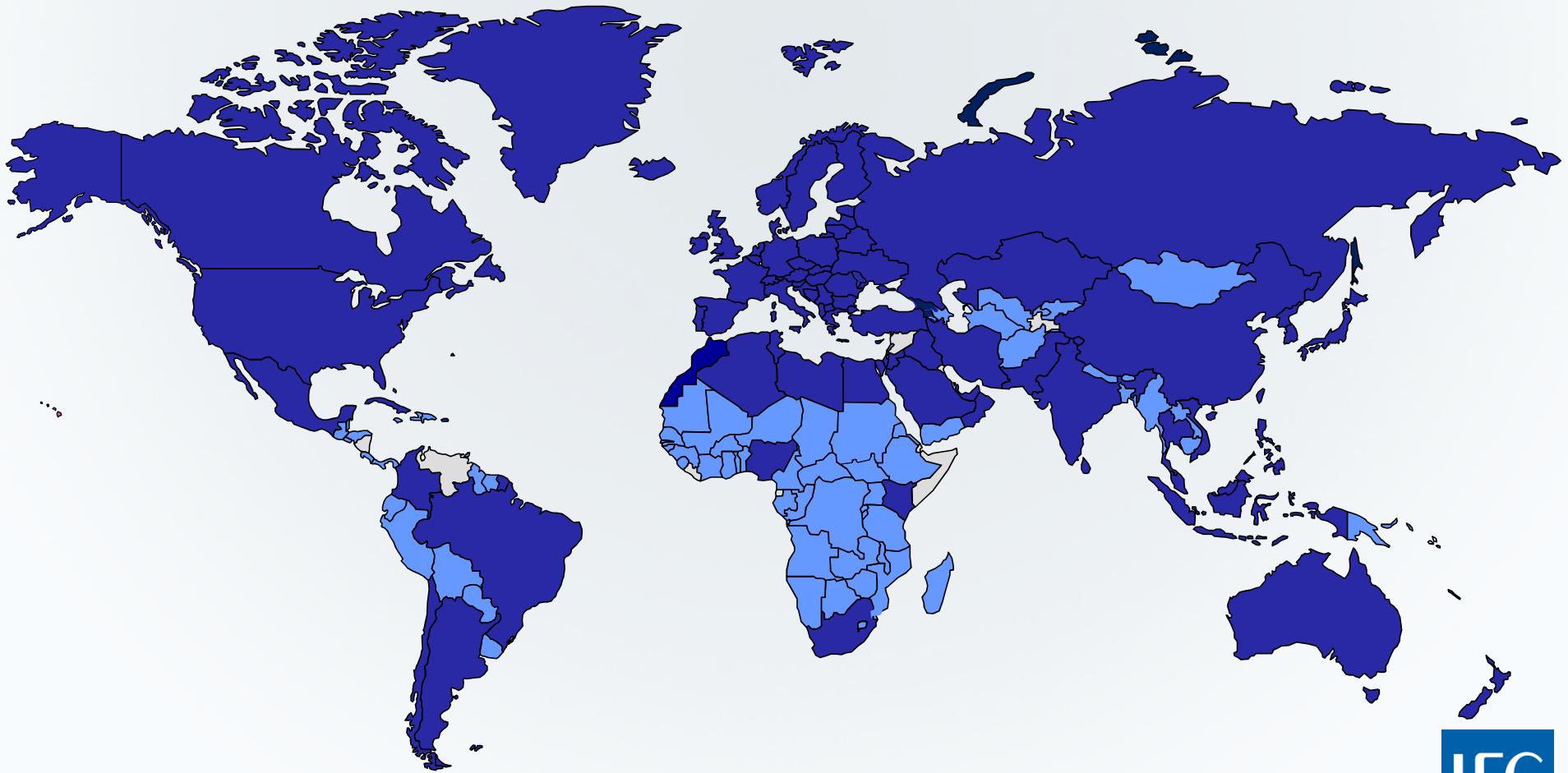
SDG 7 Energy = core to IEC



IEC Family: 167 countries

83 Members

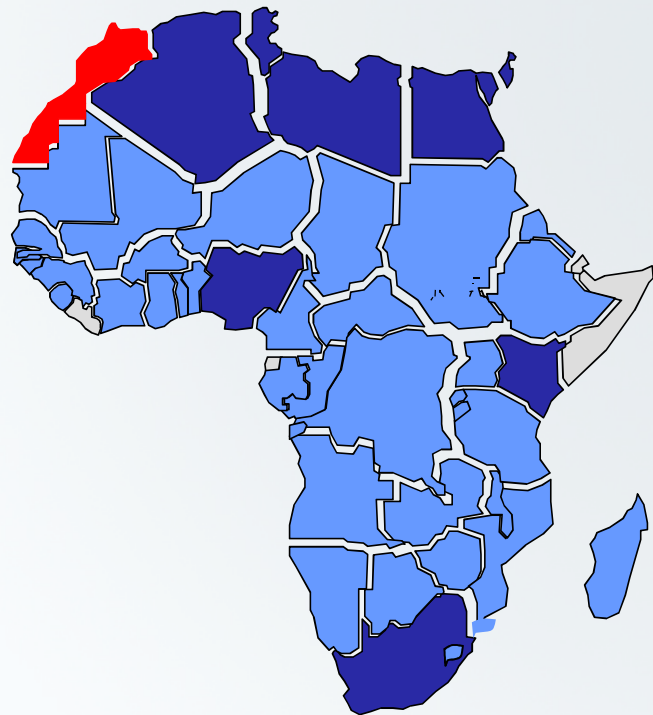
84 Affiliates



IEC Family: 167 countries

83 Members

84 Affiliates



IEC National Committee (NC)



IEC National Committee of Morocco
COMELEC
Ministère de l'Industrie, du Commerce et des Nouvelles Technologies
Direction de la Qualité et la Surveillance du Marché
Angle Avenue Kamal Zebdi et Rue dadi
Secteur 21 Hay Riyad
MA-10100 Rabat
Morocco

President

Mr Youssef Tagmouti

Secretary

Mr Abderrahim Taibi

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Website [🌐 imanor.ma](#)



Who we are :
Global knowledge platform

20 000 experts

212 Technical Fields (SC/TC)

1 450 working groups

Over 9 000 standards

Over 1 000 000 certificates



The background of the slide features a close-up, low-angle shot of several classical columns. The columns are made of light-colored stone or marble and have a fluted design. The lighting is warm, creating soft shadows and highlights on the columns' surfaces. The perspective is from a low angle, looking up at the columns, which emphasizes their height and grandeur.

**Standards
development**

**Conformity
Assessment
activities**





Like two sides of a coin

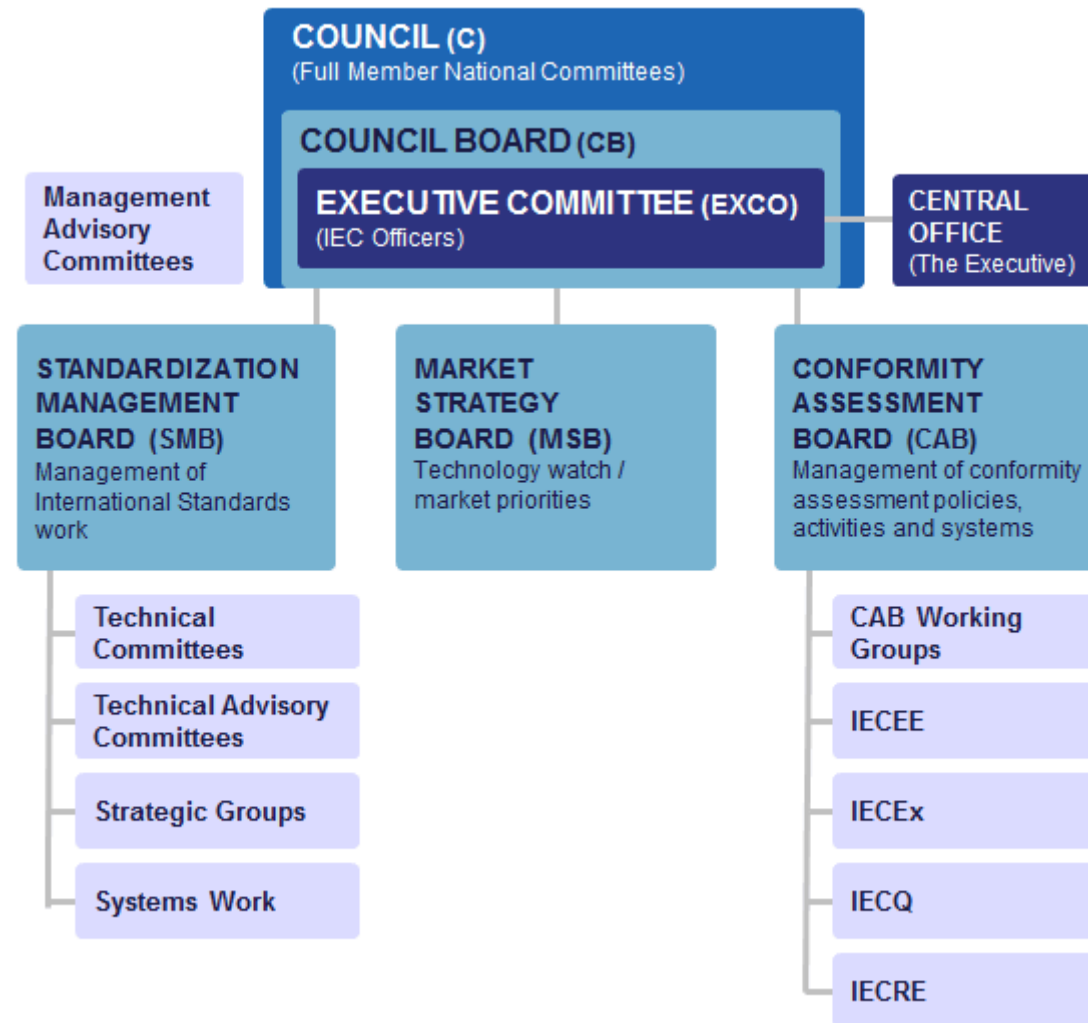
Standards = knowledge

Conformity Assessment = application of knowledge

**Standards +
Conformity Assessment = Value**



IEC Organigramme





CAB - Conformity Assessment Board

IECEE

System of
Conformity
Assessment
Schemes for
Electrotechnical
Equipment and
Components

IECEX

System for
Certification to
Standards
Relating to
Equipment for
use in Explosive
Atmospheres

IECQ

Quality
Assessment
System for
Electronic
Components

IEC RE

IEC General System for
Certification to
Standards relating to
plant, equipment and
services associated with
Renewable Energy
Systems

IEC Wind
Energy Scheme

IEC Solar
Energy Scheme

IEC Marine
Energy Scheme

IECEE

System for conformity assessment schemes for electrotechnical equipment and components



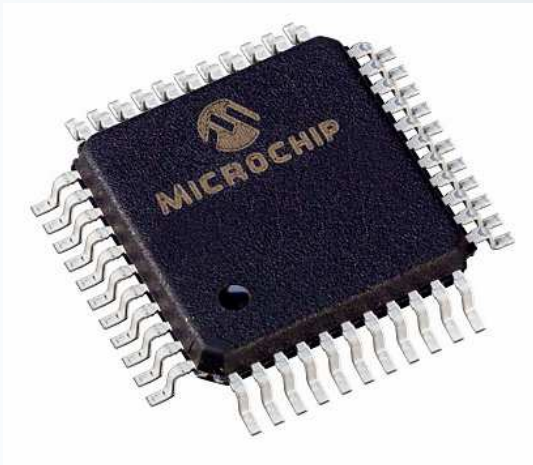
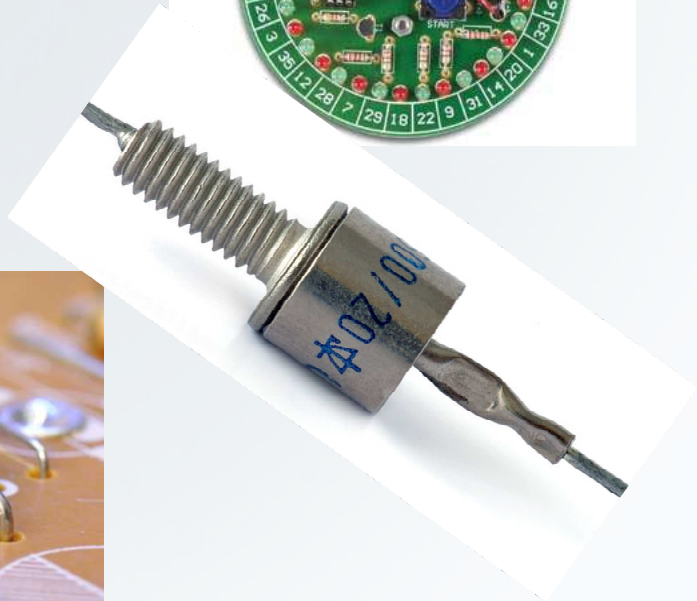
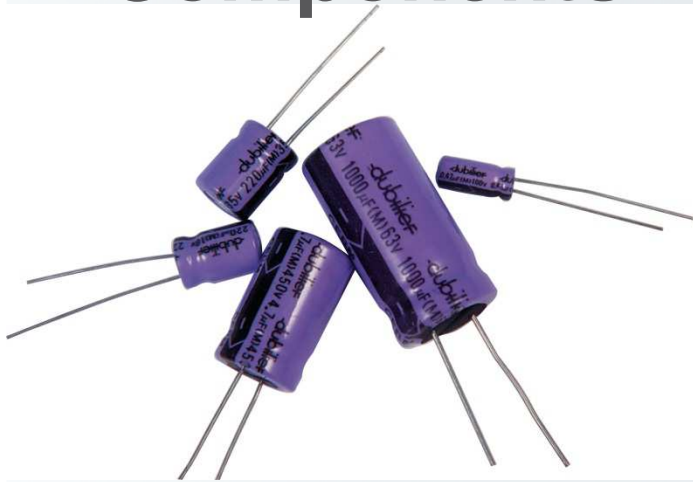
IECEx

Worldwide system for certification to standards relating to equipment for use in explosive atmospheres



IECQ

Quality Assessment System for Electronic Components



IECRE

IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications





electrical safety
=
key issue for
develoopping countries

84 Affiliates and potential

AMERICAS

Antigua & Barbuda
Bahamas
Barbados
Belize
Bolivia
Costa Rica
Dominica
Dominican Republic
Ecuador
El Salvador
Grenada
Guatemala
Guyana
Haiti
Honduras
Jamaica
Panama
Paraguay
Peru
Saint Kitts & Nevis
Saint Lucia
St Vincent & the Grenadines
Suriname
Trinidad & Tobago
Uruguay

AFRICA

Angola
Benin
Botswana
Burkina Faso
Burundi
Cabo Verde
Cameroon
Central African Rep.
Chad
Comoros
Congo
Côte d'Ivoire
DRC Congo
Djibouti
Eritrea
Ethiopia
Gabon
Gambia
Ghana
Guinea
Guinea Bissau
Equatorial Guinea
Lesotho

Liberia
Madagascar
Malawi
Mali
Mauritania
Mauritius
Mozambique
Namibia
Niger
Rwanda
Senegal
Seychelles
Sierra Leone
Somalia
South Sudan
Sudan
Swaziland
Tanzania
Togo
Uganda
Zambia
Zimbabwe

ASIA

Afghanistan
Armenia
Azerbaijan
Bangladesh
Bhutan
Kyrgyzstan
Lebanon
Mongolia
Myanmar
Nepal
Palestine
Turkmenistan
Uzbekistan
Yemen

ASIA-PACIFIC

Brunei Darussalam
Cambodia
Fiji
Lao PDR
Papua New Guinea

Affiliate Conformity Assessment Status (ACAS)



ACAS package benefits

- Regional awareness events
- ACAS section on IEC Affiliate website
 - <http://www.iec.ch/affiliates/acas>
- Webinars (upon request)
- Access to online certificates
- Observer status at IEC CA System management meetings (based on prerequisite training conditions)

e-Learning modules



IEC Affiliates

IEC Programme for
developing countries

Affiliate Country list

Affiliate Country
Programme

Your participation

National adoptions

ACAS

General Meetings

Forum & Workshops

Facts & Figures

Contact

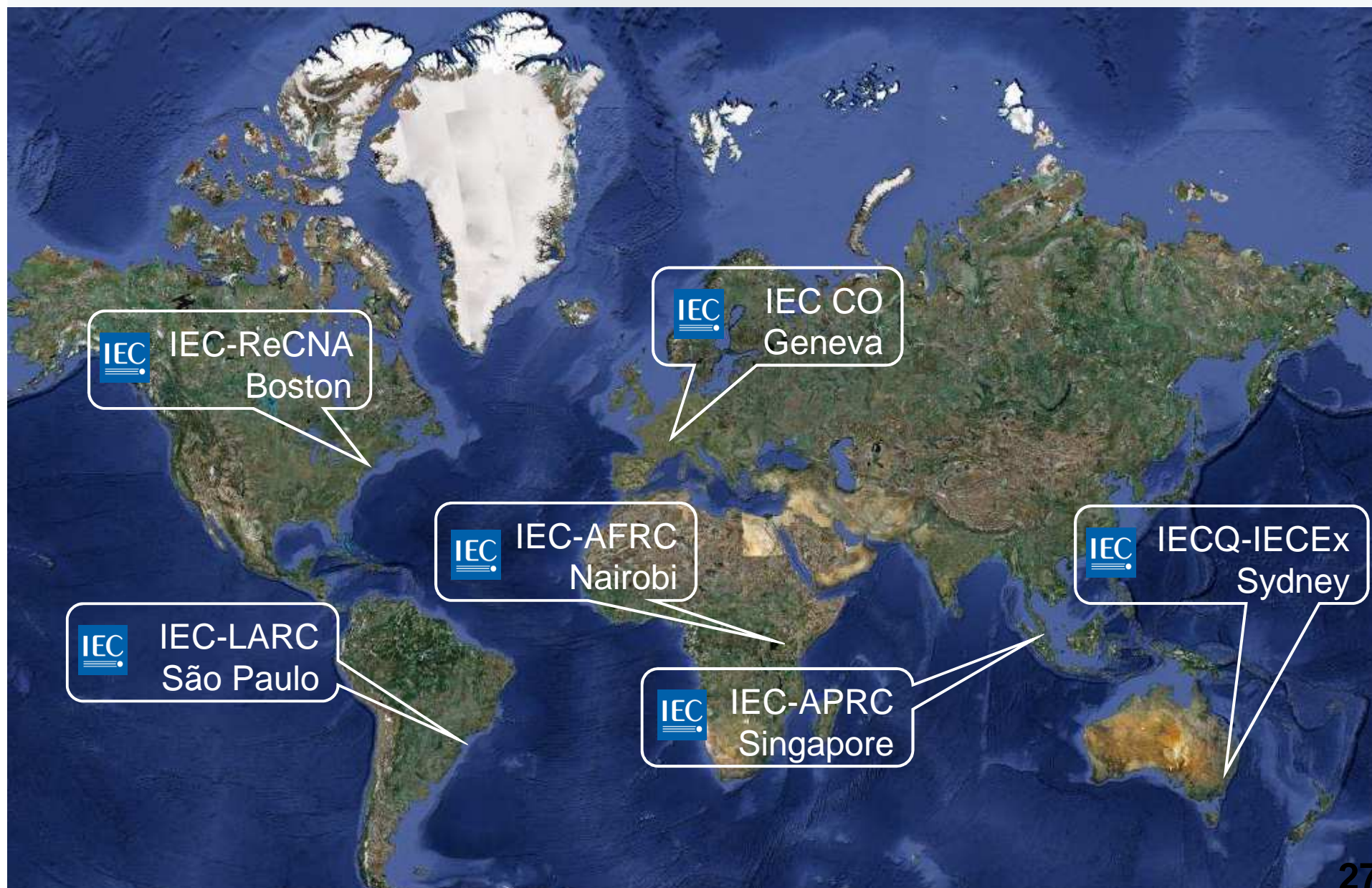
- **Level 0**
 - Introductory e-Learning modules
 - Available for all Affiliate participants with IEC login
- **Level 1**
 - Intermediate e-Learning modules
 - Available only for Affiliate participants nominated through the ACAS Pledge signed by their country
 - Short test at end of Level 1 for access to Level 2
- **Level 2**
 - Advanced e-Learning modules
 - Available for Affiliate participants who have passed the test for the previous levels, and whose country has signed the ACAS Declaration
 - At the end, participants will receive a "Recognition of Achievement" attesting that they have successfully completed an ACAS e-Learning course

Benefits of importing with the IEC Conformity Assessment Systems

Benefits for developing countries

- No need to develop a separate system of certification or approval
- The regulations of the countries can be simplified by requiring the conformity of the IEC ad hoc system
- Wider range of safe products

IEC offices



Situation of Africa

**Akinwumi Adesina,
President African
Development Bank:**

**“Africa cannot function
without power as it is
handicapping our growth
and development...”**

**“The lack of energy has put
brakes on Africa’s
industrialization...”**



reaching beyond borders

~~IM~~POSSIBLE

**biggest free think-
tank**

IEC-AFRC Inauguration

- 2nd November 2015
- Where ?
- Who ?
- Why?



IEC-AFRC team and location



7th Floor, Block One, Eden Square, Chiromo Road, Westlands

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00606 Nairobi, Kenya

Tel : + 254 20 367 3000
+ 254 20 375 2244

Mobile: +254 733 897 000
+254 704 937 806

Fax: +254 20 374 0913

Email: eod@iec.ch
fya@iec.ch



Evah Odour



François Ahoji

Mission

- As the regional focal point for Africa, the IEC Africa Regional Centre (IEC-AFRC) will provide training and assistance to African countries in adopting and using IEC International Standards and Conformity Assessment Systems.
- IEC-AFRC aims to motivate more African countries to participate in IEC work as a Member or participant in the Affiliate Country Programme.

Main Tasks

The main tasks of IEC-AFRC are to:

- ✓ provide training and technical assistance
- ✓ raise the awareness of IEC International Standards and the IEC Conformity Assessment Systems both among governments and of local industries
- ✓ provide a link between the global IEC and all African countries
- ✓ visit and support all IEC Members and Affiliate Country Programme participants in the region

Main Tasks

The main tasks of IEC-AFRC are to:

- ✓ work closely with the African Electrotechnical Standardization Commission (AFSEC), the African Union and all the other regional bodies that are important for African development
- ✓ involve more African countries at the governmental level in IEC work
- ✓ The ultimate aim of IEC-AFRC is to become a centre that helps coordinate IEC work like other Regional Centres

All of the above will be achieved by improved communications with businesses, industries and governments in the region

IEC-AFRC – Action plan 2016

January - March

- Visit to IEC members: Kenya, Nigeria, Egypt, Morocco, Tunisia
- Visit to IEC Affiliates: Gambia, Senegal, Côte d'Ivoire, Ghana and Burkina Faso
- Visit to ECOWAS and UEMOA Commissions
- Participation in Africa 2nd Smart Grid Forum in Egypt
- Participation in AFSEC General Assembly

IEC-AFRC – Action plan 2016

April - June

- Participation to Kenya NC national workshop (8th April 2016)
- Participation to ECOWAS TMC and Ministries meeting (10-15 April 2016 in Lomé)
- Participation to the 46th AIDMO - High Consultative Committee for Standardization Meeting Rabat 21-22 April 2016

IEC-AFRC – Action plan 2016

April - June

- Visit to IEC members: South Africa
- Visit to IEC Affiliates: Namibia, Botswana, Uganda, Rwanda, Burundi, Tanzania
- Participation in Utility Week in Cape Town
- Participation in ARSO General Assembly

Conclusion

- Important effort is made by IEC to involve all countries in its global standardization and conformity assessment activities.
- Participation in IEC standardization work by countries allows them to be actors and not only users
- IEC Conformity Assessment Systems facilitate trade and ensure electrical safety
- IEC- AFRC aims to help African countries to benefit fully from IEC work and will facilitate intra regional and international trade of electrotechnical products regard to WTO objectives
- IEC – through its Regional Centres – is available to support all countries and their different stakeholders in collaboration with the NCs and NECs

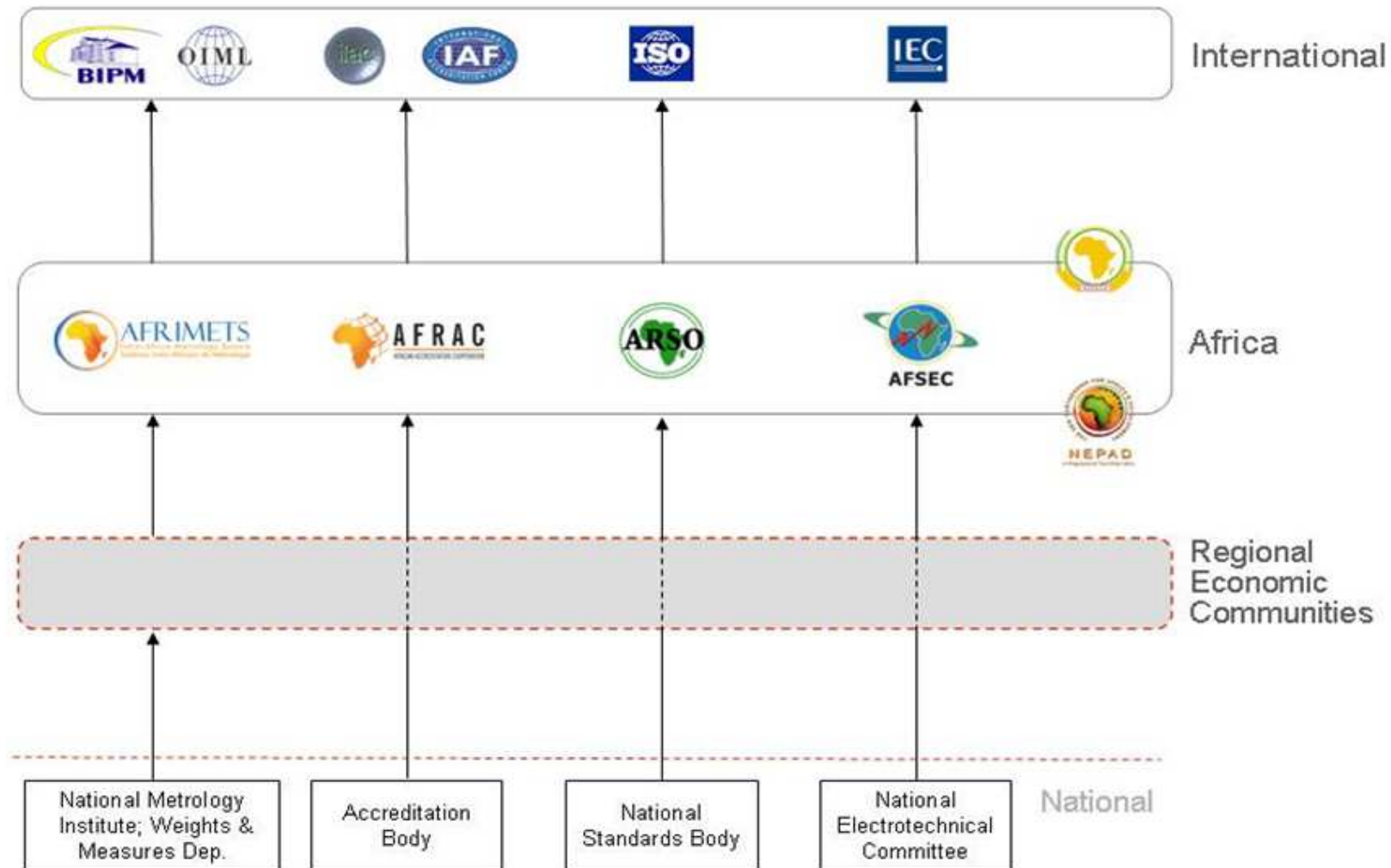


partnering with others:
25 Agreements and MoU
Liaisons with 156
organizations

CENELEC Dresden agreement:
~ 80+% aligned standards



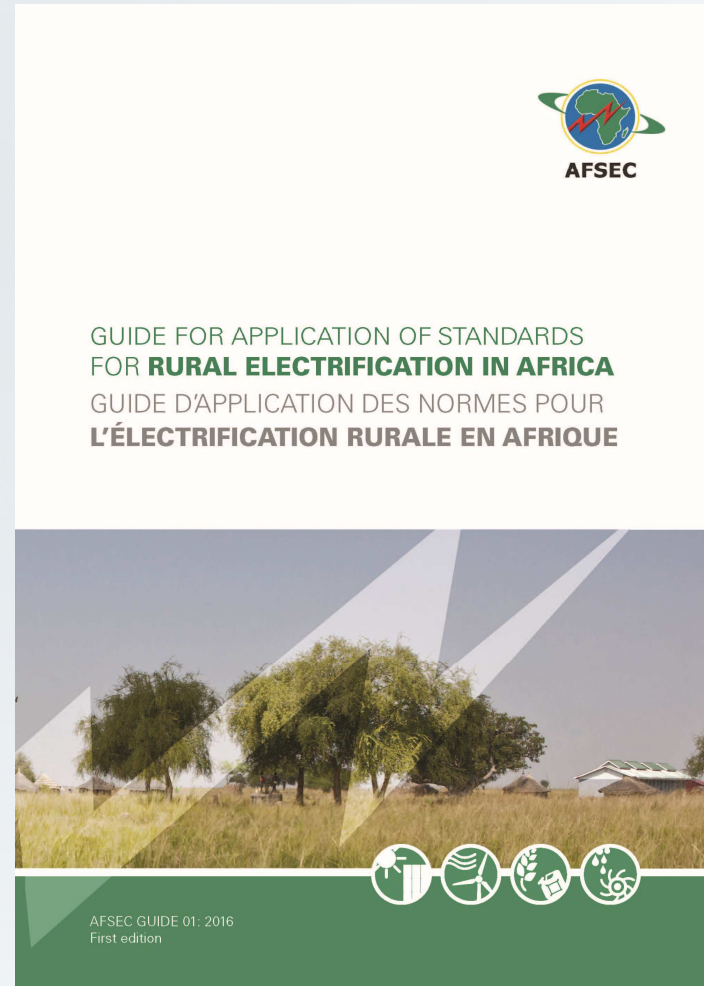
Pan African quality infrastructure



AFSEC-IEC collaboration

- An electrotechnical standardization commission in Africa (AFSEC)
- Statutory Members
 - Côte d'Ivoire, DRC, **Egypt**, Ghana, Kenya, Libya, Namibia, **Nigeria**, Rwanda, **Senegal**, South Africa, **Sudan**, Zambia
- Affiliate Members
 - AFREC, APUA, COMESA, EAPP, PIESA, SADCSTAN, SAPP
- President: Côte D'Ivoire
- 2 Vice Presidents
 - Namibia and Kenya
- Secretariat: South Africa
- Co-operation agreement with IEC in 2009
- 7 mirror committees of the IEC

To obtain hard copies of the guide: contact the AFSEC Secretariat on info@afsec-africa.org



AFSEC- IEC Capacity building

- **Technical seminar in Nairobi, Sept 2011**
68 participants from 11 countries with IEC TC experts to launch AFSEC TCs
- **ACAS events in Abidjan, Nairobi, Lubumbashi and Accra**
- **Collaboration tools**

To come: AFSEC TC meeting and/or ACAS event in AFRC, Nairobi.

2nd Smart Grid Forum for Africa

- Cairo, **Egypt**, 5-8 March 2016
- Organized by AFSEC, MOERE (Egyptian Minister of Electricity and Renewable Energy) and Egyptian NC
- Speakers from IEC, IEC-AFRC, CENELEC, CIGRE
- Exchange information on Smart Grid
- Build capacity for African experts and managers



**bigger choice
safer products**



Pierre Selva
IECEE Treasurer

Fisuel General Assembly
Morocco, May 2016



INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

THANK YOU

MERCI



fisuel

Symposium Fisuel – Maroc – 11 & 12 Mai 2016

Fisuel Symposium – Morocco – 11th & 12th of May, 2016