



2020

Annual **INCOSE**
international workshop

Torrance, CA, USA

January 25 - 28, 2020

Lean Systems Engineering

www.incose.org/IW2020



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CHAIR

Art Hyde (arthyde55@gmail.com)

MEMBERS

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INCOSE CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/LSE/Pages/Home.aspx>

INCOSE WEB PAGE



<https://www.incose.org/incose-member-resources/working-groups/transformational/lean-systems-engineering>

Charter Summary



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WG PURPOSE/MISSION

It is our mission to strengthen the practice of Systems Engineering (SE) by exploring and capturing the synergy between traditional SE and Lean New Product Creation. To do this, we will advance the Body of Knowledge of Lean Thinking into SE practices to integrate people, processes, and tools for the most effective delivery of value to program stakeholders. Key workstreams to deploy these innovations include developing new socio-technical methods and developing training.

WG GOAL(S)

The goals are to create new methods building on the Lean Systems Engineering enablers for a cross-disciplinary team composed of humans to engineer a new human-centered product within the context of an Enterprise managed by humans. The new methods are to efficiently and effectively integrate Model-Based Systems Engineering workstreams with disparate other processes & tools used in executing complex new product creation projects such as Design Thinking, Agile Development, PM & Decision Science.

WG SCOPE

The Lean Systems Engineering Work Group scope includes working with the Project Management, Agile Development and Social Systems workgroups presently in addition to Universities such as the University of Michigan.

IW Outcomes



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IW Outcomes

Building a coalition of support within other Work Groups for initiatives prioritized by the Lean Systems Engineering Work Group.

Planned Work past IW



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PLANNED ACTIVITIES

Continue developing student projects (Capstone & Senior Design) to create the new Lean Systems Engineering methods needed by an Enterprise to use the full set of processes and tools used to design and launch new products, but add sponsorship from other Work Groups.

PLANNED WORK PRODUCTS

A report on new methods developed to efficiently and effectively to integrate Design Thinking and Agile process seamlessly into Systems Engineering is planned for the Great Lakes regional conference in October.