



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

18th GNSSN Steering Committee Meeting, July 2022

Regional and Thematic networks achievements and planned activities for 2022 and beyond

TSO Forum (TSOF)

28 & 29th July 2022

Michel Van haesendonck (Bel V), TSOF chair

Carla Eibl-Schwaeger (GRS), TSOF Vice-chair

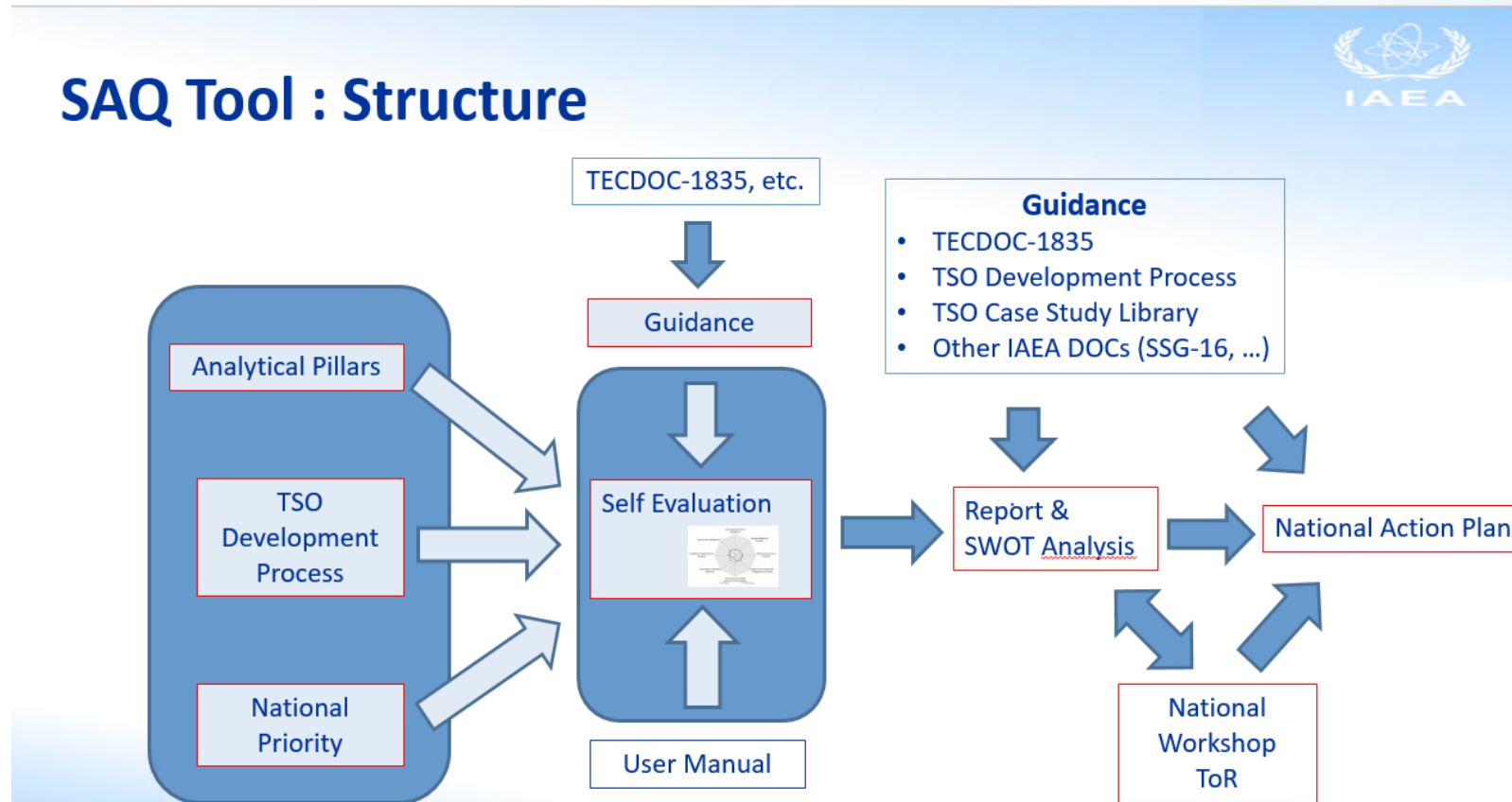
Conducted/hosted/planned technical activities or events in 2021-2022 and beyond



- TSO Forum Steering Committee Meetings (Virtually)
 - March 2021
 - Planned for end of March but postponed
- IAEA TSO Conference in St. Petersburg (Oct. 2022)
 - TSOF Programme Committee Meetings virtually in 2021
 - Other necessary meetings were put on hold
 - IAEA TSO Conference likely to be postponed
- EUCAS SC meetings
 - August 11 & 12th 2022
 - TSOF and TOSCA presentation
- Consultancy Meetings for the development of the TSO Self Assessment Tool (TOSCA)
 - Several 2021 (virtually) to finalize the TOSCA handbook, work on the Guidance and the technical pillars (#5 radiation protection) and the database
 - Early July 2022

TSOF Activities

- Further Development of the Self-Assessment-Tool for the technical and scientific capabilities supporting Regulatory Functions (TOSCA)



TSOF Activities (TOSCA - cont.)

- Further Development of the Self-Assessment-Tool for the technical and scientific capabilities supporting Regulatory Functions (TOSCA)

TOSCA

IAEA Methodology for Technical and Scientific Organisations and Organisational Units (TSOs) Self Capability Assessment

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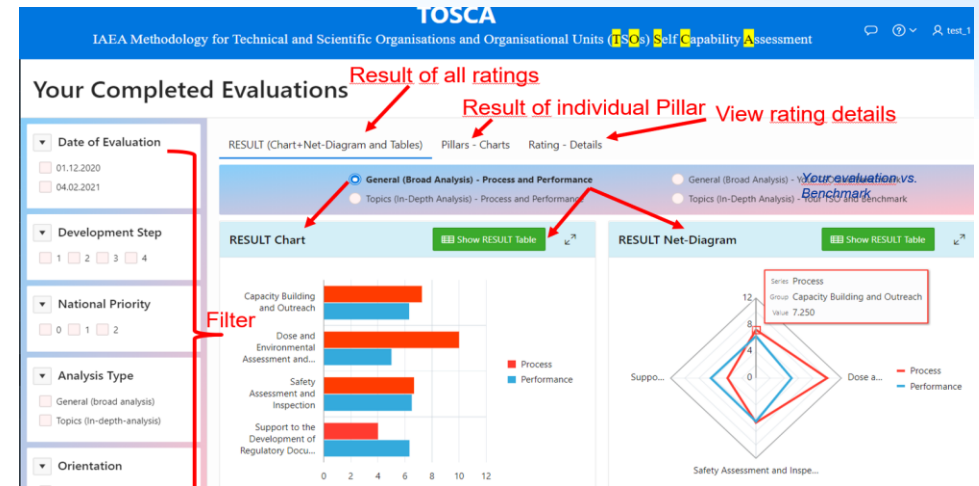
8 PILLARS

The questionnaire under the process and performance-oriented aspects are grouped into 8 chapters, represented as PILLAR.

<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Role, Characteristics and Management Pillar 1 </div> <p style="font-size: small; margin-top: 10px;">The characteristics and management of technical and scientific support are the conditions for its effectiveness and efficiency for the regulatory functions.</p> <table style="width: 100%; font-size: x-small; margin-top: 10px;"> <tr> <td style="width: 20%;">Development Step:</td> <td style="text-align: center;"> 1 2 3 4 </td> </tr> <tr> <td>National Priority:</td> <td style="text-align: center;"> 0 0.5 1 2 </td> </tr> </table>	Development Step:	1 2 3 4	National Priority:	0 0.5 1 2	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Capacity Building and Outreach Pillar 2 </div> <p style="font-size: small; margin-top: 10px;">The development and maintaining of technical knowledge, expertise and capability is a key supporting process for an effective TSO.</p> <table style="width: 100%; font-size: x-small; margin-top: 10px;"> <tr> <td style="width: 20%;">Development Step:</td> <td style="text-align: center;"> 1 2 3 4 </td> </tr> <tr> <td>National Priority:</td> <td style="text-align: center;"> 0 0.5 1 2 </td> </tr> </table>	Development Step:	1 2 3 4	National Priority:	0 0.5 1 2	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Support to Safety Assessment and Inspection Pillar 3 </div> <p style="font-size: small; margin-top: 10px;">Safety assessment review and inspection are performed to support the regulatory body in determining whether facilities and activities comply with regulatory obligations and conditions.</p> <table style="width: 100%; font-size: x-small; margin-top: 10px;"> <tr> <td style="width: 20%;">Development Step:</td> <td style="text-align: center;"> 1 2 3 4 </td> </tr> <tr> <td>National Priority:</td> <td style="text-align: center;"> 0 0.5 1 2 </td> </tr> </table>	Development Step:	1 2 3 4	National Priority:	0 0.5 1 2	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Support to the Development of Regulatory Documents Pillar 4 </div> <p style="font-size: small; margin-top: 10px;">The TSO supports the regulatory body by contributing to the process of updating and development of documents for guidance, rules, and regulations.</p> <table style="width: 100%; font-size: x-small; margin-top: 10px;"> <tr> <td style="width: 20%;">Development Step:</td> <td style="text-align: center;"> 1 2 3 4 </td> </tr> <tr> <td>National Priority:</td> <td style="text-align: center;"> 0 0.5 1 2 </td> </tr> </table>	Development Step:	1 2 3 4	National Priority:	0 0.5 1 2
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<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Radiation protection and Safety of Radioactive sources Pillar 5 </div> <p style="font-size: small; margin-top: 10px;">The TSO contribution to radiation protection and safety as well as to environmental monitoring, assessment and surveillance is key issue for protecting people and the environment .</p>	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Assessment of Operating Experience Pillar 6 </div> <p style="font-size: small; margin-top: 10px;">The TSO supports the regulatory body to investigate and disseminate information on operating experience to use this in their management, safety assessment and engineering practices.</p>	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Emergency Preparedness and Response Pillar 7 </div> <p style="font-size: small; margin-top: 10px;">The TSO supports the regulatory body together with the response organizations and the operating organisations in emergency preparedness and response.</p>	<div style="background-color: #e6f2ff; padding: 5px; display: flex; justify-content: space-between;"> Research and Development Pillar 8 </div> <p style="font-size: small; margin-top: 10px;">Research and development support of the TSO is to independently assess and review the adequacy of the technical basis for safety regulation.</p>																

TSOF Activities (TOSCA - cont.)

- Web-based application
- Further developed pillars
- Case Studies (experience exchange)
- Guidance for the TSO Self-Assessment
- TOSCA handbook



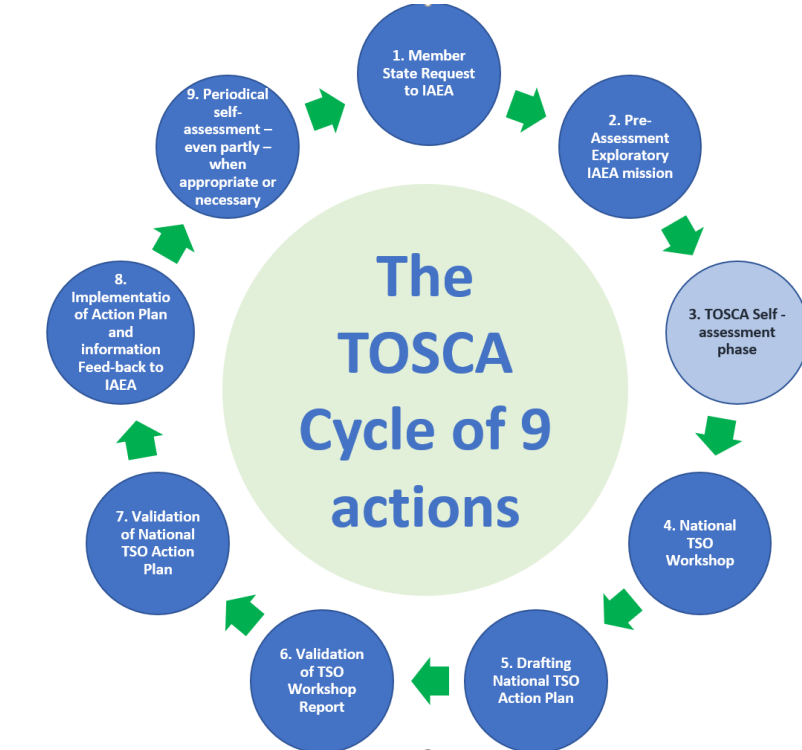
TSOF Activities (cont.)

- Promotion of TOSCA
 - TSOF Workshops, TOSCA workshops, TSOF & TOSCA flyers

- National Workshops on developing and strengthening technical and scientific capacity,
 - Application for National Workshops, e.g. Turkey, Bangladesh
 - Self-assessment
 - Contribution to National Workshops – National Action Plan
 - Implementation of the Action Plan
 - Periodic self-assessment

- IAEA TECDOC-1835
 - To be revised/completed with a specific focus on radiation protection and safety activities

- Development of R&D and other Topical Priorities for embarking countries





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Thank you!