



2022 Joint Leadership Meeting



Kyle M. Lewis , Secretary

Call to Order and Welcome

Joint Leadership Agenda

- Call to Order and Welcome (Secretary)
- President's Address (President)
- Administration Report (Operations Manager)
- Finance Report (Treasurer)
- IT Report (CIO)
- Technical Operations Report (Technical Director)
- Services Report (Services Director)
- PDP MVS Update (Associate Director, E&T)
- VS – Events (Associate Director, Events)
- VS – Certification (Associate Director, Certification)
- VS – Membership – Individual (Secretary)
- VS – Membership – Corporate Advisory Board (CAB Chair)
- Diversity, Equity & Inclusion (Associate Director, DEI)
- VS – Products (Technical Director)
- Strategic Objectives (Director, Strategic Integration)
- Outreach & Alliances (Director, Outreach)
- Sectors Reports (Director, Sector I/II/III)
- Special Projects (President-Elect)
- Marketing & Communications (MarCom) Report (Director, MarCom)
- Nominations and Elections (N&E) Update (N&E Chair)
- Acknowledgement to CAB Organizations (Secretary)
- Question & Answer (Q&A) (Board of Directors)

Marilee Wheaton, INCOSE Fellow, President

President's Address

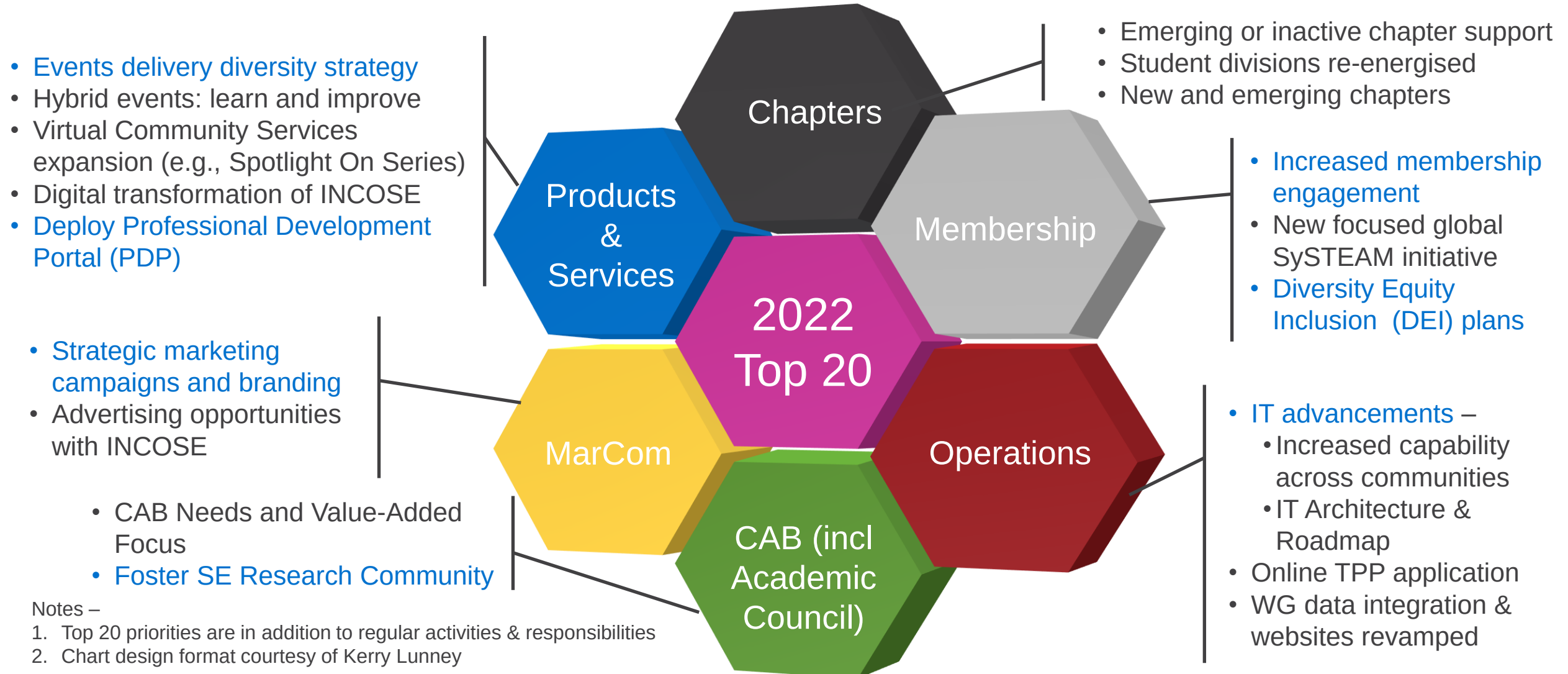
About INCOSE



Learn more at www.incose.org



Top 20 BoD Priorities for 2022



Notes –

- Top 20 priorities are in addition to regular activities & responsibilities
- Chart design format courtesy of Kerry Lunney

Additional Highlights



01 New DEI Organization

- AscD DEI
- DEI Advisory Committee

02 New Volunteer Focus

- AstD Volunteerism
- New Membership Engagement

03 Events Focus & Support

- AstD Events Portfolio
- Hybrid – Learn and Improve

04 Outreach Collaborations

- Tools for Relationship Managers
- New collaborations with existing alliances
- Re-invigorate industry & domain outreach

05 Certification

- Certification Champion Award
- Expand Academic Equivalency

06 Global inputs & reviews

- SE Vision 2035
- SE Handbook Edition 5

Christine Kowalski, INCOSE Operations Manager

Administration Report

Individual Members: 20,211

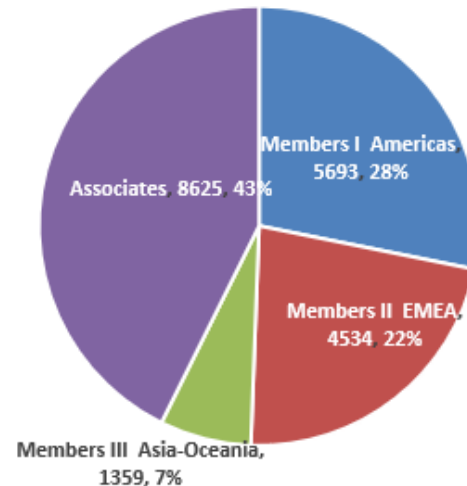
Americas: 5,693 (28%)

- Increase ~ 130 since Jan 2022
- Chapters : 41

Asia-Oceania : 1,359 (7%)

- Drop ~ 25 since Jan 2022
- Chapters : 8

**Total Individual Members and CAB Associates
20,211**



EMEA : 4,305 (21%)

- Increase ~ 150 since Jan 2022
- EMEA Associates (CAS): 229
- Chapters : 17

Associates : 8,854 (44%)

- Increase ~ 440 since Jan 2022
 - Includes EMEA CAS
- CAB Associates & EMEA Chapter Affiliation Sponsors (CAS)

Corporate Memberships: 126

❑ Corporate Members: 91

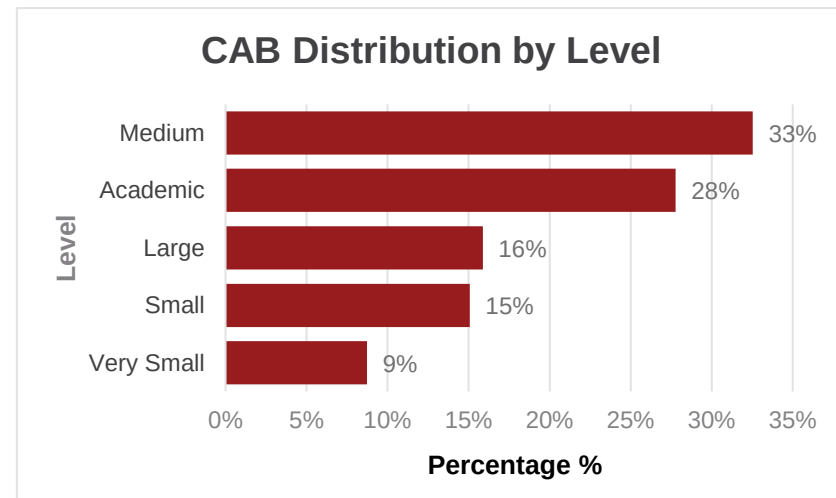
❑ as of 8 May

➤ New in last 5 months:

- AVIAGE Systems (*China*)
- The REUSE Company (*Spain*)
- Toshiba Corporation (*Japan*)

➤ Pending

- Saudi Railway (*Saudi Arabia*)
- Lawrence Livermore National Laboratory (*US*)

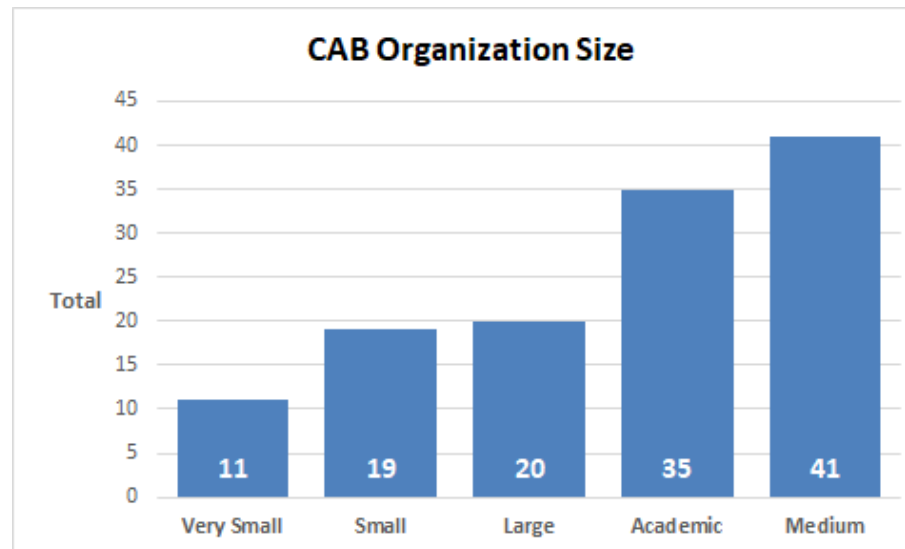


❑ Academic Members: 35

❑ as of 8 May

➤ Pending:

- Mahindra University (*India*)



The INCOSE Diverse Admin Team



- Christine Kowalski – Operations
- Carol Berardino – Certification
- Danielle deRoche – Chapters / Certification
- Carrie Lopez – Bookkeeping / CAB
- John Hedrick – Asst Bookkeeper
- Thomasine (Tomi) Okey – Membership
- Alexandra Kowalski – Operations Admin
- Samantha Bernal – INFORMZ / Social Media
- Holly Witte – Pubs Mgr / Consulting
- Betty Morimoto – Database (*Behind the Scenes*)

- *We practice diversity in our team!*

✓ info@incose.net / helpdesk@incose.net

Michael J. Vinarcik  , Treasurer

Finance Report

2022 Budget (\$M USD)

	2022 Budget	2022 ETC	2021 Budget	2022 YTD	2021 YTD	2020 YTD
Income	4.2	4.0	\$3.7	1.60	1.55	1.72
Expense	4.9	4.5	4.2	0.91	0.81	1.05
Net	(0.7)	(0.5)	(0.5)	0.70	0.74	0.67

Budget includes reserve for future additional paid services

Numbers may be adjusted as further 2022 revenue and event impacts become evident

Key Areas (\$ USD)

	2022 YTD	2021 YTD	2020 YTD
Membership (Net)	0.98M	1.15M	1.03M
Events (Net)	165K	47K	95K
Administration	(194K)	(202K)	(199K)

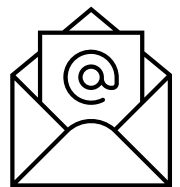
INCOSE is in good financial health and can continue to use its resources to invest in products, infrastructure, and membership value.

Barclay Brown , CIO
Molly Kovaka, IT Team Senior Project Manager

IT Report

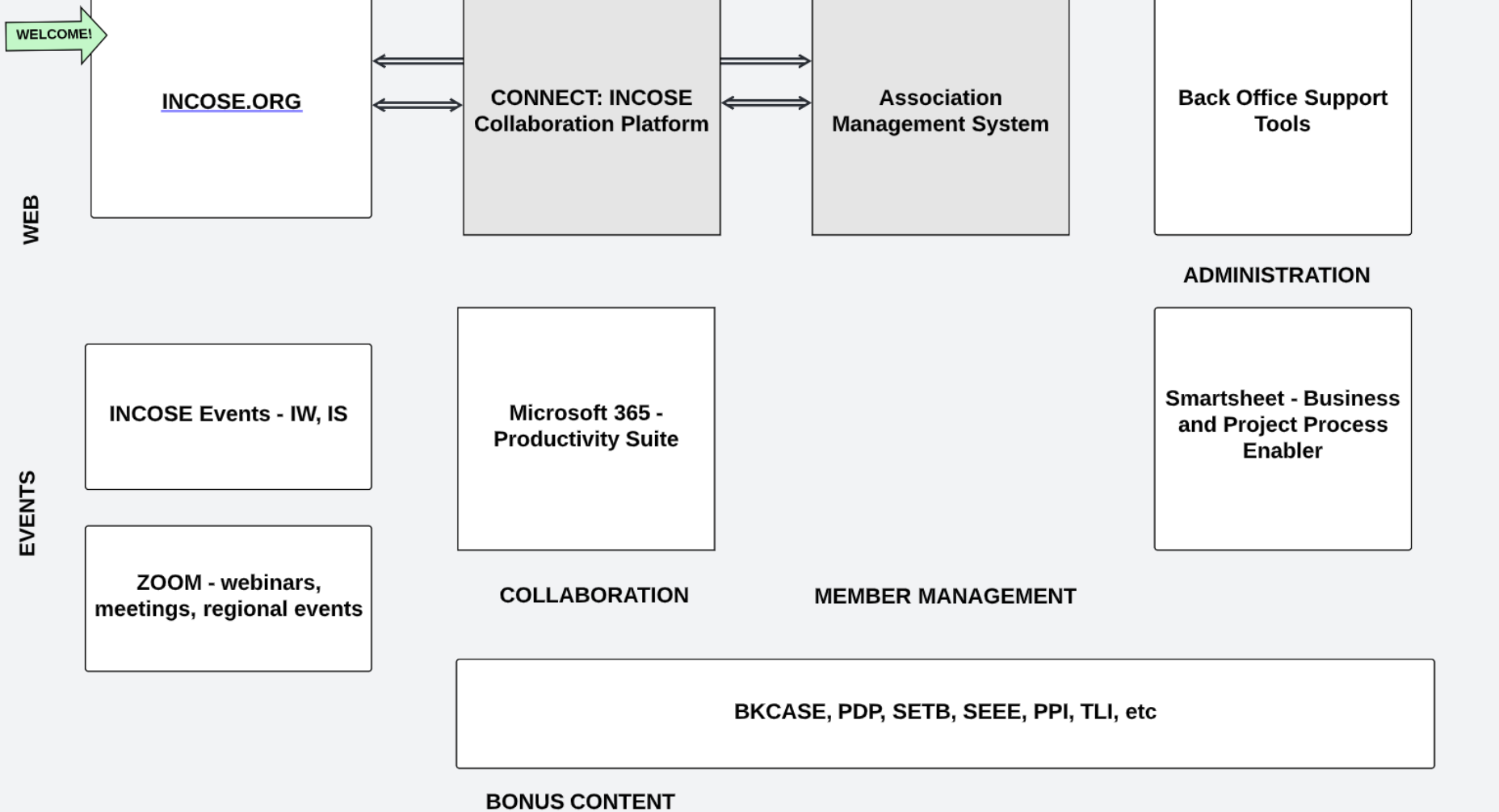
IT for YOU in 2022

- Expansion of many IT capabilities underway
 - What's Changing?
 - What's the Future State Vision?
 - How are We Going to Get There?
- *Invitation: Lead the transformation process in YOUR INCOSE community*

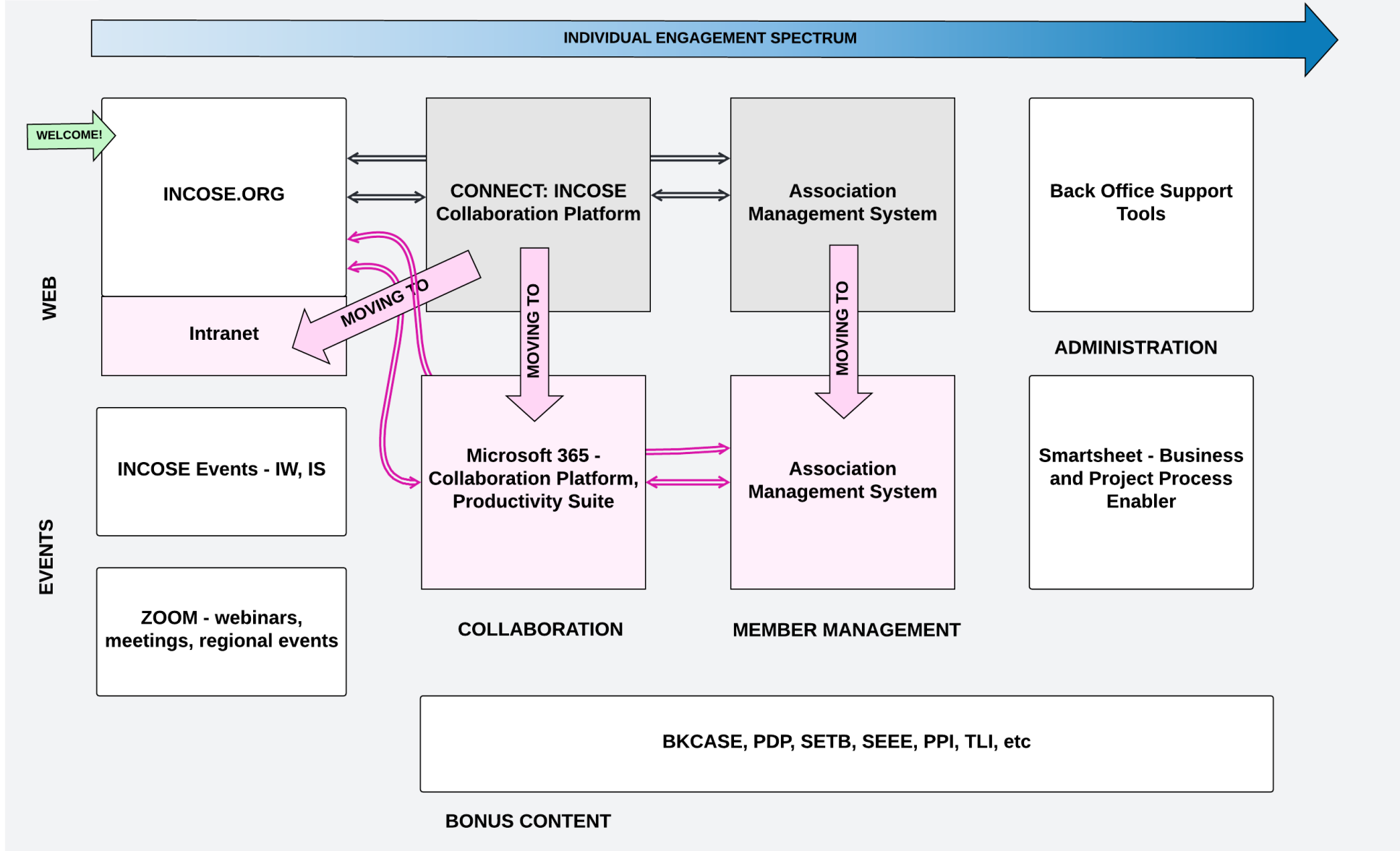




INDIVIDUAL ENGAGEMENT SPECTRUM



INCOSE IT Architecture Today: A Bird's Eye View



INCOSE IT Architecture: Changes in the Works

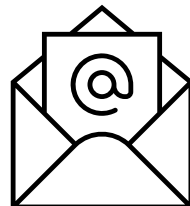
Two Major Hubs for Community Activity: the INCOSE Website and M365 Suite



What's Changing for YOU?

IT System	Change	Audience	Impact	Timing	Benefit
Email	All members get an INCOSE email address	All INCOSE members	Action may be required to set up, access, or forward INCOSE email	NOW	Consistent member contact points Simplified access across systems
Group Emailing	Use dynamic email groups to contact community members instead of offline lists or the clunky Profile portal interface	INCOSE community members (Chapter, WG, etc) Interested INCOSE friends	Community membership lists will be dynamically generated and updated based on committee membership in our Association Management System	NOW – Q3 2022	No need for community leaders to manage member lists Enhanced member privacy Enhanced accuracy and effectiveness of email contacts

Take Action! Get your community set up today...



Email barclay.brown@incose.net to begin the process of setting up your community on the new collaboration platform

INCOSE Microsoft Accounts

Regular Accounts

- Most INCOSE members
- Your login and email will be either @incose.net or @incose.buzz, Clark.Kent@incose.net
- Email forwarding
- Use to access Yammer, shared services, email groups
- Created in groups by community (chapter, WG, committee, etc.)



Teams Accounts

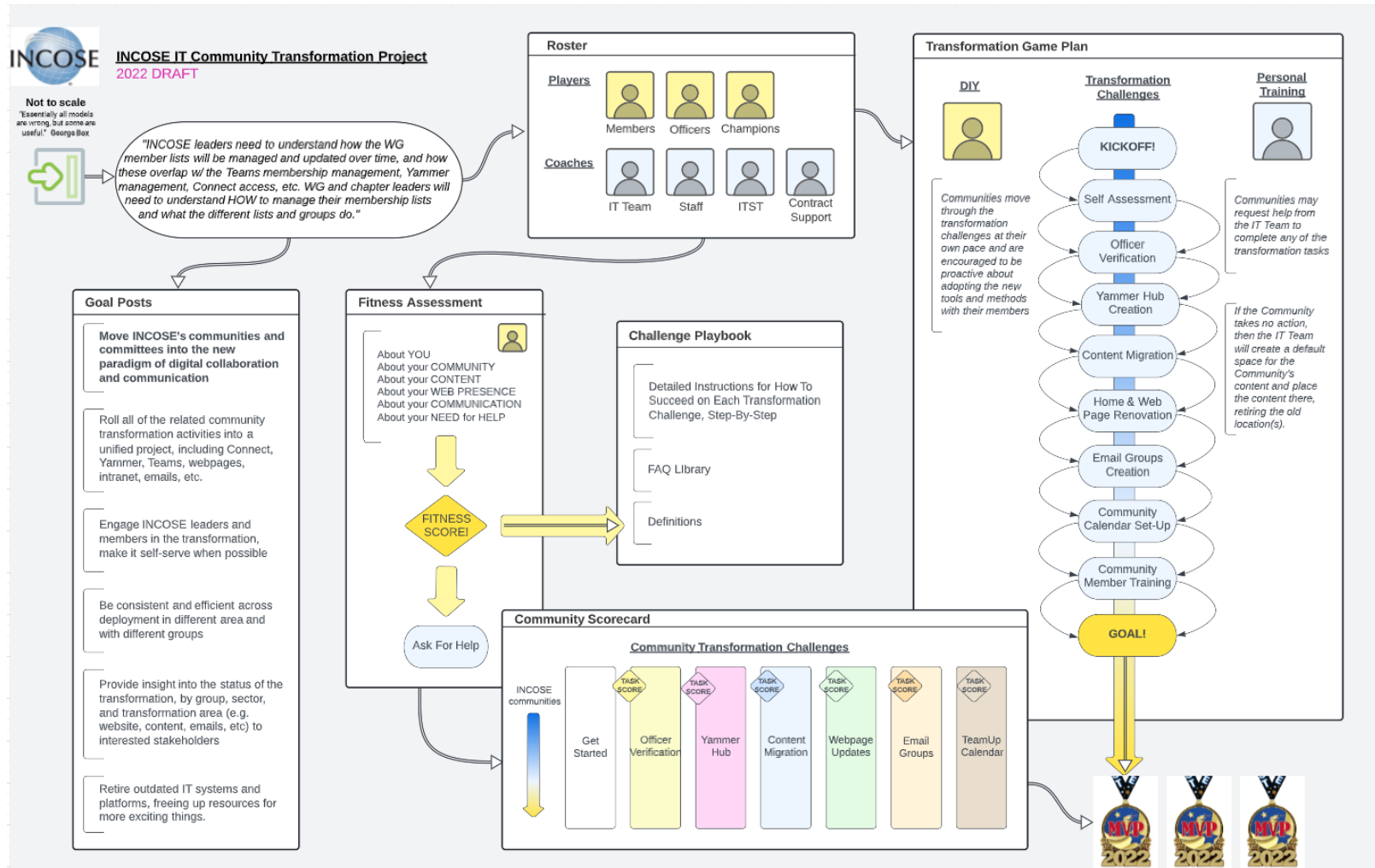
- Leaders and those working on projects for INCOSE (about 5% of INCOSE members)
- Login and email will be @incose.net, e.g. Tony.Stark@incose.net
- Use to access exchange email, calendaring, Teams
- Team leader requests Teams accounts for team members

What's Changing for YOU?



IT System	Change	Audience	Impact	Timing	Benefit
"Connect" Collaboration Space for the INCOSE Community	"Connect" hosting platform will be retired. Content and pages to be moved to a combination of intranet webpages and Yammer, and Teams platforms	Active INCOSE members and collaborators	Content owners will be tapped to assess content prior to migration. Community leaders will be tapped to facilitate migration and adoption by team members.	June 2022 and beyond Must be complete by Q3 2022	Enhanced community collaboration and content sharing. Enhanced look, feel, and features. Faster page load times.
INCOSE Website	Updated top-level navigation, updated design template, re-organized content, new intranet pages	All website visitors All INCOSE members	New visual appearance and site navigation More "Where do I find?" questions for a little while	July 2022 and beyond	Improved professional look for INCOSE. More intuitive site based on user input. Less junk and more value.
Member Profile Management	Member profiles will move to a new AMS platform, have slightly different features	All INCOSE members	A new login credential will need to be established	August 2022 and beyond	Enhanced member profile management. Enhanced backend management of member services and benefits.

How do we get to the Future?



Community Transformation Project

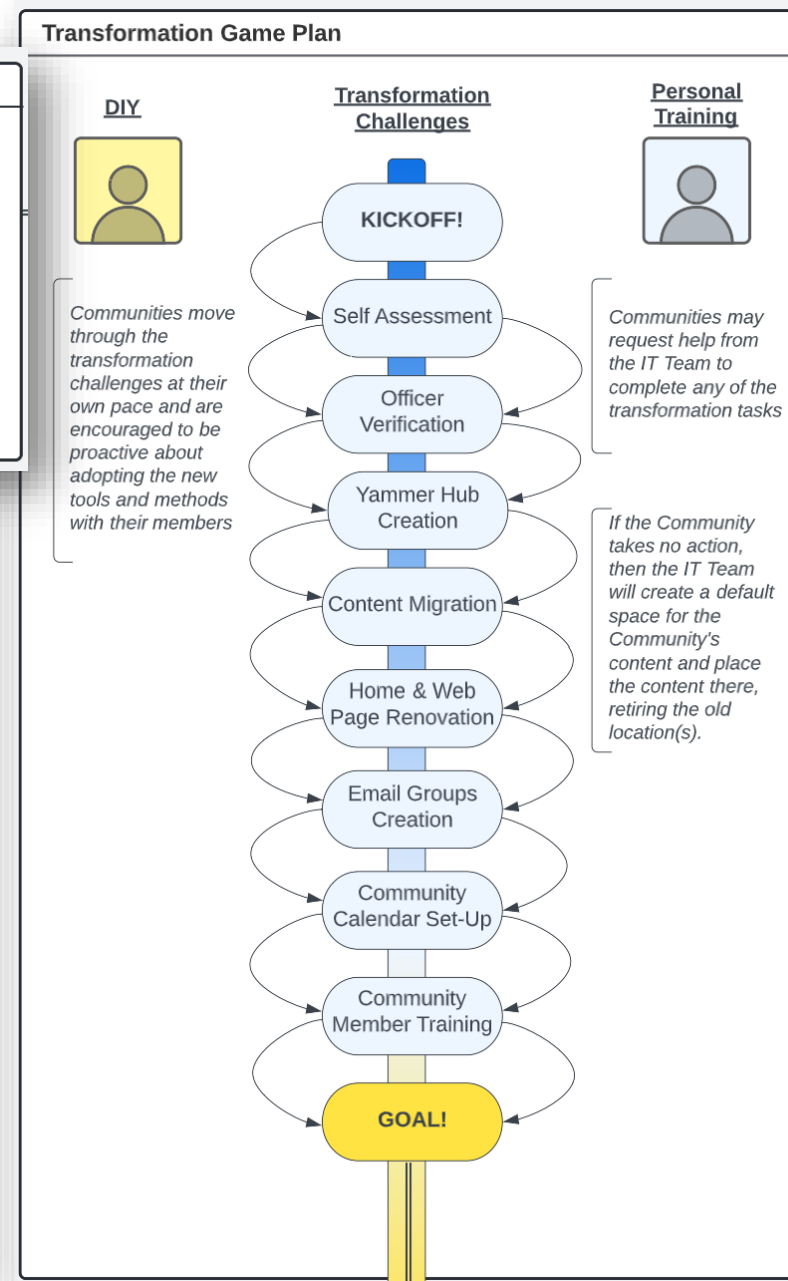
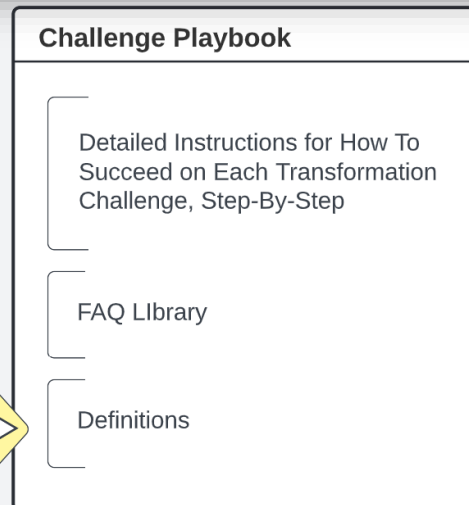
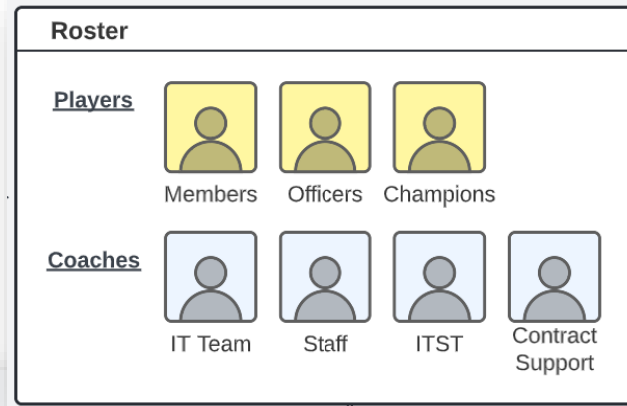
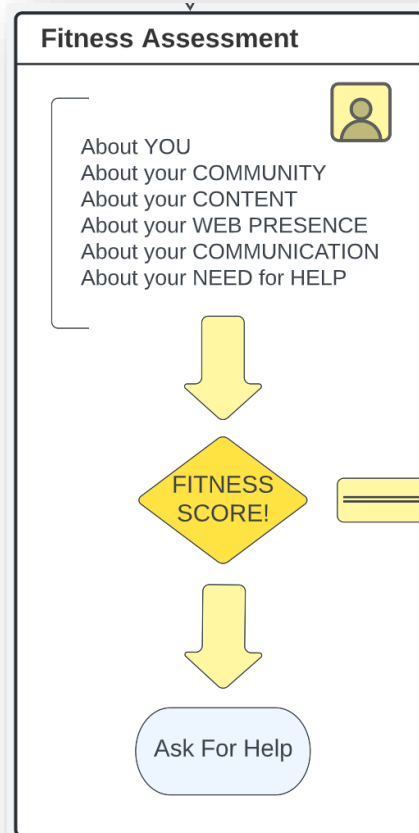
- Step 1: Make a Plan
- Step 2: Test the Plan
- Step 3: Recruit Help
- Step 4: Execute the Plan
- Step 5: Listen and Improve
- Step 6: Cross the Finish Line

Community Transformation Project



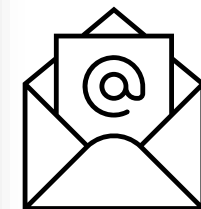
Project Goalposts:

1. **Move INCOSE's communities and committees into the new paradigm of digital collaboration and communication**
2. Roll all of the related community transformation activities into a unified project, including **Connect, Yammer, Teams, webpages, intranet, emails**, etc.
3. Engage INCOSE leaders and members in the transformation, make it **self-serve** when possible
4. Be **consistent and efficient** across deployment in different area and with different groups
5. Provide **insight into the status** of the transformation, by group, sector, and transformation area (e.g. website, content, emails, etc) to interested stakeholders
6. **Retire outdated IT systems** and platforms, freeing up resources for more exciting things.



Community Transformation Project: Step-by-Step

Take Action!
Volunteer to be a transformation leader!



Email your Community Chair to Volunteer

IT for YOU in 2022

- Expansion of many IT capabilities underway
 - What's Changing?
 - What's the Future State Vision?
 - How are We Going to Get There?
- ***Invitation: Lead the transformation process in YOUR INCOSE community***
 - ***Volunteer to lead your community's transformation***
 - ***Research your community content***
 - ***Respond to project emails asking for action***
 - ***Ask questions if things are not clear***



Chris Hoffman , Technical Director

Technical Operations Report

Accomplishments



- Get Involved!
 - See IW2022 working group information sheets for this year's plans
 - <https://www.incose.org/iw2022/working-group-information-sheet>
- NEW Working Group!
 - Systems Engineering and Lawmaking
 - **Purpose:** To advance the theory, practices, and education of laws of government, for example, legislative statutes, by applying systems engineering principles and discipline.
 - **Chair:** Gregory Bulla
 - Co-Chairs: Kaleb Houck, Mitchell Seime
 - Senior Advisor – David Schrunk

 2022 Annual INCOSE HYBRID EVENT Torrance, CA, USA Jan 29 - Feb 1, 2022 Premier Systems Engineering Workshop				
Working Group Information Sheet				
The INCOSE Working Groups have established a Working Group Information Sheet (WIS) to help INCOSE Members learn more about the Working Groups and decide where to get involved. The WIS contains some basic information about the Working Group as well as their results from IW2022. The WIS included below were displayed at the Market Place which took place at the end of IW2022.				
File	Type	Size	Date	Download
IW2022-WGIS-Configuration_Management	PDF	1.94 MB	07 Feb, 2022	 Download
IW2022-WGIS-Decision_Analysis	PDF	1.47 MB	07 Feb, 2022	 Download
IW2022-WGIS-Agile_Systems_and_Systems_Engineering	PDF	1.56 MB	07 Feb, 2022	 Download
IW2022-WGIS-Competency	PDF	1.44 MB	07 Feb, 2022	 Download
IW2022-WGIS-Architecture	PDF	2.10 MB	07 Feb, 2022	 Download
IW2022-WGIS-Defense_Systems	PDF	1.35 MB	07 Feb, 2022	 Download
IW2022-WGIS-Empowering_Women_Leaders_in_SE	PDF	259.97 KB	07 Feb, 2022	 Download
IW2022-WGIS-Infrastructure	PDF	1.35 MB	07 Feb, 2022	 Download
IW2022-WGIS-Enterprise_Systems	PDF	1.31 MB	07 Feb, 2022	 Download
IW2022-WGIS-Lean_Systems_Engineering	PDF	1.38 MB	07 Feb, 2022	 Download
IW2022-WGIS-PM-SE_Integration	PDF	1.38 MB	07 Feb, 2022	 Download
IW2022-WGIS-Systems_Engineering_Tools_Database	PDF	1.51 MB	07 Feb, 2022	 Download
IW2022-WGIS-Tools_Integration_Model_Lifecycle_Management	PDF	1.40 MB	07 Feb, 2022	 Download
IW2022-WGIS-Product_Lines_Engineering	PDF	1.37 MB	07 Feb, 2022	 Download
IW2022-WGIS-Social_Systems	PDF	1.34 MB	07 Feb, 2022	 Download
IW2022-WGIS-Natural_Systems	PDF	1.36 MB	07 Feb, 2022	 Download

TechOps & IS2022



- Tech Program & Best Papers selection completed
- Event support as session chairs, networking
- Tech Ops Invited Content

I hope to see you there!

The program by numbers



15 Tutorials



4 Keynote speakers



10 Panels



Over **130** Presentations

Tue 28
10:00
12:10
EDT

Transforming Mobility: Automotive Executive Roundtable

Moderator(s): Carla Bailo (Center for Automotive Research (CAR)); Anne O'Neil (Systems Catalyst & Strategist for Mobility and Infrastructure, AOC Systems Consortium);
Session: 4.6 - Tech Ops Invited Content

Tue 28
13:30
14:55
EDT

Transdisciplinary Perspectives on Systems Engineering in and for Contested Cyber Environments

Moderator(s): Jimmie McEver (INCOSE - Technical Operations);
Panelist(s): Rick Dove ; Tom McDermott ; Stephen Sutton ; Erika Palmer ; Alan Hardling ;
Session: 5.6 - Tech Ops Invited Content

Tue 28
15:30
16:55
EDT

MBSE Lightning Round: MBSE Implementation progress reports from the field

Moderator(s): Mark Sampson (INCOSE);
Panelist(s): Robert Halligan (PPI); Elise Higgins (Medtronic); Emilee Bovre (NASA);
Session: 6.6 - Tech Ops Invited Content

<https://www.incose.org/symp2022/symposium/event-schedule>

We Need You in TechOps Leadership!



- AstD Process Enablers (OPEN)
- Deputy Technical Director (IW2023)
- WG Chair / Co-Chair Rotations (~2 years)
- Standards Development Department (especially in review & comment cycles)

"Work yourself out of a job"

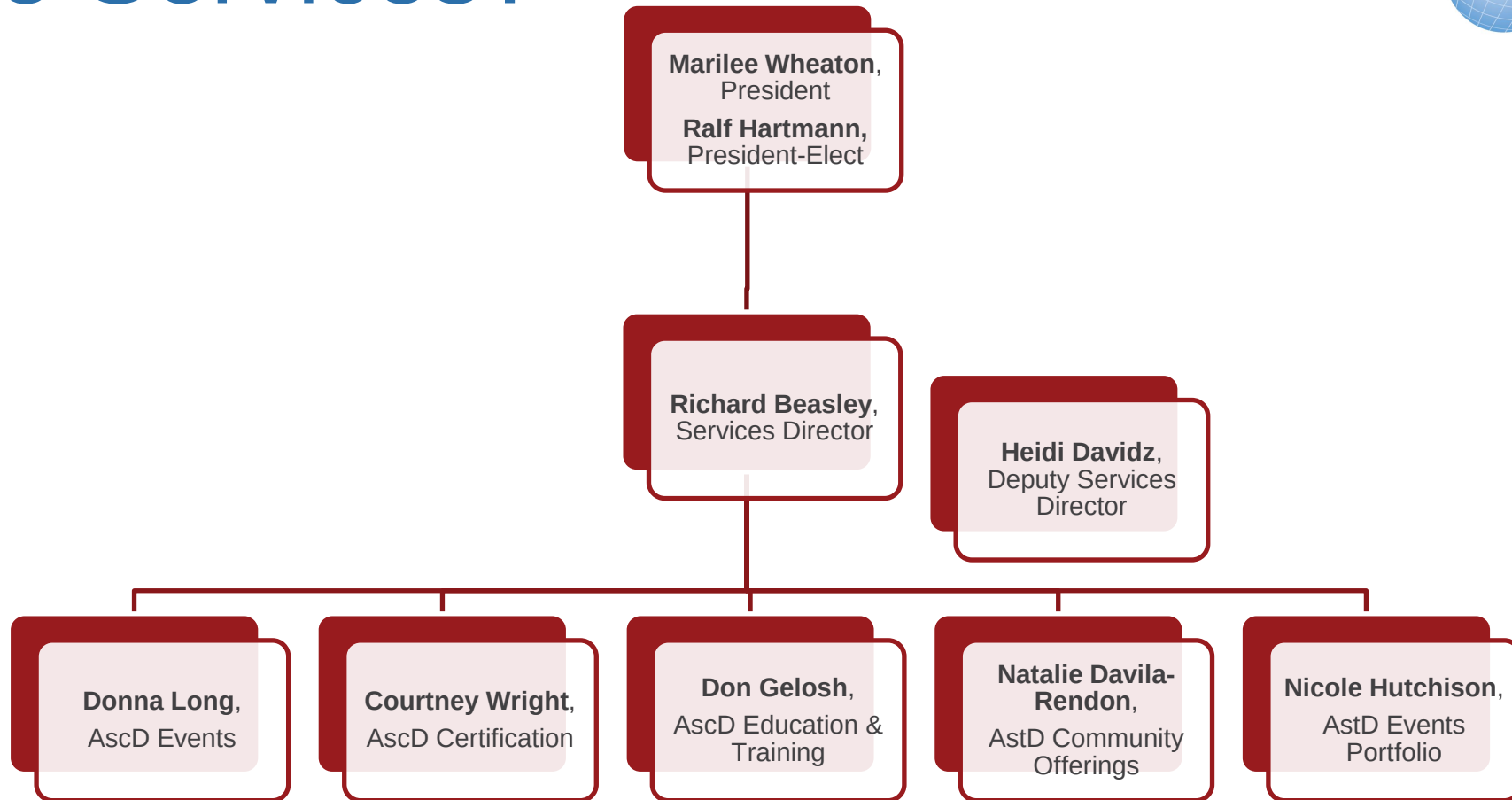
Interested to help lead?

**Reach out to christopher.hoffman@incose.net
and apply to postings on Volunteer Opportunities Board!**

Richard Beasley , Services Director

Services Report

Who are Services?



“Provide Value Through Impactful Services”

Value Adding Services

Main Associate Director's activity

- Certification
- Events
- Education and Training – **PDP coming soon**

Community Offerings – smaller services

- Webinars
- Systems Exchange café
- Spotlight On – extended conversation / deep dive – coming soon

Longer term ideas

- More accessible publications (using the IT!)
- Mentoring as a service (linked to PDP)

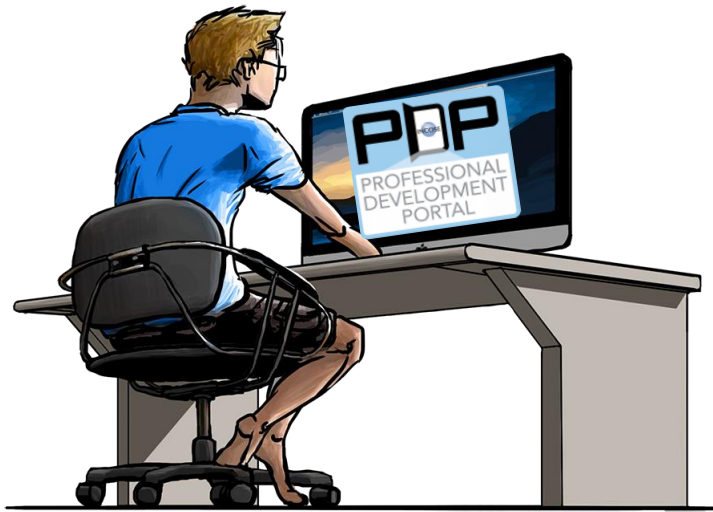
Help from you:

- Use the services
- Volunteer to help
 - Review papers
 - Host cafés
 - Present webinars / papers etc.
 - Certification Application Reviewer
 - Material for PDP
 - Etc
- Feedback on the services and others you / other members might like
- Promote / make other members aware of the services so maximum use made

Don Gelosh , AscD, Education & Training (E&T)

PDP MVS Update

What is the *Professional Development Portal?*



The **Professional Development Portal (PDP)** is a comprehensive solution for Systems Engineers and other professionals who want to enhance their systems engineering knowledge and skills. The main initial PDP capabilities available at the launch are the ability to:

- ***Conduct a competency self-assessment*** based on INCOSE's System Engineering Competency Framework (SECF).
- ***Browse and search the PDP Catalog*** to find needed learning resources.
- ***Save browse/search results on their "bookshelf."*** Each user will have the opportunity to save to their own "bookshelf" to review later.
- ***Provide feedback.***

Initial **PDP** deployment (Minimum Viable Service) scheduled for IS 2022.

INCOSE Services Operations Providing a Long-Term Service for Systems Engineers.

PDP: Competency Self-Assessments

- The PDP user can self-assess their current professional development level per the Systems Engineering Competency Framework (SECF).

Core Competencies

[Back to Competency Groups](#)

SYSTEMS THINKING

The application of the fundamental concepts of systems thinking to Systems Engineering. These concepts include understanding what a system is, its context within its environment, its boundaries and interfaces, and that it has a lifecycle. System thinking applies to the definition, development and production of systems within an enterprise and technological environment and is a framework for curiosity about any system of interest.

[View details](#)

Unassessed

Unaware

Awareness

Supervised Practitioner

Practitioner

Lead Practitioner

Expert

Core Competencies

[Back to Competency Groups](#)

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[View details](#)

Unassessed

Unaware

Awareness

- Explains what "systems thinking" is and explains why it is important.
- Explains what "emergence" is, why it is important, and how it can be "positive" or "negative" in its effect upon the system as a whole.
- Explains what a "system hierarchy" is and why it is important.
- Explains what "system context" is for a given system of interest and describes why it is important.
- Explains why it is important to be able to identify and understand what interfaces are.
- Explains why it is important to recognize interactions amongst systems and their elements.
- Explains why it is important to understand purpose and functionality of a system of interest.
- Explains how business, enterprise and technology can each influence the definition and development of the system and vice versa.
- Explains why it may be necessary to approach systems thinking in different ways, depending on the situation, and provides examples.

Supervised Practitioner

- Defines the properties of a system
- Explains how system behavior produces emergent properties
- Uses the principles of system partitioning within system hierarchy on a project.
- Defines system characteristics in order to improve understanding of need.
- Explains why the boundary of a system needs to be managed.
- Explains how humans and systems interact and how humans can be elements of systems.
- Identifies the influence of wider enterprise on a project.
- Uses systems thinking to contribute to enterprise technology development activities.
- Develops their own systems thinking insights to share thinking across the wider project (e.g. working groups, other teams)
- Develops own understanding of this competency area through Continual Professional Development (CPD)

Practitioner

- Identifies and manages complexity using appropriate techniques
- Uses analysis of a system functions and parts to predict resultant system behavior.
- Identifies the context of a system from a range of viewpoints including system boundaries and external interfaces.
- Identifies the interaction between humans and systems, and systems and systems.
- Identifies enterprise and technology issues affecting the design of a system and addresses them using a systems thinking approach.
- Uses appropriate systems thinking approaches to a range of situations, integrating the outcomes to get a full understanding of the whole.
- Identifies potential enterprise improvements to enable system development
- Guides team systems thinking activities in order to ensure current activities align to purpose.
- Develops existing case studies and examples of systems thinking to apply in new situations.
- Guides new or supervised practitioners in system thinking techniques in order to develop their knowledge, abilities, skills or associated behaviors.
- Maintains and enhances own competence in this area through Continual Professional Development (CPD) activities

Lead Practitioner

- Creates enterprise-level policies, procedures, guidance and best practice for systems thinking, including associated tools.
- Judges the suitability of project-level systems thinking on behalf of the enterprise, to ensure its validity.
- Persuades key enterprise-level stakeholders across the enterprise to support and maintain the technical capability and strategy of the enterprise.
- Adapts existing systems thinking practices on behalf of the enterprise to accommodate novel, complex or difficult system situations or problems.
- Persuades project stakeholders across the enterprise to improve the suitability of project technical strategies in order to maintain their validity.
- Persuades key stakeholders to address enterprise-level issues identified through systems thinking.
- Coaches or mentors practitioners across the enterprise in Systems thinking in order to develop their knowledge, abilities, skills or associated behaviors.
- Promotes the introduction and use of novel techniques and ideas in systems thinking across the enterprise, to improve enterprise competence in this area
- Develops expertise in this competency area through specialist Continual Professional Development (CPD) activities

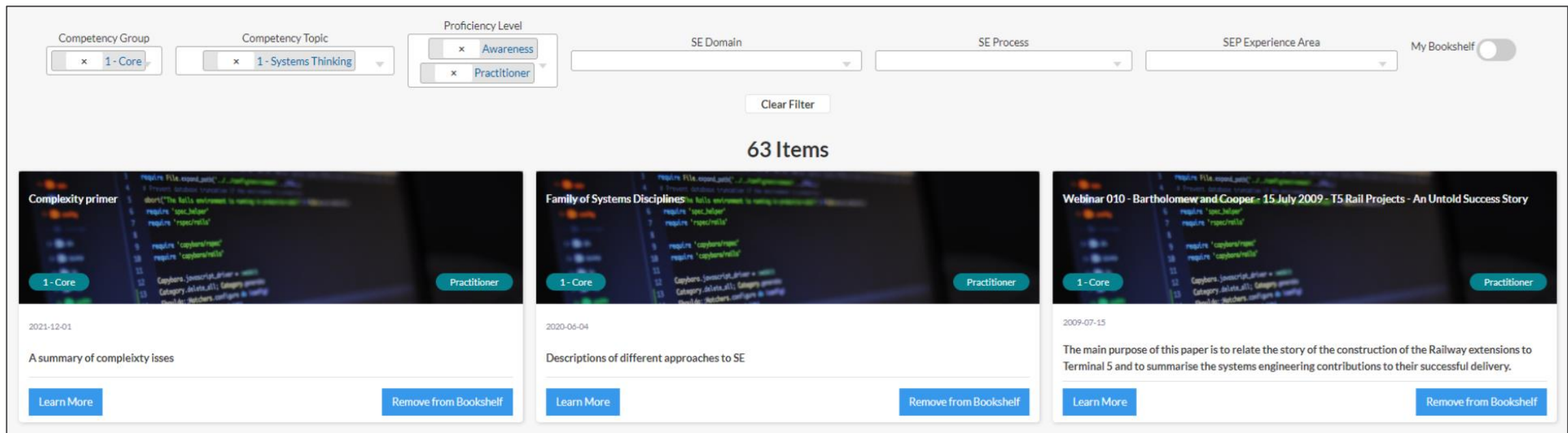
Expert

- Communicates own knowledge and experience in systems thinking in order to improve best practice beyond the enterprise boundary
- Influences individuals and activities beyond the enterprise boundary to support the systems thinking approach of their own enterprise
- Advises organizations beyond the enterprise boundary on the suitability of their approach to systems thinking
- Advises organizations beyond the enterprise boundary on complex or sensitive systems thinking issues.
- Champions the introduction of novel techniques and ideas in systems thinking beyond the enterprise boundary, in order to develop the wider Systems Engineering community in this competency.
- Coaches individuals beyond the enterprise boundary in systems thinking techniques, in order to further develop their knowledge, abilities, skills or associated behaviors.
- Maintains expertise in this competency area through specialist Continual Professional Development (CPD) activities

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PDP Catalog Browsing

- For all content provided and classified, PDP users can browse the catalog by the PDP Taxonomy fields.



The screenshot displays the PDP Catalog Browsing interface. At the top, there are filter controls for Competency Group (1 - Core), Competency Topic (1 - Systems Thinking), Proficiency Level (Awareness, Practitioner), SE Domain, SE Process, and SEP Experience Area. A 'Clear Filter' button is located below these controls. The main content area shows 63 items, with three items displayed as cards:

- Complexity primer** (2021-12-01): A summary of complexity issues. Includes 'Learn More' and 'Remove from Bookshelf' buttons.
- Family of Systems Disciplines** (2020-06-04): Descriptions of different approaches to SE. Includes 'Learn More' and 'Remove from Bookshelf' buttons.
- Webinar 010 - Bartholomew and Cooper - 15 July 2009 - T5 Rail Projects - An Untold Success Story** (2009-07-15): The main purpose of this paper is to relate the story of the construction of the Railway extensions to Terminal 5 and to summarise the systems engineering contributions to their successful delivery. Includes 'Learn More' and 'Remove from Bookshelf' buttons.

Nicole Hutchison , AstD, Events Portfolio

VS – Events

Join Us for the 32nd Annual IS!

Detroit, MI, USA – INCOSE'S FIRST HYBRID IS!



- Detroit Marriott at the Renaissance Center
- Hybrid Event – in-person and online
- Virtual Attendance Includes:
 - 4 Exciting Keynotes
 - Invited Content from:
 - The President / President-Elect
 - Tech Ops Leadership
 - SE Fundamentals
 - Best Papers
 - Select additional sessions each day
- In person attendance includes access to the virtual platform
- Technical Program <https://www.incose.org/symp2022/symposium/event-schedule#>



32nd Annual **INCOSE**
international symposium

hybrid event

Detroit, MI, USA
June 25 - 30, 2022

The Power of Connection

IS 2022 Replays and Recordings

- Livestreamed sessions will also be available through the platform after the event closes (“on demand”)
- All technical sessions will be recorded
 - Technical session recordings will be made available through INCOSE at a future date
 - Note: In the event that IP release are missing or unavailable, the recordings will not be shared
- Note: Virtual attendees will have access to some but not all presentation materials. (Roughly the equivalent of 3 of the tracks)

International Workshop (IW) 2023

Torrance, CA, USA



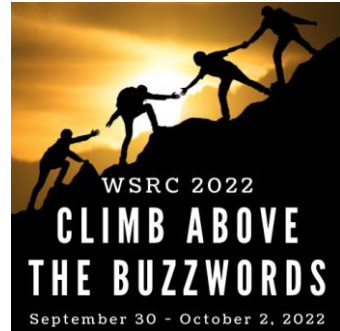
- Torrance Marriott near Los Angeles, CA, USA
- Hybrid Event – Evolution from our 2022 approach
- IW is Focused on Collaborative Work
 - Encouragement of joint efforts between Working Groups
 - Push toward new Products



Nicole Hutchison , AstD, Events Portfolio

Events Portfolio

What is an Event?



27 - 28 May, Virtual Congress

The inaugural Integrated Project Engineering Congress (IPEC), is now over and delivered topics of **Leadership and Management**, whilst bringing together representatives from within the fields of **Risk, Systems Engineering, Cost Engineering, Project Controls** and **Asset Management**.



Nordic Systems Engineering Tour

Empowering the North with Nordic Systems Engineering Experience

Coming up in 2022

- Chicagoland Spring Tutorial – Virtual
 - Saturday May 7th, Thursday May 12th, & Saturday May 21st
 - Lifecycle Concepts and Needs Definition Group Project
 - Instructor – Lou Wheatcraft
- SETE (SE Test & Evaluation) Conference – In-person
 - 12-14 September
 - Canberra , ACT
- WSRC (Western States Regional Conference) – Hybrid
 - 30 Sept – 2 Oct
 - Golden, CO, USA
- INCOSE South Africa Annual Conference – Virtual
 - 14-16 November
- HSI (Human Systems Integration) Conference – Hybrid
 - 16-18 November
 - Torrance, CA, USA

More in 2022 . . .

- UK Systems Engineering Conference
 - 22-23 November
- GLNC (Great Lakes National Conference)
 - Date TBD, fall 2022
- Requirements WG (Monthly)
 - Exchange Café and Guest Speakers (alternating months)
- SE Fundamentals (fall 2022)
 - Americas
 - EMEA
 - Asia Oceania
- San Diego and LA Chapters
 - Regular presentations
 - Zoom (anyone can attend)
- Many chapters or WGs holding smaller regular “events”

Share Your Events

- **Submit your events:** submit_event@incose.net
 - Title
 - Date(s) and Time(s)
 - Sector
 - Language
 - Delivery (in person, online, or both)
 - Type (workshop, conference, webinar, etc.)
 - Summary/Keywords
- Current listing of events:
<https://www.incose.org/events-and-news>

Courtney Wright , AscD, Certification

VS – Certification

Individual Certification

- Three certification levels for increasing independence and expertise throughout career
- Standard requirements for each certification level but multiple ways to meet them
- Most popular new path to certification is credit through schoolwork, called “Academic Equivalency”

Why Allow Academic Equivalencies?



- Recognize that universities assess similar topics as the INCOSE knowledge exam
- Allow assessment through a variety of methods
- Allow assessment in languages other than English
- Encourage university coursework in SE

How can a university get Academic Equivalency?



- Available to universities for degree-eligible coursework
- Available to universities who are members of INCOSE Corporate Advisory Board or chapter affiliates
- Requires university to document their assessment methods for each learning objective

How does a student get to use Academic Equivalency?

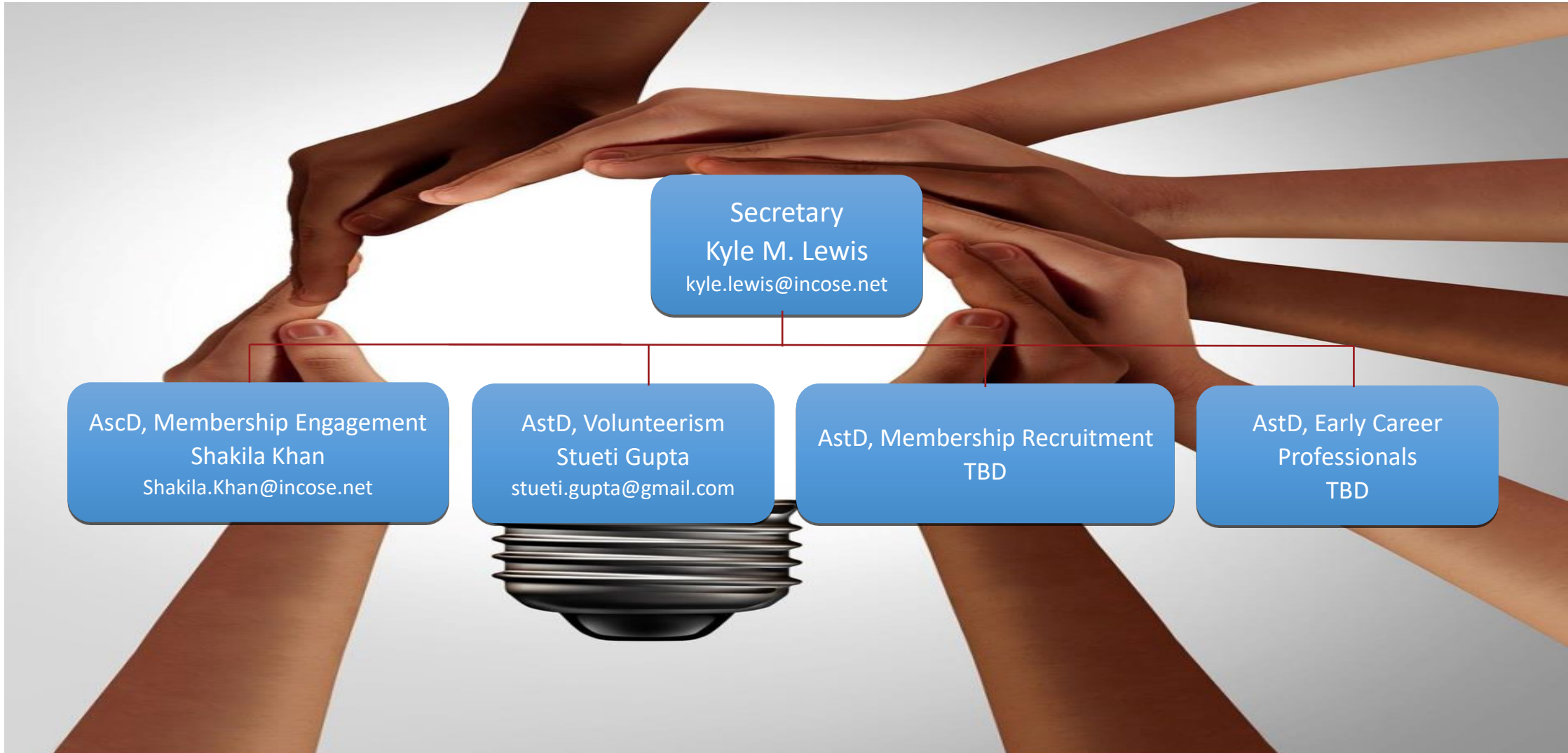


- Attend a university with existing Academic Equivalency agreement.
- Score highly in required coursework.
- Be an INCOSE member.
- Submit ASEP application fee.
 - Fee waivers available for PPP2 and PPP3 AcEq applicants for ASEP through 2023.

Kyle M. Lewis , Secretary

VS – Membership – Individual

Membership VS Organization



New Member Welcome Center Cafés



INCOSE SEP

Vision 2035

Speakers: Tony Williams and Chris Hoffman
Events: 3 (Americas, EMEA, Asia-Oceania)
Attendees: 120



Speakers: Stueti Gupta and Dr. Richard Beasley
Events: 2 ((Americas and EMEA, Asia-Oceania)
Attendees: 87



Speakers: Dr. Nicole Hutchison, Events
Events: 2 ((Americas and EMEA, Asia-Oceania)
Attendees: TBD

Jan 2022

Mar 2022

May 2022

Feb 2022

Apr 2022



Speakers: Dr. Barclay Brown and Courtney Wright
Events: 3 (Americas, EMEA, Asia-Oceania)
Attendees: 112



INCOSE and
Career Development
www.incose.org

Speakers: Dr. Barclay Brown, Dr. Shakila Khan
Events: 2 (Americas, EMEA, & Asia-Oceania)
Attendees: 91



International Symposium
& Events Team

International Workshop

Q2 2022 BOD: Remote

Membership Resources

Volunteer Opportunities

- Visit ***INCOSE.org/about-incose/volunteers***
- Help create more volunteering roles
- Open opportunities:
 - **Outreach:**
 - Assistant Director for Industry and Domain Outreach – Rest of the World
 - Assistant Director for Operations (Training & Finance)
 - **DEI:**
 - Diversity, Equity, and Inclusion Advisory Committee Member
 - Associate Director for Diversity, Equity and Inclusion
 - **Technical Operations:**
 - Deputy Assistant Director, Technical Events
 - Deputy Technical Director



Ron Giachetti, Corporate Advisory Board (CAB) Chair

VS – Membership – CAB

Achievements, Activities, & Future Goals



- There are currently 126 CAB organizations with an increasing international mix of organizations.
- The CAB nominated individuals for the 8th Cohort of INCOSE's Technical Leadership Institute.
- The CAB Needs, a central focus of the CAB's activities, continue to be worked by the INCOSE Working Groups and Initiatives. We are developing a new set of needs for 2022.
- Future goal is increasing the value proposition of being a CAB member organization.

Maria Romero, AscD, DEI

Diversity, Equity, & Inclusion

DEI-100: Diversity, Equity and Inclusion Policy

- 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 ensure that INCOSE is 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
- Recruitment for a DEI Advisory Committee Member
 - Discuss and promote DEI within INCOSE, help the INCOSE Board of Directors to drive appropriate change relevant to the imperative, and to engage with members and the wider engineering community

Strategic Goals of DEI

- **Goal #1:** Affirming greater inclusion and diversity within INCOSE membership
 - Present a clear message about the importance and priority of this commitment.
 - Commit ourselves anew to creating an organizational environment where all members feel welcome, all voices are heard, and while in pursuit of furthering our knowledge and growth in the technical arena
- **Goal #2:** Recruitment of more members from diverse backgrounds
 - Based on factors such as race, ethnicity, gender, gender identity, sexual orientation, age, social class, physical or mental ability or attributes, religion, religious or ethical values systems, geographical area, national origin, political beliefs, and life experiences

Status: Goal #2: Recruitment of more members from diverse backgrounds

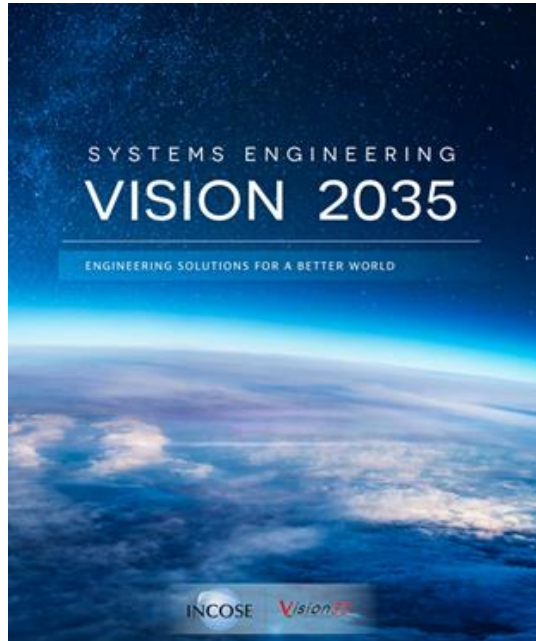


- Setting up a recurring meeting with all new DEI Committee members and Berber Vogt
- Developing panel topics for INCOSE IS 2022
- Wrote emails to inform all volunteers who applied that they have been accepted as part of the DEI Advisory Committee

Christopher Hoffman , Technical Director

VS - Products

New & Updated Products!



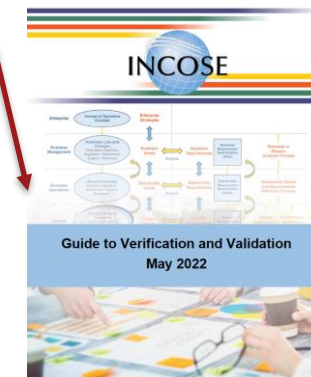
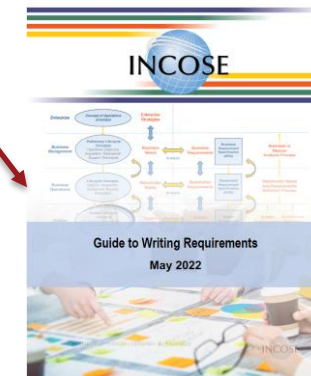
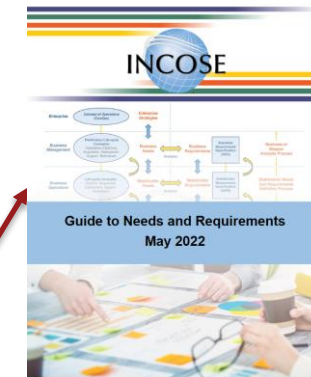
incose.org/sevision



Hardcopy and PDF versions



May 2022 revisions
& complementary
guides coming soon



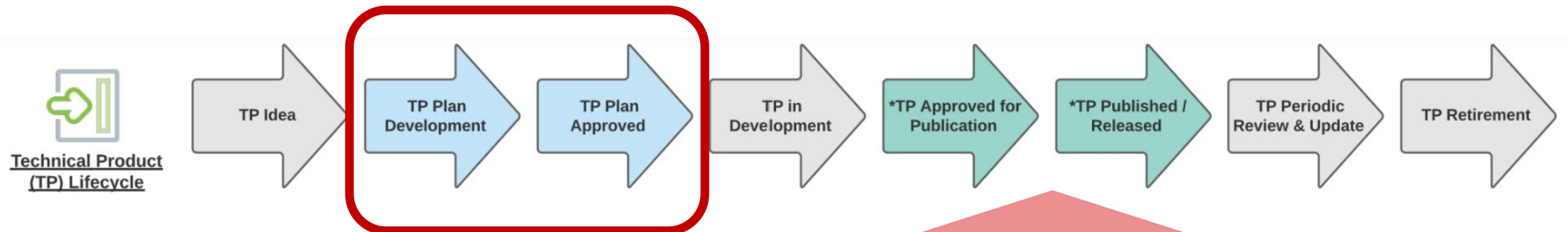
Technical Product Plan 2.0 launched!



HOW

1. Review existing process pros and cons to understand the need and use cases
2. Develop a project definition (charter) to outline the scope of effort and objectives
3. Build and test a mini system for proof of concept
4. Build and test the basic system, collecting input and suggestions
5. Launch the new TPP process for use as soon as possible
6. Refine and enhance the process, tools, interface, and supporting resources as-needed and as resources allow

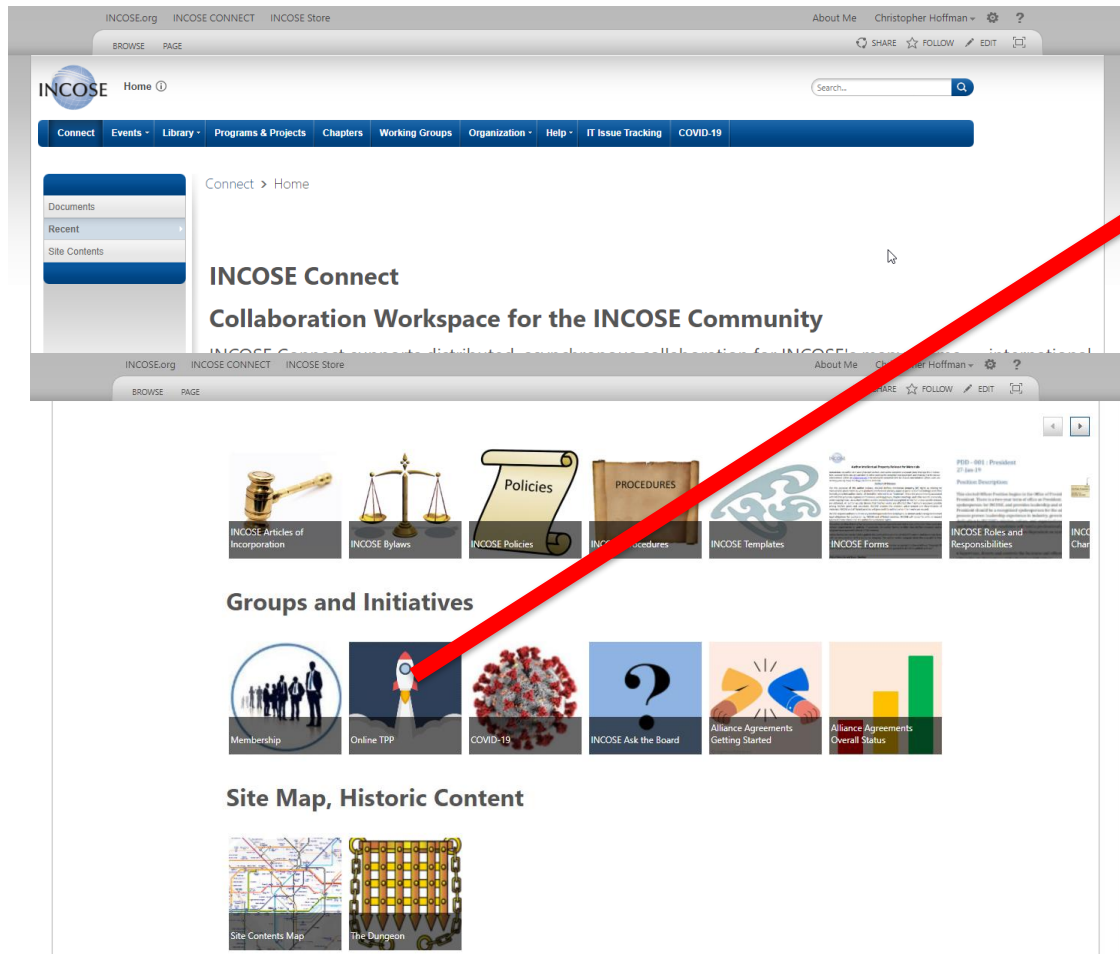
We are here



Links Updated & Content Migrated



<https://app.smartsheet.com/b/publish?EQBCT=fa19c1d90941410f8d7d589496b8a013>



TPP Entry Portal (View Only) :

TPP Entry Portal INCOSE Technical Product Plan (TPP)



TPP Navigation Links
• TPP Entry Portal - published
• MyTPP Dashboard
• TPP Admin Dashboard



WELCOME! Here's How to Begin with Your Technical Product Idea...

TPP Overview

The lifecycle of all INCOSE Technical Products shall start with TPP for the development and commercialization of the product. This TPP tool has been designed to assist the INCOSE members in conceptualizing, planning, contributing to, or updating an INCOSE or Affiliate Product or Service. This tool's goal is to ease the TPP approval process and helps ensure that INCOSE Technical Products and Services are efficiently developed and effectively delivered to targeted customers to maximize impact.

Sufficient planning and organizational review prior to development by volunteer members ensures that valuable volunteer time is not wasted. This planning will also ensure high quality INCOSE Technical Products and Services are being created that will reach the broadest audience while being supported over time.

INCOSE is eternally grateful for our volunteers' eagerness to change the world through the Systems Engineering practices, and we cannot wait to support these efforts.

Get Started

- Review the Author Process Steps
- Download the TPP Template
- List of TPPs In Process
- List of Approved TPPs

Reference Material

- TEC-107: Technical Product & Service Development and ...
- TEC-PROC-02: Technical Products Development & Com...
- ADM-101: Conflict of Interest
- ADM-FORM-02: Conflict of Interest
- ADM-103: Intellectual Property
- Smartsheet User Help
- TPP FAQs

Take Action

- Request a Free INCOSE Smartsheet...
- Submit a New TPP for Initial Review
- Provide Your Feedback

Submit Feedback



TPP2.0 User Feedback

Thanks for taking a moment to share your feedback about the TPP2.0 process and system. Your comments are welcome!

Rate Your TPP2.0 Experience Today *

- ☐ 1. Terrible
- ☐ 2. Not Acceptable
- ☐ 3. Acceptable
- ☐ 4. Pretty Good
- ☐ 5. Fantastic

Feedback *

Tell us about your experience, problems encountered, or ideas for improvement.

Contact You About This?

...

Approved TPPs (click to open report for details)

TPP ID	Technical Product Name	Abstract
TPP-2021-124	A Complexity Primer for Systems Engineers Revision 1	As part of the maintenance activity for the INCOSE 'A Complexity Primer for Systems Engineers' revisions were identified that would be beneficial to the systems engineering community. Recent advances in understanding of complex systems would be beneficial to include in 'A Complexity Primer for Systems Engineers'. These recent advances include the understanding gained through the IS2019 paper, 'Appreciative Methods Applied to the Assessment of Complex Systems' and work done in 2019-2020 on the definition of Complexity and Complex Systems.
TPP-2020-102	A Primer on Artificial Intelligence and the Role of Systems Engineering	INCOSE membership at large who are interested in learning about artificial intelligence, its capabilities, and the role that systems engineering needs to take to both leverage and advance AI.
TPP-2021-126	Application guide for Systems Engineering in the Infrastructure Domain	The SE Handbook defines the DSE processes overall on a high and abstract level, but does not provide guidance nor examples to the audience on how to apply SE in domains like Infrastructure. One (1) Word document to be

TPP Demo – Quick Overview

Scroll down on TPP Entry Portal!

In-Process TPPs (click to open report for details)

TPP ID	Technical Product Name	Lead Author Name	Co-Author Name(s)
TPP-2022-130	Business Relevance of Systems Engineering ebook	Jeannine Sivilly	Jeannine Sivilly, Sarah Sheard, Dorothy
TPP-2022-132	Decision making guidance for applying Agile Systems Engineering	Ron Lyells	
TPP-2022-131	INCOSE Systems Engineering Handbook 5th Edition	David Walden	All working groups are asked to contrit
TPP-2022-129	SE Handbook Healthcare Industry Annex	Christopher Unger	David Cronin; Esteban Solorzano Zele
TPP-2021-123	SE Lifecycle Tool RFQ Template	Christopher Unger	Medical Device Representatives: Dian
TPP-2022-134	TPP Document Template and Guidance	Chris Hoffman	
TPP-2022-133	TPP2.0 Notification Text for Authors, Reviewers, Facilitator	M Kovaka	
TPP-2022-133	TPP2.0 Notification Text for Authors	M Kovaka	

☐ Send me a copy of my responses

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Easy Access Browsing:
Click the TPP cards below to open for more details and to access downloadable copies

Approved TPPs

Card View View List of Approved TPPs (View Only) :  [Report Abuse](#) [Help](#)

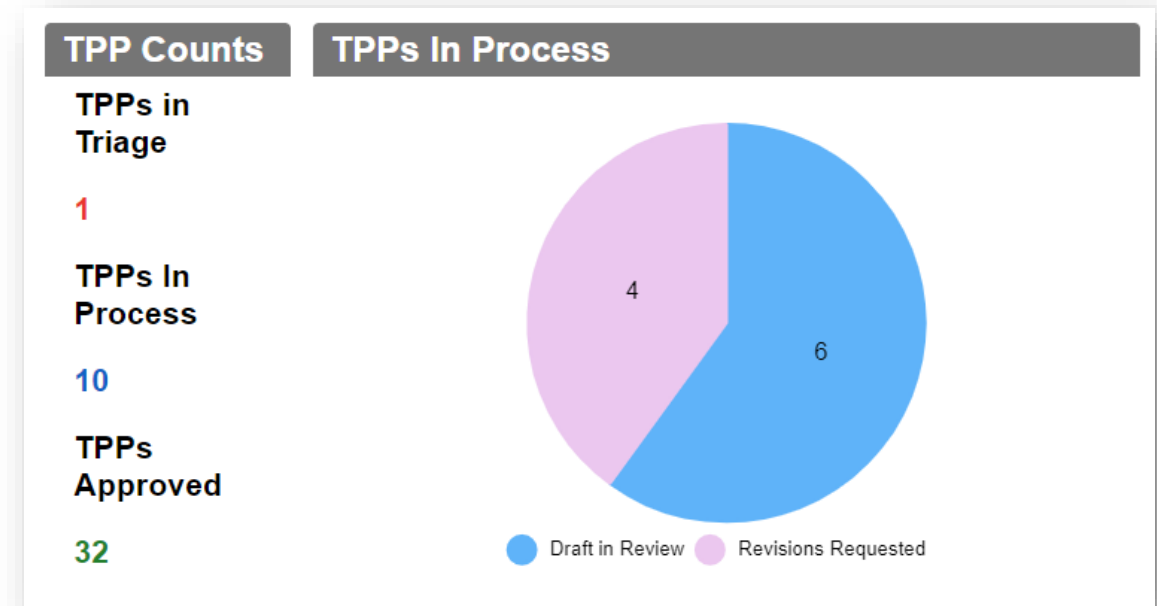
Card View View by TPP Status

Final Product Released (10)

- [A Complexity Primer for Systems Engineers Revisio...](#)
TPP-2021-124
As part of the maintenance ...
Michael D. Watson
Dean Beale - Complex Syst...
15-Aug-2021
- [INCOSE Automotive SE Vision 2025](#)
TPP-2020-73
The INCOSE VISION 2025 p...
George E. Walley
N/A
31-Dec-2020
- [INCOSE SE Vision 2035](#)
TPP-2020-97

Approved (22)

- [A Primer on Artificial Intelligence and the Role o...](#)
TPP-2020-102
INCOSE membership at larg...
Ali K. Raz
Barclay Brown; Ramakrishn...
5-Feb-2022
- [Digital Engineering Measurement Framework](#)
TPP-2021-128
Nowadays is the systems e...
Tom McDermott (IN...
1-Mar-2022
- [Future of Systems Engineering Roadr...](#)
TPP-2021-121



Tom McDermott, Director, Strategic Integration

Strategic Objectives

Purpose of Strategy Sessions

Value Streams



- All INCOSE Leadership (& guests)
- Topics of strategic importance to INCOSE (any of the value streams)
- The Director for Strategic Integration maintains a list of Strategy Session recommendations and dispositions
- Many recommendations generate near-term Board actions
- Most drive longer term strategy

IW2022 Session Summaries

First Official Hybrid Event!

Best Practices in Model
Verification and Validation => TWGs

TWGs <= Ethics as a
Quality
Attribute



Systems Engineering
Modernization
=> V2035
implementation
team

Organizing Outreach
to New Domains => Dir, Outreach
& Pres-Elect

IS 2022 Strategy Sessions



- Session 1a: Tue, 12 Jul 1400 UTC
Session 1b: 12/13 Jul 2200 UTC
- Session 2a: Wed, 13 Jul 1400 UTC
Session 2b: 13/14 Jul 2200 UTC
- Session 3a: Thu, 14 Jul 1400 UTC
Session 3b: 14/15 Jul 2200 UTC



“a” sessions: 7-11am LA, 10am-2pm NYC, 3-7pm London, 4-8pm Europe

“b” sessions: 4-8pm LA, 7-11pm NYC, 7-11am Singapore, 9am-1pm Sydney

Julia Taylor, Director, Outreach

Outreach & Alliances

Outreach Objectives

1. Pioneering new activities with the goal of establishing more long-term relationships with INCOSE
2. Building on our current “Informal Relationships” to strengthen them & increase their involvement in INCOSE
3. Maintaining our current “Formal Relationships” by creating new activities & supporting more opportunities for collaboration

Celebrating Long-Term INCOSE Collaboration

June 2022 will mark the 10th year of INCOSE's collaboration with NAFEMS (International Association for the Engineering, Modelling, Analysis & Simulation Community)! This ongoing relationship is being supported by Ron Carson, PhD, ESEP, INCOSE Fellow

Collaborations in Progress:

- AI IoT IEEE
- SAE
- Army Futures Command
- Environmental Division of the American Chemical Society

Sven-Olaf Schulze , Director, EMEA

Serge Landry , Director, Asia-Oceania

Renee Steinwand , Director, Americas

Sector Reports

Sector News & Membership Trends

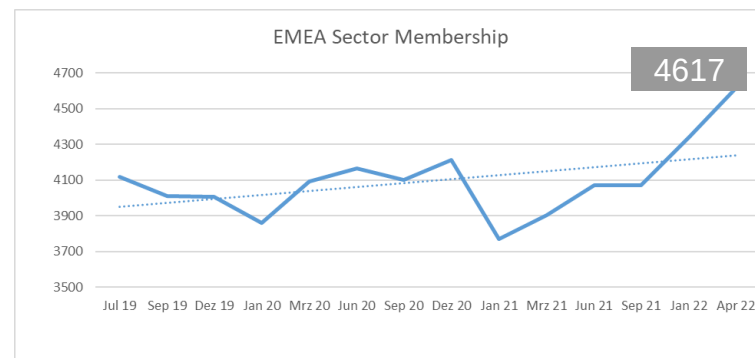
Americas (Sector I)



- Active chapter participation in sector, hybrid meetings
- Latin America (LatA) as Emerging Chapter
- Foster the Spanish network activities
- Follow Chapters for events on



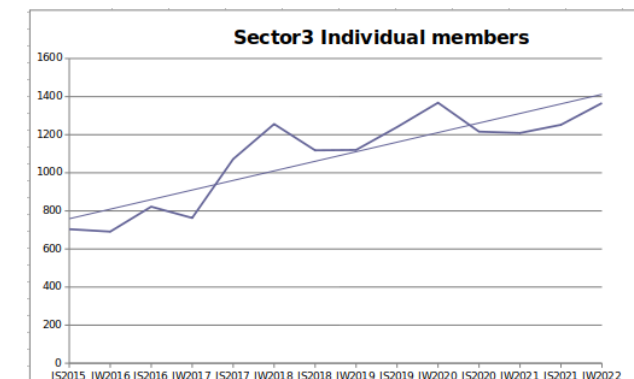
EMEA (Sector II)



- All 17 chapters are healthy or improve from the last 2 years
- 2 emerging chapter (PT & TUN)
- Motivate members to be active
- Find a way to integrate the associate members in EMEA

Follow „INCOSE EMEA” on

Asia-Oceania (Sector III)



- Individual Member presence in 8 Chapters and 13 Countries
- Collaboration with Certification on the expansion of Academic Equivalency
- New Zealand became a full-fledged chapter



Sector – Announcements / Events

Sector I – Americas	Date/Location
Western States Regional Conference (WSRC)	30 Sept – 2 Oct / Denver, CO, USA (Hybrid)
Local events: Chicagoland, Chesapeake Chapter, Finger Lakes Chapter, San Diego, Los Angeles, + others	All are accessible via remote participation throughout the year
Sector II – EMEA	Date/Location
EMEA Workshop & Conference 2023 (combined)	March / April 2023 – Date to be determined
25 Years German Chapter (GfSE e.V) Conference	16-18 Nov 2022 / Paderborn, Germany
For local chapter events visit the homepage	Held throughout the year
Sector III – Asia-Oceania	Date/Location
Australia SETE	12-14 Sep 2022 / Canberra, Australia
India MBSE Summit	4-5 May 2022
Japan Workshop	23 Apr 2022
Japan SE Symposium	6 Sep 2022
Korea SE symposium	2-4 Jun 2022

Visit the websites
and join!

Ralf Hartmann, INCOSE Fellow, President-Elect
Bill Miller, FuSE Project Lead

Special Projects

Charter is about Realizing the SE Vision

Purpose: Evolve the practice, instruction and perception of SE to:

- 1) Position SE to leverage new technologies in collaboration with allied fields
- 2) Enhance SE's ability to solve the emerging challenges
- 3) Promote SE as essential for achieving success and delivering value

Goal: Create a road map that drives the evolution of SE to:

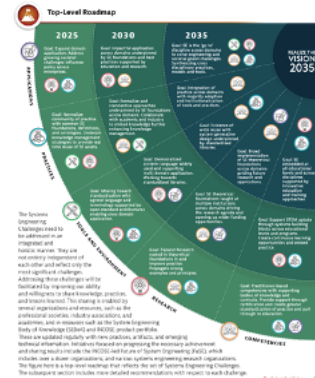
- 1) be increasingly *adaptable, evolvable and fit for purpose*
- 2) account for human abilities, needs as an integral system element and their interactions with a system
- 3) be more responsive in resolving increasingly challenging societal needs
- 4) realize and enhance Systems Engineering Vision 2025 & 2035 and other visionary inputs

Scope: Identify the needs, priorities and means for transforming SE including:

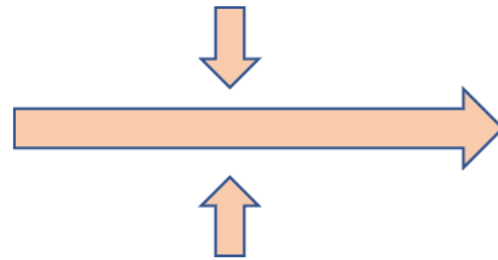
- 1) underlying foundations, systems theory and principles
- 2) people, methods, tools, processes, education and training
- 3) the future social and ethical duties, contributions, and responsibilities of future systems engineers



FuSE Way Forward



Area	Lead	Support	Key Dates	Status	Next Steps	Notes
SE Project Management	Miller	FuSE Project Leads	N/A	In Progress	Set of Approved 19th	Ongoing
SE Vision Roadmap and Engagement Action (SEACT)	Wendlandt / Stewart / Rueder	FuSE Core Team +	(2019-2020-21 Approved)	Refined at 18/2020	1 SE Vision 2025 2 Foundational Strategic 3 Foundational Strategic	1 Refine 18/2020 2 Foundational at 18/2020 3 Foundational at 18/2020
SE Vision and Review	Miller	FuSE Core Team +	(2019-2020-21 Approved)	SE & S & S Review 2 April 2021	Miller	4/2021
FuSE Roadmap	Miller	FuSE Core Team +	2019-2020-21 Draft	Adjustments with SE Vision 2025 and FuSE Project Roadmap	SE1 Roadmap Roadmap	Drafting 18/2020 FuSE Workshop
Foundational Engineering	McDonnell	SE Vision Team	2019-2020-21 Approved	Foundational Strategic	Foundational Strategic	Foundational Strategic
SE Vision	Miller	SE Vision Action Team	2019-2020-21 Approved	SE Vision Strategic Review	SE Vision Strategic Review	SE Vision Strategic Review
SE Vision	McDonnell / Rueder	Foundational & SEACT	2019-2020-21 Approved	Foundational Strategic Review	Foundational Strategic Review	Foundational Strategic Review
Bridge Team	McDonnell / Rueder / Stewart	Bridge Team 2 Teams	Review after 18/2021	Foundational Strategic Review	Foundational Strategic Review	Foundational Strategic Review
System Foundations for SE (SEACT)	Wendlandt / Stewart / Rueder	SE Vision Team	2019-2020-21 Approved	Foundational Strategic Review	Foundational Strategic Review	Foundational Strategic Review
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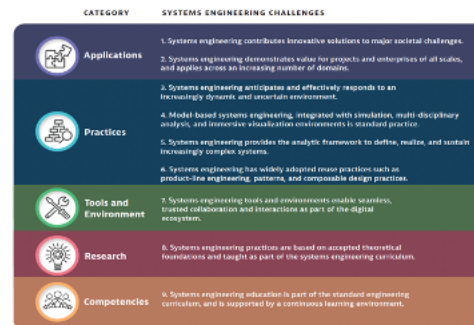


- Restructure in 4 streams:
 - SE Vision & Roadmap
 - SE Foundations
 - SE Methodology
 - SE Application Extension

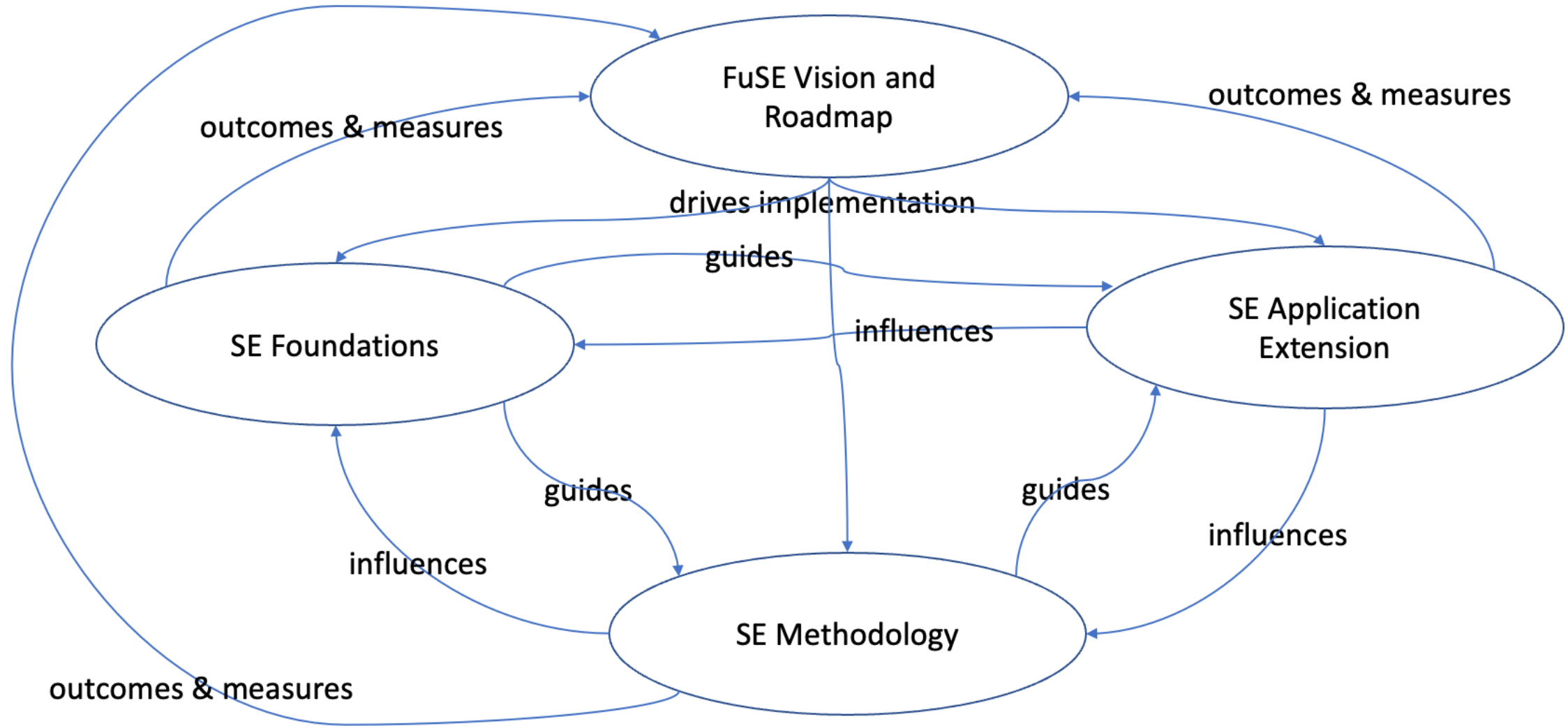


- Drive Implementation

- Refine
- Complement
- Identify Top 5



FuSE Streams Interrelationships



Communications and Outreach

INSIGHT Themed Issues

- Future of Systems Engineering (May 2019)
- AI and Systems Engineering (March 2020)
- Critical Infrastructure Protection and Recovery (June 2020)
- Cyber Secure and Resilient Approaches with Feature-Based Product Line Engineering (September 2020)
- Loss-Driven Systems Engineering (December 2020)
- Systems Security in the Future of Systems Engineering (June 2022)
- Systems Related Research Centers in the USA and Europe (December 2022)
- Model-Based Test & Evaluation (March 2023 with companion issue of *The ITEA Journal of Test and Evaluation*)
- Agility in the Future of Systems Engineering. (June 2023)
- Realizing the Systems Engineering Vision (June 2024)

Events

- IW2019 Town Hall, IW2021 SE Primer Workshop, and IW2022 Realizing the SE Vision
- IW and IS Strategy Sessions (2018 - 2020)
- FuSE Core Team Webinars and Community Webinars (Monthly 2018-2021)
- IEEE SMC Conferences 2018 (Miyazaki, Japan), 2019 (Bari, Italy), and 2020 (Virtual Event)
- EMEASEC 2018 (Berlin, Germany) and EMEA Workshop 2019 (Utrecht, The Netherlands)
- NAFEMS World Congress 2019 (Quebec City, Canada)
- AI Workshop 2019 (Madrid, Spain)
- AAAI 2020 and 2021
- US Army Armaments Center/SERC SE4AI and AI4SE Workshops 2020 and 2021
- INCOSE AI Mini-Event (2021)
- Transdisciplinary Engineering 2022 (MIT, Cambridge, MA)
- IEEE SMC 2022 (Prague, Czech Republic)

Honor Lind, Director, Marketing & Communications (MarCom)

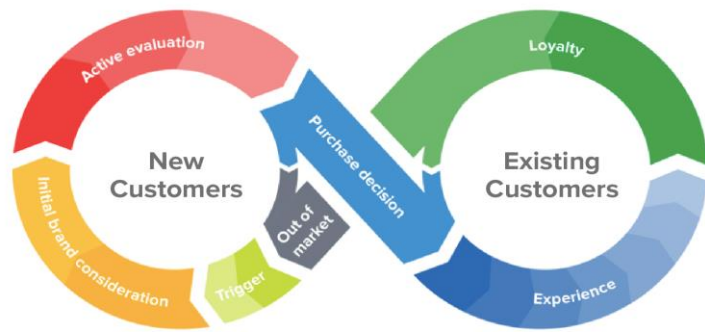
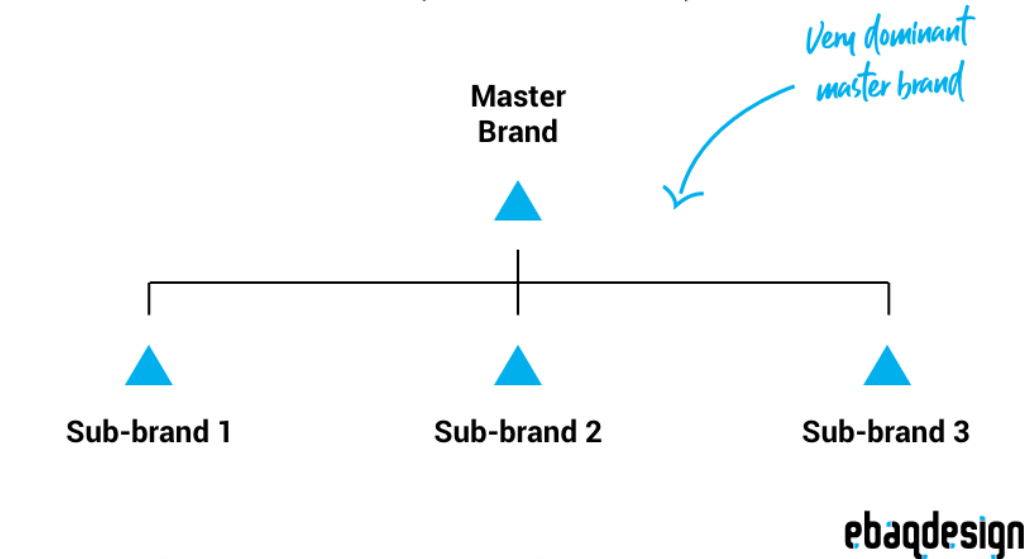
MarCom Report

INCOSÉ as a BRANDED HOUSE

Story telling is the art of marketing



Branded House (monolithic)



[customer-journey-lifecycle.jpg \(2070×1163\)](#)
[\(superoffice.com\)](#)

Social Media and digital marketing: organic and paid



Creating a Branded House

INCOSE VOLUNTEER OPPORTUNITY

THE BEST ENGINEERS ALLOW FOR A LITTLE GIVE.

Become an INCOSE volunteer today!
incose.org/volunteer

INCOSE

A better world through a systems approach.

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VOLUNTEERS NEEDED

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INCOSE VOLUNTEER OPPORTUNITY

SHARING TIME = YOU²

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ADD A STRONG FOUNDATION TO ANY RESUME.

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INCOSE VOLUNTEER OPPORTUNITY

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Volunteer as the INCOSE Deputy Assistant Director for Technical Events

APPLICATION DEADLINE: APRIL 16, 2022
incose.org/volunteer

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INCOSE VOLUNTEER OPPORTUNITY

ADD A STRONG FOUNDATION TO ANY RESUME.

Become an INCOSE volunteer today!
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A better world through a systems approach.

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INCOSE VOLUNTEER OPPORTUNITY

THE BEST ENGINEERS ALLOW FOR A LITTLE GIVE.

Become an INCOSE volunteer today!
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INCOSE

A better world through a systems approach.

Vision35
Systems Engineering

INCOSE

SYSTEMS ENGINEERING VALUE STATEMENT

SYSTEMS ENGINEERING AIMS TO ENSURE THE PIECES WORK TOGETHER TO ACHIEVE THE OBJECTIVES OF THE WHOLE.

ARCHITECT BALANCED SOLUTIONS THAT SATISFY DIVERSE STAKEHOLDER NEEDS FOR CAPABILITY, DEPENDABILITY, SUSTAINABILITY, SOCIAL ACCEPTABILITY, AND EASE OF USE

ADAPT TO EVOLVING TECHNOLOGY AND REQUIREMENTS

MANAGE COMPLEXITY AND RISK

JOIN NOW
[INCOSE.ORG](https://incose.org)

INCOSE
International Council on Systems Engineering

WHY INCOSE?

A better world through a systems approach.

20,000 Members and CAB Associates

150 Corporate Members

50 Working Groups

65 Chapters Worldwide

80 Countries with Active Members

JOIN NOW
[INCOSE.ORG](https://incose.org)

*Data as of March 2022

INCOSE
International Council on Systems Engineering

SYSTEMS ENGINEERING PROFESSIONAL CERTIFICATION

Offering three levels of internationally recognized systems engineering certifications.

ASSOCIATE INCOSE ASEP
BEGINNING OF CAREER as a Systems Engineer

CERTIFIED INCOSE CSEP
5+ YEARS practicing as a Systems Engineer

EXPERT INCOSE ESEP
25+ YEARS practicing as a Systems Engineer

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INCOSE

SYSTEMS ENGINEERING PRINCIPLES

AUTHORS LISTED HERE | AUTHORS LISTED HERE

SYSTEMS ENGINEERING PRINCIPLES

AUTHOR NAME | AUTHOR NAME

INCOSE



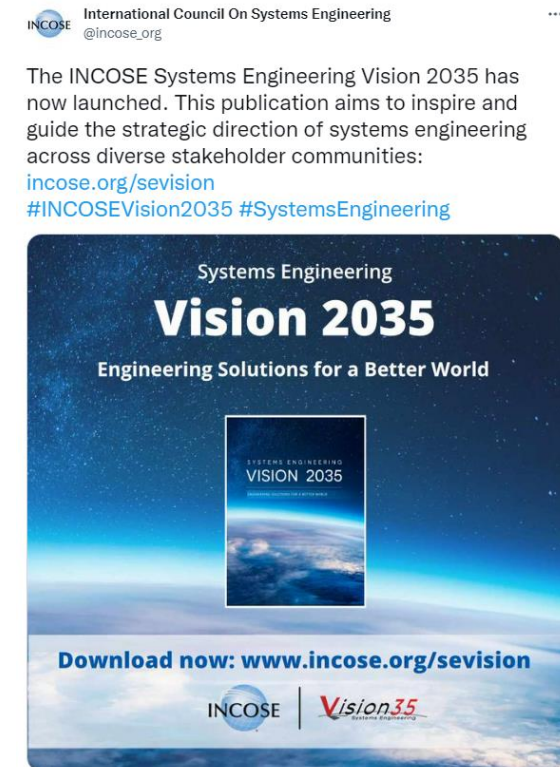
Social Media Highlights Q1 2022



- This quarter's engagement was boosted by IW and the launch of Systems Engineering Vision 2035, the **NRVLM Manual** and special issues from **SE Journal**.
- The number of **LinkedIn followers** has increased by an average of **150 per week**.
- LinkedIn was the best performing platform with an **83% increase in impressions** (vs Q4 2021).



Best performing LinkedIn post with **22,511 impressions** and **981 clicks and reactions**



Best performing Twitter post with **945 impressions** and **78 engagements**

Leaders, We Want To Hear From You!

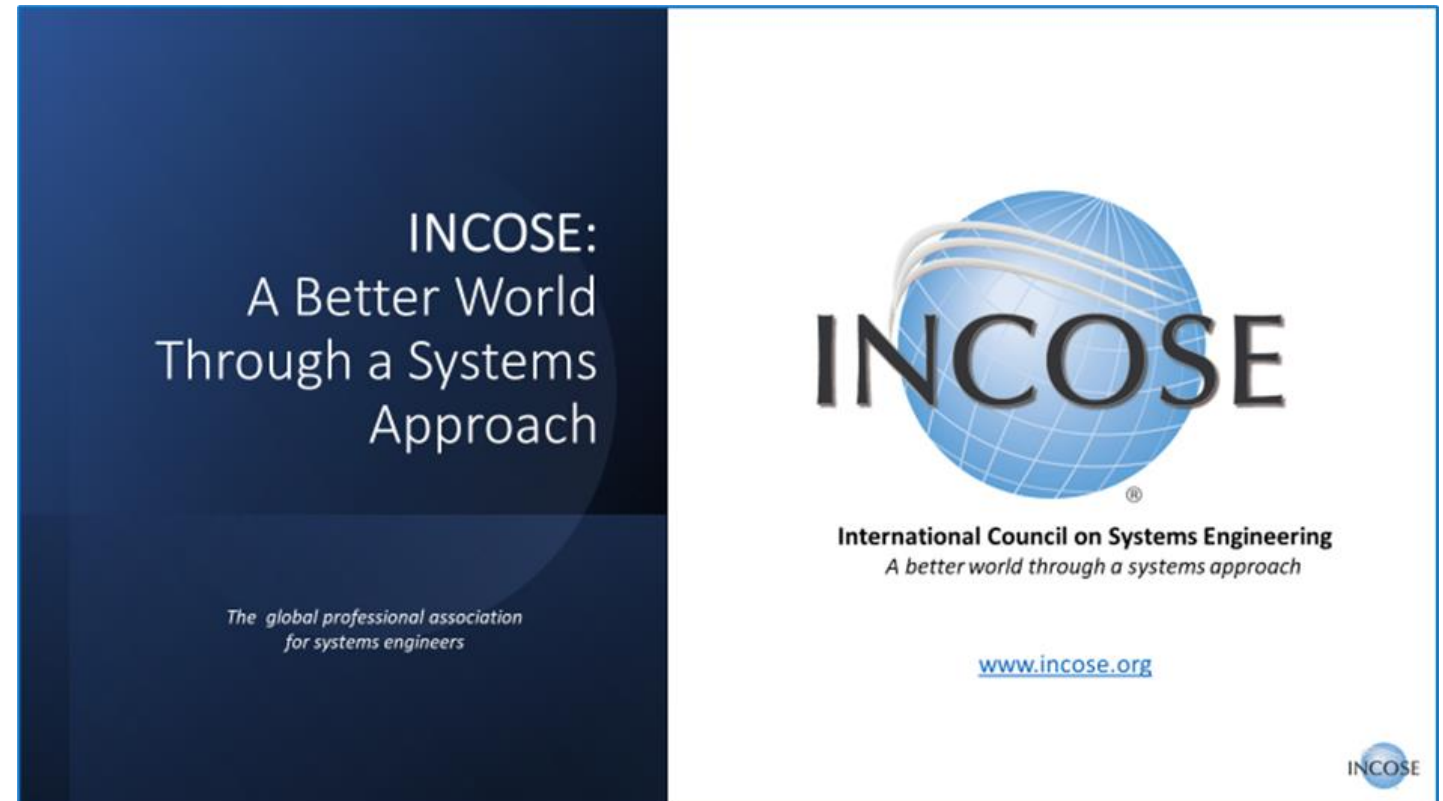
Share your story & the value of your INCOSE membership experience



- About special events
- Webinars
- Topic of the month
- Guest speaker programs
- Awards and recognition
- Career recognition of members
- Announcements
- Community updates

Need marketing help? Contact our Team at: marcom@incose.net

Why INCOSE Value Presentation slide deck



Paul Schreinemakers , Nominations & Elections (N&E) Chair

Kerry Lunney, , Nominations & Elections Co-Chair

N&E Update

INCOSE 2022 Elections for Positions to be Installed at 2023 IW



Position	Term Ends
Secretary	2025
Director for Academic Matters	2026
Director, EMEA Sector (nominated and elected by EMEA Sector II Chapter Presidents)	2026
Director for Strategic Integration	2026

Position descriptions can be found at: <https://www.incose.org/about-incose/Leadership-Organization/organization>

Please provide nominations to:

- Nominations and Elections Chair, Paul Schreinemakers (paul.schreinemakers@incose.net)
- Nominations and Elections Co-Chair, Kerry Lunney (kerry.lunney@incose.net)

Other Key Positions That Need Volunteer Leadership



Position	Term Ends	Reports To
Deputy Technical Director*	2025 IW	Technical Director

** The Deputy Technical Director is scheduled to be installed as Technical Director at the end of the term.*

If interested, contact the following:

- Technical Director, Christopher Hoffman(christopher.hoffman@incose.net)

Alternatively, send to the Nominations and Elections Chair and/or Co-chair.

Kyle M. Lewis , Secretary

Acknowledgement to CAB Organizations

Thank You to Our CAB Organizations



- Aerospace Corporation, The
- Airbus
- AM General LLC
- Analog Devices, Inc.
- ARAS Corp
- Australian National University
- AVIAGE SYSTEMS
- Aviation Industry Corporation of China
- BAE Systems
- Ball Aerospace
- Bechtel
- Becton Dickinson
- Belcan Engineering Group
- Blue Origin
- Boeing Company, The
- Booz Allen Hamilton Inc.
- C.S. Draper Laboratory, Inc.
- California State University Dominguez Hills
- Carnegie Mellon University Software Engineering Institute
- Change Vision, Inc.
- Colorado State University Systems Engineering Programs
- Cornell University
- Cranfield University
- Cubic Corporation
- Cummins Inc.
- Cybernet MBSE Co, Ltd
- Dassault Systems
- Defense Acquisition University
- Deloitte Consulting, LLC
- DENSO Create Inc
- Drexel University
- Eindhoven University of Technology
- EMBRAER S.A
- Federal Aviation Administration (U.S.)
- Ford Motor Company
- Fundacao Ezute
- General Dynamics Mission Systems
- General Electric Aviation
- General Motors
- George Mason University
- Georgia Institute of Technology
- IBM
- Idaho National Laboratory

Thank You to Our CAB Organizations



- ISAE - Supaero
- ISDEFE
- ITID, Ltd
- Jacobs Engineering
- Jama Software
- Jet Propulsion Laboratory
- John Deere
- Johns Hopkins University
- KBR
- KEIO University
- Knowledge Centric Solutions – The REUSE Company
- L3Harris Technologies
- Lawrence Livermore National Laboratory
- Leidos
- Lockheed Martin Corporation
- Los Alamos National Laboratory
- Mahindra University
- ManTech International Corporation
- Maplesoft
- Massachusetts Institute of Technology
- MBDA (UK) Ltd
- MetaTech Consulting Inc
- Missouri University of Science & Technology
- MITRE Corporation, The
- Mitsubishi Heavy Industries, Ltd
- National Aeronautics and Space Administration (NASA)
- National Reconnaissance Office
- National Security Agency Enterprise
- Naval Postgraduate School
- Nissan Motor Co, Ltd
- No Magic Inc.
- Northrop Grumman Corporation
- Pacific Northwest National Laboratory
- Pennsylvania State University
- Peraton
- Petronas Nasional Berhad
- Prime Solutions Group, Inc
- Project Performance International (PPI)
- Purdue University
- QRA Corp
- Raytheon Corporation
- Roche Diagnostics
- Rolls-Royce
- Saab AB
- SAIC

Thank You to Our CAB Organizations



- Sandia National Laboratories
- Siemens
- Sierra Nevada Corporation
- Singapore Institute of Technology
- SPEC Innovations
- Stellar Solutions
- Stevens Institute of Technology
- Strategic Technical Services LLC
- Swedish Defence Materiel Administration (FMV)
- Systems Engineering Directorate
- Systems Planning and Analysis
- Tata Consulting Services
- Thales
- Torch Technologies
- Toshiba Corporation
- Trane Technologies
- Tsinghua University
- TUS Solution LLCUC San Diego
- UK MoD
- University of Alabama in Huntsville
- University of Arizona
- University of Arkansas
- University of California San Diego
- University of Connecticut
- University of Maryland
- University of Maryland, Baltimore County
- University of Michigan, Ann Arbor
- University of New South Wales, Canberra, The
- University of Southern California
- University of Texas at El Paso (UTEP), The
- University of Washington ISE
- US Department of Defense
- VG2PLAY
- Veoneer, Inc
- Virginia Tech
- Vitech
- Volvo Construction Equipment
- Wabtec
- Woodward Inc
- Worcester Polytechnic Institute- WPI
- Zuken Inc

Don't Forget to Register for IS 2022!



The Power of Connection

- 6 Days
- 5 Tracks
- 4 Keynotes
- 130+ Presentations
- 15 Tutorials
- 10 Panels

**We can promise you; you
do not want to miss this!**

A promotional poster for the 32nd Annual INCOSE International Symposium. The top left features the INCOSE logo and the text "32nd Annual INCOSE international symposium", "hybrid event", "Detroit, MI, USA", "June 25 - 30, 2022", and "www.incose.org/symp2022". The top right shows a graphic of three stylized human figures in grey and yellow. A yellow banner across the middle reads "JOIN US FOR THE IS 2022 !". The bottom half of the poster shows a photograph of the Detroit skyline across a body of water. At the very bottom, it says "Event venue: Detroit Huntington Place - 1 Washington Blvd. - Detroit, MI 48226".


32nd Annual **INCOSE**
international symposium
hybrid event
Detroit, MI, USA
June 25 - 30, 2022
www.incose.org/symp2022

JOIN US FOR THE IS 2022 !

Event venue: **Detroit Huntington Place** - 1 Washington Blvd. - Detroit, MI 48226

Q&A Session





www.incose.org

Back-Up Slides

Don Gelosh , AscD, Education & Training (E&T)

PDP MVS Update Back-Up Slides

Content Taxonomy – For Browsing & Searching

- PDP based on using consistent “taxonomy” to tag content for PDP Catalog browsing and searching
- The following taxonomies are used –
 - PRIMARY:
 - Competency and proficiency (based on INCOSE SE Competency Framework)
 - SECONDARY:
 - Experience area (as used for SEP assessment)
 - Process (from ISO15288 / SE Handbook)
 - Domains used for International Symposia
 - System Attribute
 - Systems Engineering topics

Note – not all content necessarily fits all these taxonomies!

PDP Taxonomy (Primary)

CORE COMPETENCIES		PROFESSIONAL COMPETENCIES		MANAGEMENT COMPETENCIES		TECHNICAL COMPETENCIES	
Core competencies underpin engineering as well as systems engineering.		Behavioral competencies well-established within the Human Resources (HR) domain. To facilitate alignment with existing HR frameworks, where practicable, competency definitions have been taken from well-established, internationally recognized definitions rather than partial or complete re-invention by INCOSE.		The ability to perform tasks associated with controlling and managing Systems Engineering activities. This includes tasks associated with the Management Processes identified in the INCOSE SE Handbook.		The ability to perform tasks associated primarily with the suite of Technical Processes identified in the INCOSE SE Handbook.	
Systems Thinking	The application of the fundamental concepts of systems thinking to systems engineering;	Communications	The dynamic process of transmitting or exchanging information;	Planning	Producing, coordinating and maintaining effective and workable plans across multiple disciplines;	Requirements Definition	To analyze the stakeholder needs and expectations to establish the requirements for a system;
Lifecycles	Selection of the appropriate lifecycles in the realization of a system;	Ethics and Professionalism	The personal, organizational, and corporate standards of behavior expected of systems engineers;	Monitoring and Control	Assessment of an ongoing project to see if the current plans are aligned and feasible;	System Architecting	The definition of the system structure, interfaces and associated derived requirements to produce a solution that can be implemented;
Capability Engineering	An appreciation of the role the system of interest plays in the system of which it is a part;	Technical Leadership	The application of technical knowledge and experience in systems engineering together with appropriate professional competencies;	Decision Management	The structured, analytical framework for objectively identifying, characterizing and evaluating a set of alternatives;	Design for...	Ensuring that the requirements of all lifecycle stages are addressed at the correct point in the system design;
General Engineering	Foundational concepts in mathematics, science and engineering and their application;	Negotiation	Dialogue between two or more parties intended to reach a beneficial outcome where difference exist between them;	Concurrent Engineering	A work methodology based on the parallelization of tasks;	Integration	The logical process for assembling a set of system elements and aggregates into the realized system, product or service;
Critical Thinking	The objective analysis and evaluation of a topic in order to form a judgement;	Team Dynamics	The unconscious, psychological forces that influence the direction of a team's behavior and performance;	Business and Enterprise Integration	The consideration of needs and requirements of other internal stakeholders as part of the system development;	Interfaces	The identification, definition and control of interactions across system or system element boundaries;
Systems Modeling and Analysis	Provision of rigorous data and information including the use of modeling to support technical understanding and decision making.	Facilitation	The act of helping others to deal with a process, solve a problem, or reach a goal without getting directly involved;	Acquisition and Supply	Obtaining or providing a product or service in accordance with requirements;	Verification	A formal process of obtaining objective evidence that a system fulfils its specified requirements and characteristics;
		Emotional Intelligence	The ability to monitor one's own and others' feelings and use this information to guide thinking and action;	Information Management	Addresses activities associated with all aspects of information, to provide designated stakeholders with appropriate levels of timeliness, accuracy and security;	Validation	A formal process of obtaining objective evidence that the system achieves its intended use in its intended operational environment;
		Coaching and Mentoring	Development approaches based on the use of one-to-one conversations to enhance an individual's skills, knowledge or work performance.	Configuration Management	Ensuring the overall coherence of system functional, performance and physical characteristics throughout its lifecycle;	Transition	Integration of a verified system into its operational environment including the wider system of which it forms a part;
				Risk and Opportunity Management	The identification and reduction in the probability of uncertain events, or maximizing the potential of opportunities provided by them,	Utilization and Support	When the system is used to deliver its capabilities and is sustained over its lifetime.
						Retirement	the final stage of a system lifecycle, where the existence of a system is ended for a specific use, through controlled activities.
INTEGRATING COMPETENCIES	This competency group recognizes Systems Engineering as an integrating discipline, joining activities and thinking from specialists in other disciplines to create a coherent whole.	Project Management	Identification, planning and coordinating activities to deliver a satisfactory system, product, service of appropriate quality;	Logistics	The support and sustainment of a product once it is transitioned to the end user;		
		Finance	Estimating and tracking costs associated with the project;	Quality	Achieving customer satisfaction through the control of key product characteristics.		

- Awareness – Displays knowledge of key ideas, issues, and their implications.
- Supervised Practitioner – Tell me what to do
- Practitioner – I can do
- Lead Practitioner – I know how and can work with others
- Expert – I can tell everyone what to do

PDP Secondary Taxonomies



SEP Experience Areas

- General Systems Engineering
- Requirements Engineering
- System and Decision Analysis
- Architecture/Design Development
- Systems Integration
- Verification and Validation
- System Operation and Maintenance
- Technical Planning
- Technical Monitoring and Control
- Acquisition and Supply
- Information and Configuration Management
- Risk and Opportunity Management
- Lifecycle Process Definition and Management
- Specialty Engineering
- Organization Project Enabling Activities

Domain

- Generic
- Academia (curricula, course life cycle)
- Aerospace
- Automotive
- Autonomous Systems
- Biomed/Healthcare/Social Services
- City Planning (Smart Cities, Urban Planning, etc.)
- Defense
- Emergency Management Systems
- Energy (Renewable, Nuclear, etc.)
- Enterprise SE (Organization, Policies, Knowledge, etc.)
- Environmental Systems
- Information Technology/Telecommunication
- Infrastructure (Construction, etc.)
- Maritime (Surface & Sub-Surface)
- Oil & Gas
- Other Domain
- Rail
- Service Systems
- Software
- Sustainment (Legacy Systems, Re-Engineering, etc.)
- Very Small Enterprises

SE Topics

- Agile Systems Engineering
- Artificial Intelligence
- Case for SE
- Competencies
- Diversity
- Heuristics
- INCOSE Products
- Lean Systems Engineering
- MBSE
- Organizing to do SE
- Processes
- Product Line Engineering
- Professional Development guidance
- SE Education
- Software-Intensive Systems
- SysML
- Systems of Systems
- What is SE?
- Other

Systems Attributes

- Human-Systems Integration
- Life Cycle cost
- Maintainability
- Reliability
- Resilience
- Risk
- Safety
- System Security (cyber-attack, anti-tamper, etc.)
- Other

Processes

As defined in ISO15288 / Described in the INCOSE Systems Engineering handbook

PDP Feedback Opportunity

- Feedback – goes to PDPAdmin@incose.net
 - Report a broken link (editable form to include link name)
 - Report a bug (able to include a screenshot)
 - Report PDP Catalog material not classified correctly (pull-down menus to classify it properly per the PDP Taxonomy)
 - Recommend & upload new material (with pull-down menus to classify per the PDP Taxonomy)
 - General comments
 - FUTURE: Rate the learning resource (1 to 5 stars, with free form text)

Barclay Brown , CIO
Molly Kovaka, IT Team Senior Project Manager

IT Report Back-Up Slides

INCOSE IT Architecture View

Association Mgt System

- Join/renew process
- Membership records
- Groups/Committees
- Lists and Reports

INCOSE.org

- Public web site
- Based on Sitefinity

INCOSE Store

Calendar

Org Chart

INCOSE Communities

- Cafes, WGs, Chapters, CAB
- Interactive, access varies

INCOSE Connect

- File Sharing
- Group "websites"
- Based on SharePoint 2013

Member Communication

- Informz Email System
- Reachability
- Support of New Member Engagement Initiative

GRCSE

- Graduate Curriculum
- Edited by committee
- Based on WordPress

Business Applications

PDP

SEEE

ARMS

WGC

TPP

SETDB

WWD

SEBoK

- Knowledge Articles
- Edited by committee
- Based on MediaWiki

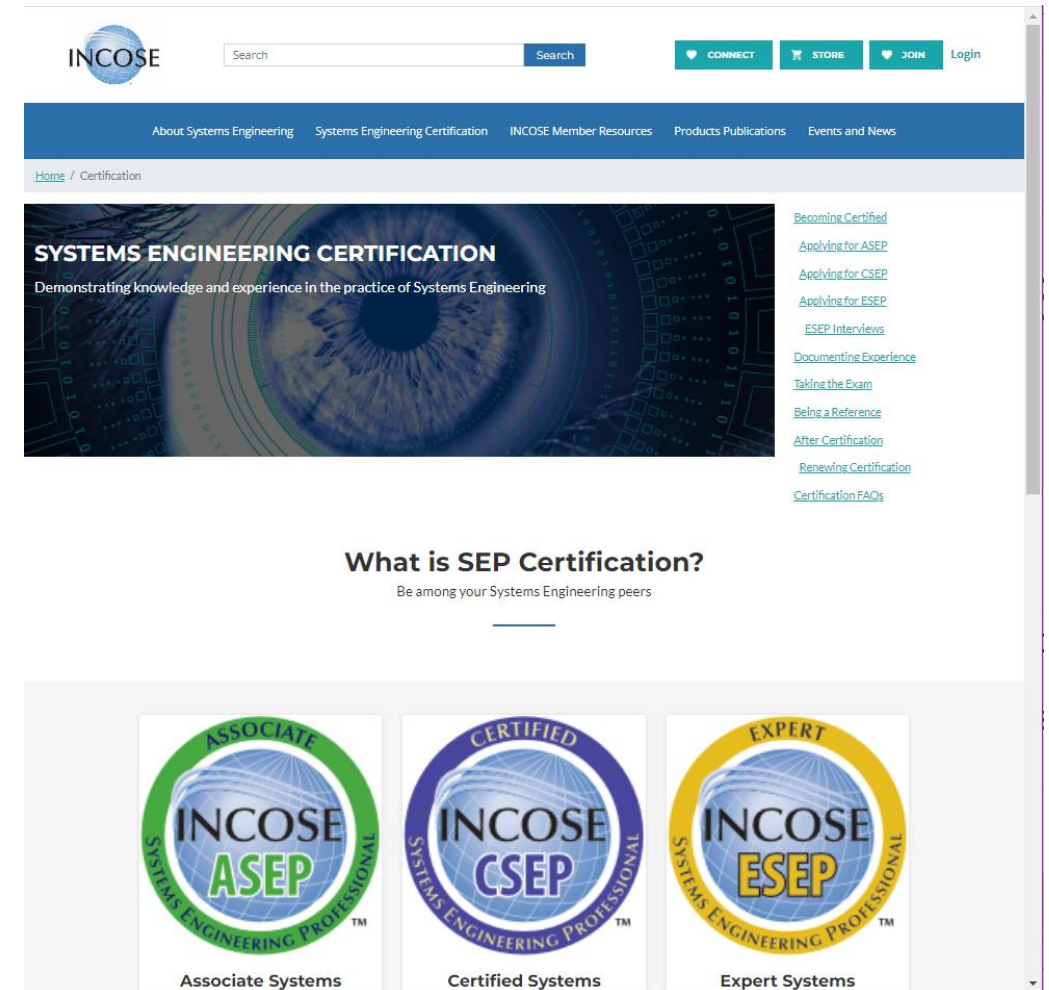


INCOSE Collaboration Network (INCOSE.net)

INCOSE Web Site Redesign

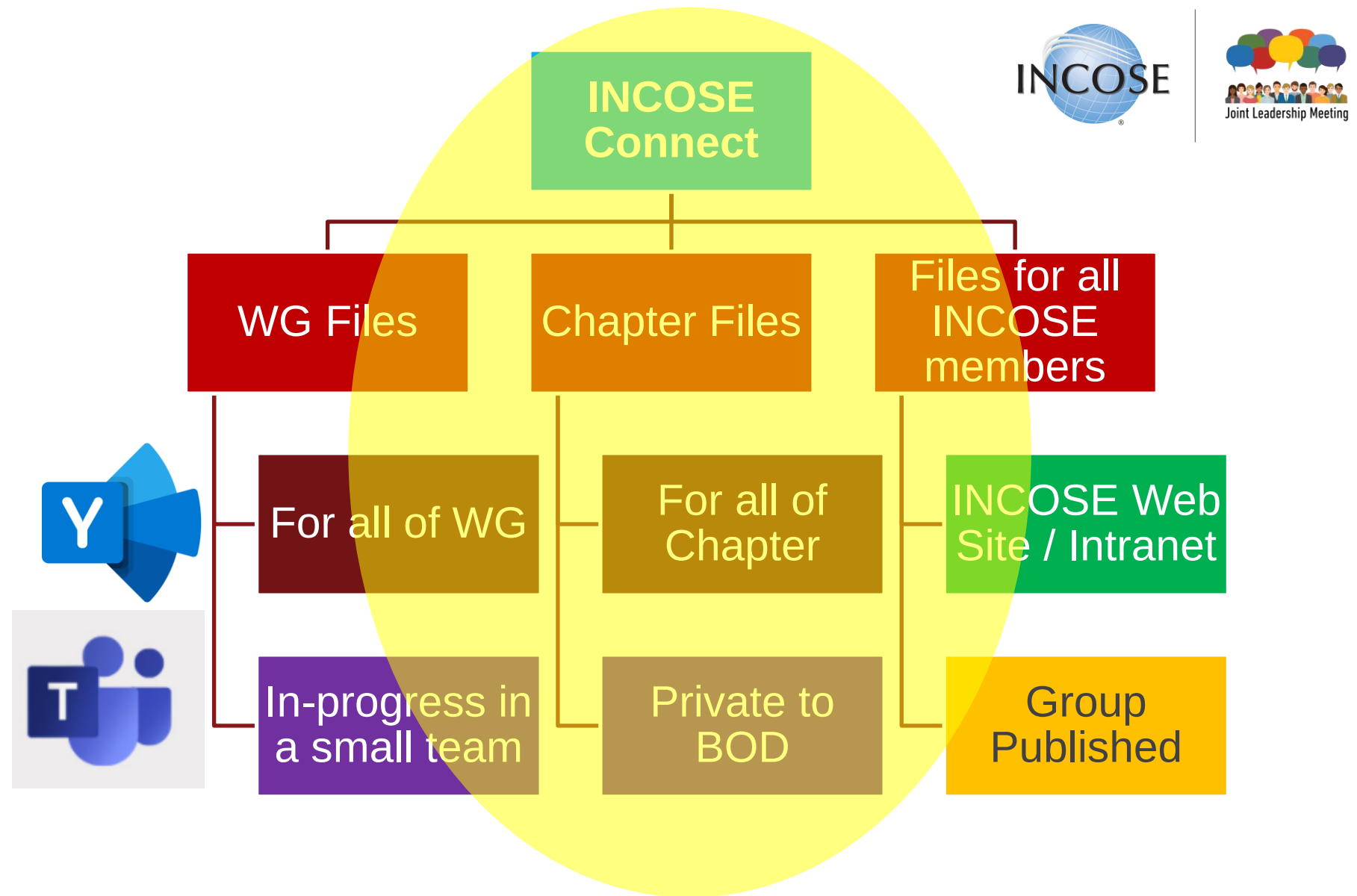


- In progress
- Multi-stage
 - Design concept
 - Sitefinity Controls
 - Apply designs
 - Granular access
- New Sitefinity controls implemented based on new design
- Certification: first complete web site section
- Others in progress
- Good chance to restructure as we did with Certification



Connect: *The Big Move*

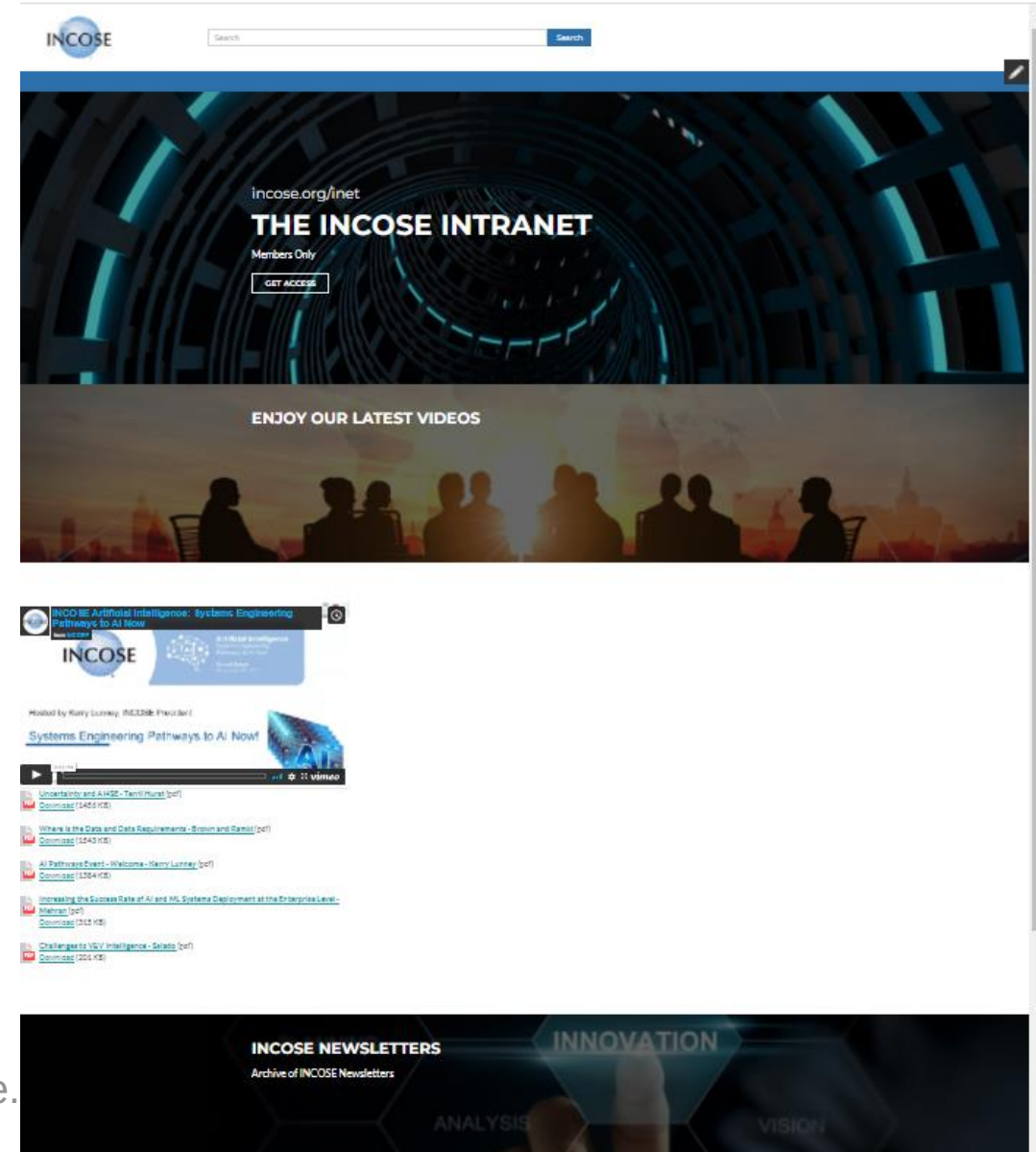
- Connect is based on a 9-year-old version of Microsoft SharePoint, and a private, expensive server
- We can use capabilities we already have through Microsoft 365 and Sitefinity to provide much better user experience
- Teams and Yammer both store files in newest SharePoint online
 - Default permissions can work well
 - Easy to set additional permissions by name
- IT happy to help groups determine how and where to store files



The INCOSE Intranet (iNet) Begins

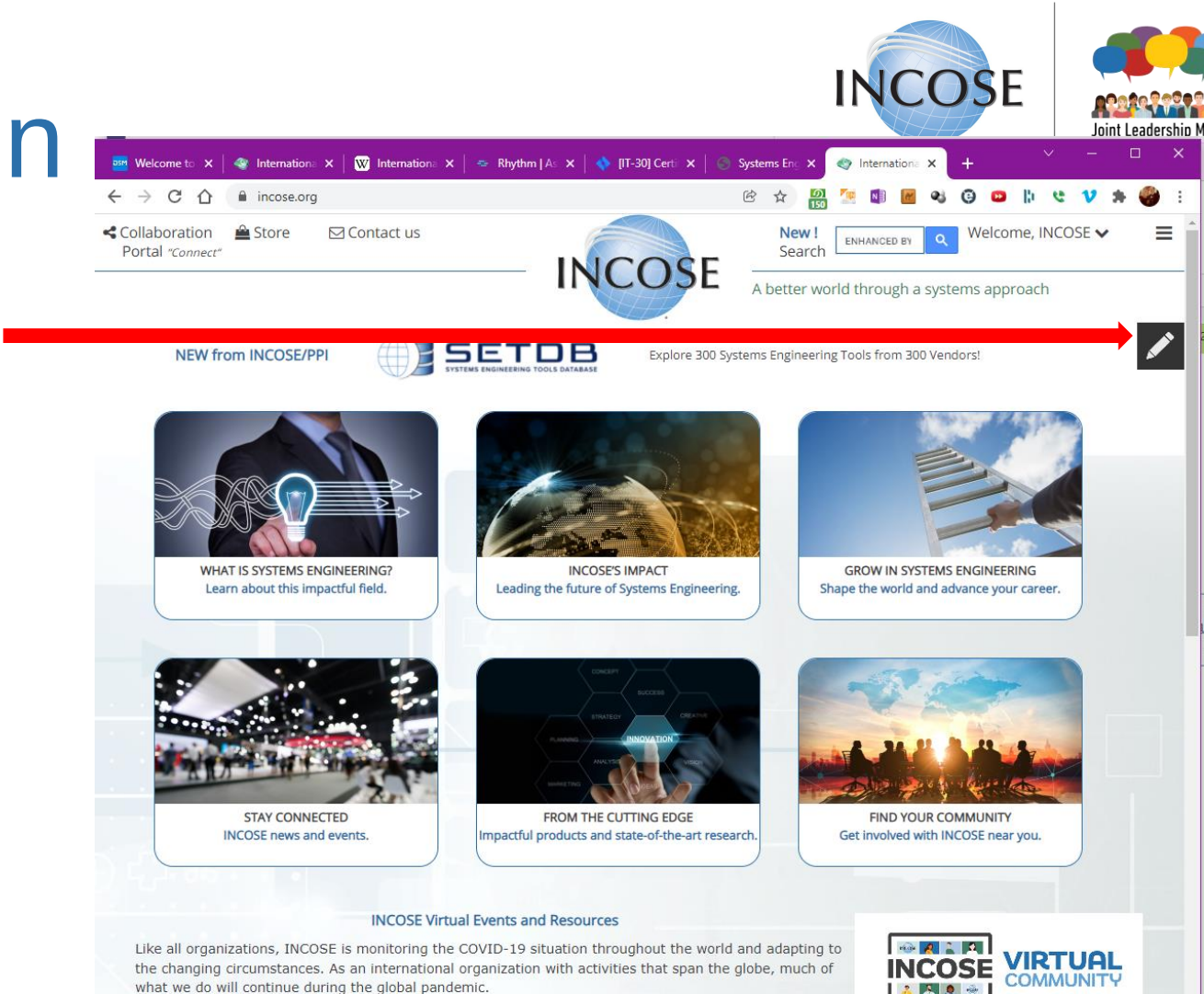


- www.incose.org/inet
- Members-only content, resources, materials
- Currently prototype design
- Well become fully structured web site over time
- Some Connect content will migrate here
 - Newsletter archives
 - Other tbd
- Easily maintained by staff and others using Big Pen and CMS



Bring on the Big Pen

- Group-based permissions for web editing
- New roles for web sections
 - Cert-Admin
 - Café-Admin
- Regular user/member accounts assigned to roles
- Only allows editing of pages authorized in that group (even though big pen may appear on other pages)
- New groups will set up for all parts of web site
 - Send me requests for new groups / people to add
- We will be sunsetting anonymous web-editing accounts



The screenshot shows the INCOSE website interface. At the top right, there is an INCOSE logo and a 'Joint Leadership Meeting' icon. The main navigation bar includes links for 'Collaboration Portal "Connect"', 'Store', and 'Contact us'. A search bar is also present. Below the navigation bar, there is a section titled 'NEW from INCOSE/PPI' with a red arrow pointing to a 'Big Pen' icon. The main content area features six cards: 'WHAT IS SYSTEMS ENGINEERING?', 'INCOSE'S IMPACT', 'GROW IN SYSTEMS ENGINEERING', 'STAY CONNECTED', 'FROM THE CUTTING EDGE', and 'FIND YOUR COMMUNITY'. At the bottom, there is a section for 'INCOSE Virtual Events and Resources' and a user profile for Richard Beasley, Member, MOA Member, Cafe-Admin, BackendUsers.

Richard Beasley
Member, MOA Member, Cafe-Admin,
BackendUsers

Guidance for how to move your stuff: 1/2



Files (/Folders) going to **Yammer** files within a community (read only or read/write)

- Things clearly from a community (chapter, WG, committee, BOD)
- Primarily shared with the community
- Accessible by active members (they are using our collaboration systems) – not CAB Associates
- Examples:
 - Chapter Strategic Plan
 - WG Research Paper,
 - MBSE Initiative Presentations
 - BOD Minutes

Files going to a team in Microsoft **Teams** (read only or read/write)

- Things being worked on by a small group of people
- Things not shared with other teams or communities (or not yet shared)
- Examples:
 - INCOSE Budget
 - WG Primer in progress,
 - Chapter BOD program/speaker ideas

Guidance for how to move your stuff: 2/2

Files to be posted on INCOSE **Intranet** (www.incose.org/inet)

- Things to be presented to ALL of INCOSE including members and CAB Associates
- Examples:
 - INCOSE Newsletter Archive
 - Conference Presentations

Files going to incose.org (our **PUBLIC web site**)

- Things we are sharing with the world
- Examples:
 - Ads and Promotions
 - eNote

Honor Lind, Director, Marketing & Communications (MarCom)

MarCom Report Back-Up Slides

INCOSE Branding for Volunteerism



Expanding the target marketing Members Newsletter, Dot-The-Eye; Branding Ads, JonesHaus

External Target:

Systems Engineers (outside the organization = 305,000 - INCOSE)

Engineers (2m)

Universities
Global markets
Partners
Consultants / Contractors
Freelancers
Corporations

Internal Target:

Members
CAB Organizations
CAB Associates
Chapters
Working Groups
Sectors

Member Types:

associate 8350
regular 5992
moa member 4160
student 399
senior member 278
moa student member 152
moa senior member 145
nonmember 34
lifetime 26

Certification:

Regular members: 11152 (cab associates are not included)
Not certified 6496

CSEP 2418
ASEP 1858
ESEP 380

INCOSE Banners For IS2022

More to come:

- INCOSE Branding Value
- Volunteerism
- New Members
- Welcome Center Café
- Chapters
- Regional

Q2 2022 BOD: Remote

www.incose.org



INCOSE Members Newsletter



- The Q1 Members Newsletter launched in March 15 with a refreshed and modernized look and layout.
- There has been an increase in paid advertising in the newsletter.



Certification Kick Off April Fools



Phase 1

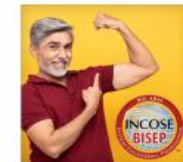
LINKEDIN POSTS



OPTION 1
THE NEXT ENGINEERS BUILD THEMSELVES FIRST
The Big Arm Systems Engineering Professional (BSEP) recognizes practitioners who have distinguished themselves by becoming experts with knowledge and experience in all aspects of the discipline. Qualifications for the next include: solid engineering education, early industry and academic project filing experience.



OPTION 2
THE NEXT ENGINEERS BUILD THEMSELVES FIRST
The Big Arm Systems Engineering Professional (BSEP) recognizes practitioners who have distinguished themselves by becoming experts with knowledge and experience in all aspects of the discipline. Qualifications for the next include: solid engineering education, early industry and academic project filing experience.



OPTION 3
THE NEXT ENGINEERS BUILD THEMSELVES FIRST
The Big Arm Systems Engineering Professional (BSEP) recognizes practitioners who have distinguished themselves by becoming experts with knowledge and experience in all aspects of the discipline. Qualifications for the next include: solid engineering education, early industry and academic project filing experience.

Q2 2022 BOD: Remote

www.incose.org

5

Maria Romero, AscD, DEI

DEI Back-Up Slides

Definitions of DEI

The following definitions are taken from the ABET (Accreditation Board for Engineering and Technology) where they provide a reference point for conversations and materials about diversity, equity and inclusion.

- **Diversity** is the range of human differences, encompassing the characteristics that make one individual or group different from another.
- **Equity** is the fair treatment, access, opportunity and advancement for all people, achieved by intentional focus on their disparate needs, conditions and abilities.
- **Inclusion** is the intentional, proactive, and continuing efforts and practices in which all members respect, support, and value others.

INCOSE uses the compound term **Diversity, Equity and Inclusion** (abbreviated to **DEI**) when referring to the broad subject matter.

Advisory Committee Member Advertisement Posted

Diversity, Equity, and Inclusion Advisory Committee Member

Internal ID:	DEI-001
Type:	Volunteer Opportunity
Description:	The purpose of the committee is to discuss and promote DEI within INCOSE, help the INCOSE Board of Directors to drive appropriate change relevant to the imperative, and to engage with members and the wider engineering community. Promotion of DEI includes making suitable guidance material available to INCOSE members. Work is performed in accordance with policy DEI-100, posted here: https://www.incose.org/about-incose/policies-and-bylaws
Volunteering Benefits:	
Classification:	Working Group
Responsibilities:	
Pre-requisites & Qualifications Held:	Membership of the committee shall be open to INCOSE members with an interest in DEI, a desire to contribute to this theme within INCOSE, and experience of diversity, equity and inclusion matters.
Means of Engagement:	Work will be performed remotely with one-hour phone calls every two weeks. Most communications will be written, via email or Microsoft Teams.
Work location:	remote
Number of volunteers needed:	6-10
Working with:	Maria Romero and other volunteer members of the DEI Advisory Committee