International Council on Systems Engineering

A better world through a systems approach

Why INCOSE?

Overview

The Professional Society for Systems Engineering

PRESENTER:

incose.org

INCOSE

International Council on Systems Engineering

A better world through a systems approach

CONNECT

LEARN

LEAD

PROSPER

INCOSE is the premier choice of systems engineers for professional development. With over 30 years of experience, we are shaping the future of systems engineering. We interact with systems engineers across the globe on a daily basis to set standards.

21,000

Members and CAB Associates

126

Corporate Members

52

Working Groups

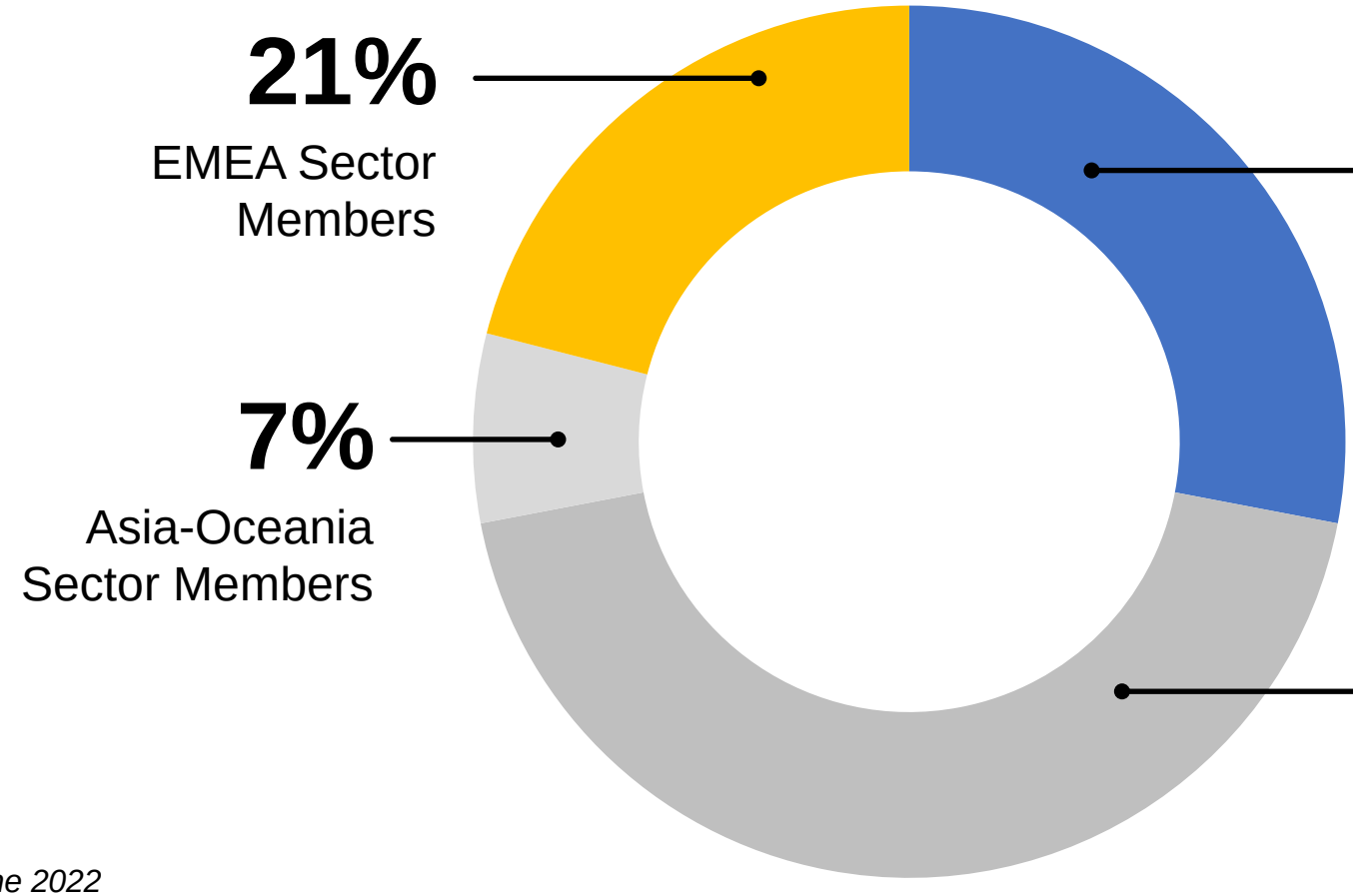
65

Chapters Worldwide

75

Countries with Active Members

INCOSE Member Breakdown



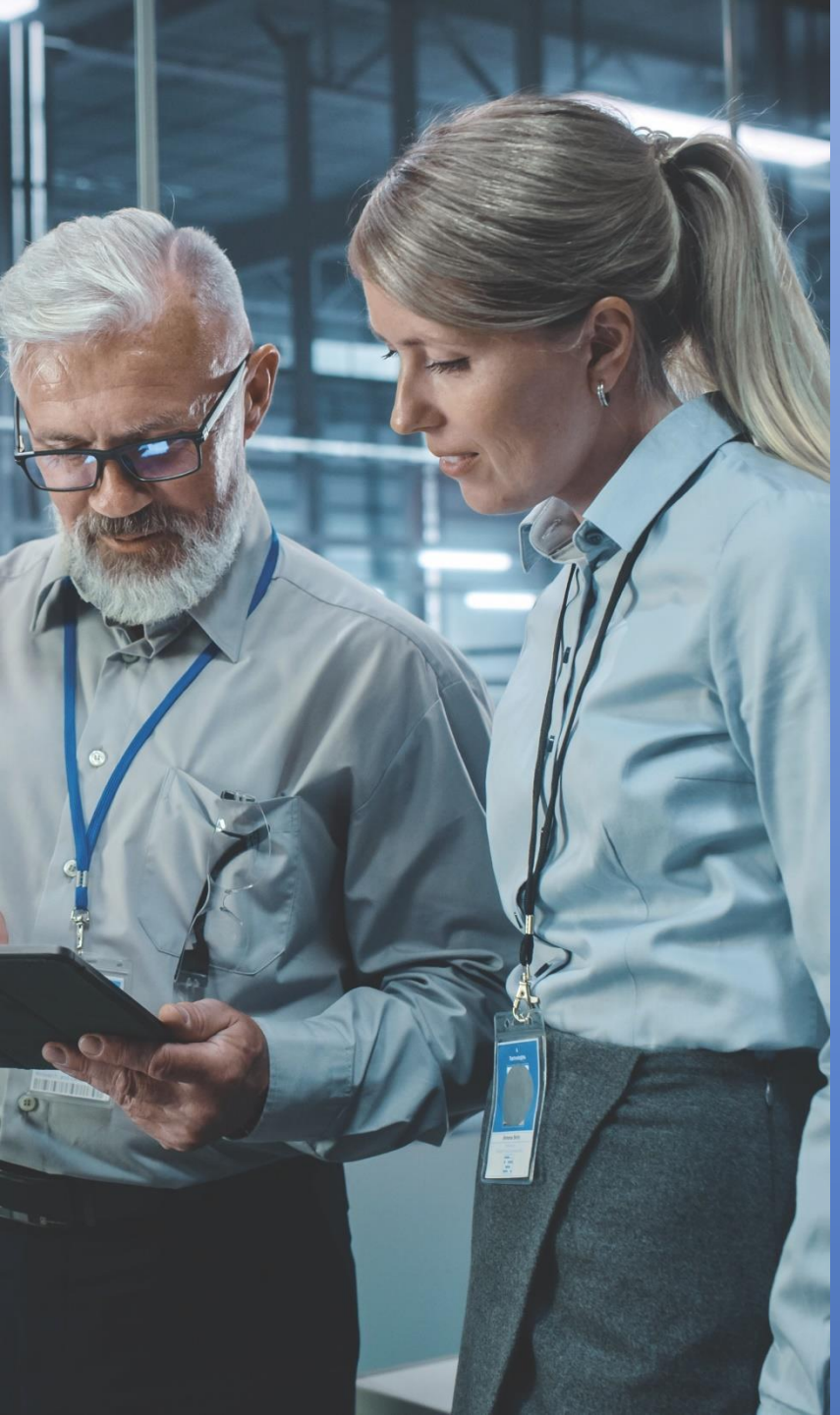
21%
EMEA Sector Members

28%
Americas Sector Members

7%
Asia-Oceania Sector Members

44%
CAB Associates

Stats from June 2022



Why Join INCOSE?

- INCOSE is the global Systems Engineering professional society – providing the **opportunity for life-long learning** in systems approaches.
- A community of peers, **resources** for your **career**, and a place to be a **leader.**
- INCOSE members stand out and are often sought after as **experts**. INCOSE members share practices and learn from each other.
- INCOSE members create **products**, produce **events** and represent the organization in international forums.
- INCOSE members increase the body of knowledge and **advance the practice** of systems engineering.
- **Network** with over 21,000 members in 75 countries.
- Increase your professional stature with the INCOSE Systems Engineering Professional **Certification.**

Mission and Vision

VISION: A better world through a systems approach.

MISSION: To address complex societal and technical challenges by enabling, promoting, and advancing Systems Engineering and systems approaches.

OBJECTIVE: Global leader for systems engineering professionals for career development.

FUTURE: Lead the future of systems engineering, academically, in emerging domains, and in practice.

Membership Benefits

A global network of colleagues who understand systems engineering

Certification Opportunities

Access to quarterly e-Publications, *INSIGHT* and *Journal of Systems Engineering*

Electronic version of the Systems Engineering Handbook

Collaborate with experts and practitioners **worldwide**

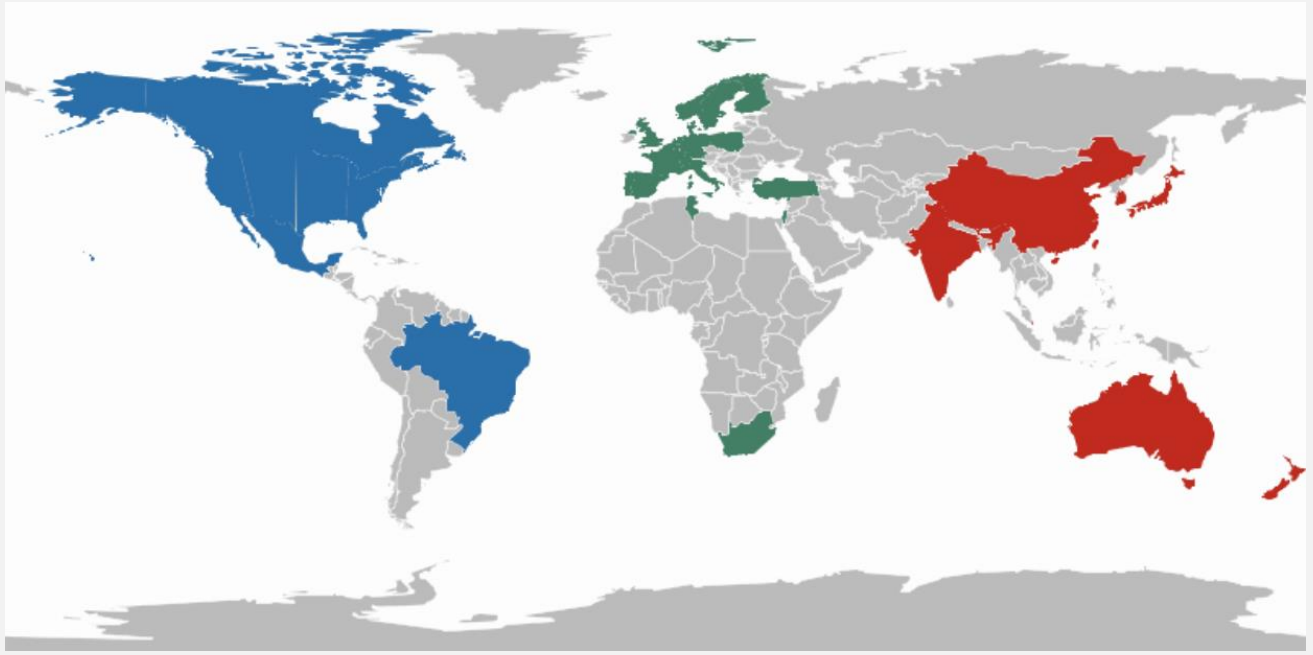
Exclusive access to INCOSE Connect, the collaborative space for **INCOSE** Members Only

Member discounted registration to the International Workshop and International Symposium.

65 Chapters Worldwide

Chapters play an essential role in the achievement of INCOSE's goals and objectives:

- Organizing a multitude of professional and social programs
- Attracting new members from industry, government and academia
- Supporting technical activities striving to advance the state and art of systems engineering
- Showcasing INCOSE as the international authoritative body on systems engineering that it is.



LEARN MORE
Incose.org/chapters

INCOSE Members per ESA Member State

Austria
32

Belgium
19*

Canada
296*

Czech Republic
2

Denmark
98*

Estonia
1

Finland
20*

France
932*

Germany
1314*

Greece
3

Hungary
1

Ireland
23

Italy
245*

Luxembourg
1

Netherlands
698 *

Norway
36*

Poland
18*

Portugal
4*

Romania
13

Spain
193*

Sweden
355*

Switzerland
126*

United Kingdom
1542*

MEMBERS & ASSOCIATES **5972**

**for countries with chapters*

Working Groups

INCOSE has over 50 active Working Groups. Some of the Working Groups are:

- Artificial Intelligence Systems
- Automotive
- Human Systems Integration
- MBSE Initiative
- Natural Systems
- PM-SE Integration
- Requirements
- Smart Cities
- Social Systems

Working groups are the resource practitioners need.

Discuss, collaborate, share in person, and online with a wide diversity of interests.

Create products to advance the state, art and practice of systems engineering.

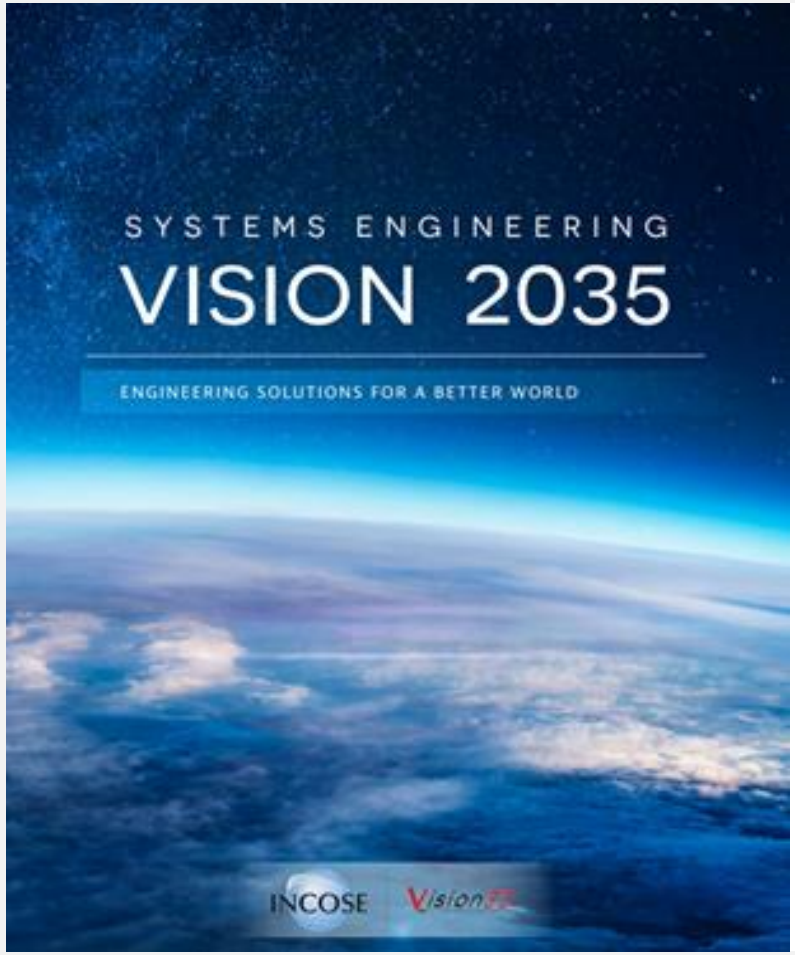
Help develop and review international standards

Bring value to other INCOSE stakeholders in your interest area

WGs run events, workshops, panels and much more

LEARN MORE: incose.org/workinggroups

Systems Engineering Vision 2035



This Systems Engineering Vision was sponsored by INCOSE and produced by a team of leaders from the systems community, with inputs from across industry, academia, and government. The Systems Engineering Vision 2035 addresses:

- The **Global Context for Systems** Engineering
- The **Current State of Systems Engineering**
- The **Future State of Systems Engineering**
- **Realizing the Vision**

We encourage you to work with INCOSE to help realize this vision.

The complete **Systems Engineering Vision 2035** is available as a website and PDF

LEARN MORE: incose.org/sevision

FuSE Program

Vision / Mission Statement

OUR VISION: Inspire the global community to realize the Vision of Systems Engineering

OUR MISSION: Engage and inspire the systems engineering community by Realizing the SE Vision 2035 to sustain the future of systems engineering.

FuSE refines and evolves the SE Vision 2035 across competencies, research, tools and environment, practices, and applications.

FuSE identifies critical gaps towards the vision realization and initiates and supports relevant actions

FuSE fosters involvement and collaboration within and outside of INCOSE.

FuSE educates, shares success, and expands.

Future of Systems Engineering Program

FuSE, our vision is:

Inspire the global community to realize the Vision of SE

FuSE Program Mission Statement

FuSE refines and evolves the SE Vision 2035 across competencies, research, tools & environment, practices, and applications.

FuSE identifies critical gaps towards the vision realization and initiates & supports relevant actions

FuSE fosters involvement and collaboration within and outside of INCOSE.

FuSE educates, shares success, and expands.

FuSE Streams

VISION & ROADMAPS

The Systems Engineering Vision and Roadmaps stream continuously refines, evolves, and complements the SE Vision 2035. Furthermore, we create an integrated set of roadmaps.

FOUNDATIONS

The SE Foundations stream has its basis in both theory and industrial practice. First goal is to assess the adequacy of the foundations and identify gaps to determine future directions

METHODOLOGY

The SE Methodology stream guides the advancement of practices, methods, and tools for engineering systems to be fit for purpose.

APPLICATION EXTENSIONS

The SE Application Extensions stream integrates social sciences and soft systems into systems engineering practice to address grand challenges.

7 Success Factors for the FuSE Program

Initiatives: TLI and SySTEAM

The Technical Leadership Institute (TLI) is a global network of INCOSE members committed to improving technical leadership skills to better address the complex sociotechnical challenges of the twenty-first century. TLI members come from a wide range of countries.

LEARN MORE:
incose.org/tli

SySTEAM aims to promote a more just, equitable, and transparent approach to education in general, and interdisciplinary systems thinking/systems engineering competencies in particular, aimed at reducing disparities in educational quality, access, and competency attainment.

LEARN MORE:
incose.org/systeam

Initiatives: Diversity, Equity and Inclusion & EWLSE

Policy DEI-100 was established for the Diversity, Equity, and Inclusion (DE&I) initiative as an imperative effort within INCOSE to ensure that structures and mechanisms are in place to make INCOSE an organization where everyone can comfortably be their authentic self, recognize themselves in other members, and have an equal voice and opportunity in their interactions within the organization.

Strategic Goals of DEI:

- Goal #1: Affirming greater inclusion and diversity within INCOSE membership.
- Goal #2: Recruitment of more members from diverse backgrounds. Work is already underway to achieve Goal #2. New Membership Engagement (NMET) Diversity Equity & Inclusion (DEI)

LEARN MORE: incose.org/dei

EWLSE's mission is to create an open systems engineering environment welcoming to all; promote the demonstrated value of women as systems engineers and leaders; engage women in engineering and systems engineering at all levels of education around the world; and enable increased participation and retention of women in systems engineering leadership.

LEARN MORE: incose.org/ewlse

MBSE

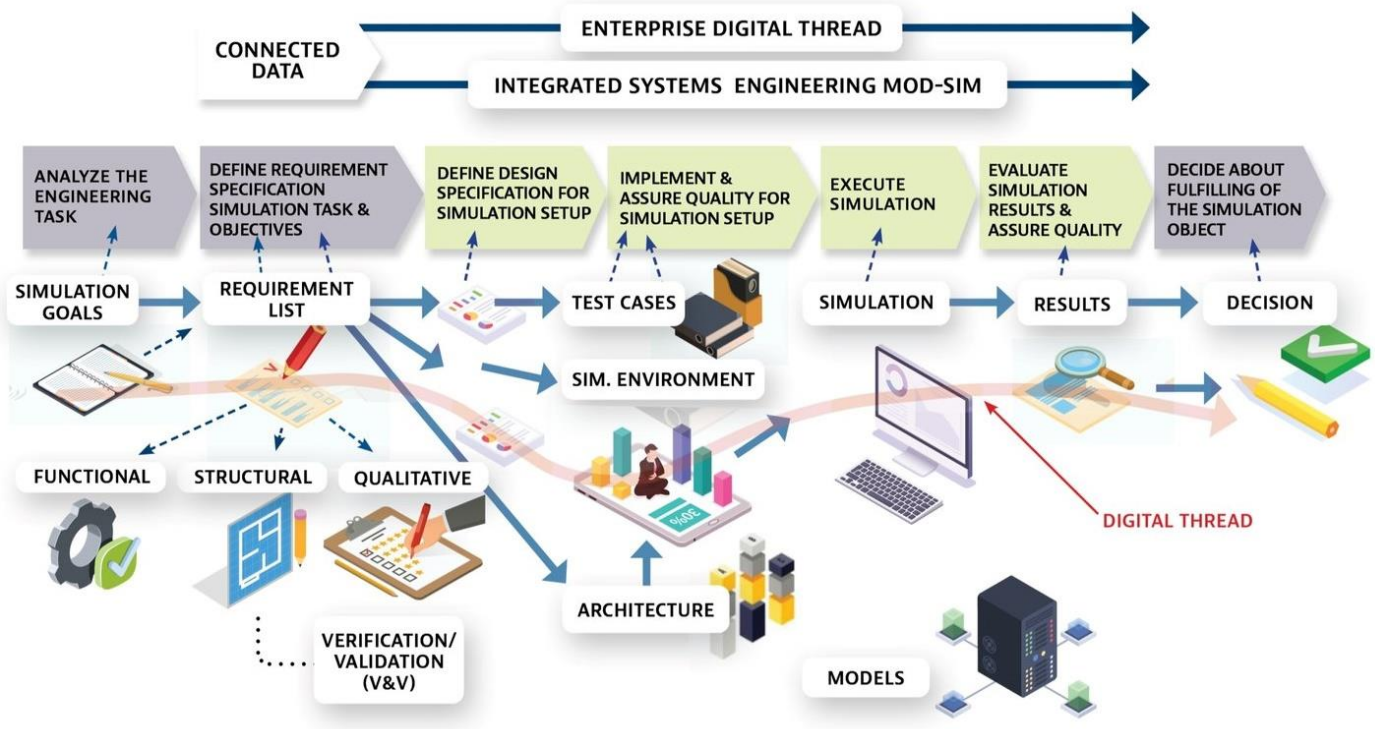
The future of systems engineering is predominantly Model-Based (MBSE)

FROM:

- The adoption of MBSE is uneven across industry sectors and within organizations.
- Custom, one-off simulations are used for each project, and there is still limited reuse of models especially during critical early phases of systems architecting and design validation.

TO:

- Systems engineers routinely compose task-specific virtual models using ontologically linked, digital twin-based model-assets.
- These connected models are updated in real-time providing a virtual reality-based, immersive design and exploration space. This virtual global collaboration space is cloud- based, enabled by modelling as a service and supports massive simulation leveraging cloud-based high-capacity compute infrastructure.
- Families of unified ModSim frameworks exist enabling small and medium businesses along with Government agencies to collaborate.



INCOSE Certification

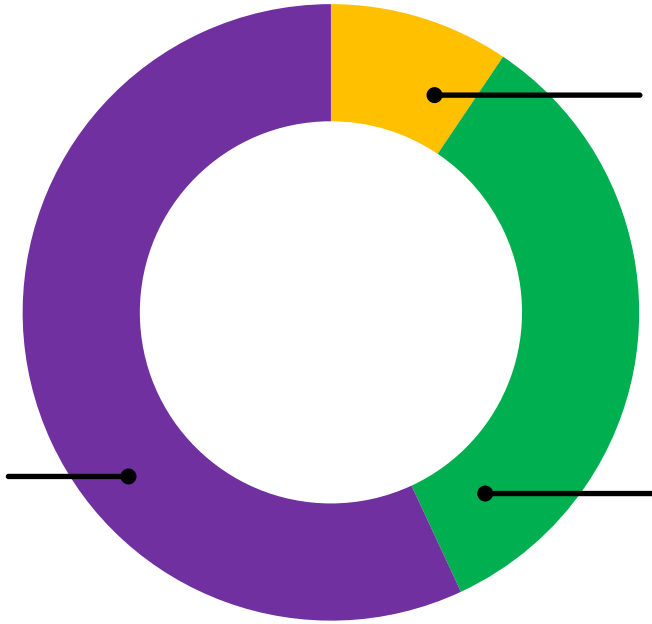
The Certification Program offers internationally recognized systems engineering qualification at three levels; confirming an individual's competency through demonstrated knowledge, education and experience.

- Systems Engineering Professional (SEP) certification formally recognizes an individual's progress through their career as they develop and apply systems engineering knowledge and practices.
- INCOSE offers three levels of certification ASEP, CSEP and ESEP.

4,033

Current Active Certifications

LEARN MORE: incose.org/certification



371

2,239

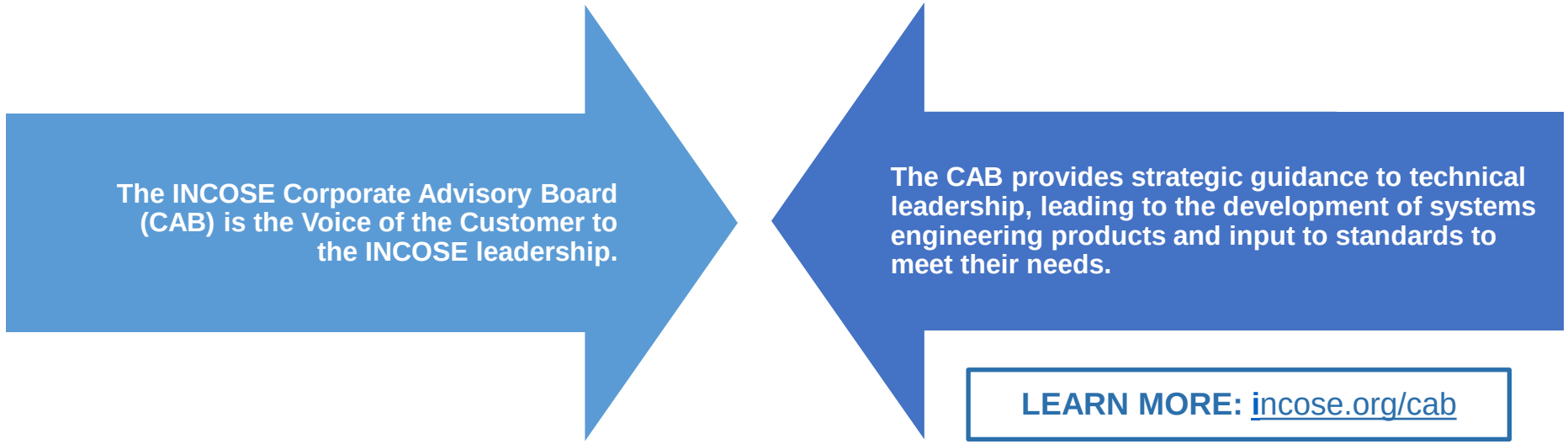
1,323

Stats from June 2022

Corporate Advisory Board

Corporate Advisory Board membership allows organizations to guide the direction of the discipline.

- Employees can gain access to the state-of-the-art products.
- Align with peers and fellow industry leaders, grow your global footprint, and learn about how other industry leaders are applying systems engineering to solve business problems.
- Gain better access to talent – find and hire competent, certified Systems Engineers through your INCOSE connection



LEARN MORE: incose.org/cab

Academic Council

A branch of the Corporate Advisory Board facilitating discussion and exploration of issues relevant to academia and strategic collaborations within INCOSE.

A well-educated workforce is key to Global Prosperity.

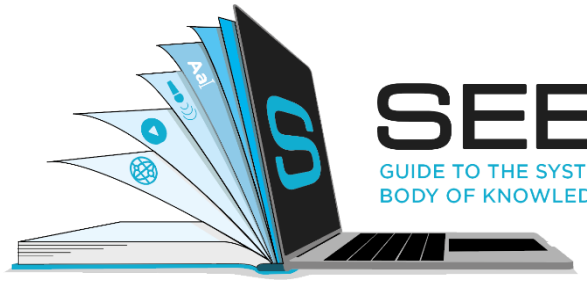
Council member organizations offer bachelors, masters, and doctorate degrees in systems engineering and related programs.

Active in advancing the state-of-the-art of systems engineering through academic programs.

LEARN MORE: incose.org/cab

Resources

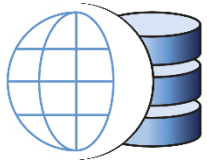
PDP
PROFESSIONAL DEVELOPMENT PORTAL



SEBoK
GUIDE TO THE SYSTEMS ENGINEERING BODY OF KNOWLEDGE

INCOSE VIRTUAL COMMUNITY

INCOSE Systems Engineering HANDBOOK



SETDB
SYSTEMS ENGINEERING TOOLS DATABASE

Conferences and Events

International Symposium 2023

33rd Annual INCOSE international symposium

hybrid event

Honolulu, HI, USA

July 15 - 20, 2023

International Workshop 2023

2023 Annual INCOSE international workshop

HYBRID EVENT

Torrance, CA, USA

January 28 - 31, 2023

Human Systems Integration 2022

HSI2022 Human Systems Integration Workshop

INCOSE

Europe, Middle East, Africa (EMEA) Workshop and Systems Engineering Conference (WSEC) 2023

INCOSE

EMEA WSEC 2023

Europe, Middle East, Africa

Workshop and Conference

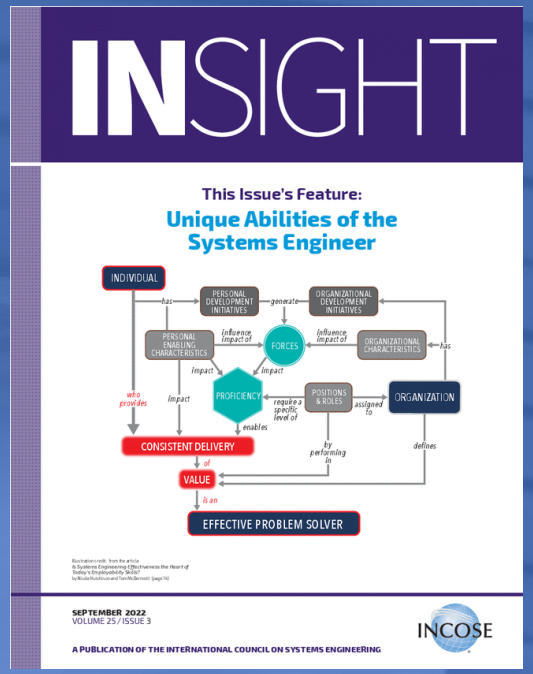
April 2023

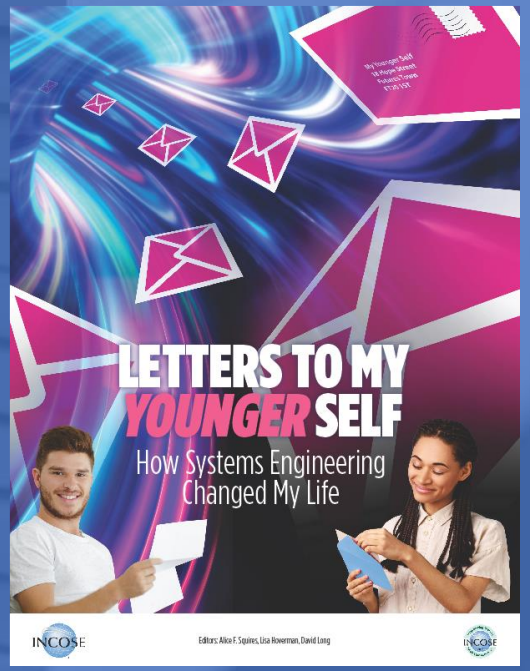
LEARN MORE:

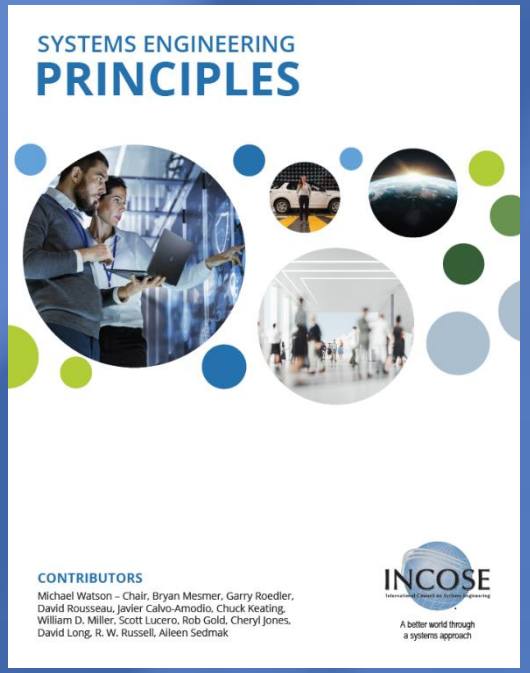
incose.org/events-and-news

INCOSE

Publications







LEARN MORE:

http://connect.incose.org/store

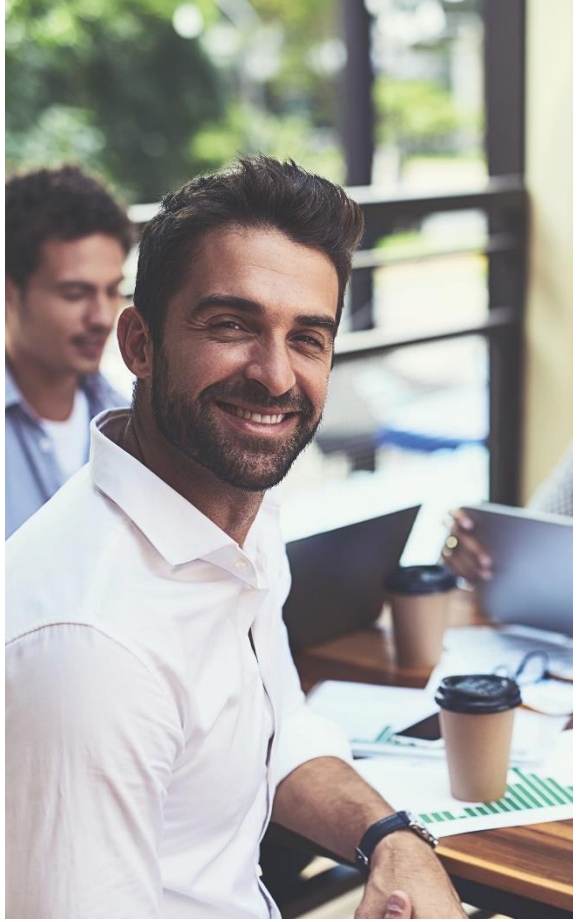
The INCOSE Foundation

Committed to rewarding skills through scholarships for those engaged in finding solutions to complex technical challenges at all stages of their education or career.

Offers possibilities for people to pursue goals that anticipate the future – for them and for the world.

SCHOLARSHIPS INCLUDE:

- ISEF, the International Science and Engineering Fair INCOSE Award to a pre-college student
- The Chesapeake Chapter Award
- The Stevens Doctoral Award for Promising Research in Systems Engineering to a PhD Candidate
- The James E. Long Award for Post Doctoral work



Questions?

Contact Us

International Council on Systems Engineering

A better world through a systems approach

Your Name
Your position
Your Email @incose.net

For more information contact | www.incose.org

@INCOSE @incose_org @incose_org INCOSE

BACKUP SLIDES

FuSE

Future of Systems Engineering

Future of Systems Engineering (FuSE)

VISION: Inspire the global community to realize the Systems Engineering Vision 2035

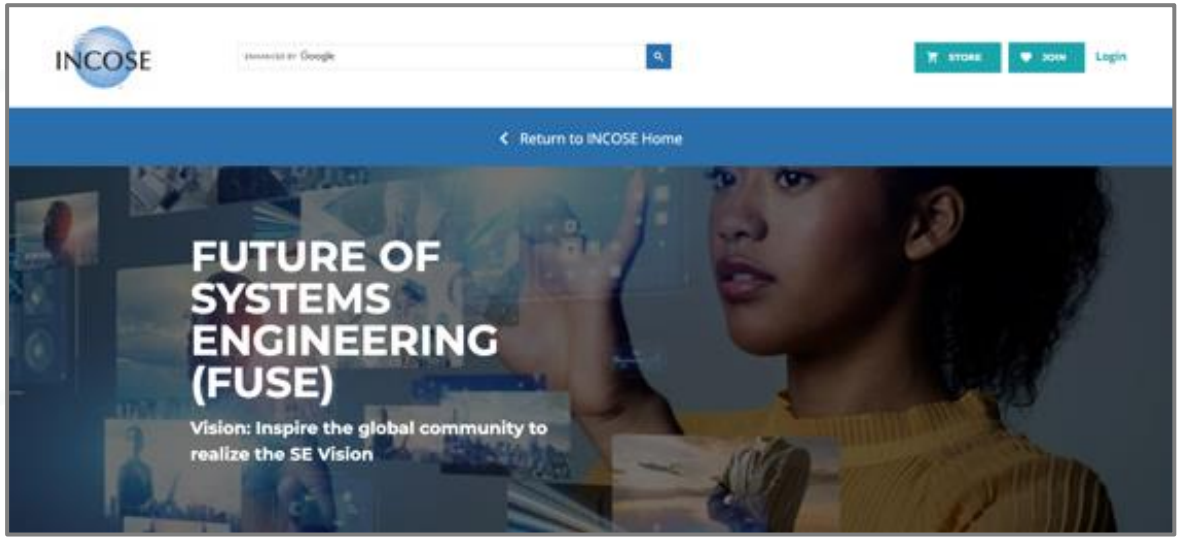
INCOSE

FuSE
Future of Systems Engineering

The FuSE Vision: Inspire the global community to realize the INCOSE SE Vision 2035.

https://www.incose.org/about-systems-engineering/fuse

- Break up boundaries and unleash new potential
- Widen the network, and branch out to new partners, promoters and recipients
- Foster the INCOSE community and leverage its capabilities across the globe
- Share success and drive education.
- Share these goals with us – be a sponsor you will be able to use your own platforms to disseminate information and news on topics relevant to your company.



INCOSE

Sponsorship Options

Become a Sponsor to make a difference in the Future of Systems Engineers

$25,000

for a 12 month period

Five Streams of Focus For FuSE in 2023 (go back to the new website and use the content there not from the Vision. FuSE only has 4 streams- incose.org/fuse https://www.incose.org/about-systems-engineering/fuse).

1. Research (Foundations and Methodologies Stream)
2. Competencies (Foundations Stream)
3. Tools and Environment (Methodologies and Application Extensions stream)
4. Practices (Foundations Stream)
5. Applications (Applications Extensions Stream)

Corporate Sponsors Receive

We will be posting news and updates on the launch across all our Media Channels

All advertising of FuSE will show sponsors – Logo will appear whenever we promote FuSE, which may include eNote, Newsletter, INSIGHT, all Social Media posts and any emails/advertising during period booked

Website – all companies who sponsor will have their company logo (and advert) on the FuSE webpage

All articles written by FuSE team will show sponsors

Webinar Series (5 Part) – Feb/March 2023 Sponsorship recognition and be part of the discussion

More mini events and webinar series to come

Presentations at all INCOSE Events

Thought Leaders Session for FuSE and SE Vision (Episode) Sponsor *(Value $3,000)*

Spotlight Article on your company in the Members Newsletter *(Value $1,500)*

The Future of Systems Engineering

JANUARY 2024

IW International Workshop

APRIL 2023

EMEA (Europe, Middle East and Africa) Workshop and Conference in Spain April 2023

JULY 2023

IS (International Symposium) in Honolulu

OCTOBER 2023

Asia Oceania Systems Engineering Conference (AOSEC)

Official FuSE sponsor badge to be used on own advertising and website

PLUS, MORE –

Still to be announced!

The Value of Sponsorship for INCOSE

INCOSE would like to acknowledge the value of our corporate sponsorships as they help propel the organization's mission and vision to move forward through recognition of their contribution.

Sponsors receive recognition for their contribution to align with the values systems of INCOSE.

Sponsors receive recognition while the organization receives contributions to advance their goals and broaden their impact.

Sponsorships are brand alignment not product placement.

Sponsors are corporate partners, they collaborate with INCOSE leaders; sponsors do not control content.

INCOSE does not infer the endorsement of commercial products, services, and tools from our sponsors and advertisers.

Annual Media Package Bundles & Pricing

Media Bundles 2023		Admin	Exec	CEO
Website Advert (Log in Page)	Annual		Medium	Banner
Social Media (1 Post per Month)	Annual	P	P	P
eNote body advert (1 per Month)	Annual	P	P	P
Members Newsletter (4 Issues)	Annual	Half Page	Half Page	Full
Normal Price with Annual Discounts		$9,250	$20,150	$25,495
CAB Package Price Less 15%		$7,863	$17,128	$21,671

Additional Option	Size	Quarter	Half	Full
INSIGHT Normal Rate (4 Issues)	Annual	$6,825	$8,435	$10,850
INSIGHT Academic Rate (4 Issues)	Annual	$3,500	$4,200	$6,020