

NDIA SE HSI Committee Quarterly Meeting

June 5, 2015

Agenda

- **Welcome and introductions**
- **Committee overview**
- **Membership**
- **2015 Annual SE meeting**
- **2015 HSI Committee Plan**
- **Recent progress**
- **Status**
- **Issues**
- **Summary**
- **Wrap-up and actions**

NDIA-SE HSI Committee Overview



- **HSI committee reports to the NDIA SE Division**
- **Draft OSD Charter in 2008, Committee in 2009**
- **NDIA venue provides an opportunity for both govt and contractors to share and align**
- **Concerned with HSI policy, processes, and tools that support our community of interest and how that informs and adds value to the SE community**
- **Chairs**
 - OSD – David Schulte, Andrew Monje
 - Industry – Drs. Matthew Risser, PSE and Patrick Fly, Boeing

Mission, Goals & Objectives

Mission:

- Develop a Government and Industry partnership to effectively integrate Human Systems Integration (HSI) in the DoD acquisition process to improve overall system performance and decrease total ownership lifecycle costs.

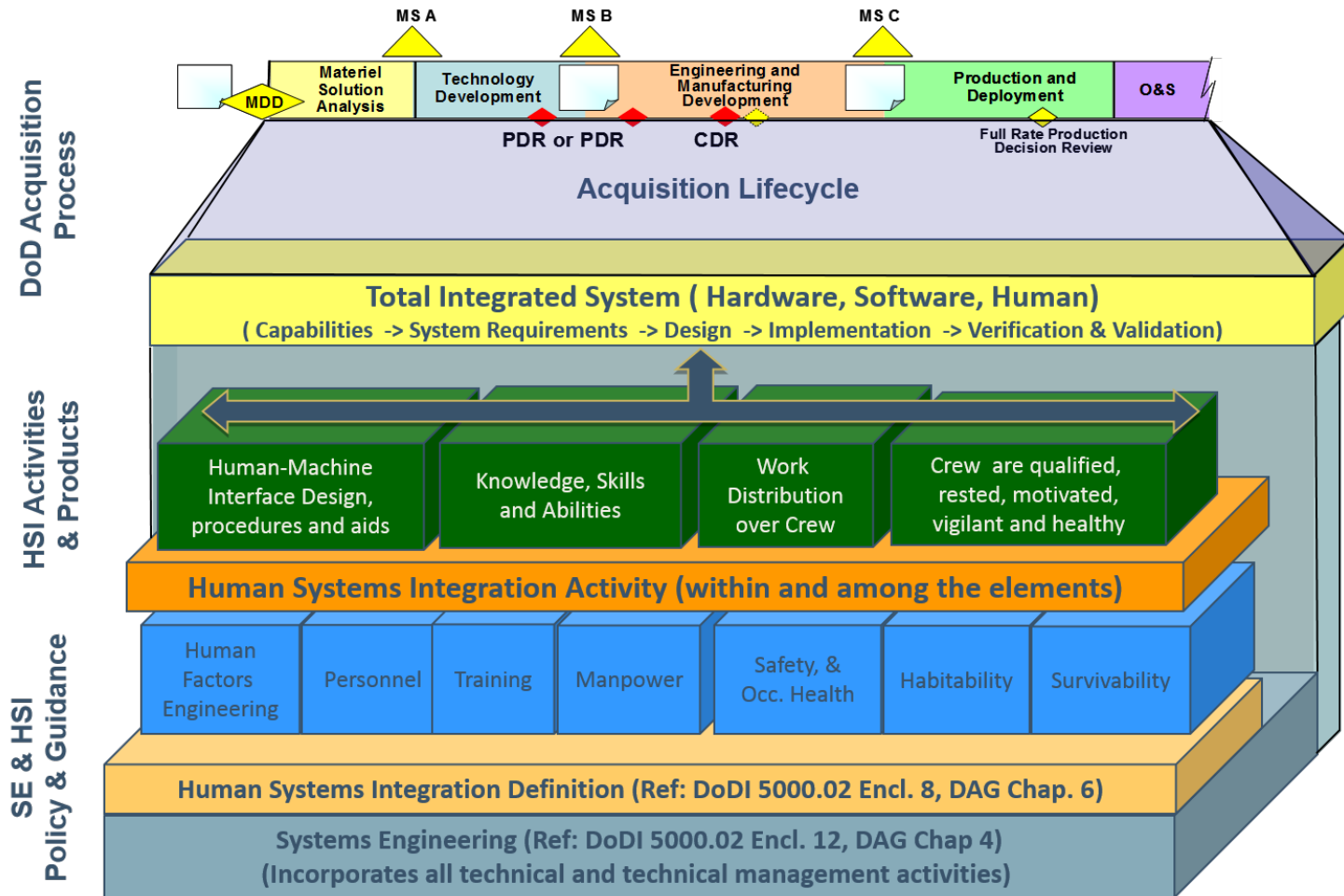
Strategic Goals

- Through partnership and collaboration to:
 - Establish and promote a common understanding of HSI
 - Advocate for the continued integration of HSI in acquisition efforts
 - Establish a means to share HSI knowledge, methods and best practices
 - Address common HSI gap areas
 - Standardize on use of language-coordinate with others

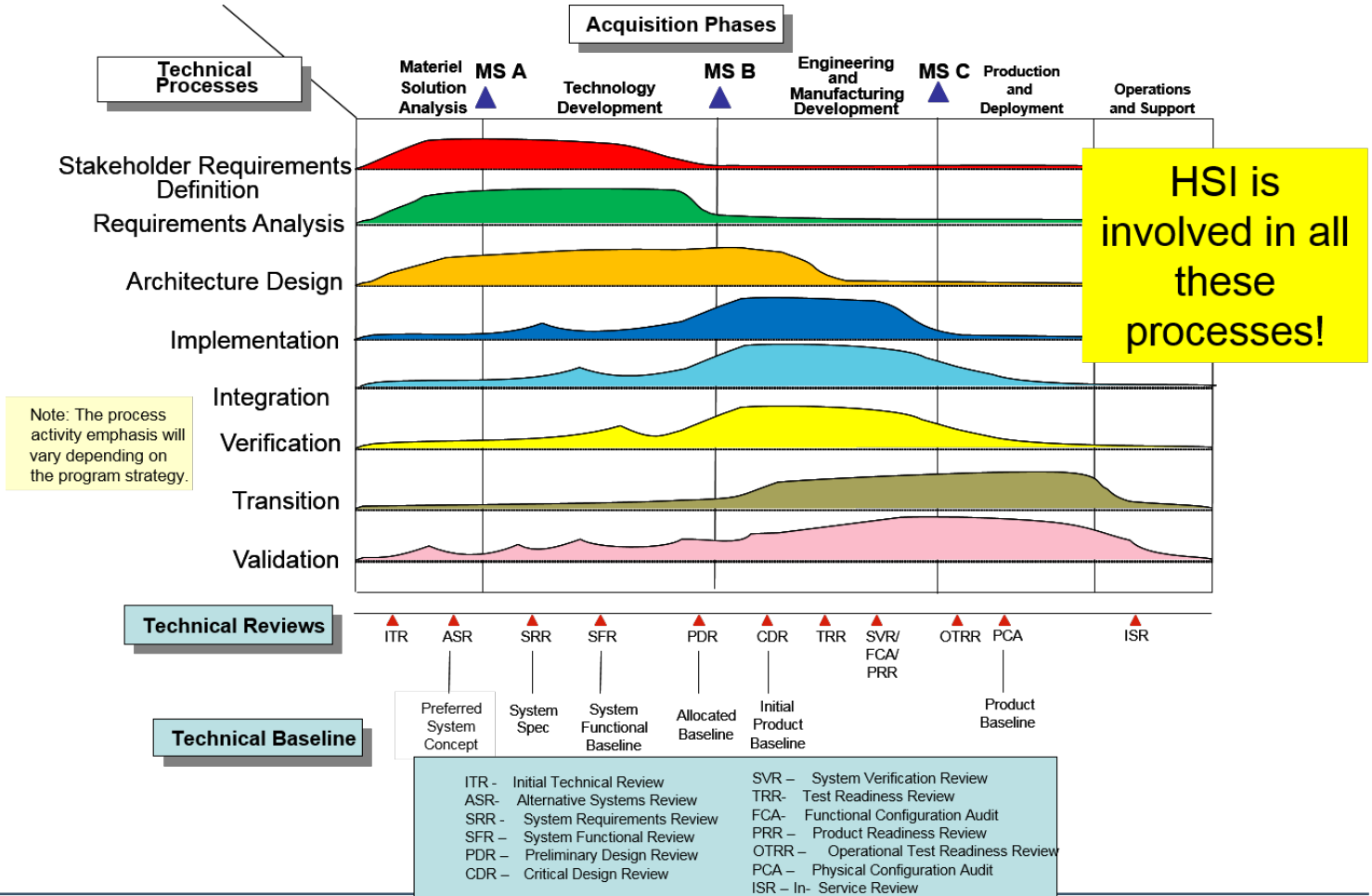
Objectives

- Grow our HSI community of practice to share knowledge, methods & tools, and collaborate with other committees and industry/academia groups
- Implement HSI uniformly, per DoDI5000.02, for best value HSI design & development solutions
- Leverage the best of HSI best practices and technology use from government, industry and academia to close gap areas and position HSI for the future

Improved Total System Performance



Technical Processes and Activity



Standing HSI Activities

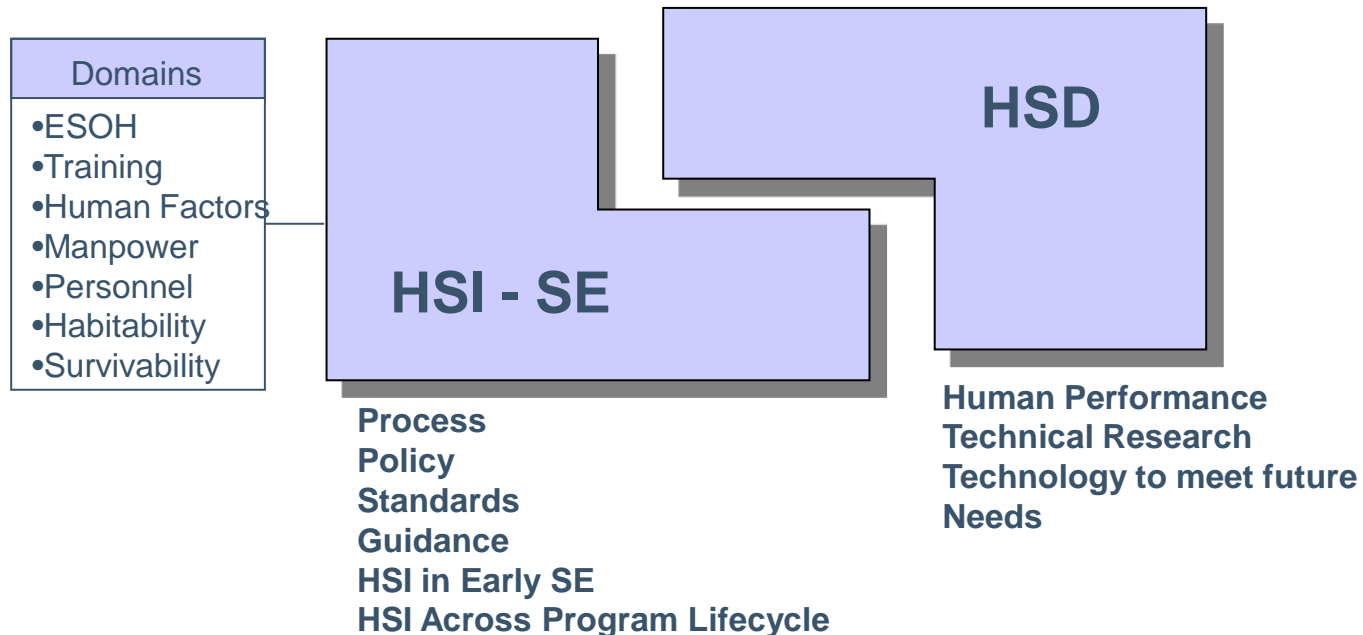
- **Quarterly teleconferences**
- **Track at annual SE conference**
- **Bi-monthly SE division meetings**
- **Align with**
 - Other SE committees (e.g., ESOH)
 - NDIA divisions (e.g., NDIA Human Systems Division)
 - Related groups (e.g., Joint HSI Working Group)

Previous SE Accomplishments



- **HSI in DoD policy, standards, and guidance**
- **HSI in early SE**
- **HSI support to rapid acquisition**
- **HSI in resilient systems**

Synergy with NDIA HSD



- **We are Complementary Groups Advocating for HSI**
- **NDIA SE- HSI & NDIA HSD to collaborate and support each others meetings & work products**

Membership Update

- **32 member on the distribution**
 - 17 government
 - Navy, Air Force, Army, USMC, NASA, NPS, OSD
 - 15 industry
 - LMCO, NGC, Boeing, GD, small business
- **24 confirmations**
- **Will sent spreadsheet to fill in your details**

18th Annual SE Conference



- **Date: October 26-29, 2015 (Note: Same week as HFES)**
- **Place: Springfield, VA**
- **The abstract submission deadline for the 18th Annual Systems Engineering Conference has been extended to June 19, 2015 at 5pm EDT.**
- **Abstracts must fully describe the planned content and how the presentations will advance the objectives of the conference and session.**
- **Presentations must be in electronic format; full papers are optional and are not required.**
- **Abstracts must include presentation title, author's name and title, e-mail address, phone number, mailing address and organization.**

18th Annual SE Conference



- **Submit abstracts at <http://application.ndia.org/abstracts/6870>.**
- **18th Annual Systems Engineering Conference website: www.ndia.org/meetings/6870.**

HSI Committee - 2015 Task Plan (presented at the SE Division meeting on 4/22/15)



2015 Tasks Planned	Status	Accomplishments (deliverables, etc.) - Comments
Align with ESOH, M&S, SEEC and SoS for the conference track.	In Progress	Plan for and hold HSI track at the 2015 NDIA SE Conference
Revitalizing the HSI committee due to turnover with OSD representation and committee leads.	In Progress	Reach out to new HSI contact at OSD (David Schulte)
Get alignment and stakeholder buy-in for early acquisition and ensure HSI is captured properly	In Progress	Reach out to NDIA Procurement Division (Chris Fletcher)
Identify HSI success stories with ROI metrics.	Not Started	
Defining pre-MDD HSI activities for early systems engineering.	Not Started	

- **Purpose: Try and get alignment and stakeholder buy-in for early acquisition, and ensure HSI is captured properly.**
- **Background:**
 - **Historically, the acquisition agency has generally not been fully integrated with Request for Proposal (RFP) writers and proposal reviewers with respect to HSI.**
 - **Creates a problem with a company that receives an RFP in that they have very little power to force, from the grass roots level, a fully integrated HSI approach.**

- **Background (continued):**
 - **Acquisition includes great words for integration of HSI (e.g., DoDD 5000.01 and DoDI 5000.02),**
 1. **RFP writers seem to water that down with wording that reflects a confusion between HSI and Human Factors/Ergonomics (HFE)**
 2. **Hurts HSI people specifically in the ranks in planning, scheduling, and writing into the proposal a fully integrated HSI effort.**
- **Industry ends up with HSI deliverables that often reflect only the HFE effort, not the integration of the seven HSI domains: (HFE, Safety, Training, Personnel, Manpower, Habitability and Survivability).**

Action Items

- **Chris to send HSI Committee a copy of NDIA's Pathway to Transformation Acquisition Report.**
- **Chris to add HSI Committee to the NDIA Procurement Division distribution list.**
 - **Will continue to communicate with Procurement Division and explore opportunities to be used as a cross service for initiatives if needed.**

HSI Committee Meeting with David Schulte New HSI rep to OSD (4/30/15)



- **Purpose: Reach out to HSI representative at the Office of the Secretary of Defense (OSD) and discuss plans on how the NDIA SE HSI Committee plans to reenergize its base.**
 - **Turnover in HSI Committee**
 - **Turnover at OSD**

HSI Committee Meeting with David Schulte New HSI rep to OSD (4/30/15)

- **Resume HSI Committee meetings**
 - **Target is to meet every quarter**
 - **Use meetings to mark progress, document challenges**
 - **Target time for first meeting: Early June, 2015**
 - **Dave Schulte to reach out to gov't SE team**
- **Explore other opportunities:**
 - **Matt Risser to meet with OSD System of Systems (SoS) collaborators info exchange this October**
 - **Work with NDIA Human Systems Division to take HSI success stories to Congress**
 - **HSI Committee should be involved in creating a common approach, and a common format of the success stories.**

HSI Committee Meeting with David Schulte New HSI rep to OSD (4/30/15)



- **Explore other opportunities (continued):**
 - **Reach out to Environmental Safety and Occupational Health (ESOH) Committee to see if there is an interest in conducting a joint HSI/ESOH conference track**
 - **Participate in more SE Division bimonthly meetings (at least two per year).**

HSI Committee Meeting with Sherman Forbes, Chair of NDIA SE ESOH Committee (05/15/15)



- **ESOH/HSI track under discussion**
 - **Matt took the action to send out emails encouraging HSI personnel to submit abstracts for the SE Division conference**
- **Agreed to take a “wait and see” approach**
 - **Discussions will continue depending on how many HSI abstracts are received**
 - **If 4 or more abstracts are received, will have an HSI track**
 - **If 3 or less are received, will consider ESOH/HSI track**
 - **Emphasize the extension of deadline to encourage more abstract submissions.**

Human Systems Integration (HSI) Committee – 2015 Status (as of 06/05/15)



2015 Tasks Planned	Status	Accomplishments (deliverables, etc.) - Comments
Align with ESOH, M&S, SEEC and SoS for the conference track.	In progress	Reached out to ESOH committee lead on 15 May 2015.
Revitalizing the HSI committee due to turnover with OSD representation and committee leads.	In progress	Reached out to new HSI contact at OSD (David Schulte) on 30 April 2015. NDIA SE HSI Committee telecon held on 05 June 2015.
Identify HSI success stories with ROI metrics.	In progress	Reach out to NDIA Human Systems Division to identify success stories. Create a common approach and a common format of the success stories.
Get alignment and stakeholder buy-in for early acquisition and ensure HSI is captured properly	In progress	Reached out to NDIA Procurement Division (Chris Fletcher) on 29 April 2015.
Defining pre-Material Development Decision (MDD) HSI activities for early systems engineering.	In progress	Effort currently underway to use HSI Framework to identify pre-MDD HSI activities.

Issues/Concerns

- Adequate representation from the HSI community at the SE Division meeting.
- Charter update needed?
- HSI Committee website update needed:
<http://www.ndia.org/Divisions/Divisions/SystemsEngineering/Pages/HSISubcommittee-SE.aspx>

Summary

- **Provided summary of HSI Committee activity to NDIA SE bi-monthly meeting**
 - **Identified tasks for 2015**
- **Began taking initial steps towards achieving goals:**
 - **Reached out to NDIA Procurement Division**
 - **Reached out to new HSI rep at OSD**
 - **Reached out to ESOH committee**
 - **Agreed to a plan forward to reenergize the HSI Committee**

Contact

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