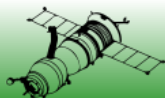


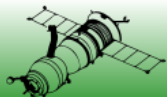
Transportation Working Group Session – IS2014

Nita Rabadia – TWG Co-Chair
Jennifer Russell – TWG North
America Outreach

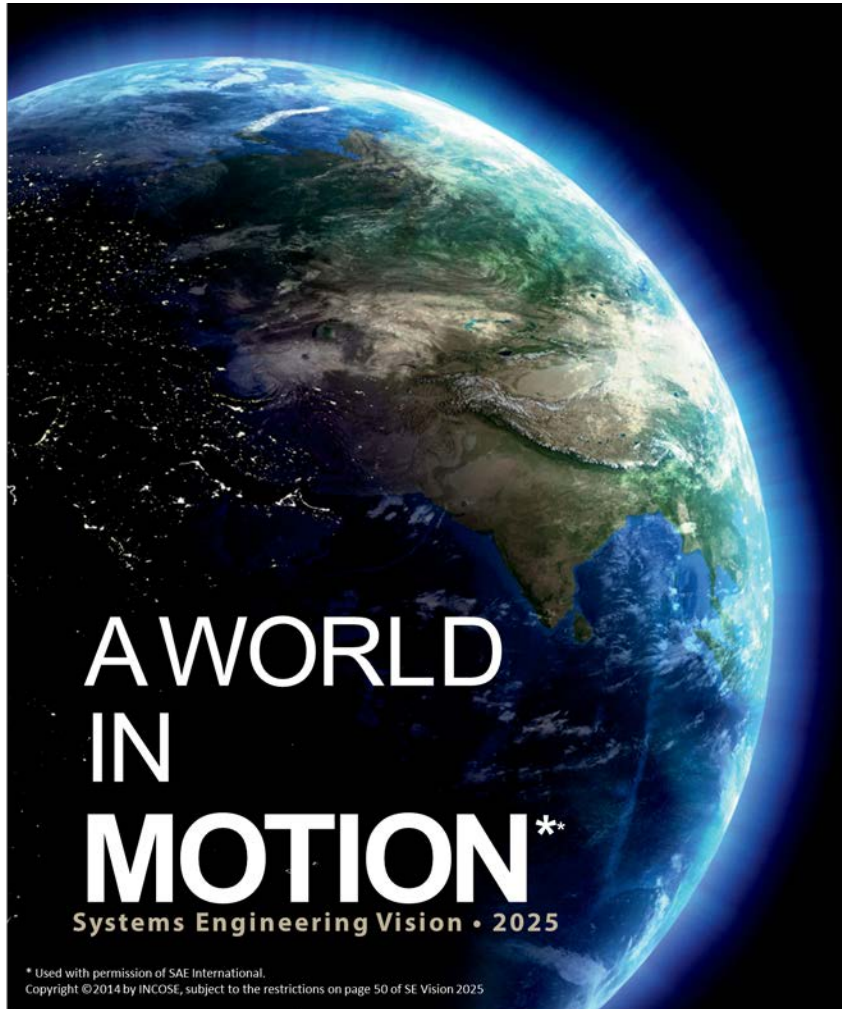


Agenda Items

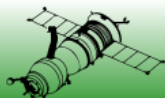
- Updates from INCOSE Strategy Meetings
 - Vision 2025
 - CAB/IOB/TechOps Objectives
 - IT Updates
- Developing TWG 5 Year Plan
- Planning for IW15 - IS15



SE Vision 2025



- Leverage for industry discussion
- Who plans to utilize?
- Automotive – FORD engaged



INCOSE 5 Year Objectives

Growth: INCOSE doubles its membership and embraces the healthcare, mobility, and energy business sectors

Alliances: INCOSE amplifies its ability to achieve its mission through diverse alliances

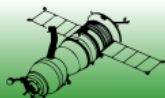
Education: INCOSE curricular recommendations are widely adopted around the world, raising the quality of engineering education

Products: INCOSE produces and brokers the most impactful systems engineering information in the world

Forums: INCOSE produces and supports the most impactful systems engineering forums in the world

Competency: INCOSE teams with industry to raise systems engineering competency across their supply chains

Transformation: INCOSE accelerates the transformation of systems engineering to a model-based discipline



Comparing Joint Topics of Interest:

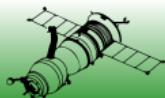
CAB / IOB / TechOps

Key Areas of Industry Need & Interest: (no priority order)

- Streamline INCOSE admin process & increase guidance for volunteers
- Increase industry SE competency / SE capability
 - *SE Soft Skills – influence, leadership, etc. as critical as technical skills*
- Effective SE Tailoring / Scaling practices
- Industry-tailored/(able) Value proposition for SE and INCOSE
- Re-use strategies (*note for Automotive “PLM strategies”*)

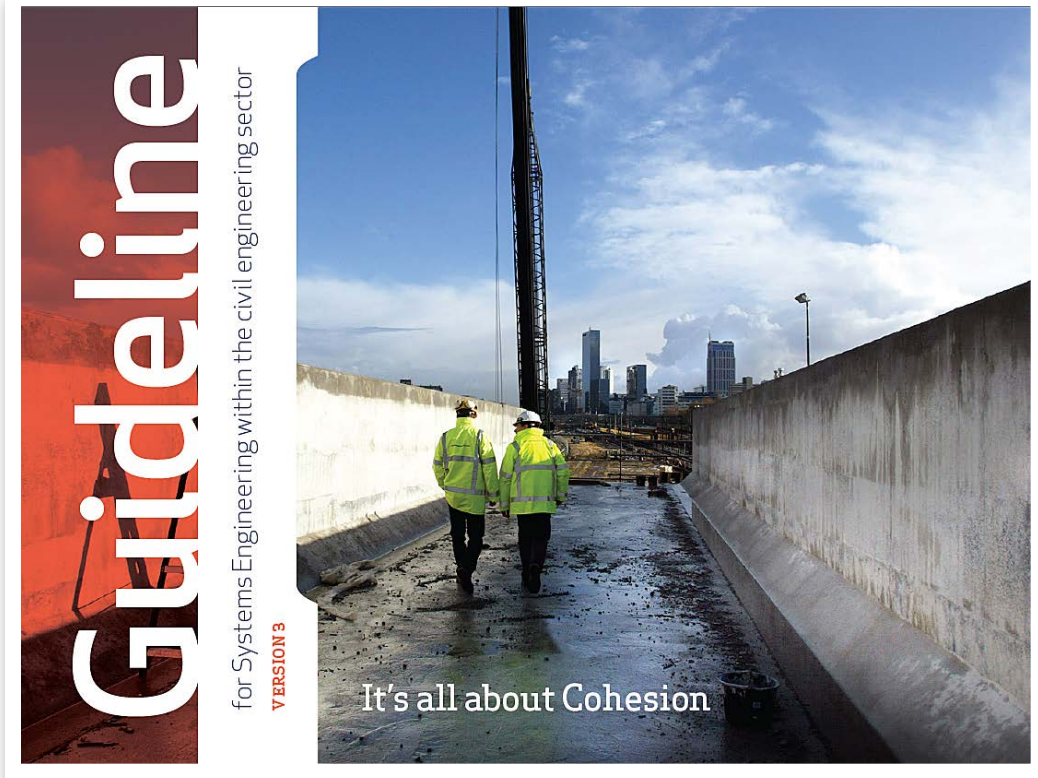
Top 5 CAB Needs are:

1. **SE Professional development**
2. **Agile/Expedited methods**
3. **Effective Trade Studies**
4. **Product lines, re-use**
5. **Better Value proposal for INCOSE and Systems Engineering**



Dutch SE Guidelines for Transportation Infrastructure, 3rd Edition – English translation Released

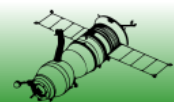
“..since version 2 in 2009...the support base has broadened, due to organisations realising that that SE helps to make projects work,”



- **SE guidelines tailored for domain application**
- **Basis for industry-wide benchmarking in other geographic regions**
- **6 parties collaborated representing Dutch government & industry:**

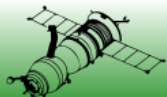
- Railway Agency
- Roadways & Waterways Agency
- Construction Industry
- Hydraulic engineering firms
- Engineering firms
- Electronic installation industry

Available for download from: www.leidraadse.nl/welcome (& **INCOSE Netherlands Chapter**)



IT Updates

- Website “refresh at 1S13” – contract terminated to issues
- New contract in place
- Looking for input from WG on what content of existing data,
 - to migrate across,
 - to archive
 - to delete (obsolete)



Developing TWG 5 Year Plan

Growth: INCOSE doubles its membership and embraces the healthcare, mobility, and energy business sectors

Alliances: INCOSE amplifies its ability to achieve its mission through diverse alliances

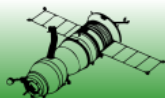
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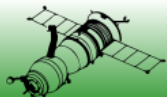
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Our objectives

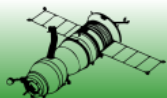
- Growth
- Alliances
- Education
- Products
- ...
- Competency



Vision

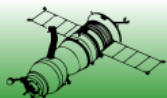
- TWG (time for an update to name?)
- Vision:

Influence society and access skills from established digital economies to bring awareness of Intelligent Mobility so we can grow the practice of systems engineering in transportation.



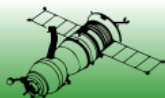
Steps and Volunteers

- Growth
 - Tech Sector
 - Silicon Valley Jean and Kuldeep
 - Uber ??
 - ITS Jenn
- Alliances
 - Other WGs
 - Infrastructure Jenn
 - Lean Jenn
 - Agile ??
 - APTA David



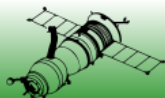
Steps and Volunteers

- Education
 - [White paper] 1 every 2 years - End of Sept next TWG conf call for interested parties
 - Vision of mobility
 - Target audience – broad distro
 - Distro Plan – Policy makers, press, other engineering journals, SE Journal
 - Discuss at Roundtable next IS with Lean, Inf, and Agile
 - Publish paper ~ IS16
 - Competency
 - Evolution of CSEP/ESEP Info Jon and Jenn



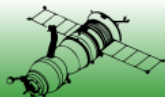
Steps and Volunteers

- Products
 - LinkedIn Andrew Mark (post photos)
 - Try to get more discussion topics
 - Case Studies Bruce
 - Reach out and invite interesting practices to present case study
 - Jive ???
 - Facebook No
 - INCOSE Site Update - in progress
 - TWG leadership (Lee C. lead) to look at content to migrate



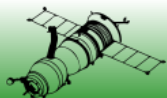
Steps and Volunteers

- Review Current TWG Body Of Knowledge (BOK) on INCOSE site Mark Sabri
 - ID existing
 - ID more needed
 - Reorganize
- Web/Podcast for future Rhianne
 - Collect YouTube SE broadcasts – screen and list on INCOSE and LinkedIn site
 - Self record and post to LinkedIn, rather than live webcasts
 - Start with OH and JR's IS14 presentations, post in 6 months or more



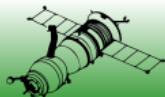
Planning for IW15 & IS15

- 25th Anniversary
- IW2015 – Los Angeles CA, Jan 24-27
 - Jenn will work with INCOSE leadership on possibility of another SE Summit



Planning for IW15 & IS15

- IS2015 - Seattle WA, July 13-16
 - Submission for Papers etc: 9th Nov 14
 - Panel Transportation centric
 - 3 Panelists - Vision for mobility of the future: Maintainer, User, Operator (leverage APTA connections)
 - Roundtable
 - Cross WG/Cross industry
 - Topic: Intelligent mobility ~ how to leverage depth of SE experience to work in new domain



TWG Members View

- *What do we want to see more of?*
- *What do we want less of?*
- *Key themes of particular interest?*
- *Who wants to get more involved?*

