



INCOSE at 31 Guiding the Future of Systems Engineering

Why INCOSE?

Annual Impact Statement



Inspiring and guiding the direction of systems engineering across diverse stakeholder communities.

- We are the premier choice of systems engineers for professional development.
- With 31 years of experience and 18,500 members, we are shaping the future of systems engineering.
- We interact with systems engineers across the globe on a daily basis to set standards and solve problems.



18,500 Committed Members

120 Corporate Members

55 Working Groups

74 Chapters Worldwide

68 Countries with Active Members



bit.ly/incose-member
email: info@incose.org



Premier Choice of Systems Engineers for Professional Development

Corporate Advisory Board

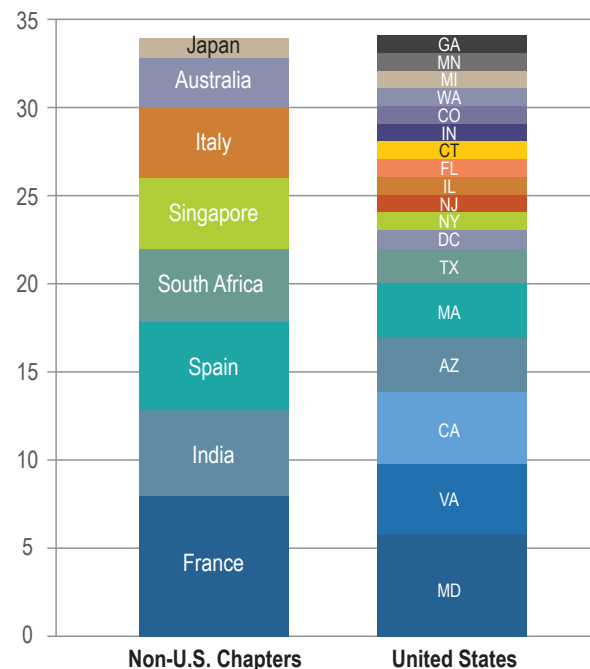
"Voice of the Corporate Customer" for INCOSE—

- Provides advice on overall direction, focus, and priorities
- Brings diverse perspectives on industry, government, and academia.
- Includes the Academic Council—currently 20 Universities
- Acts as a conduit between INCOSE and CAB organizations
- Provides additional resources for INCOSE and support for chapters
- Enables corporations to influence the direction of Systems Engineering
- Allows CAB members to meet with industry leaders, grow their global footprint, and see how other industries apply Systems Engineering to solve business problems
- Encourages connections and networking with competent certified Systems Engineers at all levels through INCOSE events



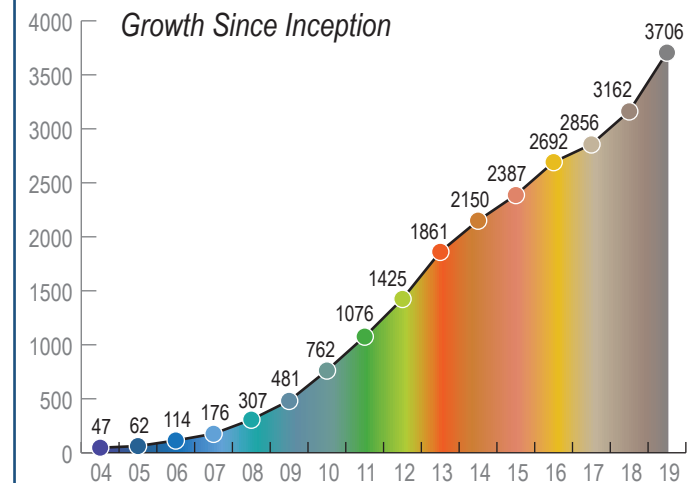
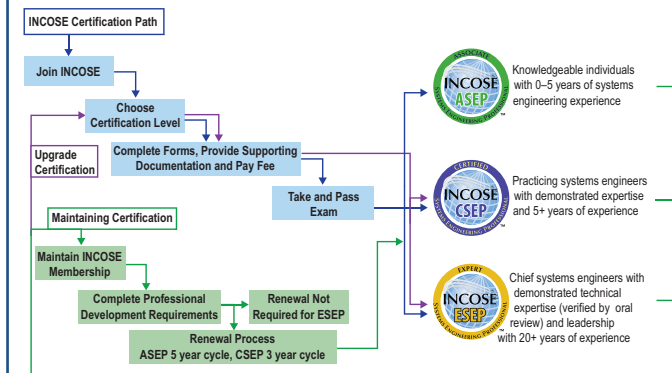
Institute for Technical Leadership

- A development program for active INCOSE members seeking to improve their leadership skills in an open, collaborative environment.
- This program is a blend of online synchronous learning and asynchronous team collaboration to deliver all content and learn together. The IW and IS provide the opportunity to learn and interact face-to-face.
- We started in 2015 and are now working with our 6th Cohort!

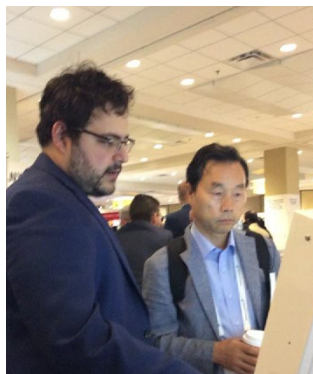
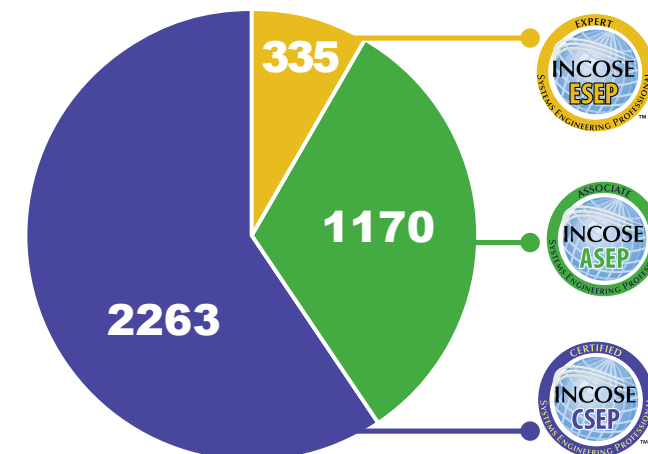


Cohort Participants by Location.

Certification



3768 Current Active Certifications



Concept presented at the INCOSE IS 2019, Improvements ongoing

Value to Our Membership and the Systems Engineering Community

Products and Publications

- Working groups and communities collaborate to create our products and publications
- INCOSE guides and contributes to groups working to determine and set international standards relating to system topics.

SETDB
SYSTEMS ENGINEERING TOOLS DATABASE



INCOSE Systems Engineering
HANDBOOK



Chapters

- More than 70 chapters in 68 countries



Student Outreach

- Student Divisions are operated as a component of nearby INCOSE chapters. Undergraduate and graduate students become actively involved in INCOSE.
- INCOSE supports outreach designed to interest and engage K-graduate level activities and research.



Events and Networking

- International and regional conferences



2021
Annual INCOSE
International workshop
Virtual Event
January 29 - 31, 2021



Virtual Community

- International and regional virtual events for continuing education, collaborative work, and social interaction with your SE peers.

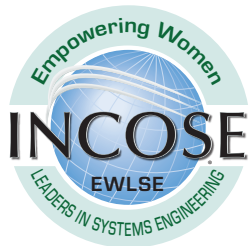


30th Annual INCOSE
International symposium
Virtual Event
July 20 - 22, 2020

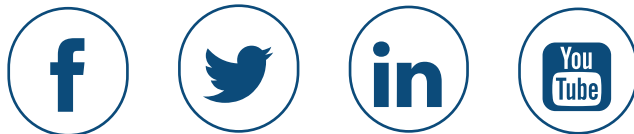
Guiding the Future of Systems Engineering

Sustainability, Executing the Vision

- A systems approach to a better world through internal initiatives and participation in external programs like the UN Civil Societies Conference



Find us on Social Media



Meeting Tomorrow's Complexities

- Systems Engineering Research
- Artificial Intelligence
- Model Based Systems Engineering
- Digital Information Exchange
- System of Systems Engineering
- Simulation ...



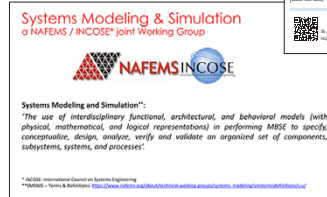
India Chapter MBSE Working Group



2020 Annual INCOSE
Torrance, CA, USA
January 25 - 28, 2020

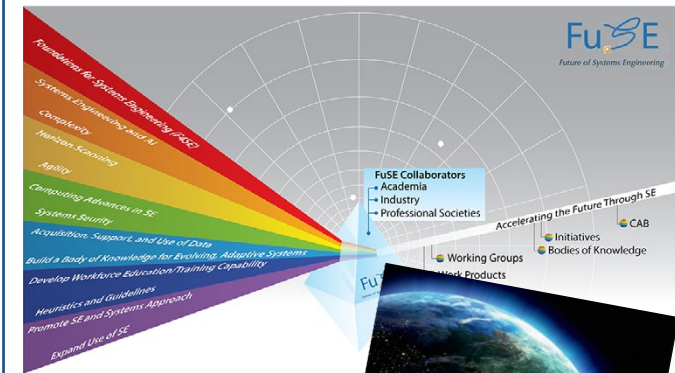
Digital Engineering
Information Exchange

www.incose.org/iw2020



Future of Systems Engineering

- Purpose: Evolve the practice, instruction and perception of SE
- Goal: Create a road map that drives the evolution of SE
- Scope: Identify needs, priorities and means for transforming SE



The FuSE initiative spans INCOSE Working Groups, other initiatives and periodicals

ISO/IEC/IEEE
15288



Accomplishments and Initiatives 2021

In 2021 our virtual platforms increased INCOSE global participation, collaboration, and membership. We also:

- Introduced new IT services for member collaboration
- **Established a Diversity, Equity, Inclusion Asc.D position and advisory committee** 
- Increased social presences and started accepting advertising on Web, Social Media, and in our Publications
- Started beta testing of Teams (1000 users), Yammer, and other collaboration tools for groups to work remotely
- **Hosted First ever Virtual IW—Largest attendance ever** 
- Continued to offer a global conference platform for virtual major INCOSE (IS and IW) and regional chapter conferences resulting increased participation globally 
- **Established Volunteerism Asc.D position**
- Increased professional support to update and standardize branding across the organization, publications, and social media
- **Added Online Testing for SEP certifications program and received a significant increase in ESEP applications**
- Continued virtual reSEptions to welcome new and upgrading systems engineers to the certification process

- Formed new certification academic equivalency agreements—with University of Alabama, Huntsville. 
- Rebranded GRCSE to SEEE, updated content 
Systems Engineering Education Ecosystem
- **Established a STEM Working Group**  **SYSTEM**
- Increased availability of INCOSE presentations on virtual platforms
- **Introduced two new awards—SE Journal Top Reviewer and Certification Champion (July 2021)**
- Developed first product for SE Heuristics Initiative for release in 2022
- Prepared PDP for Phase I launch in 2022
- Established an Ast.D Events Portfolio Management
- Continued growth of  Virtual Community Offerings
- Added 4 CAB Members
- **Awarded the 2nd ever Presidential Benefactor Award to Azad Madni**
- Completed SE Vision 2035 Major Review
- Reviewed SE Handbook Ed. 5 and comments submitted
- Released SETDB-IS2021 
- **Formed INCOSE NZ Chapter**
- Renewed MOUs—NAFEMS, PPI, and PMI

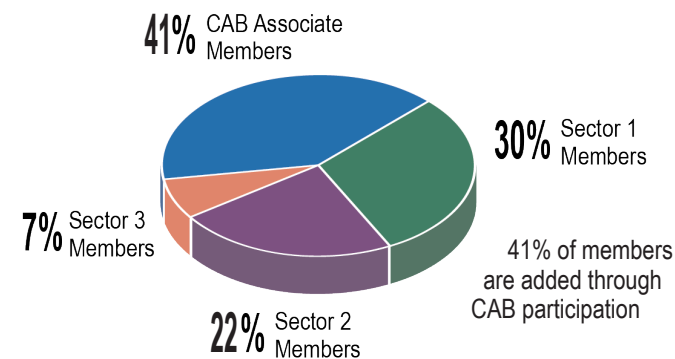
CAB Achievements and Future Goals

CAB members, 118 currently (with several pending) played a major role in guiding and supporting INCOSE as we break free to the new normal. They:

- Provided 50 CAB leaders and SMEs to review the INCOSE SE Vision 2035
- Reviewed and commented on the Version 5 of INCOSE SE Handbook
- Nominated 9 individuals for the 7th Cohort of INCOSE's Technical Leadership Institute
- Continued to work with working groups and initiatives to complete the "Needs Activities" with artifacts finished in 2021
- Stood up a Panel for IS 2021, "To Vee or not to Vee, Re-envisioning Verification and Validation"



Members



Events and Publications 2021

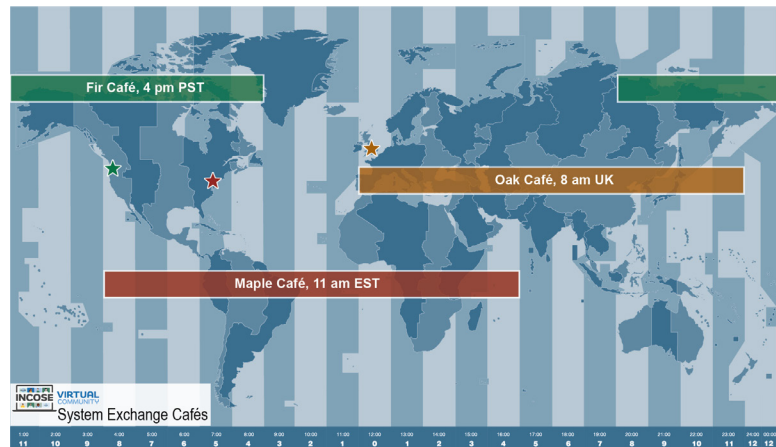
Recurring Publications and Events

- Letters from President •
- Newsletters ■
- Insight Magazine ■
- Systems Engineering Journal ■
- Board of Director Meetings, ★
now virtual
- Systems Exchange Cafes, every
2 weeks with **Topics of the Month**
<https://www.incose.org/about-incose/community/virtual-cafe>



2021 Publications and Products

- SE Vision 2035 Major Review Completed**
- SE Handbook Ed. 5 Major Review Comments Submitted**
- SETDB-IS2021 released



Cafe Times are exact, coverage times (color bars) are general references, please check for your location

Regional Conferences

- Nov. 2020: UK ASEC
- April 2021: 4th CSD&M Asia Conference and INCOSE Beijing Summit
- April 2021: NCOSE and Aeronautical Society of India MBSE Summit
- May 2021: IPEC, SESA Event
- Sept. 2021: Western States Regional Conference, San Diego, CA, USA
- Sept. 2021: 9th Nordic Systems Engineering Tour, Helsinki Stockholm, Oslo, Copenhagen, Hamburg
- Oct. 2021: New England Workshop
- Oct. 2021: EMEA Workshop, Sevilla
- Oct. 2021: SESA Workshop, ASEW
- Oct. 2021: NAFEMS World Congress, INCOSE Track
- Nov. 2021: INCOSE Human Systems Integration Conference, San Diego, CA

