

IEEE Overview

Advancing Technology for Humanity

IEEE

Who We Are

- More than 420,000 technologists in 160 countries driving technological innovation and excellence for the benefit of humanity.



Our Vision:
To be essential to the global technical community and to technical professionals everywhere, and to be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

IEEE

IEEE at a Glance



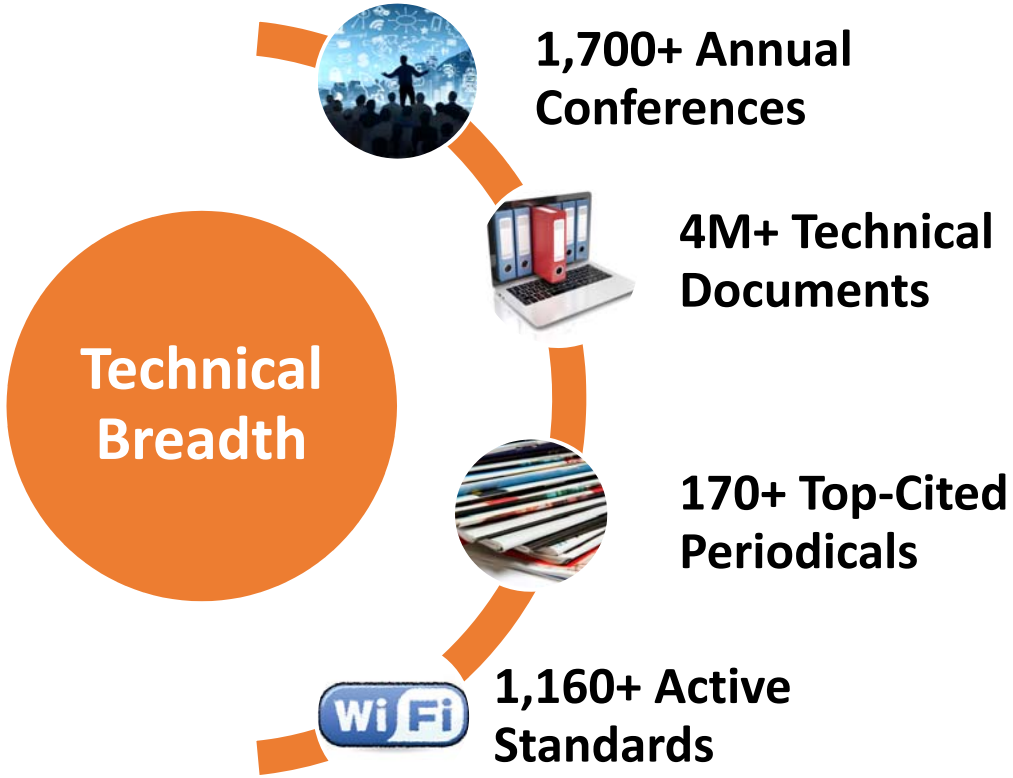
~420,000 Members

160+ Countries

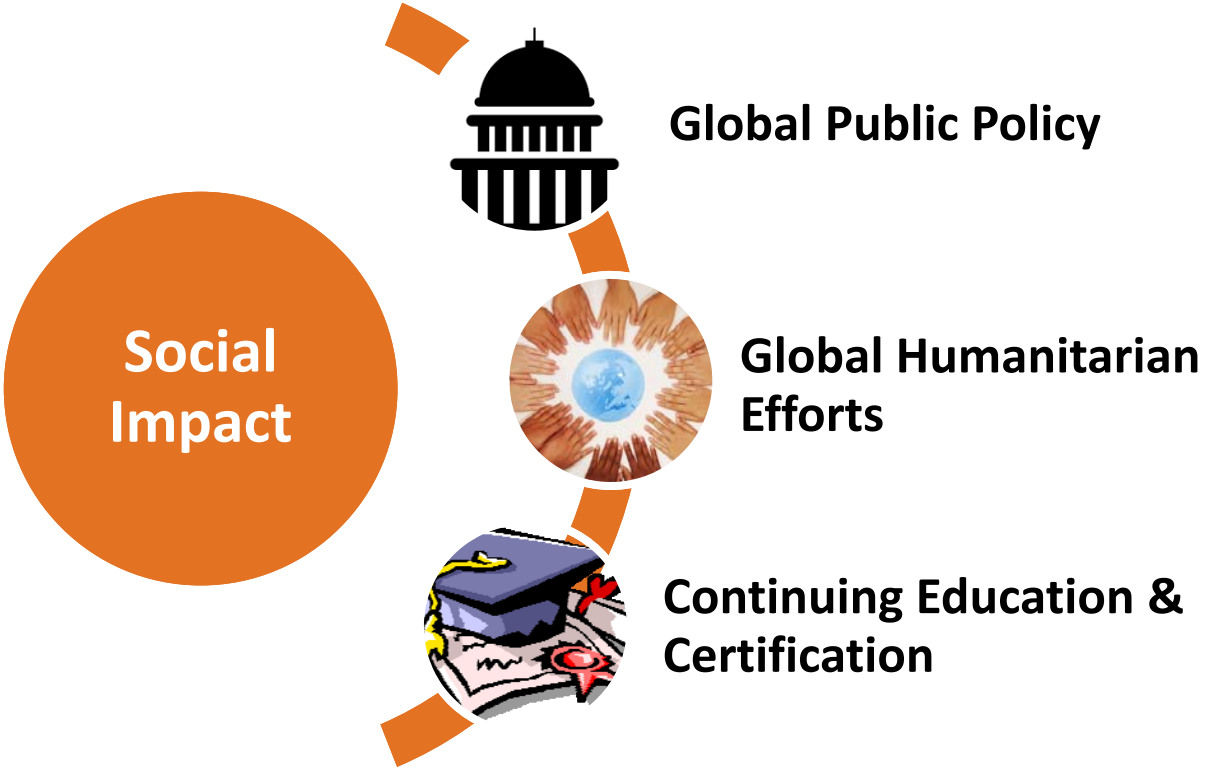
46 Technical Societies & Councils

IEEE

IEEE at a Glance



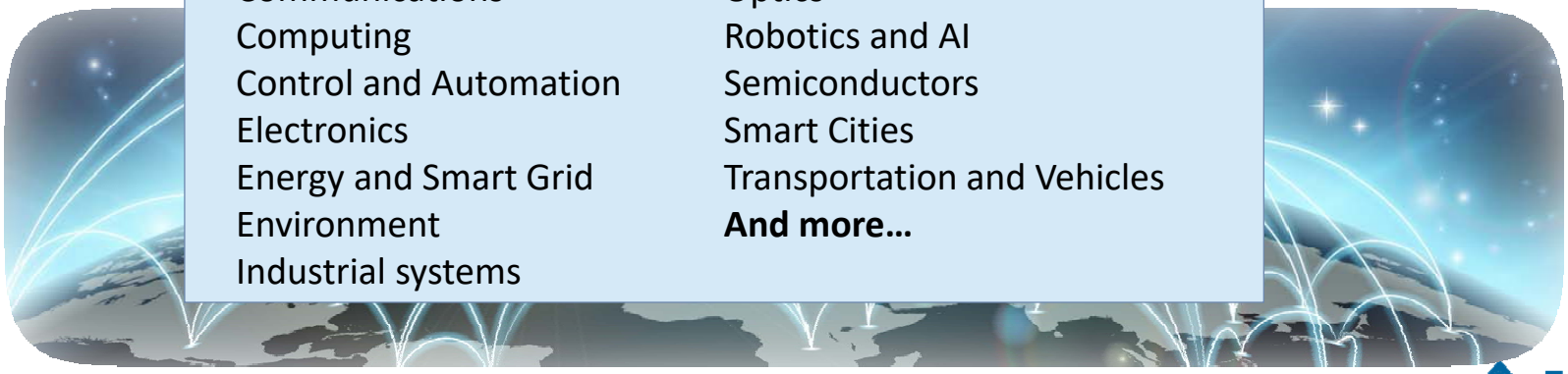
IEEE at a Glance



Technical Know-how that is Broad and Deep

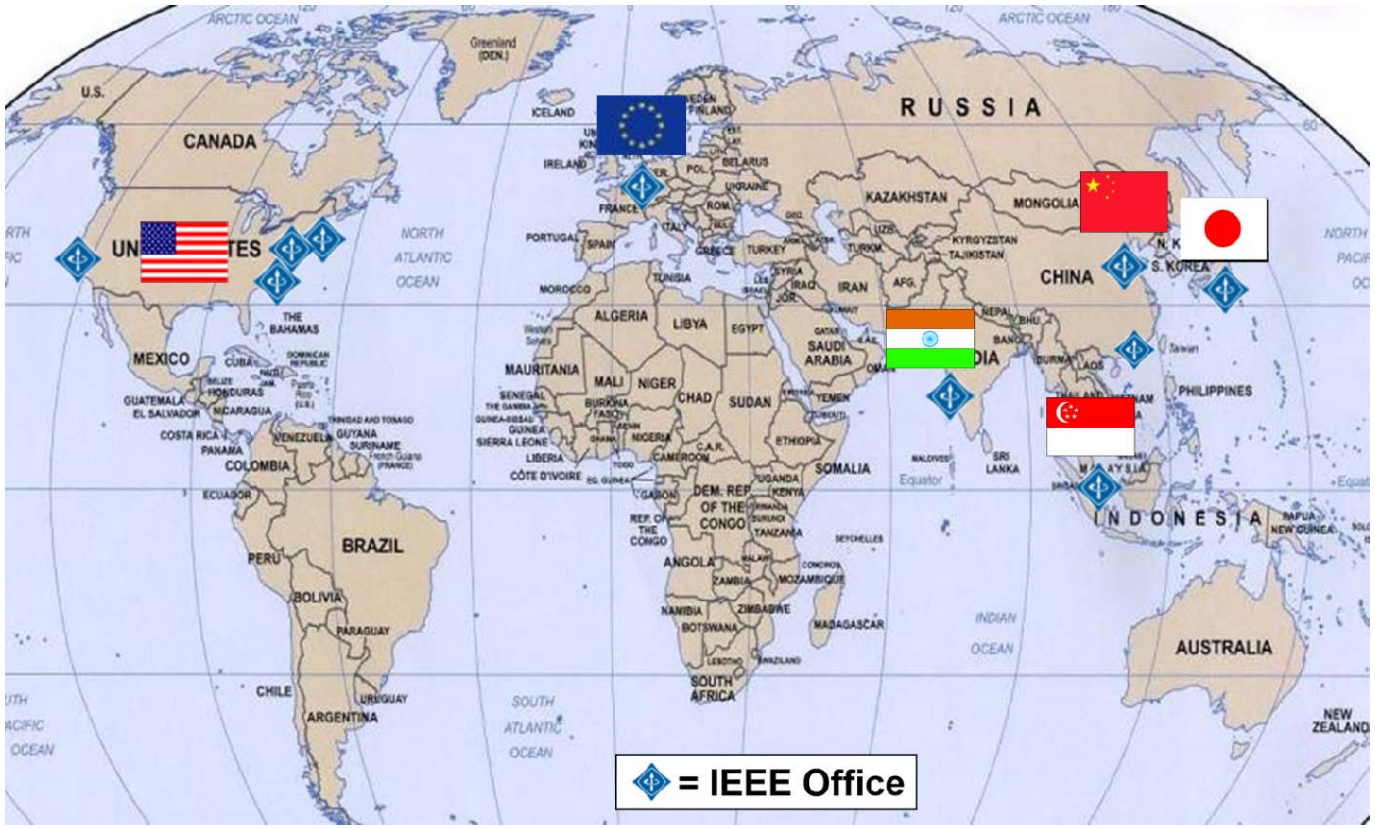
- Electrical and electronic engineering, computer science, and beyond:

Aerospace	Information Technology
Biomedical Engineering	Internet of Things
Broadcasting	Life Sciences
Circuits	Nanotechnology
Communications	Optics
Computing	Robotics and AI
Control and Automation	Semiconductors
Electronics	Smart Cities
Energy and Smart Grid	Transportation and Vehicles
Environment	**And more…**
Industrial systems	



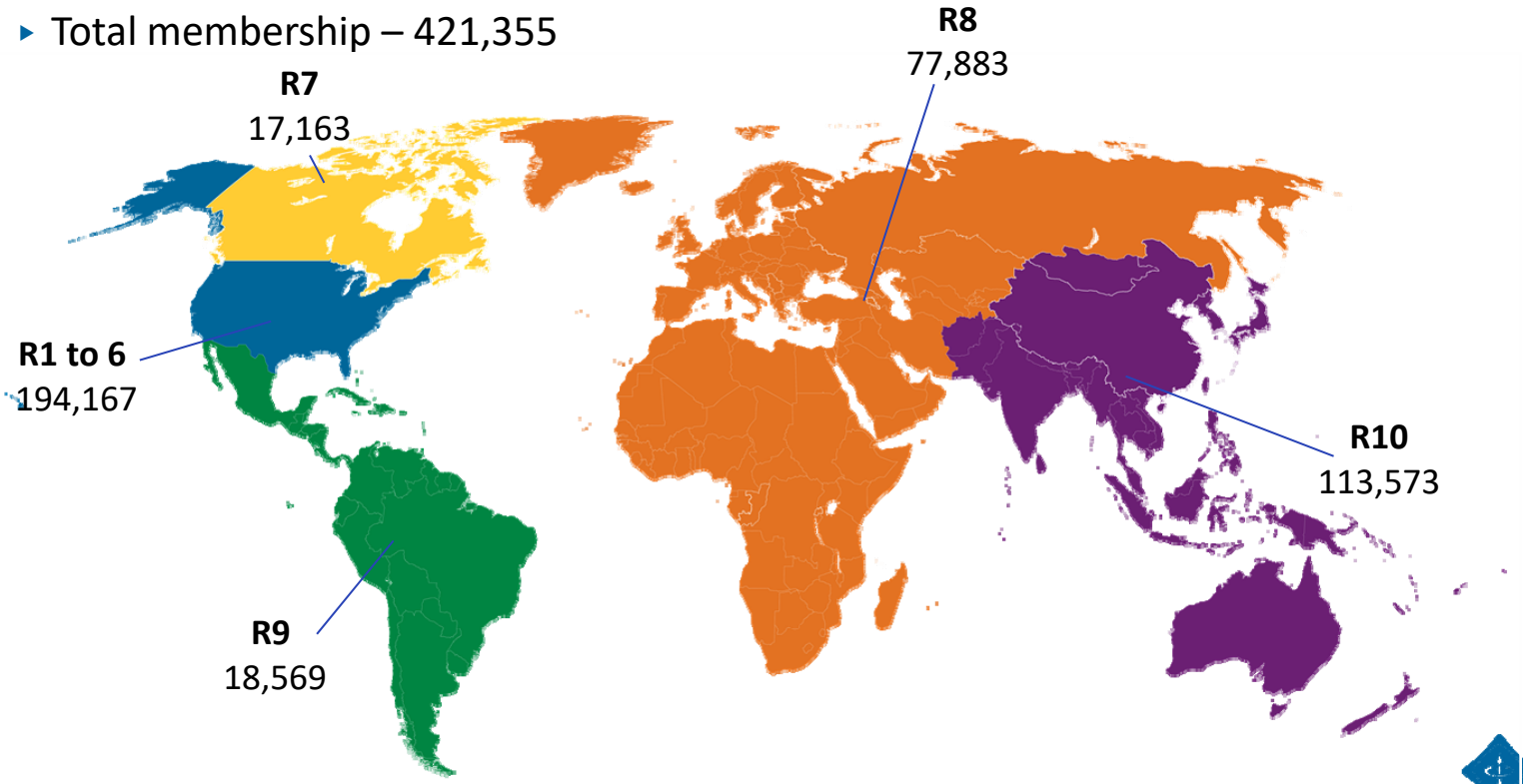
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Global Solutions to Global Challenges



IEEE Membership by Region

- Total membership – 421,355



Our History

IEEE's story of innovation begins with a spark of collaborative spirit

The Founding of IEEE

1884 — **1912** — **1963** — Present

Thomas Edison, Alexander Graham Bell, and other notables founded the **American Institute of Electrical Engineers**.

AIEE
American Institute of Electrical Engineers

IRE
Institute of Radio Engineers

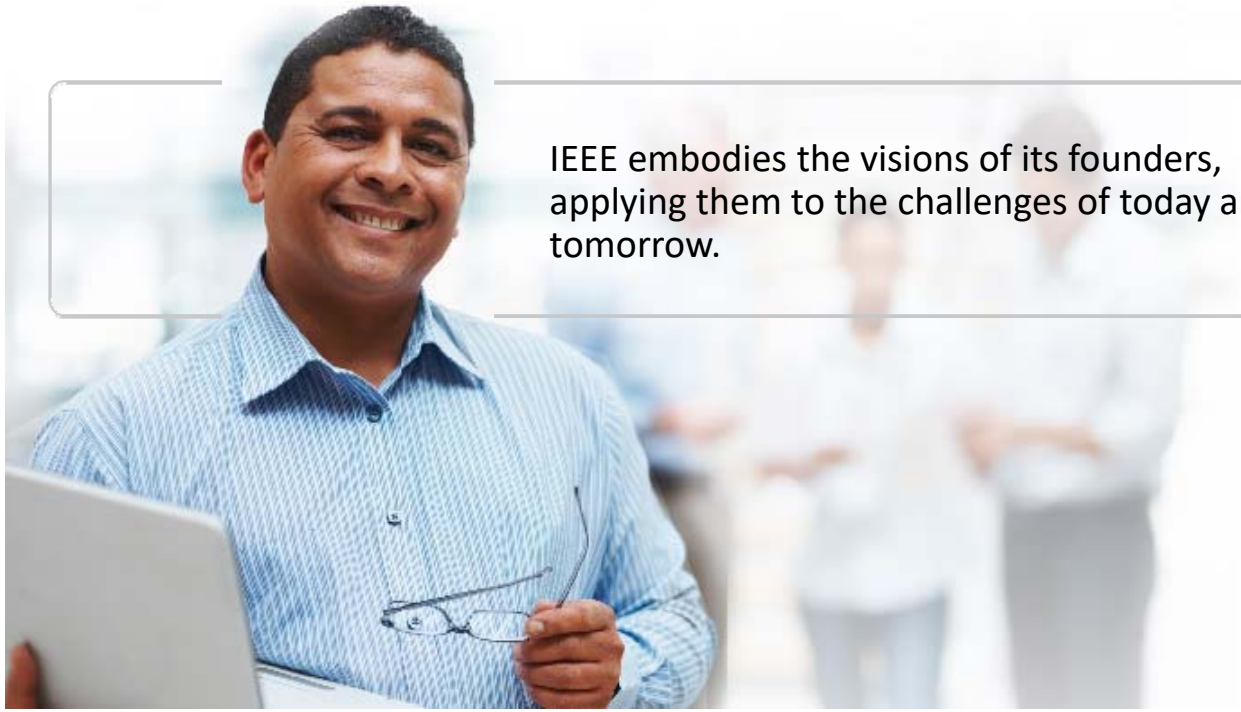
Pioneers of wireless technologies and electronics founded the **Institute of Radio Engineers**.

AIEE and IRE merged to become the Institute of Electrical and Electronic Engineers, or **IEEE**.

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IEEE Today

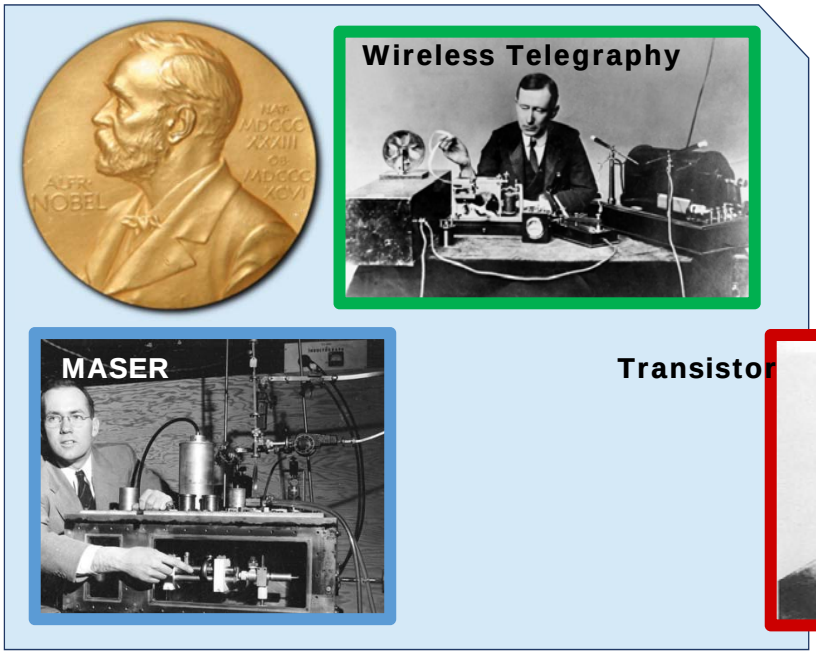
1884 — 1912 — 1963 — **Present**



IEEE embodies the visions of its founders, applying them to the challenges of today and tomorrow.

“If I have Seen Further than Others…”

- Notable IEEE Nobel Prize winners:
  - **Guglielmo Marconi 1909**
  - Robert Andrews Millikan 1923
  - Irving Langmuir 1932
  - Willem Einthoven 1924
  - Edward Appleton 1947
  - **William Shockley 1956**
  - Walter Brattain 1956
  - **Charles Townes 1964**
  - John Bardeen 1972



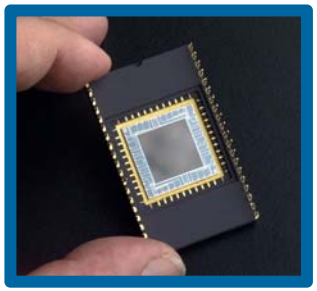
"…It is by Standing upon the Shoulders of Giants"

- Leo Esaki 1973
- Brian Josephson 1973
- Arthur Schawlow 1981
- Nicolaas Bloembergen 1981
- **Jack S. Kilby 2000**
- **Willard S. Boyle 2009**
- Charles K. Kao 2009
- George E. Smith 2009
- **Isamu Akasak 2014**
- **Hiroshi Amano 2014**
- **Shuji Nakamura 2014**



Integrated Circuit

Charge Coupled Device





Blue LED

IEEE

The IEEE approach

The global catalyst, center-point, and facilitator of technology.

Sections, Societies and Councils

Geographic Sections

- Local colleague community
- Cross-and inter-disciplinary networking through local Section, Chapter, Student Branch activities
- Volunteer leaders gain management, teamwork and leadership experience
- Local professional and technical activities
- Recognize and honor achievements of members and others in their community

Global Societies & Councils

- Bring together international member coalitions of shared technical interests
- Sponsor and organize conferences, workshops tutorials, seminars, etc.
- Develop publications: Journals, Magazines, Newsletters
- Recognize and honor member accomplishments

IEEE Standards

- 1,168 active new and revised standards*
- 585 standards projects under development*

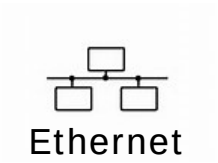
*as of 31 December 2015



IEEE 802.11



IEEE 1394



IEEE 802.3



IEEE 802.11

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IEEE Standards Association

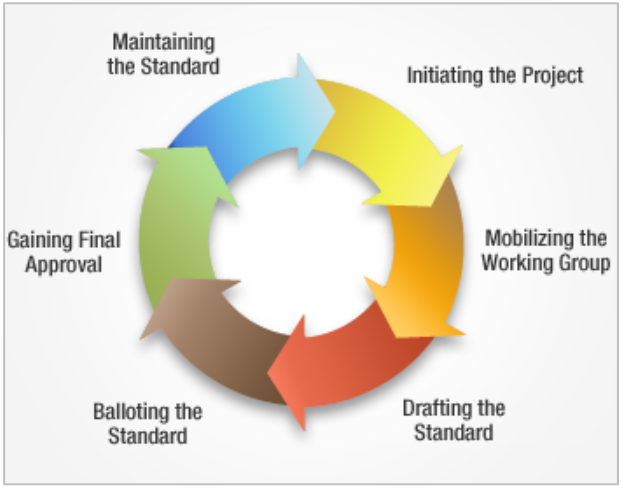
- Drives the functionality, capability, and interoperability of a range of products and services that affect the way people live, work, and communicate.

Individual Membership

6,879 individual members in 90 countries

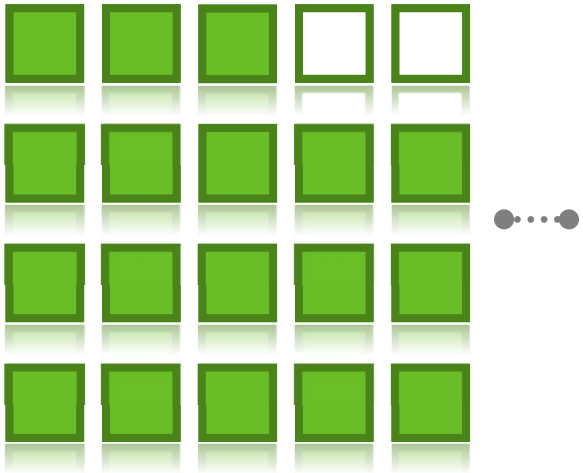
Corporate Membership

187 member corporations in 23 countries



IEEE Publications

- 2013 JCR® study reveals IEEE journals continue to maintain rankings at the top of their fields.

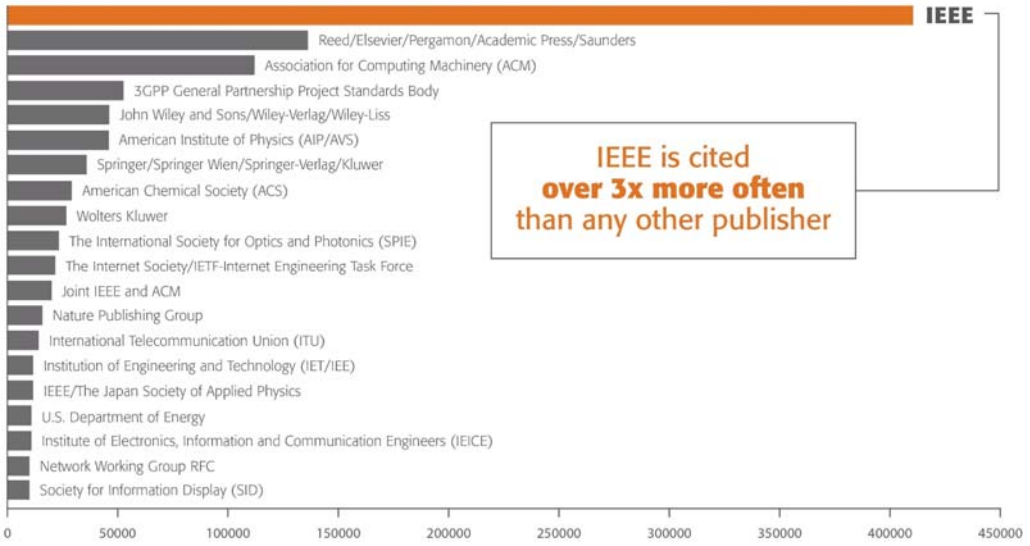


18 of the top 20
journals in electrical engineering are published by IEEE

*Source: 2013 Thomson Reuters Journal Citation Reports® (JCR)

IEEE Patent Citations

- IEEE leads as the most-cited publisher in new patents from the top patenting organizations.



Patents filed with the U.S. Patent Office between 1997–2015 by the year's 40 top-patenting organizations.
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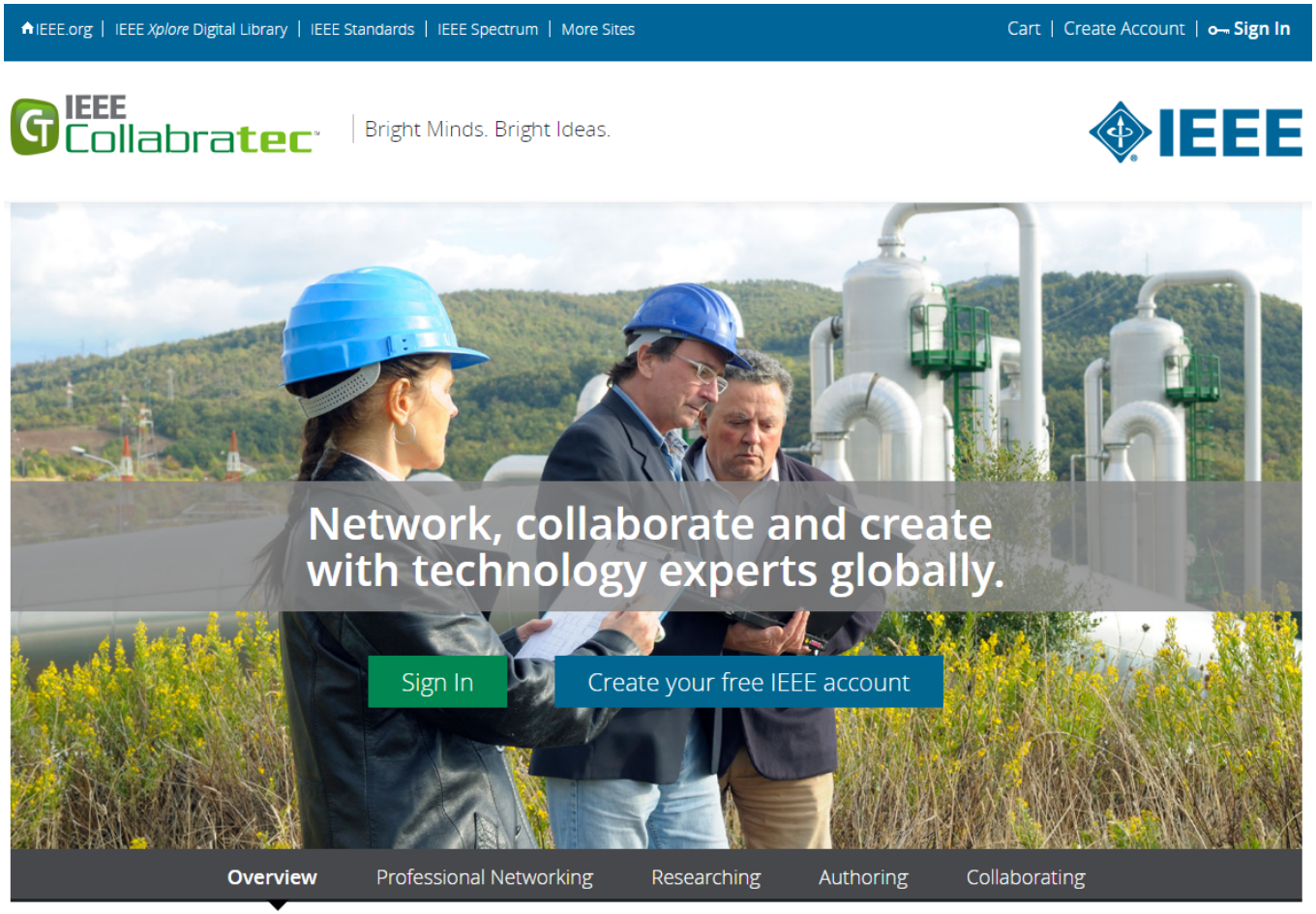
- IEEE intellectual property, all searchable in one place:
  - Powerful search tools
  - Nearly 4 million full-text articles and papers
  - Users download more than 8 million documents per month



Wherever Technology Happens, IEEE is There Adding Value



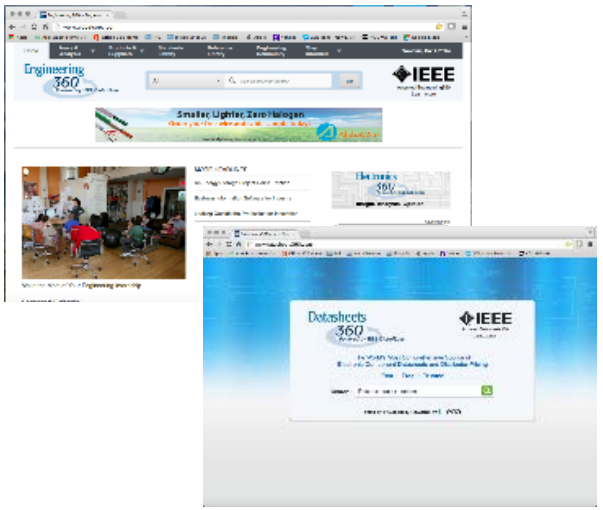
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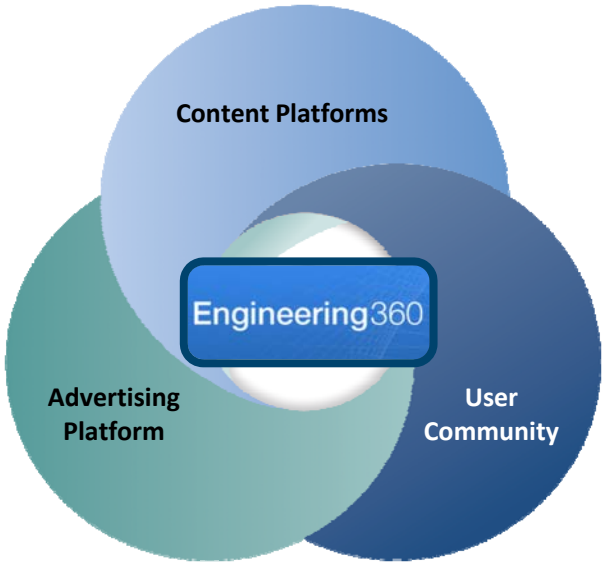
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- ✓ *Webinars*
- ✓ *Alerts*





- ✓ Display ads
- ✓ Webinars
- ✓ Banners
- ✓ Industrial ad network
- ✓ Sponsorship
- ✓ Content marketing

- ✓ 8+ million registered users
- ✓ 2 million monthly visitors
- ✓ Decision-making audience

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Thank You