

ISES-Europe 2019 (<http://ises-europe.org/events/ises-europe-2019>) Instructions for Session Chairs, Co-Chairs, and Rapporteurs

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1. ISES-Europe 2019 workshop objectives and expected outcome

Workshop aim and objectives: The ISES-Europe 2019 workshop aims at progressing toward a European Exposure Science Strategy by defining a roadmap 2020-2030. The workshop has three overarching goals:

- To advance with the second and final phase of a European Exposure Science Strategy by defining a roadmap 2020-2030
- To discuss progress in the Working Groups with their own goals/agenda for specific exposure themes
- To have an agreed thematic action plan for improving exposure science in Europe
- To embed foresight and trend assessment within ISES Europe's operation

Workshop themes and sessions:

On **Day 1**, sessions are organized along a Roadmap for Exposure Science in Europe. Related thematic breakout sessions with moderators are:

- (1) **Exposure Data Production & Monitoring** (moderator: [Natalie von Goetz](#), FOPH, Switzerland)
- (2) **Exposure Assessment Methods & Tools** (moderator: [Peter Fantke](#), DTU, USEtox, Denmark)
- (3) **Data Repositories & Analytics** (moderator: [Jos Bessems](#), VITO, Belgium)
- (4) **Regulatory Exposure Assessment Science** (moderator: [Maryam Zare Jeddi](#), EFSA, Italy)

On **Day 2**, sessions are organized along working groups and setting the European policy and research agenda. Related thematic breakout sessions with moderators are:

- (1) Working group **Exposure Data Production: Human Data** (moderator: [Maryam Zare Jeddi](#), EFSA, Italy)
- (2) Working group **Exposure Models** (moderator: [Urs Schlüter](#), BAuA, Germany)
- (3) Working group **Data Repositories** (moderator: [Jos Bessems](#), VITO, Belgium)
- (4) Working group **Integrated Frameworks and Efficiency Enhancement Across Policies** (moderator: to be confirmed)
- (5) **Strategy Implementation and Institutionalization** (moderator: [Yuri Bruinen de Bruin](#), EC JRC, Italy)

(6) European Policy and Research Priorities (moderator: to be confirmed)

Expected workshop outcome: The identification of specific aligned activities for each thematic area in support of advancing a European Exposure Science Strategy. The workshop outcome should be structured along the templates presented as ‘Appendix II – workshop outcome format’ at the end of the present document.

2. Breakout sessions – organization and preparation

Session organization: Each of the breakout sessions listed above has an organization committee consisting of a chair, co-chair, rapporteur, and moderator. The roles of the organization committee are as follows:

Chair: Coordinates and prepares together with the co-chair and moderator the session contributions and discussions; leads and moderates the discussions in the session, ensures that the discussion is targeted to support the development of the exposure science strategy, reports back the session findings to the plenary, supports writing of white paper.

Co-chair: Supports the coordination activities of the chair on the session contributions and discussion; reports back or supports the reporting back of the session findings to the plenary, supports writing of white paper.

Rapporteur: Takes notes and coordinates with chair, co-chair and moderator the session output to be presented at the end of each day; provides white paper input prepared together with the moderator.

Moderator: Instructs the chair/co-chair/rapporteur about the expected contribution of the session to the strategy and the format in which the outcome should be presented to be useful for further development of the exposure science strategy; ensures overall alignment between session and workshop focus; moderators are the main contact for session-related questions. The moderator also supports the contribution for the white paper prepared in collaboration with the rapporteur.

Session preparation: For each session, the ISES Europe board has formulated a set of initial questions based on results from the stakeholder priorities consultation. The initial questions for each session are presented as ‘Appendix I – initial session questions’ at the end of the present document. These initial questions form the starting point for a discussion of priorities and possible ways to move toward a European Exposure Science Strategy during the workshop.

3. Breakout sessions – structure and implementation during the workshop

Session structure: Each breakout session is organized as follows:

Day 1 – **Science to Strategy** sessions (11:15 – 12:55):

Invited speakers:

Abstract 1: 20 min (Invited lecture)

Abstract 2: 20 min

Abstract 3: 20 min

Abstract 4: 20 min

Wrap up of the section: 20 min on refinements of currently defined needs as part of the strategic cycle

Day 1 – **Action Plan** sessions (13:55 – 15:55):

Outcomes Need Assessment workshop 2018: 10 min
Translation of 2018 and morning sessions needs/trends into actions and projects/tasks: 40 min
Prioritization of actions (e.g. working group formation) and projects/tasks & timelines): 30 min
Assessing timelines until 2030 for actions and projects/tasks: 20 min
Wrap up presenting draft action plan and roadmap: 20 min

Day 2 – **Working Groups Action Plan** sessions (10:30 – 12:00):

Invited speakers:

Abstract 1: 15 min

Abstract 2: 15 min

Translation needs/trends of working group topic into Action Plan/Roadmap 2020-2030
(prioritization actions and projects/tasks - and timelines): 50 min

Wrap up presenting draft action plan and roadmap: 10 min

Day 2 – Session on **Strategy Implementation and Institutionalization** (12:00 – 13:00):

Provision of recommendations and stakeholder guidance

Day 2 – Session on **European Policy and Research Priorities and the role of ISES Europe** (12:00 – 13:00):

DG JRC research priorities for the next Commission

Foresight and trend assessment

Exposure Platform as a tool to set the European policy and research agenda

Assessment of the role of ISES Europe within the policy and research context

Session implementation: The moderators will introduce each session; then the chair and co-chair guide the process of framing of questions and reach agreement on the final set of questions to be discussed in-depth during the “discussion” part. The chair and co-chair will provide input to the rapporteur for the preparation of the summary presentations, which will be presented by the chair/co-chair, at the end of each day.

4. Breakout sessions – follow-up after the workshop

The workshop output will be used to compile a European Exposure Science Strategy dedicated special issue that will be used as basis for a communication paper/editorial to set the stage for a European exposure science roadmap 2020-2030. It is expected that Working Groups will be established during and after the Workshop each dealing with the respective implementation activities of the key goals, needs and building blocks. Related to the workshop outcomes, future agendas will need to be assessed specifically for each working group. It is expected that the Working Groups will deliver their own strategic paper comprising the state of the art, needs, building blocks and guidance/recommendations. All papers will be part of the special issue foreseen to be published in a special issue of the Journal of Exposure Science and Environmental Epidemiology.

Appendix I – initial session questions

Based on the stakeholder consultation priorities, a set of initial session questions was built. The initial questions for each session are presented in the following table.

<p><u>Data Repositories & Analytics</u></p> <ol style="list-style-type: none">1. How could a good designed data repository best feed the policy-making process and facilitate selection and prioritization of upcoming exposure fields/questions related to science and policy?2. What would be the basic requirements to store and connect different exposure data in order to best analyse the impact on human and environmental wellbeing and to best inform stakeholders involved being decision-makers, practitioners, researchers and citizens?3. What is the current and future role of data storage and analytics in improving wellbeing at population, individual and ecosystem level?4. What is the role of text mining, artificial intelligence and deep learning within the development of future-proof data repositories?5. How can exposure data repositories and analytics best facilitate the completion of the exposure spectrum?6. What information is needed to have a complete understanding of exposure (exposure spectrum)?7. What are the threats/risks of data repositories and analytics and which safety/security measures should be respected?8. How can efforts on data repositories and analytics be funded?
<p><u>Regulatory Exposure Assessment Science</u></p> <ol style="list-style-type: none">1. What is the current status of the EU regulation and what does it address in terms of exposure information?2. How can we integrate a holistic view of exposure into regulation and who are the main actors and responsibilities?3. What can be done to reach an efficiency enhancement across different policies?4. Can the current European regulation contribute to the completion of the exposure spectrum?5. How can European regulation address data ownership/protection?6. How can efforts on regulatory exposure science be funded?
<p><u>Exposure Data Production & Monitoring</u></p> <ol style="list-style-type: none">1. Which exposure data are needed to cover the exposure spectrum and connect it to human and ecological improvement of wellbeing, costs and what are the key indicators when it is successful?2. What is the role of ISES-Europe in the completion of the exposure spectrum for exposure data production and monitoring?3. How can we make best-use of existing and novel monitoring technologies/networks?4. How can efforts on exposure data production and monitoring be funded?
<p><u>Exposure Assessment Methods & Tools</u></p> <ol style="list-style-type: none">1. What are the requirements in terms of methods and tools to facilitate the completion of the exposure spectrum in Europe?2. What can upcoming tools such as text mining, artificial intelligence and deep learning mean for the future of exposure science? What are the challenges?3. What are the requirements for exposure assessment methods and tool in order to be implemented by actors working in decision-making and health care?4. How can existing and new exposure assessment methods and tools best be linked to existing and emerging data generation efforts?

5. What exposure science methods and tools are needed in Europe to work toward related targets of the UN Sustainable Development Goals?
6. What methods/tools focus on or can be linked to biodiversity?
7. How can efforts on exposure assessment methods and tools be funded?

Exposure Science Education, Training & Communication

1. How can we define/understand exposure science in European education?
2. What are the skills needed to strengthen exposure science education and training in Europe?
3. How can we develop a European exposure science curriculum?
4. What is the role of ISES-Europe as exposure science education/training facilitator?
5. How can exposure science education help to build relationships/acceptance with academia/authorities/other societies/industry?
6. How can exposure communication facilitate the use of exposure information/spectrum in improved and cost saving health care?
7. How can efforts on exposure science education, training and communication be funded?

Appendix II – workshop outcome format

At the end of each session, we would like to get input to the following tables about strengths weaknesses, opportunities and threats (SWOT), key goals and needs, building blocks, and inspiration questions/examples for each session.

DAY 1 – Key questions, needs, and current challenges for European exposure science – Session outcome table:

Theme	Actions and Key goals	Prioritization	Timeline	Stakeholders
1. Data repositories and analytics				
2. Regulatory exposure assessment sciences				
3. Building partnerships and collaboration				
4. Exposure data production and monitoring				
5. Exposure science methods and tools				
6. Exposure science education, training and communication				

DAY 2 – Building blocks, solutions and ways forward to address needs and challenges for European exposure science – Session outcome table:

Theme	Key building blocks, key actions and timelines	Inspiration, examples, further opportunities within this theme
1. Working group Exposure Data Production: Human Data (moderator: Maryam Zare Jeddi, EFSA, Italy)		
2. Working group Exposure Models (moderator: Urs Schlüter, BAuA, Germany)		
3. Working group Data Repositories (moderator: Jos Bessems, VITO, Belgium)		
4. Working group Integrated Frameworks and Efficiency Enhancement Across Policies (moderator: to be confirmed)		
5. WG on Exposure science education,		



Theme	Key building blocks, key actions and timelines	Inspiration, examples, further opportunities within this theme
training and communication		
6. Session on Strategy Implementation and Institutionalization (moderator: Yuri Bruinen de Bruin, EC JRC, Italy)		
7.		
Session on European Policy and Research Priorities (moderator: to be confirmed)		