

# Announcing the 10th Annual Cohort of the INCOSE Technical Leadership Institute

A global learning network of active INCOSE members seeking to improve their leadership skills in an open, collaborative environment

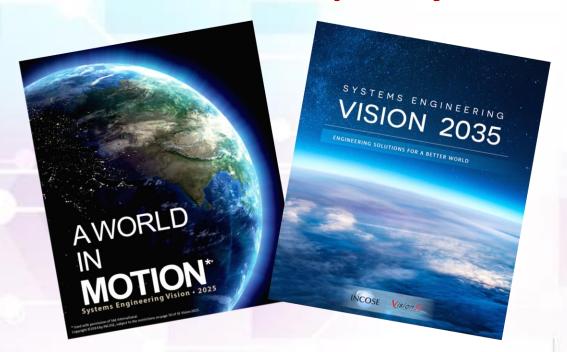
January 2024

Coaches Patrick Godfrey, Suja Joseph-Malherbe, and David Long

# The Foundations of the INCOSE Technical Leadership Institute (TLI)



Developing systems leaders equipped to address today's product, enterprise, and societal complexity



#### **TLI Vision**

- Individual members become more capable leaders and join an international network of systems engineering leaders
- Sponsoring organizations obtain non-proprietary, tuition-free technical leadership training for future SE leaders
- INCOSE has a growing pool of leaders to draw on and an enhanced international reputation for SE leadership

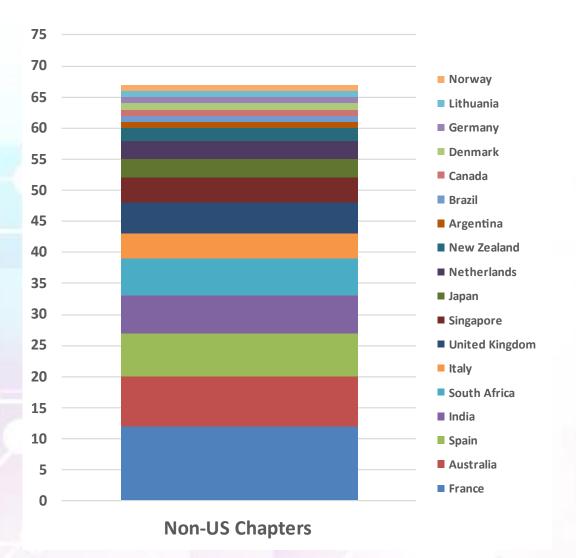
# A Story of Continued Growth and Advancement

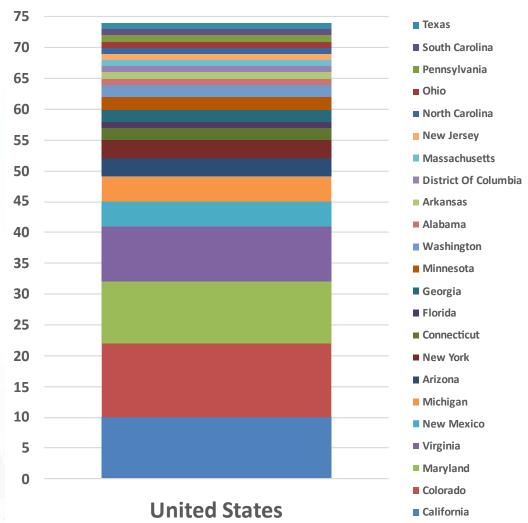


- Established as an initiative of the President and Board of Directors in 2014
- Launched program and first cohort at IS 2015 with additional cohorts launched annually each June/July
- Founded upon an initial two-year learning journey of engagement, exploration, and reflection
- Pivoted from in-person to virtual workshops in 2020 resulting in a more diverse and inclusive program
- Inducted 93 members of the first seven cohorts as full members with Cohort 8 (20 members) and Cohort 9 (24 members) working towards induction
- Accepting nominations for members of Cohort 10, which will be conducted virtually, and there are no required costs for participation

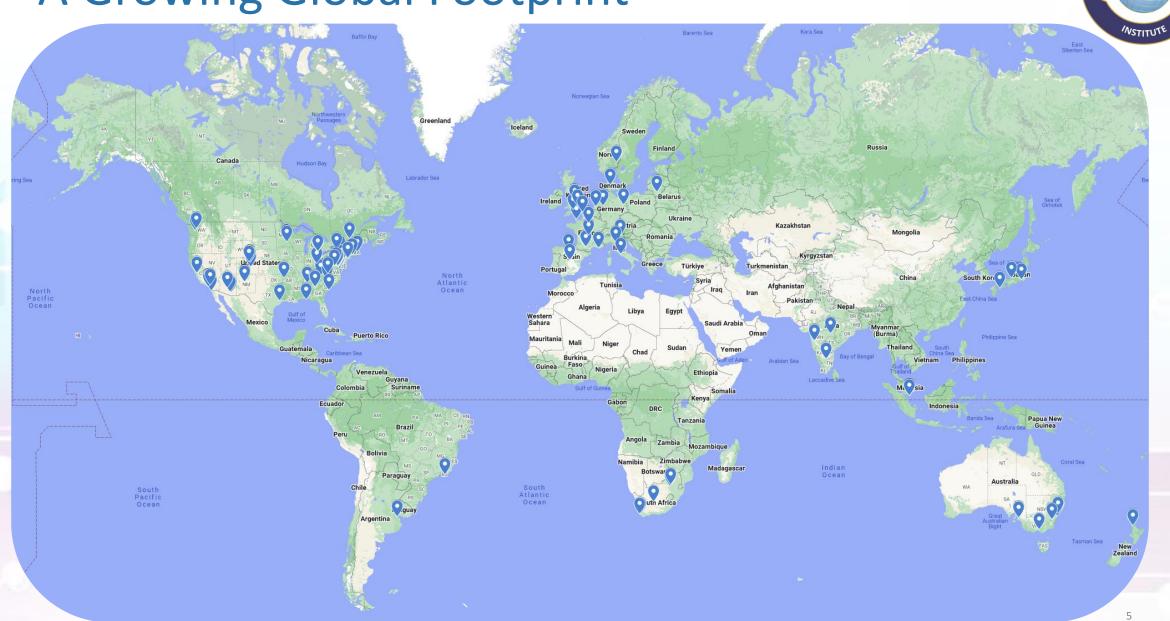
# A Vibrant Network of **141 Leaders** from 6 Continents, 19 Countries, and 23 U.S. States!

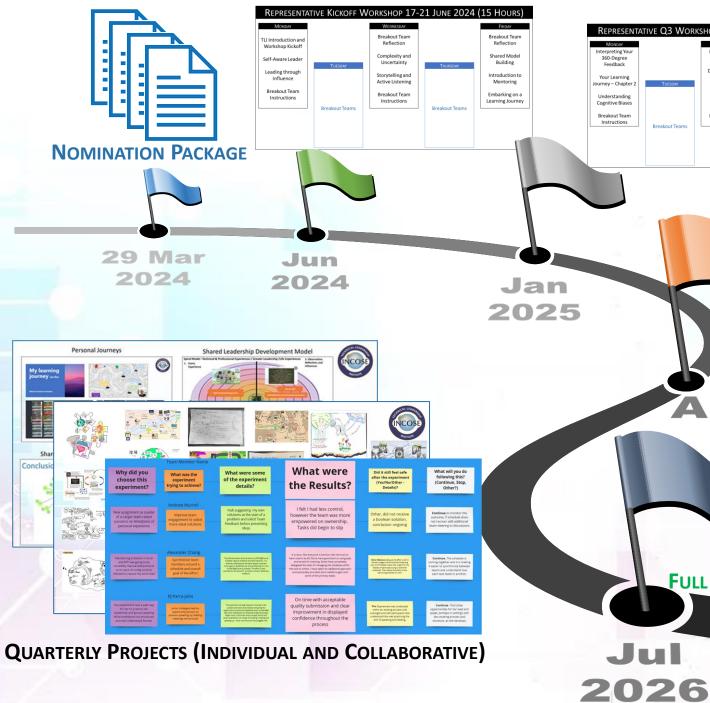






# A Growing Global Footprint





REPRESENTATIVE Q3 WORKSHOP 13-17 JANUARY 2025 (15 HOURS)

Monow
Interpreting Your
13-60-Degree
Feedback
Your Learning
Journey--Chapter 2
Understanding
Cognitive Blases
Breakout Team
Instructions
Breakout Team
Instructions
Breakout Teams
Breakout Teams
Breakout Teams
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Breakout Teams

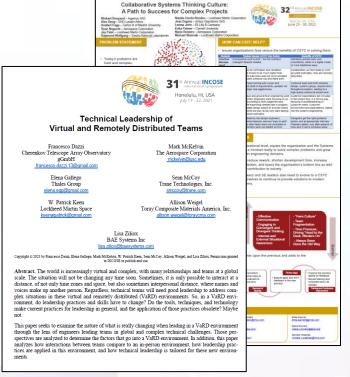
Apr-Dec

2025

**INDUCTION AS A** 

**FULL MEMBER OF THE INSTITUTE** 





**MAJOR PROJECTS (Q4-Q6)** 

A CONTINUING
THROUGH-LIFE
LEARNING JOURNEY



2024

Two-year initial component of the experience is ever-evolving

2024

- Adapt based upon what each multi-domain, multi-organization, multinational cohort brings
- Create a shared journey where we are "learning together"
- Apply probe-sense-respond to learn in the complex endeavor of technical leadership
- Develop experiential learning stimulated by curriculum fed by individual efforts and cohort synthesis

2025 Apr-Dec 2025 **INDUCTION AS A** FULL MEMBER OF THE INSTITUTE

2026

REPRESENTATIVE Q3 WORKSHOP 13-17 JANUARY 2025 (15 HOUR

Diversity, Equity

Shared Model

**Building** as

Breakout Team

Shared Exploration

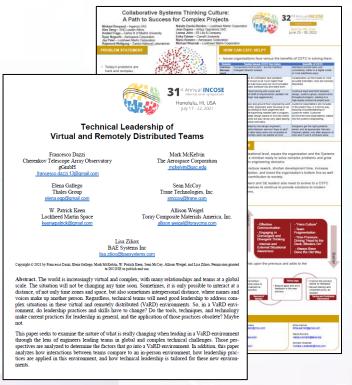
nterpreting You 360-Degree

Your Learning

Understanding

Cognitive Biases Breakout Team





#### **MAJOR PROJECTS (Q4-Q6)**

A CONTINUING

THROUGH-LIFE
LEARNING JOURNEY

#### What Constitutes "Success"?



- Technical leadership development is a complex endeavor
  - Every individual's journey is different
    - STARTING POINT NEEDS DESIRES PERSONAL CONTEXT ENVIRONMENT
- Coaches assess where each participant begins, guide them in clarifying their desired journey, and help them progress as far as they can
  - Self-awareness and growth
  - Communicating effectively
  - Fostering collaboration
  - Enabling others
  - Leading through influence

- Operating within complexity and uncertainty
- Leveraging diverse viewpoints and skills
- Thinking holistically and strategically
- Advancing leadership concepts
- Owning their learning journey

Coaches assess and encourage engagement, contributions, and constructive approaches.

Coaches do not grade, compare, or evaluate participants.





**Erik Wilkinson**Chief Systems Engineer
Ball Aerospace

Several Ball Aerospace team members have participated in the TLI cohorts. These participants have been able to take lessons learned through the TLI and quickly apply the skills into a real-world setting, which benefits our customers, leadership and fellow team members.



It's easy to say that TLI helps with networking and reflections on your journey to help you grow as a leader. And this is all true, but TLI is more than that for me. It is a safe harbor. It is a foundation. There are not only times of doubt in a leadership journey - where you question, 'can I really do this?' - but there are also critical tipping points, conflict and all kinds of other messy things that happen along the way. TLI provides a space that supports you when things get messy.



Erika Palmer
Director of Technical Products
and Services
INCOSE
TLI Cohort 6



Col (ret) Tim West

US Air Force
Research Laboratory
TLI Cohort 7

I share TLI's belief that leadership, like engineering skills, must be crafted and honed. I personally applied for TLI because I am convinced that even after a successful 30-year career in the US Air Force leading the development of the weapon systems of tomorrow, I still have much to learn about leadership — and much to share with my fellow cohort members. I have especially enjoyed the opportunity to share ideas and experiences from those in other industry sectors and other countries so that we can mutually develop more diverse, robust, and inclusive leadership skills.

#### **Nomination Process**



Applicants must be *nominated by an INCOSE leader* and then submit a package that includes

- Nominating letter from an INCOSE Board Member, Director, Associate or Assistant Director, Chapter President, or member of the Corporate Advisory Board
- Letter of recommendation and support from the candidate's home organization, including acknowledgement of the commitments of the initial two-year experience
- Personal statement describing the expected benefits to the candidate, his or her organization, and INCOSE
- Resume describing positions held and specific systems engineering accomplishments

Packages for Cohort 10 are due 29 March 2024

#### **Nomination Criteria**



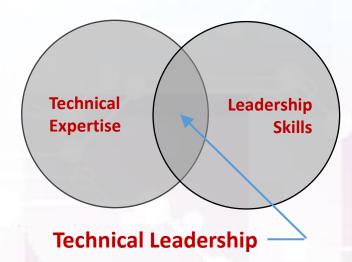
#### Nominees should be chosen based on

- Proven aptitude in both systems engineering and technical leadership
- Comfort working in an uncertain world and ability to tackle wicked, messy problems
- Demonstrated interest in and commitment to enhancing personal technical leadership
- Potential for assuming positions of greater leadership in the future

# Nominating letters should describe a *specific instance* in which the candidate has demonstrated one or more of the following behaviors\*

- Held the vision
- Thought strategically
- Fostered collaboration
- Communicated effectively
- Enabled others to be successful
- Demonstrated emotional intelligence

The clear framing of this specific instance is a key component of the package and is weighted accordingly during the evaluation process



\*Behaviors are more fully described the Appendix

#### **Nomination Process**



- Nominating letters should be sent both to the nominee and to nominations@incose.net
- Once nominated, participants are required to assemble an application package that includes
  - **Nominating letter** describing a <u>specific instance</u> in which the candidate has demonstrated one of the six identified leadership behaviors
  - Letter of recommendation and support from the candidate's home organization
  - Personal statement describing the <u>expected benefits</u> to the candidate, his or her organization, and INCOSE
  - Resume describing positions held and specific systems engineering accomplishments
- The evaluation team considers all aspects of the nomination with particular weight given to the nominating letter and the personal statement

Completed application packages should be zipped and e-mailed to nominations@incose.net no later than 29 March 2024

Submitters will receive an acknowledgement of their submission within 2 business days. If they do not, they should follow up with <a href="mailto:nominations@incose.net">nominations@incose.net</a> and <a href="mailto:david.long@incose.net">david.long@incose.net</a> to ensure their package has been received.



The TLI Coaches would be happy to speak at an upcoming event or otherwise answer any questions you or your members might have

For more information, visit <a href="www.incose.org/learn/tli">www.incose.org/learn/tli</a> or contact <a href="mailto:david.long@incose.net">david.long@incose.net</a>

An information package will also be provided:

Presentation Slides

Instructions for Applicants

What Benefits Can I Expect?

Frequently Asked Questions



# Appendix: Systems Engineering Technical Leadership Model

## Nominating Letter Requirement



# Describe a *specific instance* in which the nominee has demonstrated one or more of the following:

- Held the vision
- Thought strategically
- Fostered collaboration
- Communicated effectively
- Enabled others to be successful
- Demonstrated emotional intelligence

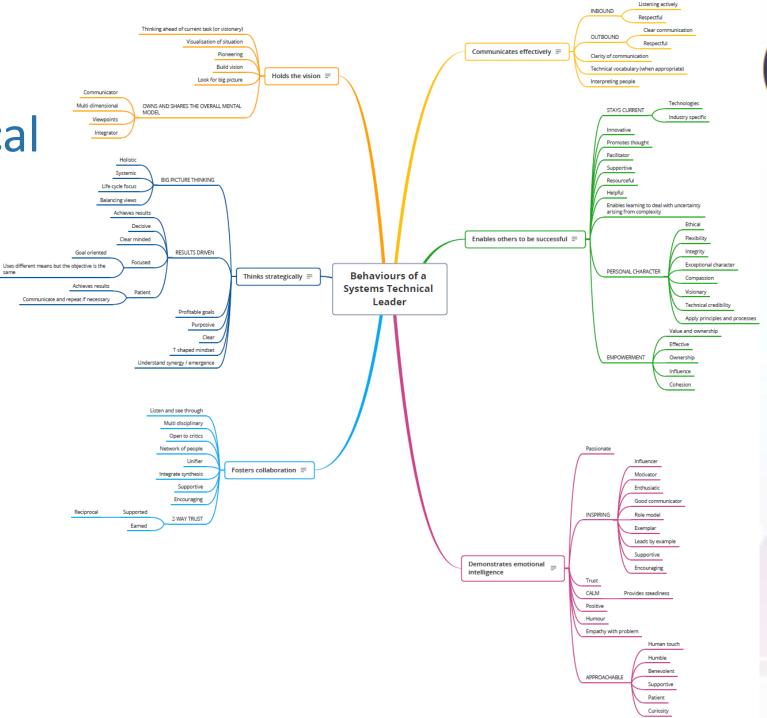


#### SE Technical Leadership Model

Ref: Godfrey, Building a Technical Leadership Model, Invited Paper, IS 2016

- What: A shared INCOSE leadership model
- Who: Developed as a collaborative learning initiative by the first cohort of the INCOSE Institute
- Why: Provides a cohort definition of systems technical leadership in their engineering environment
- How: "Being a systems technical leader" is defined by six interdependent branches of a mind map
  - Each branch is elaborated in the following slides

Behaviors of a Systems Technical Leader

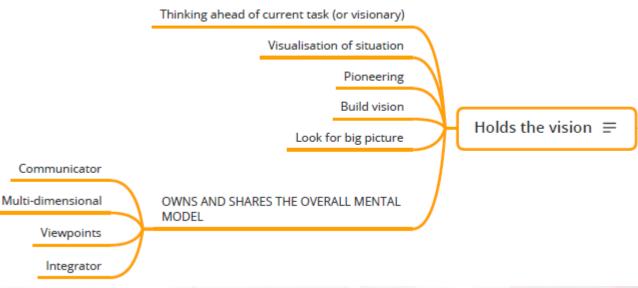


## Holding the Vision



A vision is an aspirational statement that defines who we are and where we want to go. It provides an impelling purpose that energizes people to do more than they thought they could or would. To accomplish this, however, a vision must be more than just a statement

posted on the wall. It must be the start of a continual and ongoing conversation that we, as systems engineers, are well positioned to support, reinforce and encourage.

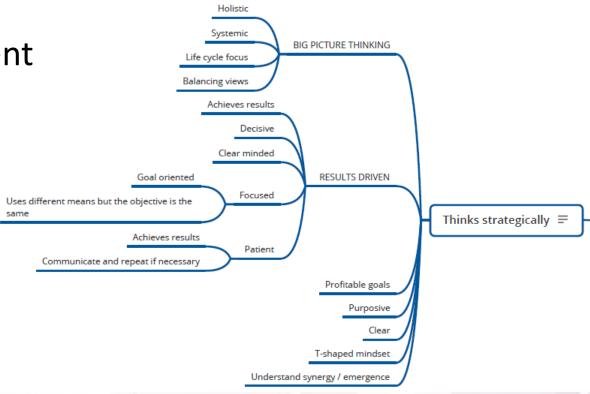


# Thinking Strategically



Strategic thinking is long term, rather than short-term, tactical thinking. It must be continuous and ongoing, not a one-time, up-front event. We

formulate a hypothesis before taking action, treat the action as an experiment to test the hypothesis, and based on the results we observe, we continue along the path we started or formulate a new hypothesis and begin the testing anew. This is the scientific method applied to everything we do.



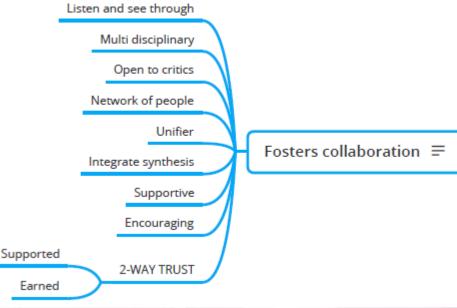
# **Fostering Collaboration**



Complex problems cannot be resolved by individuals working alone; their resolution requires the efforts of many. Individual contributions must be woven together into a collective enterprise for which success means success of the whole, not of the individual parts. This enterprise represents a vast

Reciprocal

a vital role in building, maintaining and strengthening these networks. Our goal should be to foster not just tradeoffs that compromise between competing positions but collaboration that allows new ideas to emerge through creative conflict and experimentation.

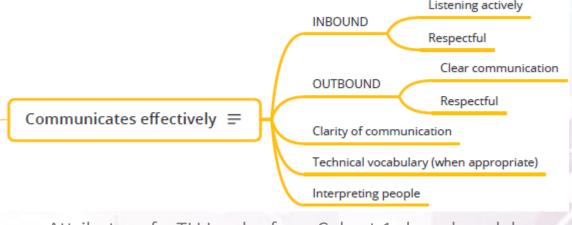


## **Communicating Effectively**



Often when people seek to improve their communication skills, they begin tweaking their "transmitters." But effective communication is not just about speaking it is also about listening. We need to improve our "receivers." Good listening requires attention to the content being spoken and the emotion with which it is communicated. We have to learn the language of those we seek to

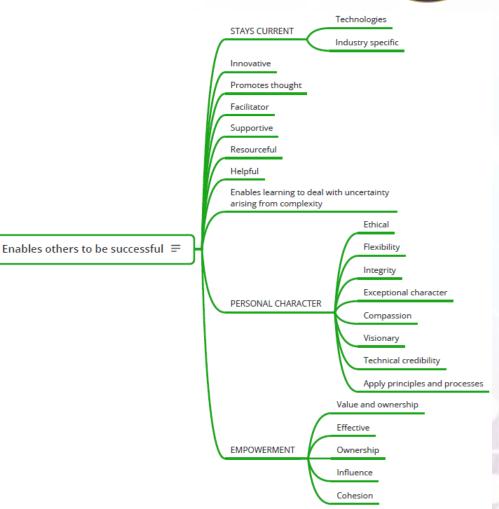
influence and speak to them in words they understand.



# **Enabling Others to Be Successful**



Since systems engineers must lead through influence, the results we seek to achieve will necessarily be accomplished by others. Our role is to influence, guide, encourage and support those who are in a position to produce those results. This requires a sense of humility and a deep respect those we seek to lead. We must trust in their abilities, and in their capacity to learn through discovery not lecture. Our success will derive from their success and their acknowledgement that we contributed to it.



## Demonstrating Emotional Intelligence



In order to lead, we must first understand ourselves, the differences between ourselves and others. Unless we recognize and understand these differences, we risk talking past others or causing them to reject our input. We must continually seek feedback to decrease our blind spots and be willing to reveal things that help others know us better. While the former can make us uncomfortable, and the latter more vulnerable, the payoff will be more than worth the effort.

