Masterplan Workshop
Part 1

FuSE Workshop

05/06 DEC 2022
Masterplan Workshop Series

Overview

IW 2023 & Beyond (5.12.2022)
- **Objective**: Detail IW FuSE session per stream including the identification of required pre-/post-processing activities
- **Content**: i.a., topic overview, detailed session concept, synchronization approach, pre-/post-processing plan, stakeholder analysis

Roadmap & Program Plan (6.12.2022)
- **Objective**: Create a roadmap and mid-term program plan for FuSE
- **Content**: i.a., Program plan, work breakdown, deliverability map, risk analysis, KPIs and reporting

Marketing & Outreach (12.12.2022)
- **Option: Stream Detailing**
- **Objective**: Specify the communication & outreach approach of FuSE and derive communication (& listening) measures
- **Content**: i.a., communication & outreach plan, INCOSE conferences, (IT) infrastructure

Consolidation & Program Handbook (13.12.2022)
- **Objective**: Summarize the workshop series results and ensure sustainable documentation
- **Content**: i.a., program handbook structure, documentation plan, meeting landscape, role description, decision making

Content including PMO topics as identified in the baselining workshop.
Key Deliverables / Workshop Objectives

- Detailed IW working sessions
- Required next steps to ensure a successful IW
- Breakdown of SE Vision 2035 roadmap goals (2025)
- Additional online working sessions up until EMEA WSEC
- First content (presentation) for EMEA WSEC
- FuSE roadmap 2023
Artful Participation

Good enough for now and safe enough to try?

Not either / or but both & more.

Is my behavior at this moment the best contribution I can make to the collaboration in this workshop?
Agenda DAY 1.

IW Working Session
• Recap and exchange on current proposals
• Detailed working session description
• Identification of required next steps

Beyond IW
• Proposal on submissions for EMEA WSEC
• Additional online sessions until EMEA WSEC

Program Management
• Optional: Stakeholder analysis
• Optional: Risk analysis
Agenda DAY 2.

IW Working Session
• Detailed working session description
• Identification of required next steps and syncs

Beyond IW
• Proposal on submissions for EMEA WSEC
• Additional online sessions until EMEA WSEC

FuSE Roadmap 2023
• SE Vision 2035 roadmap breakdown
• FuSE program roadmap 2023
Check-in.

miro
Cat-o-meter (DAY 1)

How are you feeling today?

1x
2x
3x
Musk-o-meter (DAY 2)

How are you feeling today?

1x

4x

2x
IW Working Session.

- Recap and exchange on current proposals
- Detailed working session description
FuSE @ IW Timetable.
## FuSE @ IW Schedule

### Working Sessions of FuSE Streams

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<td>08:00</td>
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Reflection of IW content on the FuSE success factors

- **Attractive**
  - Engage members and non-members

- **Inclusive**
  - From an exclusive club to inclusive initiative

- **Close to application**
  - Involvement of companies and domains

- **Fresh**
  - Relevant and updated road map and context

- **Implementation**
  - The degree to which the road map is realized

- **Global promotion**
  - Attractive global digital marketing

- **Passion**
  - To get the working group proud to be part of it
Detailed working session description - Saturday
# IW FuSE Sessions

**Saturday**

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<th>Time</th>
<th>Vision &amp; Roadmaps</th>
<th>Foundations</th>
<th>Methodology</th>
<th>Application Extensions</th>
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<td>14:00</td>
<td>Stream introduction, share planning for the stream, how people can participate during the IW and beyond. Prioritization of the roadmap topics to address</td>
<td>Confirm: Where are we? - What is the baseline? - This is what we think this stream is about (including citations to SE Vision 2035, others)</td>
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<td>Stream Introduction (Q&amp;A)</td>
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<td>15:30</td>
<td>Stream introduction, share planning for the stream, how people can participate during the IW and beyond. Prioritization of the roadmap topics to address</td>
<td>Confirm: Where are we? - What is the baseline? - This is what the stream is about. - Problems &amp; Opportunities</td>
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<td>Topic Introduction with Q&amp;A (1-4)</td>
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<td>Stream Sync ( walkthrough – stream leads plus exec team)</td>
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## Session: FuSE Opening

### Stream: FuSE Overall

**Topic:**
- The Co-theme of IW 2023 is the Future of Systems Engineering Initiative to realize the SE Vision 2035
- Dr. Oli de Weck (MIT) will keynote on the foundations of systems engineering both from the scientific literature and industrial practice

**Method:**
- Presentation
- Q&A

### Agenda: 10:00-11:00

- 15 min – Intro by Bill
  - Vision & mission statement of FuSE
  - Organizational slide: This is FuSE (including pictures and stream leads)
  - Overview on IW working sessions (and virtual follow-ups)
  - Intro of Oli
- 30 min – Keynote by Oli
  - Keynote presentation
  - Survey of SE as discipline maturity
- 15 min – Q&A

### Risk / Risk Mitigation:
- Loosing enthusiasm from online audience, as the working sessions are F2F only
  - Participate through WGs
  - Meeting spots online
  - Emphasize during intro there will be follow-ups online

### Purpose / Reason Why & Desired Outcome:
- Wake people up on the fundamentals of SE
- Make people and WGs eager to get involved
- Understanding of FuSE as the realization stream for Vision 2035
- Get people interested in participating the FuSE sessions
- Understanding what FuSE is doing different → FuSE is getting things done
- Survey (use Zoom): Maturity of Systems Engineering - individual assessment → Community (0=alchemy → 9=chemistry) first baseline → Revision at the end of the IW

### Required Input & Material / Preparation:
- Description / topics of FuSE sessions
- Overview how streams pay into the SE Vision 35
- Hardcopy of the vision? Assumption: Digital version
- Ensure digital availability of the vision
- How is the opening referring/ introducing FuSE → Bill can get back to that in his intro

### Session Parameters / Setup:
- Hybrid plenary session
- 1 hour
- ~300 people

### Owner / Facilitator:
- Owner: Bill, Oli

### Keynote presentation (OdW)
- Draft Keynote and bio to Bill (CW50) (OdW)
- Intro slides (Bill, 3DSE)
- Way to get feedback / Q&A from online participants
- Survey (Zoom) of maturity of SE, as a discipline (9 levels TRL-like-discipline RL) as part of keynote
Session: V&R 1st Session

Stream: Vision & Roadmap

Topic:
- Stream introduction, share planning for the stream, wow people can participate during the IW and beyond
- Prioritization of the roadmap topics to address

Method:
- Presentation
- Putting up post-its

Agenda: 14:00-15:00
- 10 min – Stream introduction (presentation)
- 10 min – Planning of activities @IW and beyond (Rough planning @IW and beyond [quarterly updates, …])
- 30 min – First shot at prioritization of topics (Put up post-its, then add additional topics via post-its and collect possible changes to the vision)
- 10 min – Take inventory of willingness to participate

Risk / Risk Mitigation:
- Too little time for doing the work
  - Paul keeps introduction brief
  - Provide pre-reads
  - Strong moderators

Purpose / Reason Why & Desired Outcome:
- Make people aware of what the stream is about
- Identified gaps with description
- Inventory of topics (for each stream)
- Prioritized inventory (with reasoning)
- Overview of people willing to participate

Required Input & Material / Preparation:
- Categorization of prioritization
- Stream topic overview at IW
- Stream planning (Year 2023)
- Prepare pre-reads
- Categorization for prioritization (pre-print/written) - Structure for post-it session
- Posters, e.g. vision roadmap, challenges, emerging technologies, recommendations
- Posters with stream overview

Session Parameters / Setup:
- In person only
- 1 hour
- ~40 people

Owner / Facilitator:
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd

Risk / Risk Mitigation:
- Too little time for doing the work
  - Paul keeps introduction brief
  - Provide pre-reads
  - Strong moderators
**Session: V&R 2nd Session**

**Stream: Vision & Roadmap**

**Topic:**
- Stream introduction, share planning for the stream, wow people can participate during the IW and beyond
- Prioritization of the roadmap topics to address

**Method:**
- Presentation
- Putting up post-its

**Agenda: 15:30-17:00**
- 10 min – Stream introduction
- 10 min – Planning of activities @IW and beyond
- 30 min – Prioritization of earlier identified topics (with reasoning) + new topics (Introduce topics and add new ones (white spots), prioritization ~20 min)
- 10 min – Take inventory of willingness to participate

**Risk / Risk Mitigation:**
- Too little time for doing the work
  - Paul keeps introduction brief
  - Provide pre-reads
  - Strong moderators

**Purpose / Reason Why & Desired Outcome:**
- Make people aware of what the stream is about
- Identified gaps with description
- Inventory of topics (for each stream)
- Prioritized inventory (with reasoning)
- Overview of people willing to participate

**Session Parameters / Setup:**
- In person only
- 1 hour
- ~40 people

**Owner / Facilitator:**
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd

**Required Input & Material / Preparation:**
- Categorization of prioritization
- Stream topic overview at IW
- Stream planning (Year 2023)
- Prepare pre-reads
- Post-its from 1st session
- Categorization for prioritization (pre-print/written) - Structure for post-it session
- Posters, e.g. vision roadmap, challenges, emerging technologies, recommendations
- Posters with stream overview
## Session: Methods 1st Session

### Stream: Methodology

#### Topic:
- Confirm: Where are we? - What is the baseline? - This is what we think this stream is about.

#### Method:
- A scope sharing process…
- A risk identification process?

#### Agenda: 14:00-15:00
- 10 min – Stream introduction
- 10 min – Planning of activities @IW and beyond
- 30 min – First shot at feedback of stream (Post-it collection (see vision & roadmaps stream))
- 10 min – Take inventory of willingness to participate

### Risk / Risk Mitigation:

### Purpose / Reason Why & Desired Outcome:
- The FuSE approach, structure, and this stream definition have been shared with the participants
- This stream's planned IW and 2023 activities have been shared with the participants
- Perceived goals of the stream are captured from each participant
- Participants have an opportunity to document their feedback on this stream's 'charter' content

### Owner / Facilitator:
- Owner: Chris

### Session Parameters / Setup:
- In person only
- 1 hour
- ~40 people

### Required Input & Material / Preparation:
- “Seed” for the conversation
- Posters (to be identified)
# Session: Methods 2nd Session

## Stream: Methodology

### Topic:
- Confirm: Where are we? - What is the baseline? - This is what we think this stream is about.

### Method:
- A scope sharing process...
- A risk identification process?

### Agenda: 15:30-17:00
- 10 min – Stream introduction
- 10 min – Planning of activities @IW and beyond
- 30 min – First shot at prioritization of topics (Additional prioritization from new participants)
- 10 min – Take inventory of willingness to participate

## Risk / Risk Mitigation:

## Purpose / Reason Why & Desired Outcome:
- The FuSE approach, structure, and this stream definition have been shared with the participants
- This stream's planned IW and 2023 activities have been shared with the participants
- Perceived goals of the stream are captured from each participant
- Participants have an opportunity to document their feedback on this stream's 'charter' content

## Owner / Facilitator:
- Owner: Chris

## Session Parameters / Setup:
- In person only
- 1 hour
- ~40 people
- New participants, as compared to previous session

## Required Input & Material / Preparation:
- "Seed" for the conversation
- Posters (to be identified)
# Session: App. Extensions 1st Session

## Stream: Application Extensions

### Topic:
- Stream introduction, share planning for the stream, how people can participate during the IW and beyond
- Prioritization of the roadmap topics to address

### Method:
- Presentation
- Putting up post-its

### Agenda: 14:00-15:00
- 10 min – Stream introduction (Intro – What is “Application Extensions” and why)
- 10 min – Planning of activities @IW and beyond
- 30 min – First shot at collection of topics (Intro to the selected topics (why), additional prioritization from new participants)
- 10 min – Take inventory of willingness to participate

### Purpose / Reason Why & Desired Outcome:
- Get everyone on the same page
- Obtain feedback on the value proposition
- Set the baseline - Where we are
- Present the selected topics for IW and get feedback
- Additional applications to be considered
- Engage people for the Sunday and Monday sessions
- Inventory of topics (for each stream)
- Prioritized inventory (with reasoning)
- Overview of people willing to participate

### Risk / Risk Mitigation:

### Session Parameters / Setup:
- In person only
- 1 hour
- ~40 people

### Owner / Facilitator:
- Owner: Tom
- Facilitator: Jennifer Russel, Mike Watson, Marcel van de Ven, …

### Required Input & Material / Preparation:
- Map of current SE application domains
- Stream topic overview at IW
- Stream planning (Year 2023)
- Presentation of the stream
- Presentation of the topics
- Posters with stream overview
- Flipcharts, post-it notes and pens
## Session: App. Extensions 2nd Session

### Stream: Application Extensions

#### Topic:
- Stream introduction, share planning for the stream, how people can participate during the IW and beyond
- Prioritization of the roadmap topics to address

#### Method:
- Presentation
- Putting up post-its

#### Agenda: 15:030-17:00
- 10 min – Stream introduction (Intro – What is “Application Extensions” and why)
- 10 min – Planning of activities @IW and beyond
- 30 min – First shot at collection of topics
- 30 min – Assessment of maturity
- 10 min – Take inventory of willingness to participate

#### Purpose / Reason Why & Desired Outcome:
- Get everyone on the same page
- Obtain feedback on the value proposition
- Set the baseline - Where we are
- Present the selected topics for IW and get feedback
- Additional applications to be considered
- Engage people for the Sunday and Monday sessions
- Inventory of topics (for each stream)
- Prioritized inventory (with reasoning)
- Overview of people willing to participate

#### Risk / Risk Mitigation:

#### Session Parameters / Setup:
- In person only
- 1 hour
- ~40 people
- New participants, as compared to previous session

#### Owner / Facilitator:
- Owner: Tom
- Facilitator: Jennifer Russel, Mike Watson, Marcel van de Ven, …

#### Required Input & Material / Preparation:
- Map of current SE application domains
- Stream topic overview at IW
- Stream planning (Year 2023)
- Presentation of the stream
- Presentation of the topics
- Posters with stream overview
- Flipcharts, post-it notes and pens
- SE application domains maturity level
- Identify KPIs how to measure the maturity
Detailed working session description - Sunday
## IW FuSE Sessions

**Sunday**

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<th>Time</th>
<th>Vision &amp; Roadmaps</th>
<th>Foundations</th>
<th>Methodology</th>
<th>Application Extensions</th>
<th>Overall / Sync</th>
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<tr>
<td>08:00</td>
<td>How we keep collecting feedback (to newly added content!)</td>
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<td>Disrupter: Scale / Interrelation</td>
<td>How SE support sustainable cities → via Smart Cities Initiative</td>
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<td>08:30</td>
<td>Use roadmap items of Sat. to elaborate on roadmap items to address in each stream</td>
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<td>Disrupter: Cynefyyn</td>
<td>How SE support sustainable cities → via Smart Cities Initiative</td>
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<td>09:00</td>
<td>Use Grand Challenges items of Sat. to elaborate on projection of the challenges on each stream</td>
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<td>Disrupter: AI4SE &amp; other technologies</td>
<td>How SE as identified on SAT session</td>
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<td>09:30</td>
<td>Set up an inventory, identify gaps, involve people on these topics, engagement</td>
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<td>How SE support sustainable cities → via Smart Cities Initiative</td>
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# Session: V&R Group A

**Stream: Vision & Roadmap**

**Topic:**
- How we keep collecting feedback (in particular, to newly added content)

**Method:**

**Agenda: 08:00-10:00**
- All: 10 min – Explain purpose of today’s session (presentation)
- Group A: 30 min – Discuss types and sources of feedback to collect (discussions and collection on post-its)
  - Feedback types on: SE Vision 2035 modifications, as well as proposed additions for the on-line version of the vision
  - Group A: 30 min – Based on types: What means are needed to process the feedback? (discussions and collection on post-its)
- Group A: 30 min – What is the process for managing / evaluating the feedback? (discussions and collection on post-its)
- All: 20 min – Wrap-up the results from today’s session

**Risk / Risk Mitigation:**
- Discussions are too tactical
  - Strong facilitators → Stick to strategy

**Purpose / Reason Why & Desired Outcome:**
- Proposal for a feedback process / flow chart
- Differentiation of types of feedback (also includes the source of feedback)

**Owner / Facilitator:**
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd

**Session Parameters / Setup:**
- In person only
- 2 hours
- ~40 people
- 4 sub-groups

**Required Input & Material / Preparation:**
- Feedback collection approach, as done in the review process
- Posters and results from the Saturday session
- A single room with 4 corners to facilitate 4 groups
### Session: V&R Group B

**Stream: Vision & Roadmap**

**Topic:**
- Use roadmap items of Saturday to elaborate on roadmap items to address is each stream

**Method:**

**Agenda: 08:00-10:00**
- All: 10 min – Explain purpose of today’s session (presentation)
- Group B: 20 min – Group gets acquainted with the roadmaps (“Gallery walk”)
- Group B: 30 min – Identify additional/changed topics for the roadmaps (discussions and collection on post-its)
- Group B: 40 min – Evaluate cross-cutting aspects of all roadmaps (discussions and collection on post-its)
- All: 20 min – Wrap-up the results from today’s session

**Risk / Risk Mitigation:**

**Purpose / Reason Why & Desired Outcome:**
- Proposal for additional / change topics
- Overview of interaction of roadmaps

**Session Parameters / Setup:**
- In person only
- 2 hours
- ~40 people
- 4 sub-groups

**Owner / Facilitator:**
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd

**Required Input & Material / Preparation:**
- Posters and results from the Saturday session
- Initial roadmaps per stream
- Posters of roadmaps (SE vision + stream specific)
- A single room with 4 corners to facilitate 4 groups
# Session: V&R Group C

**Stream: Vision & Roadmap**

### Topic:
- Use Grand Challenges items of Saturday to elaborate on projection of the challenges on each stream

### Risk / Risk Mitigation:
- People might be reinventing the wheel
  - Stop discussion when required

### Purpose / Reason Why & Desired Outcome:
- Prioritized list of challenges including recommendations

### Method:

**Agenda: 08:00-10:00**
- All: 10 min – Explain purpose of today’s session (presentation)
- Group C: 30 min – Group gets acquainted with the grand challenges including recommendations (“Gallery walk” through vision)
- Group C: 30 min – Prioritization of grand challenges + reasoning (Post-its on the posters (including reasoning))
- Group C: 30 min – Recommendation what to work on first (Post-its on the posters (including reasoning))
- All: 20 min – Wrap-up the results from today’s session

### Required Input & Material / Preparation:
- Posters and results from the Saturday session
- A single room with 4 corners to facilitate 4 groups

### Session Parameters / Setup:
- In person only
- 2 hours
- ~40 people
- 4 sub-groups

### Owner / Facilitator:
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd
## Session: V&R Group D

**Stream: Vision & Roadmap**

### Topic:
- Use Grand Challenges items of Saturday to elaborate on projection of the challenges on each stream

### Method:

**Agenda: 08:00-10:00**
- All: 10 min – Explain purpose of today’s session (presentation)
- Group D: 30 min – Discuss the gaps collected in the Sat. session + identify missing gaps (post-its)
- Group D: 30 min – Prioritize the gaps identifies and collect the reasoning for the prioritization (prioritization with reasoning)
- Group D: 30 min – To which of the FuSE streams do the prioritized gaps apply (mapping to four FuSE streams)
- All: 20 min – Wrap-up the results from today’s session

### Purpose / Reason Why & Desired Outcome:
- Proposal for high prioritized list of gaps to work on in each stream

### Risk / Risk Mitigation:

### Session Parameters / Setup:
- In person only
- 2 hours
- ~40 people
- 4 sub-groups

### Required Input & Material / Preparation:
- Posters and results from the Saturday session
- A single room with 4 corners to facilitate 4 groups

### Owner / Facilitator:
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd
# Session: Method Group 1

## Stream: Methodology

### Topic:
- Scale
- Interrelatedness

### Method:
- A KJ Process

### Agenda: 08:00-10:00

- All: 20 min – Introduction
- Groups: 70 min – KJ Process (20,000-foot view of a KJ process)
  1. Agree on issue
  2. Write and understand the facts
  3. Group similar facts
  4. Title the groups
  5. Lay out groups and show relations between groups
  6. Vote on most important second-level issues and draw conclusions
- All: 30 min – Report-out

### Risk / Risk Mitigation:
- Participants not knowing the vision and we are "reinventing the wheel"
  - Topics covered through pre-printed post-its
  - Pre-read SE Vision 2023
  - Link from disrupters to source in SE Vision
- Having participants trying to drive the discussion
  - Strong facilitators
  - Parking lot for topics that are not going to be discussed for today
- Not having enough content to cluster
  - Pre-printing post-its
  - Pre-survey on top disrupters

### Purpose / Reason Why & Desired Outcome:
- Diverse categories of disrupters are captured
- Participants have fully exhausted disrupters from their perspectives
- Duplicates are grouped

### Required Input & Material / Preparation:
- A theme statement (key question) for the KJ on this topic
- Survey for pre-read asking for 'top-5' disrupters from each participant
- Trained facilitators (best 3)
- Disrupters that are 'noise factors' are identified
- Disrupters are tagged that are within our ability to change (accept, transfer, mitigate, ... ) - like in project risk management
- Disrupters are prioritized (top 4)

### Session Parameters / Setup:
- In person only
- 2 hours
- ~40 people
- #1 of 4 sub-groups

### Owner / Facilitator:
- Owner: Chris, Tami Katz
# Session: Method Group 2

## Stream: Methodology

### Topic:
- Complexity – Complexity primer (tech product)
- Chaotic – e.g. supply chain disrupters
- Complicated – SE handbook
- Clear - e.g., simple or "just do it" problems & solutions

### Method:
- A KJ Process

### Agenda: 08:00-10:00
- All: 20 min – Introduction
- Groups: 70 min – KJ Process (20,000-foot view of a KJ process)
  1. Agree on issue
  2. Write and understand the facts
  3. Group similar facts
  4. Title the groups
  5. Lay out groups and show relations between groups
  6. Vote on most important second-level issues and draw conclusions
- All: 30 min – Report-out

### Risk / Risk Mitigation:
- Participants not knowing the vision and we are "reinventing the wheel"
  - Topics covered through pre-printed post-its
  - Pre-read SE Vision 2023
  - Link from disrupters to source in SE Vision
- Having participants trying to drive the discussion
  - Strong facilitators
  - Parking lot for topics that are not going to be discussed for today
- Not having enough content to cluster
  - Pre-printing post-its
  - Pre-survey on top disrupters

### Purpose / Reason Why & Desired Outcome:
- Diverse categories of disrupters are captured
- Participants have fully exhausted disrupters from their perspectives
- Duplicates are grouped
- Disrupters that are 'noise factors' are identified
- Disrupters are tagged that are within our ability to change (accept, transfer, mitigate, ...) - like in project risk management
- Disrupters are prioritized (top 4)

### Required Input & Material / Preparation:
- A theme statement (key question) for the KJ on this topic
- Survey for pre-read asking for 'top-5' disrupters from each participant
- Trained facilitators (best 3)
- KJ-kit
- Pre-printed sticky notes from vision
- Fact-sheets

### Session Parameters / Setup:
- In person only
- 2 hours
- ~10 people
- #2 of 4 sub-groups

### Owner / Facilitator:
- Owner: Chris, Jimmie McEver
### Session: Method Group 3

#### Stream: Methodology

**Topic:**
- AI for SE
- Other technologies

**Method:**
- A KJ Process

**Agenda: 08:00-10:00**
- All: 20 min – Introduction
- Groups: 70 min – KJ Process (20,000-foot view of a KJ process)
  1. Agree on issue
  2. Write and understand the facts
  3. Group similar facts
  4. Title the groups
  5. Lay out groups and show relations between groups
  6. Vote on most important second-level issues and draw conclusions
- All: 30 min – Report-out

**Purpose / Reason Why & Desired Outcome:**
- Diverse categories of disrupters are captured
- Participants have fully exhausted disrupters from their perspectives
- Duplicates are grouped
- Disrupters that are 'noise factors' are identified
- Disrupters are tagged that are within our ability to change (accept, transfer, mitigate, ...) - like in project risk management
- Disrupters are prioritized (top 4)

**Risk / Risk Mitigation:**
- Participants not knowing the vision and we are "reinventing the wheel"
  - Topics covered through pre-printed post-its
  - Pre-read SE Vision 2023
  - Link from disrupters to source in SE Vision
- Having participants trying to drive the discussion
  - Strong facilitators
  - Parking lot for topics that are not going to be discussed for today
- Not having enough content to cluster
  - Pre-printing post-its
  - Pre-survey on top disrupters

**Required Input & Material / Preparation:**
- A theme statement (key question) for the KJ on this topic
- Survey for pre-read asking for 'top-5' disrupters from each participant
- Trained facilitators (best 3)
- KJ-kit
- Pre-printed sticky notes from vision
- Fact-sheets

**Session Parameters / Setup:**
- In person only
- 2 hours
- ~40 people
- #3 of 4 sub-groups

**Owner / Facilitator:**
- Owner: Chris, Phyllis Marbach
## Session: Method Group 4

**Stream: Methodology**

**Topic:**
- Participant led (from survey)

**Method:**
- A KJ Process

### Agenda: 08:00-10:00
- All: 20 min – Introduction
- Groups: 70 min – KJ Process (20,000-foot view of a KJ process)
  1. Agree on issue
  2. Write and understand the facts
  3. Group similar facts
  4. Title the groups
  5. Lay out groups and show relations between groups
  6. Vote on most important second-level issues and draw conclusions
- All: 30 min – Report-out

**Risk / Risk Mitigation:**
- Participants not knowing the vision and we are "reinventing the wheel"
  - Topics covered through pre-printed post-its
  - Pre-read SE Vision 2023
  - Link from disrupters to source in SE Vision
- Having participants trying to drive the discussion
  - Strong facilitators
  - Parking lot for topics that are not going to be discussed for today
- Not having enough content to cluster
  - Pre-printing post-its
  - Pre-survey on top disrupters

**Purpose / Reason Why & Desired Outcome:**
- Diverse categories of disrupters are captured
- Participants have fully exhausted disrupters from their perspectives
- Duplicates are grouped
- Disrupters that are 'noise factors' are identified
- Disrupters are tagged that are within our ability to change (accept, transfer, mitigate, ...) - like in project risk management
- Disrupters are prioritized (top 4)

**Required Input & Material / Preparation:**
- A theme statement (key question) for the KJ on this topic
- Survey for pre-read asking for 'top-5' disrupters from each participant
- Trained facilitators (best 3)
- KJ-kit
- Pre-printed sticky notes from vision
- Fact-sheets

**Session Parameters / Setup:**
- 2 hours
- #4 of 4 sub-groups

**Owner / Facilitator:**
- Owner: Chris, Tom McDermott?
# Session: App. Ext. Group 1

## Stream: Application Extensions

### Topic:
- How SE support sustainable cities → via Smart Cities Initiative

### Method:
- e.g., affinity diagrams

### Agenda: 08:00-10:00
- All: 20 min – Impulse smart city initiative (presentation (baseline) - Contribution of SE to smart cities and session on system challenges/ opportunities (part of intro))
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering; list of actions with effectiveness and effort required)
- All: 30 min – Report topics and consolidate

## Risk / Risk Mitigation:
- Shorter time: long impulse of smart city
  - Review impulse presentation
  - Send out pre-read to participants
- Right set of participants (new perspectives, different outreach)
  - Proactively reach out to diverse participants
  - Explicit communication that we anticipate to have a diverse group of participants

## Purpose / Reason Why & Desired Outcome:
- What are the system challenges / opportunities? (will be presented in the impulse)
- What value can SE bring? (will be presented in the impulse)
- List of actions with effectiveness and effort required
- With whom do we need to collaborate?
- Who we need to approach
- What message and channels

## Required Input & Material / Preparation:
- Smart city introduction
- If possible: Smart city publication as pre-read to the team
- Presentation of smart city
- Reach out to possible external participants
- Set of brainstorming questions and templates for brainstorming method
- "Train the trainer"

## Session Parameters / Setup:
- 2 hours
- ~40 people

## Owner / Facilitator:
- Owner: Tom, Jennifer
## Session: App. Ext. Group 2

### Stream: Application Extensions

#### Topic:
- How SE support sustainable cities → via Smart Cities Initiative

#### Method:
- e.g., affinity diagrams

### Agenda: 08:00-10:00

- All: 20 min – Impulse smart city initiative (presentation (baseline) - Contribution of SE to smart cities and session on system challenges/ opportunities (part of intro))
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering; list of actions with effectiveness and effort required)
- All: 30 min – Report topics and consolidate

### Purpose / Reason Why & Desired Outcome:

- What are the system challenges / opportunities? (will be presented in the impulse)
- What value can SE bring? (will be presented in the impulse)
- List of actions with effectiveness and effort required
- With whom do we need to collaborate?
- Who we need to approach
- What message and channels

### Risk / Risk Mitigation:

- Shorter time: long impulse of smart city
  - Review impulse presentation
  - Send out pre-read to participants
- Right set of participants (new perspectives, different outreach)
  - Proactively reach out to diverse participants
  - Explicit communication that we anticipate to have a diverse group of participants

### Required Input & Material / Preparation:

- Smart city introduction
- If possible: Smart city publication as pre-read to the team
- Presentation of smart city
- Reach out to possible external participants
- Set of brainstorming questions and templates for brainstorming method
- "Train the trainer"

### Session Parameters / Setup:

- 2 hours
- ~40 people

### Owner / Facilitator:
- Owner: Tom, Jennifer
### Session: App. Ext. Group 3

**Stream: Application Extensions**

**Topic:**
- Innovation

**Method:**

**Agenda: 08:00-10:00**
- In what ways SE contribute to innovation?
- For what applications is this applicable?
- What keeps us from exploiting this?
- What actions should be taken?

**Risk / Risk Mitigation:**
- Shorter time: long impulse of smart city
  - Review impulse presentation
  - Send out pre-read to participants
- Right set of participants (new perspectives, different outreach)
  - Proactively reach out to diverse participants
  - Explicit communication that we anticipate to have a diverse group of participants

**Purpose / Reason Why & Desired Outcome:**

**Required Input & Material / Preparation:**
- Position paper on SE and Innovation

**Owner / Facilitator:**
- Owner: John Wayde, Tom McDermett

**Session Parameters / Setup:**
# Session: App. Ext. Group 4

**Stream: Application Extensions**

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<th>Topic:</th>
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<th>Required Input &amp; Material / Preparation:</th>
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<tr>
<td>• Position paper on SE and Innovation</td>
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<tr>
<td><strong>Session: FuSE Summary</strong></td>
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<td><strong>Stream: FuSE Overall</strong></td>
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<td><strong>Topic:</strong></td>
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<td><strong>Risk / Risk Mitigation:</strong></td>
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<td><strong>Purpose / Reason Why &amp; Desired Outcome:</strong></td>
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<td>• Summary to introduce in the next morning session</td>
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<td>• One pager for the results of each stream</td>
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<td>• template for stream one pager</td>
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## IW FuSE Sessions

### Monday

<table>
<thead>
<tr>
<th>Time</th>
<th>Vision &amp; Roadmaps</th>
<th>Foundations</th>
<th>Methodology</th>
<th>Application Extensions</th>
<th>Overall / Sync</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Which WG's and external organizations are to be involved in the extra efforts identified</td>
<td></td>
<td>Next: (Q&amp;A): The digital ecosystem for collaboration</td>
<td>Next: (Q&amp;A): SE to improve public spending (joint effort (Physical) Asset Mgmt)</td>
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<td>08:30</td>
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<td>Next: (Q&amp;A): Software as the capability driver</td>
<td>Next: (Q&amp;A): SE to improve public spending (joint effort (Physical) Asset Mgmt)</td>
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<td>09:00</td>
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<td>Next: (Q&amp;A): Continuous iterative model development</td>
<td>Next: (Q&amp;A): SE to improve public spending (joint effort (Physical) Asset Mgmt)</td>
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<td>09:30</td>
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<td>Integrate soft-systems, social systems, other initiatives for Grand Challenges</td>
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Next: (Q&A): The digital ecosystem for collaboration

Next: (Q&A): Software as the capability driver

Next: (Q&A): Continuous iterative model development

Next: (Q&A): SE to improve public spending (joint effort (Physical) Asset Mgmt)

Integrate soft-systems, social systems, other initiatives for Grand Challenges

Summary
## Session: V&R Group A

### Stream: Vision & Roadmap

#### Topic:
- Which WG’s and external organizations are to be involved in the extra efforts identified

#### Method:

#### Agenda: 08:00-10:00
- All: 10 min – Explain purpose of today’s session (presentation (baseline))
- Group A: 20 min – The team goes through all information in the room, generated on Sat & Sun
- Group A: 50 min – Identify WGs that can contribute to specific actions + define needed input / result / benefit for the WG (mapping to INCOSE WGs with post-its)
- Group A: 30 min – Identify which non-INCOSE organization should contribute to specific efforts + define input / results expected / PoC (mapping to external organizations with post-its)
- All: 10 min – Wrap-up the results from today’s session

#### Purpose / Reason Why & Desired Outcome:
- Identify INCOSE Working Groups (WG) to involve in specific activities
- Identify non-INCOSE organizations/people to involve in the effort or specific activities
- Overview of WGs involved: Related to activity, input to be provided, output generated, benefit for the WG
- Overview of external organizations involved: Related to activity, input to be provided, output generated, point of contact at organization

#### Risk / Risk Mitigation:
- Allocation of WG & Organization is not activity specific
  - Strong facilitators → Stick to strategy
- Allocation of WG might be perceived as a top-down approach
  - Over communicate that this is not a top-down allocation but an identification
- Working groups might not be interacting with the FuSE group as we anticipate it
  - State benefit for working group
  - Get knowledge on the WGs perspective
  - Communicate that identified groups and organizations is no closed list

#### Required Input & Material / Preparation:
- Results from the previous IW sessions
- Overview of all INCOSE WGs
- Results from the previous IW sessions
- Post-its

#### Session Parameters / Setup:
- In person only
- 2 hours
- ~20 people
- 2 sub-groups

#### Owner / Facilitator:
- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd
## Session: V&R Group B

### Stream: Vision & Roadmap

#### Topic:
- Which WG’s and external organizations are to be involved in the extra efforts identified

#### Method:

**Agenda: 08:00-10:00**

- All: 10 min – Explain purpose of today’s session (presentation (baseline))
- Group A: 20 min – The team goes through all information in the room, generated on Sat & Sun
- Group A: 50 min – Identify WGs that can contribute to specific actions + define needed input / result / benefit for the WG (mapping to INCOSE WGs with post-its)
- Group A: 30 min – Identify which non-INCOSE organization should contribute to specific efforts + define input / results expected / PoC (mapping to external organizations with post-its)
- All: 10 min – Wrap-up the results from today’s session

#### Purpose / Reason Why & Desired Outcome:

- Identify INCOSE Working Groups (WG) to involve in specific activities
- Identify non-INCOSE organizations/people to involve in the effort or specific activities
- Overview of WGs involved: Related to activity, input to be provided, output generated, benefit for the WG
- Overview of external organizations involved: Related to activity, input to be provided, output generated, point of contact at organization

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- Allocation of WG & Organization is not activity specific
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- Allocation of WG might be perceived as a top-down approach
  - Over communicate that this is not a top-down allocation but an identification
- Working groups might not be interacting with the FuSE group as we anticipate it
  - State benefit for working group
  - Get knowledge on the WGs perspective
  - Communicate that identified groups and organizations is no closed list

#### Required Input & Material / Preparation:

- Results from the previous IW sessions
- Overview of all INCOSE WGs

#### Session Parameters / Setup:

- In person only
- 2 hours
- ~20 people
- 2 sub-groups

#### Owner / Facilitator:

- Owner: Paul
- Facilitator: David Endler, Sandy Friedenthal, Tony Williams, rest tbd
**Session: Method Group A**

**Stream: Methodology**

**Topic:**
- The digital ecosystem for collaboration
- Topics might shift depending on outcome of prior day

**Method:**
- A Concept Engineering Process

**Agenda: 08:00-10:00**
- All: 10 min – Introduction
- Group A: 20 min – Problem definition
- Group A: 25 min – Prio & selection
- Group A: 45 min – Concept generation
- All: 20 min – Debrief

**Risk / Risk Mitigation:**
- Too little time to work on the outcomes
  - Strong moderation / brief introduction
  - Generate awareness about the process and that this is a first iteration (expectation setting)
- Group not operating on right level of abstraction (possibly way too specific)
  - Strong moderation / facilitation

**Purpose / Reason Why & Desired Outcome:**
- Define boundary for problem definition - problem definition framework
- WHAT, HOW, WHO, etc. are documented for each disrupter (use template) (Problem Definition (Kano + KJ + Socratic Summary of the prioritized disrupter))
- Multiple solution concepts identified for each disrupter (Concept Generation)
- Solutions are prioritized (top 4) (Pugh Concept Selection)
- New change requests to other stakeholders are identified (Solution 'work' Allocation)
- Definition framework for disrupter definition, context of the problem

**Required Input & Material / Preparation:**
- Work from day before
- Framework for bounding the solution (grid of Org. structure, process, tools, data, training) vs. xyz.
- "Disrupter" confinement
- Same materials as prior days

**Session Parameters / Setup:**

**Owner / Facilitator:**
- Owner: Chris

**Risk / Risk Mitigation:**
- Too little time to work on the outcomes
  - Strong moderation / brief introduction
  - Generate awareness about the process and that this is a first iteration (expectation setting)
- Group not operating on right level of abstraction (possibly way too specific)
  - Strong moderation / facilitation
Session: Method Group B

Stream: Methodology

Topic:
• Software as the capability driver
• Topics might shift depending on outcome of prior day

Method:
• A Concept Engineering Process

Agenda: 08:00-10:00
• All: 10 min – Introduction
• Group A: 20 min – Problem definition
• Group A: 25 min – Prio & selection
• Group A: 45 min – Concept generation
• All: 20 min – Debrief

Purpose / Reason Why & Desired Outcome:
• Define boundary for problem definition - problem definition framework
• WHAT, HOW, WHO, etc. are documented for each disrupter (use template) (Problem Definition (Kano + KJ + Socratic Summary of the prioritized disrupter))
• Multiple solution concepts identified for each disrupter (Concept Generation)
• Solutions are prioritized (top 4) (Pugh Concept Selection)
• New change requests to other stakeholders are identified (Solution ‘work’ Allocation)

Risk / Risk Mitigation:
• Too little participants / experts on this topic
  o Redirection exercise from "what we have to do” to “what we have to learn”
  o Generate a weakness affinity diagram
• Participants focus on continuous/ agile approaches → Overlap with other session
  o Good introduction of all 4 topics → Introduce parking lot for overlapping topics

Required Input & Material / Preparation:
• Work from day before
• Same materials as prior days
• Parking lot with the other topics discussed in this session

Owner / Facilitator:
• Owner: Chris and e.g. Tom

Session Parameters / Setup:
• Risk / Risk Mitigation:
  o Too little participants / experts on this topic
    • Redirection exercise from "what we have to do” to “what we have to learn”
    • Generate a weakness affinity diagram
  o Participants focus on continuous/ agile approaches → Overlap with other session
    • Good introduction of all 4 topics → Introduce parking lot for overlapping topics
# Session: Method Group C

**Stream: Methodology**

**Topic:**
- Continuous iterative model development
- Topics might shift depending on outcome of prior day

**Method:**
- A Concept Engineering Process

**Agenda: 08:00-10:00**
- All: 10 min – Introduction
- Group A: 20 min – Problem definition
- Group A: 25 min – Prio & selection
- Group A: 45 min – Concept generation
- All: 20 min – Debrief

**Risk / Risk Mitigation:**
- Too little participants / experts on this topic
  - Redirection exercise from "what we have to do" to "what we have to learn"
  - Generate a weakness affinity diagram

**Purpose / Reason Why & Desired Outcome:**
- Other domains and how they have addressed this in the past
- Product ideas

**Required Input & Material / Preparation:**
- Work from day before
- Existing publications?
- Same materials as prior days
- Disrupter definition has provocative scenarios to spark conversation

**Owner / Facilitator:**
- Owner: Chris, Rick Dove / Keith Woulett (Agile framework)

**Session Parameters / Setup:**
Session: Method Group D

Stream: Methodology

Topic:
- Academic focus
- Managing evolution in learning systems
- Topics might shift depending on outcome of prior day
- Do we have some names, that we could see in this group, to shape the session, and because people by name could help clarify the content

Risk / Risk Mitigation:
- Topic / what is behind the topic is not mature enough
  - Use this session as a wild card from previous day
  - Proactively include people who drive conversation

Method:
- A Concept Engineering Process

Agenda: 08:00-10:00
- All: 10 min – Introduction
- Group A: 20 min – Problem definition
- Group A: 25 min – Prio & selection
- Group A: 45 min – Concept generation
- All: 20 min – Debrief

Purpose / Reason Why & Desired Outcome:

Required Input & Material / Preparation:
- Work from day before
- Same materials as prior days

Session Parameters / Setup:

Owner / Facilitator:
- Owner: Chris
**Session: App. Ext. Group 1**

**Stream: Application Extensions**

**Topic:**
- SE to improve public spending (joint effort (Physical) Asset Mgmt)

**Method:**

**Agenda: 08:00-10:00**
- All: 20 min – Impulse SE impact on Asset management (presentation (baseline))
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering)
- All: 30 min – Report topics and consolidate

**Risk / Risk Mitigation:**
- Preparation not ready in time for IW
  - Approach Marcel and Anna & ISO guy asap
  - Reach out to infrastructure working group
- Not enough people involved (participants & facilitators) as there is no initiative so far
  - Proactively reach out to contacts

**Purpose / Reason Why & Desired Outcome:**
- Approach to merge asset management & systems engineering (55000 + 15288 standard)
- What are the system challenges/ opportunities? (will be presented in the impulse)
- List of actions with effectiveness and effort

**Required Input & Material / Preparation:**
- 55000 + 15288 standard
- Existing attempts to merge standards
- Impulse presentation

**Owner / Facilitator:**
- Marcel (not present in the IW), Anne O'Neill, former director of ISO Standard

**Session Parameters / Setup:**
- 2 hours

**Risk / Risk Mitigation:**
- Preparation not ready in time for IW
  - Approach Marcel and Anna & ISO guy asap
  - Reach out to infrastructure working group
- Not enough people involved (participants & facilitators) as there is no initiative so far
  - Proactively reach out to contacts

**Purpose / Reason Why & Desired Outcome:**
- Approach to merge asset management & systems engineering (55000 + 15288 standard)
- What are the system challenges/ opportunities? (will be presented in the impulse)
- List of actions with effectiveness and effort

**Required Input & Material / Preparation:**
- 55000 + 15288 standard
- Existing attempts to merge standards
- Impulse presentation

**Session Parameters / Setup:**
- 2 hours

**Owner / Facilitator:**
- Marcel (not present in the IW), Anne O'Neill, former director of ISO Standard
### Session: App. Ext. Group 2

**Stream:** Application Extensions

**Topic:**
- SE to improve public spending (joint effort (Physical) Asset Mgmt)

**Method:**

**Agenda: 08:00-10:00**
- All: 20 min – Impulse SE impact on Asset management (presentation (baseline))
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering)
- All: 30 min – Report topics and consolidate

**Risk / Risk Mitigation:**
- Preparation not ready in time for IW
  - Approach Marcel and Anna & ISO guy asap
  - Reach out to infrastructure working group
- Not enough people involved (participants & facilitators) as there is no initiative so far
  - Proactively reach out to contacts

**Purpose / Reason Why & Desired Outcome:**
- Approach to merge asset management & systems engineering (55000 + 15288 standard)
- What are the system challenges/ opportunities? (will be presented in the impulse)
- List of actions with effectiveness and effort
- What value can SE bring?
- With whom do we need to collaborate?
- Who we need to approach
- What message and channels

**Required Input & Material / Preparation:**
- 55000 + 15288 standard
- Existing attempts to merge standards
- Impulse presentation

**Session Parameters / Setup:**
- 2 hours

**Owner / Facilitator:**
- Marcel (not present in the IW), Anne O'Neill, former director of ISO Standard

**Required Input & Material / Preparation:**
- Position paper
Session: App. Ext. Group 3

Stream: Application Extensions

Topic:
- Integrate soft-systems, social systems, other initiatives for Grand Challenges

Risk / Risk Mitigation:
- Right people in the working session to have the right capabilities
  - Proactively reach out to possible participants

Method:

Agenda: 08:00-10:00
- All: 20 min – Impulse / Cases from Social Science WG (presentation (baseline))
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering)
- All: 30 min – Report topics and consolidate

Purpose / Reason Why & Desired Outcome:
- What are the system challenges/ opportunities? (will be presented in the impulse)
- List of actions with effectiveness and effort required
- What value can SE bring?
- With whom do we need to collaborate?
- Who we need to approach
- What message and channels

Required Input & Material / Preparation:
- Impulse presentation
- UN publication

Session Parameters / Setup:
- 2 hours

Owner / Facilitator:
- e.g. Erica Palmer, Heinz, Allen Harding, Moe Mosuri, John Wayde, Cecilia
Stream: Application Extensions

Session: App. Ext. Group 4

Topic:
- Integrate soft-systems, social systems, other initiatives for Grand Challenges

Method:

Agenda: 08:00-10:00
- All: 20 min – Impulse / Cases from Social Science WG (presentation (baseline)
- All: 10 min - Feedback on challenges and opportunities and value (feedback on post-its)
- 2 Groups: 60 min – Session on who to approach, what message, what challenges, which action to take (brainstorm, clustering)
- All: 30 min – Report topics and consolidate

Risk / Risk Mitigation:
- Right people in the working session to have the right capabilities
  - Proactively reach out to possible participants

Purpose / Reason Why & Desired Outcome:
- What are the system challenges/ opportunities? (will be presented in the impulse)
- List of actions with effectiveness and effort required
- What value can SE bring?
- With whom do we need to collaborate?
- Who we need to approach
- What message and channels

Session Parameters / Setup:
- 2 hours

Owner / Facilitator:
- e.g. Erica Palmer, Heinz, Allen Harding, Moe Mosuri, John Wayde, Cecilia

Required Input & Material / Preparation:
- Impulse presentation
- UN publication
## Session: FuSE Summary

### Stream: FuSE Overall

#### Topic:

#### Method:

#### Agenda: 13:00-14:30
- Agree on final agenda for the next days wrap-up sessions
- Stream leads prepare their results
- Identify topics for stream webinars
- Review stream preparations
- Next steps

### Risk / Risk Mitigation:

### Purpose / Reason Why & Desired Outcome:
- Summary of working sessions for in-person wrap-up (90min) → 10 min recap for each stream, including preparation
- Key takeaway (prioritization for topics) for the INCOSE community as answer to the plenary kick-off sessions
- Summary of working sessions + storyline for plenary wrap-up (30min), including presentation
- Concept: How to involve/engage people after IW
- Summary for social media
- How to include the worked-on topics in the FuSE Roadmap
- Identify topics for webinar stream sessions

### Required Input & Material / Preparation:
- A template for Tuesday's presentations. For each stream:
  - What was done?
  - Who was involved?
  - What is happening next (and when)?
- How and where will INCOSE members engage going forward
- "Bookend" this content tied back to opening plenary content
- Modified picture to paint in the plenary wrap up

### Session Parameters / Setup:
- 13:00 - 14:30
- If we are not done with material for Tuesday, continue after break

### Owner / Facilitator:
Detailed working session description - Tuesday
# IW FuSE Sessions

**Tuesday**

<table>
<thead>
<tr>
<th>Time</th>
<th>Vision &amp; Roadmaps</th>
<th>Foundations</th>
<th>Methodology</th>
<th>Application Extensions</th>
<th>Overall / Sync</th>
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<tbody>
<tr>
<td>08:00</td>
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<td>Team Wrap-up</td>
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<td>Wrap-up</td>
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</tbody>
</table>
Stream: FuSE Overall

Topic:
• Plan for ongoing communication

Method:

Agenda: 08:00-09:30
• 10 min – Intro (Bill)
• 10 min – Stream A
• 10 min – Stream B
• 10 min – Stream C
• 10 min – Stream D
• 30 min – Comments from participants throughout OR at end?
• 10 min – Close (Ralf?)

Risk / Risk Mitigation:

Purpose / Reason Why & Desired Outcome:
• Keep core team engaged and motivated
• "Opt-in" participants had a chance to share their perspectives
• "Opt-in" participants have tangibly joined FuSE Yammer Community

Owner / Facilitator:
• Bill
• Paul
• Tom
• Ralf?
• Chris
• Oli

Required Input & Material / Preparation:
• Stream templates
• Intro / close / contact

Session Parameters / Setup:
• (currently) 9:00-10:00
• In-Person Session
• Open to people that are interested to be involved
# Session: FuSE Plenary Wrap-up

## Stream: FuSE Overall

<table>
<thead>
<tr>
<th>Topic:</th>
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</thead>
</table>

## Purpose / Reason Why & Desired Outcome:
- To share a summary of progress from FuSE at IW2023 (to those that were NOT in those sessions, either by choice or because of them being virtual)
- To build momentum for FuSE throughout 2023
- For participants to understand and appreciate the challenges we face as a discipline
- For participants to be energized for and with the FuSE effort
- For participants to ‘opt-in’ as engaged contributors to FuSE efforts

## Method:

**Agenda: 11:00-11:30**
- 10 min – Big Picture
- 10 min – Key challenges as in SE Vision + prioritized topics
  - Visualization in a puzzle: This is what we have done in the IW → This is where we are going revisited/ revised/ evolved → Use an existing visualization of the SE Vision (path forward)
- 10 min – How to get involved → Next puzzle pieces

## Risk / Risk Mitigation:

## Required Input & Material / Preparation:
- Up for discussion, if these is are the right questions. Survey (use Zoom): Maturity of Systems Engineering - individual assessment → Community (0=alchemy --> 9=chemistry) revision at the end of the IW → Baseline was at kick-off
- Contact

## Owner / Facilitator:
- Bill

## Session Parameters / Setup:
- Hybrid
- 11:00-11:30
- ~300 people

## Risk / Risk Mitigation:
Beyond IW.

- Proposal on submissions for EMEA WSEC
- Additional online sessions until EMEA WSEC
Proposal on submissions for EMEA WSEC.
# EMEA WSEC Call for Submission

**Key Dates**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Full Papers</td>
<td>January 10, 2023</td>
</tr>
<tr>
<td>Paperless Presentations</td>
<td>January 10, 2023</td>
</tr>
<tr>
<td>Acceptance Notification (Paper/Panel/Tutorial/Paperless Presentation)</td>
<td>End of January, 2023</td>
</tr>
<tr>
<td>Acceptance Notification (Workshops)</td>
<td>End of March, 2023</td>
</tr>
</tbody>
</table>

**Deadline for Submission of Workshop:** 28.02.2022

Status: 6 DEC 22
FuSE @ EMEA WSEC

Proposed Participation

**Proposed Agenda**

1. Keynote Ralf on FuSE
2. Panel 85min fixed (deadline JAN 10)
3. Workshop (4x2 hours WS) (deadline FEB 28)
4. Stream leads to get engaged, be approachable

**Next Steps:**

Meeting with Anabel to share FuSE idea and ask for feasibility
How hybrid is EMEA WSEC?
Proposal on submissions for IS.
# IS 2023 Call for Submission

**Status:** 6 DEC 22

<table>
<thead>
<tr>
<th>Key Dates</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Submissions Due</td>
<td>December 14, 2022</td>
</tr>
<tr>
<td>Notification of Acceptance</td>
<td>February 20, 2023</td>
</tr>
<tr>
<td>Authors Acceptance to Present</td>
<td>March 31, 2023</td>
</tr>
<tr>
<td>Final Submission Due</td>
<td>April 30, 2023</td>
</tr>
</tbody>
</table>

**Deadline for Submission of Ancillary Event:** 31.12.2022
Proposed Participation: Ancillary Event

### Proposed Agenda
- Total: 4h FuSE Workshop
  - 1h intro (1 big room)
  - 2h stream breakup (big room + 3 smaller rooms)
  - 1h recap (1 big room)

### Additional Info
- Ancillary Event (deadline Dec 31)
- What to achieve:
  - 6 months momentum check point,
  - IS is external audience
  - see if we are on track to meet 2025 goals,
  - share what we have done so far, get input on what we still must do
- Proposal to submit for Saturday / Sunday

### Next Steps:
Bill to submit for the event:
Hint in the submission that working sessions are based off prior engagements.
Additional online sessions until EMEA WSEC.
What online session can FuSE offer until EMEA WSEC

<table>
<thead>
<tr>
<th>IDEAS</th>
<th>KEY CHARACTERISTICS</th>
<th>NEXT STEPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• IW was in-person, what is an IW-like, but virtual optimized experience?</td>
<td>• Online</td>
<td>• Socialize with INCOSE Events Team to share planned WS series → Get scheduling right with events team (time e.g., 17:00)</td>
</tr>
<tr>
<td>• Webinar: What happened at IW?</td>
<td>• Webinars to be promoted 3 weeks in advance</td>
<td>• Submit events (and ask for promotional support from marketing)</td>
</tr>
<tr>
<td>• Webinar: What to expect at EMEA / IS / OASEC?</td>
<td>• Possible Objectives:</td>
<td>• LINK: <a href="https://app.smartsheet.com/b/form/8755a0e866854485b7fbb8b9ec9aa02c">https://app.smartsheet.com/b/form/8755a0e866854485b7fbb8b9ec9aa02c</a></td>
</tr>
<tr>
<td>• Cross stream session to synchronize / align new team members</td>
<td>• 1: Inform &amp; get feedback on IW</td>
<td>• Provide content for information session (CW 8)</td>
</tr>
<tr>
<td>• FuSE webinar series (scheduled with INCOSE events team)</td>
<td>• 2: Similar experience than IW</td>
<td>• Identify content for stream sessions (CW 9-12) in IW</td>
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</tbody>
</table>

Option 1: Participate to hear and give feedback
Option 2: Actively work → Pre-read required
- Active setup / Foster engagement
- Prerequisite to participate e.g., information meeting (rather not suitable)

Socialize with INCOSE Events Team to share planned WS series → Get scheduling right with events team (time e.g., 17:00)
Submit events (and ask for promotional support from marketing)
LINK: https://app.smartsheet.com/b/form/8755a0e866854485b7fbb8b9ec9aa02c
Provide content for information session (CW 8)
Identify content for stream sessions (CW 9-12) in IW
Other formats to place FuSE online sessions:
- INCOSE cafés

Possible Schedule:

<table>
<thead>
<tr>
<th>WS Cascade Weekly Sessions</th>
<th>CW 8</th>
<th>CW 9</th>
<th>CW 10</th>
<th>CW 11</th>
<th>CW 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information FuSE Overall (2h)</td>
<td>Stream 1 (2h) Working Session</td>
<td>Stream 2 (2h) Working Session</td>
<td>Stream 3 (2h) Working Session</td>
<td>Stream 4 (2h) Working Session</td>
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<tr>
<td>Content: wrap up session</td>
<td>Topic: To be identified at IW</td>
<td>Topic: To be identified at IW</td>
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<td>Topic: To be identified at IW</td>
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</tr>
</tbody>
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Let’s connect

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