Time	December 5th
8:00am-9:00am	**Welcome and Opening**
9:00am-10:00am	**Keynote: Supermind Design - MIT Center for Collective Intelligence** Speaker: Kathleen Kennedy, Executive Director, MIT Center for Collective Intelligence
10:00am-10:15am	Break
10:15am-11:15am	**Keynote: Advance Model Predictive System Control Using AI and Digital Twins** Speakers: Jeff White, CTO - Edge, Chief Technology & Information Office, Dell - Said Tabet, Chief Architect, Emerging Technologies & Ecosystems, Dell Description: Deploying distributed systems at scale in the real world face multiple challenges including system state uncertainty, limited resource availability, multi-objective optimized outcomes, cybersecurity and safety. Heuristic and cloud based control methods have proven limited effectiveness in addressing these challenges. Use of Digital Twins and AI techniques including generative, discriminative and reinforcement along with advanced stochastic system modeling can provide a new framework of model predictive control. This discussion will cover the concepts of model based system control and use of advance techniques to manage modern large scale distributed systems.
11:15am-12:00pm	**DTC-IIC Update and Collaboration Opportunities** Speakers: Dan Isaacs, CTO, DTC - Chuck Byers, CTO, IIC • Motivations for Collaboration and Merger • Steering Committee Feedback • Current IIC & DTC Organization Structure • Choices for Groups • Charters, Deliverables, Schedules, etc. • Current Collaborations in Progress • Steps Toward a Merged Consortium • Vision for 2024
12:00pm-1:00pm	**Lunch**
1:00pm-1:45pm	**Keynote: Model Based Test Engineering for Modeling and Simulation Approaches** Speaker: Greg Brown, Chief Offering Manager (Strategic Business Development) - Aerospace, Defense & Government, National Instruments

1:45pm-2:15pm	**Collaboration Opportunities – Regional Branch Organizers** Updates from: - Australia/New Zealand - Korea - India
2:15pm-2:30pm	**Break**
2:30pm-3:00pm	**Abstract to Insight: Delivering Contextually Valid Innovation** Description: In this talk, fielded use cases will utilize three different meaningful digital transformations. Through design sessions uncovering limitations and opportunities, to iteratively developing and testing with partners, E2i Creative takes wicked problems from ideation to contextual validation in real-world operating environments. Speaker: Eileen Smith, Program Director, Institute for Simulation & Training, University of Central Florida
3:00pm-3:30pm	**Workshop on Digital Twin Skillsets: How to Address Current Challenges and Future Industry Requirements** Speakers: Soheil Sabri, Assistant Professor in the School of Modelling, Simulation and Training, University of Central Florida - Kostas Alexandridis, GIS Analyst, Orange County Public Works
3:30pm-4:30pm	**Joint IIC and DTC Energy / Power Systems** Speakers: IIC Energy: Daniel Young, Toshiba and DTC Power Systems: John Reynolds, Agile Fractal Grid and Mike Marshall, DRG Solutions Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.	**Joint IIC and DTC Communications / Telecommunications** Speakers: IIC Communications: David Lou, Huawei and Rajive Joshi, RTI and DTC Telecommunications: John Reynolds, Agile Fractal Grid, Roger Skidmore, EDX Technologies, Inc., and Nicolas Waern, EDX Technologies, Inc. Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.
4:30pm-5:30pm	**Joint IIC and DTC Mining** Speakers: IIC Mining: Ulrich Graf, Huawei and Jean-Jacques Verhaeghe, Mandela Mining Precinct and DTC Mining: Marcelo Bravo, rsa-tailings	

Time	December 6th	
8:30am-9:00am	**Welcome, Day 1 Summary and Day 2 Events**	
9:00am-9:30am	**Keynote: Digital Twin - Intelligent Infrastructure and Transportation Hubs** Speaker: Jeff DeCoux, Chairman, Autonomy Institute	
9:30am-10:00am	**Keynote: Convergence of Industry 4.0 towards Pharma Manufacturing 4.0** Speaker: Doug Kiehl, Senior Director: Disruptive/Transformative Technologies Team (DT3) and Digital Twin COE, Eli Lilly	
10:00am-10:15am	**Break**	
10:15am-11:15am	**Cross-Consortia AI Joint Working Group Update** Speakers: Chuck Byers, IIC, Moderator / Cohost – Dan Isaacs, DTC, Moderator / Cohost - Wael William Diab, Futurewei, IIC Industrial AI Task Group - (Vasu) Cheranellore Vasudevan, IBM, Responsible Computing Consortium - Claude Baudoin, OMG, OMG AI Platform Task Force - Sridhar Iyengar, IBM, OMG Board Perspective / Open source	
11:15am-12:00pm	**Collaboration Opportunities – RBOs** Updates from: - North East USA - Japan - Singapore	
12:00pm-1:30pm	**Lunch**	
1:30pm-2:00pm	**Responsible Digital Twin** Speaker: Pieter Van Schalkwyk, CEO, XMPro	
2:00pm-2:30pm	**The Strategic Interest and Role of Digital Twins in the Transition from Hardware to Software Defined Vehicles** Speaker: Phil Marshall, Chief Research Officer, Tolaga Research	
2:30pm-3:00pm	**2x Faster Vehicle Software Development Proven by Digital Twin Operating Model** Speaker: Pavel Azaletskiy, CEO, VSOptima	
3:00pm-3:15pm	**Break**	
3:15pm-4:15pm	**Joint IIC and DTC Security & Trust** Speakers: IIC Security and Trust: Keao Caindec, Farallon Technologies and Bob Martin, MITRE and DTC Security and Trustworthiness: Detlev Richter,	**Joint IIC and DTC Manufacturing** Speakers: IIC Smart Factory: Tom Doney, AdvME LLC and DTC Manufacturing: Madhu Gaganam, Dell Technologies, Nicolas Waern, EDX Technologies, Inc and Todd Edmunds, Dell Technologies

TUEV SUED Product Service GmbH and David Shaw, Intuitus Corp. Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.	Description: This is a joint session between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.

4:15pm-5:15pm	**Strategy and Must Win Brainstorming**

Time	December 7th
8:30am-9:00am	**Welcome, Day 2 Summary and Day 3 Events**
9:00am-10:00am	**Keynote: Digital Twin DNA for a Semiconductor Fab** Speaker: Urmi Sen, Digital Transformation Executive, Siemens Digital Industries Software
10:00am-10:15am	**Break**
10:15am-11:15am	**Keynote: TXST CIEDAR: Living Labs Deliver the Future Today** Speaker: Andres Carvallo, Co-Director, Connected Infrastructure for Education, Demonstration and Applied Research (CIEDAR) Consortium Description: In his keynote Professor Carvallo will reveal how these new 14 living labs in 800 acres deliver a new digital world with virtually unlimited possibilities. "The CIEDAR LIVING LABS" are a non-stop, on-demand, re-design journey of the business models, business processes, technologies, organizational structures, and applied human capital to seamlessly blend existing and new stand-alone trends such as, Mass Customization, Open Sourcing, Crowdsourcing, eCommerce, Virtualization, Cloud Computing, Mobility, mCommerce, Social Media, Vehicle Electrification, Distributed Generation, Energy Storage, Drones, and Internet of Things into a more reliable, more profitable, and more customer driven utility reality. Professor Carvallo will share how The TXST CIEDAR Living Labs deliver success by committing to pervasive performance applied research management, which helps acceleration use and adoptions of digital innovation for utilities, energy, water, wastewater, cities, transportation, networks, sensors, big Data, and Software.
11:15am-12:00pm	**Cyber Resilience and Platform Resiliency** Speaker: Eric Sivertson, CEO, Quantum Trace
12:00pm-1:00pm	**Lunch**

1:00pm-2:15pm	**Cross-Functional Use Case Workshop**
2:15pm-2:30pm	**Break**
2:30pm-3:15pm	**Joint Summary and Wrap Up** Description: A wrap-up of the Q4 Member Meeting, and discussion of future work. We will also begin planning for the Q12024 meeting in Reston, VA in March.