

Time Central Standard 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 <ul style="list-style-type: none"> • 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-2:15pm	Sustainability Contributing Group Speakers: Bassam Zarkout, IGnPower Inc and Abhijeet Kelkar, GEOOWN Title: Overview of the Framework for Sustainability in Discrete Manufacturing Abstract: Discrete manufacturers want to align their products and processes with the material circularity aspects of the UN SDGs (recycling). In this session, we will

	<p>present the ongoing work on the Sustainability Framework for Discrete Manufacturing, which is a comprehensive and practical approach for adapting and aligning products and processes with material circularity sustainability objectives. The framework will include templates and starter kits for applying the framework to use cases like virtual ownership, a concept that enables circular economy models.</p>
2:15pm-2:30pm	Break
2:30pm-3:30pm	<p>Digital Transformation Working Group</p> <p>Speakers: Bassam Zarkout, IGnPower Inc and Chaisung Lim, Korea Industry 4.0 Association</p> <p>Join us for this session as we dive into the achievements of the Digital Transformation Working Group (DXWG) since our last gathering and engage in discussions surrounding the significant progress on the Industry Digital Transformation Framework and the relationship between DX and Sustainability.</p>
3:30pm-4:30pm	<p>IIC and DTC Energy / Power Systems // IIC and DTC Communications / Telecommunications</p> <p>Speakers: IIC Energy: Daniel Young, Toshiba and DTC Power Systems: John Reynolds, Agile Fractal Grid and Mike Marshall, DRG Solutions // 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.</p> <p>These are two parallel joint sessions between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>
4:30 pm-5:30pm	<p>IIC and DTC Mining</p> <p>Speakers: IIC Mining: Ulrich Graf, Huawei and Jean-Jacques Verhaeghe, Mandela Mining Precinct and DTC Mining: Marcelo Bravo, rsa-tailings</p> <p>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.</p>

Time Central Standard Time	December 6th
7:30am-8:15am	IIC and DTC Healthcare

	<p>Speakers: IIC Healthcare: Abhijeet Kelkar, GEOOWN and Takao Futagami, Shinshu University and DTC Healthcare and Life Sciences: Jim St. Clair, Interoperability Institute and Sean Whiteley, Axomem Pte Ltd.</p> <p>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.</p>
8:30am-9:00am	Welcome, Day 1 Summary and Day 2 Events
9:00am-9:30am	<p>Keynote: Digital Twin - Intelligent Infrastructure and Transportation Hubs</p> <p>Speaker: Jeff DeCoux, Chairman, Autonomy Institute</p>
9:30am-10:00am	<p>Keynote: Convergence of Industry 4.0 towards Pharma Manufacturing 4.0</p> <p>Speaker: Doug Kiehl, Senior Director: Disruptive/Transformative Technologies Team (DT3) and Digital Twin COE, Eli Lilly</p>
10:00am-10:15am	Break
10:15am-11:15am	<p>Cross-Consortia AI Joint Working Group Update</p> <p>Speakers: Dan Isaacs, CTO, DTC - Chuck Byers, CTO, IIC, Moderators and Co-Hosts, Wael William Diab, Futurewei, IIC Industrial AI Task Group, DTC Speaker, (Vasu) Cheranellore Vasudevan, IBM, Responsible Computing Consortium, Claude Baudoin, OMG, OMG AI Platform Task Force, Sridhar Iyengar, IBM, OMG Board Perspective / Open source</p> <p>Introduction of Participants</p> <ul style="list-style-type: none"> •AI Ecosystem •Overview of AI projects across OMG (~5 minutes each) <ul style="list-style-type: none"> ○ OMG SDO ○ IIC ○ DTC ○ RC ○ Others? •High-level Goals for OMG AI Efforts •Open Discussion •Next Steps
11:15am-12:00pm	<p>Business Deployment Accelerator with Testbeds and Test Drives including the Time Sensitive Networking Testbed</p> <p>Speakers: Chaisung Lim, Korea Industry 4.0 Association and Florian Frick, University of Stuttgart – ISW</p> <p>Testbed and test drive updates (NEC, TSN and others) and test drive promotion plan (AAS on 5G Factory Network in the Automotive Parts Maker).</p>
12:00pm-1:30pm	Lunch

<p>1:30pm-2:15pm</p>	<p>Distributed Data Interoperability (DDIM) Task Group</p> <p>Speaker: Kym Watson, Fraunhofer IOSB, Chaisung Lim, Korea Industry 4.0 Association</p> <p>A dataspace is a logical, federated, open infrastructure for sovereign and trusted data sharing across an ecosystem based on common policies, rules and standards, and an enabler of new business models. The session will give a brief overview of on-going work on data spaces in the DDIM TG and also, as an example, the Korean MVP project on global carbon reporting (a joint activity with DTC and CESMII). The session will also explore the opportunities for collaboration between IIC – DTC on dataspace.</p> <ol style="list-style-type: none">1: Short overview of work on dataspace in the DDIM TG, covering what a dataspace is and examples of existing dataspace (10min, speaker Kym Watson)2: Short overview of the MVP global carbon reporting project in collaboration between KI4.0, DTC and CESMII (5min, speaker Chaisung Lim)3: Raising questions on dataspace approaches in the US (5min, speaker Chaisung Lim)4: Discussion of possible joint IIC – DTC work on dataspace (25 min).
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<p>2:15pm-3:00pm</p>	<p>Data, Information, Knowledge, and Wisdom</p> <p>Speakers: Eric Simmon, NIST, Chuck Byers, IIC, Abhijit Kelkar, GEOOWN, Bassam Zarkout, IGnPower</p> <p>Abstract: The DIKW (Data, Information, Knowledge, Wisdom) model demonstrates how data to and from IoT actuators and sensors is processed in stages into knowledge and wisdom adequate for making business decisions. This roundtable will be an informal discussion of these concepts, and how they map onto sorts of systems that IIC, DTC and OMG are interested in. We will also consider if “Understanding” should be added to the DIKW model, how various contextual considerations impact it, and how the model could apply to more generalized learning and AI.</p>
<p>3:00pm-3:15pm</p>	<p>Break</p>
<p>3:15pm-4:15pm</p>	<p>IIC and DTC Security & Trust // IIC and DTC Manufacturing</p> <p>Speakers: IIC Security and Trust: Keao Caindec, Farallon Technologies and Bob Martin, MITRE and DTC Security and Trustworthiness: Detlev Richter, TUEV SUED Product Service GmbH and David Shaw, Intuitus Corp. // IIC Smart Factory: Tom Doney, AdvME LLC and DTC Manufacturing: Madhu Gaganam, Dell Technologies, Nicolas Waern, EDX Technologies, Inc and Todd Edmunds, Dell Technologies</p> <p>These are two parallel joint sessions between counterpart groups in IIC and DTC to get to know each other, discuss charters, deliverables, workplans, etc. in anticipation of a merger.</p>
<p>4:15 PM-4:45 PM</p>	<p>Standards Task Group</p> <p>Speaker: Claude Baudoin (cébé IT &, Knowledge Management)</p> <p>Abstract: The STG recently completed a catalog of vertical IIoT standards – standards from various organizations that directly enable the deployment of IoT in the manufacturing, transportation, healthcare, or energy domains. The STG is</p>

	now developing a horizontal IIoT standards catalog – standards for architecture, communications, security, data formats, etc., that are industry sector-independent. We will discuss the goals and scope of this new deliverable, present the initial list of candidate standards, and solicit additional contributions from the attendees.
4:45pm-5:45pm	<p>Digital Transformation Framework</p> <p>Speakers: Bassam Zarkout, IGnPower Inc and Chaisung Lim, Korea Industry 4.0 Association</p> <p>Join us for this working session about the Industry Digital Transformation Framework document.</p>
6:00pm-8:00pm	Cross Consortium Reception

Time Central Standard Time	December 7th
8:30am-9:00am	Welcome, Day 2 Summary and Day 3 Events
9:00am-10:00am	<p>Keynote: Navigating the FAB in the Metaverse – “Need for Speed”</p> <p>Speaker: Urmi Sen, Digital Transformation Executive, Siemens Digital Industries Software</p>
10:00am-10:15am	Break
10:15am-11:15am	<p>Keynote: CEIDAR and Living Labs Collaboration</p> <p>Speaker: Andres Carvallo, Co-Director, Connected Infrastructure for Education, Demonstration and Applied Research (CIEDAR) Consortium</p> <p>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.</p>
11:15am-12:00pm	Communications Task Group (CTG): Software Defined Manufacturing Preview

	<p>Speakers: David Lou, Huawei and Rajive Joshi, RTI</p> <p>Join us to learn more about the CTG roadmap and preview the soon to be published whitepaper on IoT communications for Software Defined Manufacturing.</p> <p>The Communications Task Group is a sub-group of the Technology Working Group, responsible for communications aspects of the Industrial Internet of Things (IIoT). The task group develops and maintains the Industrial IoT Connectivity Framework (IICF) and the Industrial IoT Networking (IINF) foundational documents. The task group serves as a resource to the IIC and the IIoT community for guidance on communication related issues and for promoting communications innovations.</p>
12:00pm-1:00pm	Lunch
1:00pm-2:15pm	<p>IIC Leads Meeting</p> <p>Speaker: Chuck Byers – IIC</p> <p>This is the monthly IIC Leads meeting to discuss strategy, plans and administrative aspects of IIC. Topics include Status of IIC, debrief of Q4MM, merger plans, and a detailed discussion of how IIC groups without direct DTC counterparts (including M&I, IWG, DX, Vocab, testbeds, standards and TSN) will fit into DTC.</p>
2:15pm-2:30pm	Break
2:30pm-3:15pm	<p>Joint Summary and Wrap Up</p> <p>Speakers: Dan Isaacs, CTO, DTC - Chuck Byers, CTO, IIC</p> <p>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.</p>