

TEMPLATE C

TOOLS: “Space2030” Agenda Mid-term Review

1. Have you benefitted from any of the “Tools”, listed in paragraph 24?

Yes ☒ No ☐

If YES, please indicate those mechanisms, and please summarize the impact [max 200 words]

Space For Climate Observatory	Bahrain Space Agency recently joined the SCO and participated in an in-person meeting during the IAC 2024 and online meetings.
The Regional Center for Space Science and Technology Education for Western Asia (Jordan)	The Bahrain Space Agency, in collaboration with the Regional Center for Space Science and Technology Education for Western Asia (Jordan), conducted the first workshop in a planned series in 2025, focusing on the application of Artificial Intelligence (AI) in satellite design and operations. This initiative highlights the Agency’s growing expertise in advanced space technologies, with additional workshops in the series set to further explore cutting-edge developments in the space sector.
Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP) (India)	Bahrain Space Agency attended online and in-person workshops.
The World Meteorological Organization Integrated Global Observing System	Bahrain Meteorological Directorate in Ministry of Transportation and Telecommunication is using this system and is a member of WIGOS and they have members serving as a national focal point of Bahrain. WIGOS helps the Meteorological Directorate integrating its weather observations with global systems using standardized methods, improving forecast accuracy, data quality, and disaster preparedness. The system is providing a unified framework that connects Bahrain’s observation networks to global systems, ensures data is collected and shared using international standards, supports training and coordination through the WMO.

2. In addition, several tools and initiatives have been and are being developed by the United Nations Office for Outer Space Affairs (UNOOSA), as part of its capacity-building for the twenty-first century, and in cooperation with its partners ([A/RES/76/3](#), para. 25), as listed in paragraph 25, subsections (a)-(i) of the “Space2030” Agenda.

2.1. Have you benefitted from any of the “Tools”, developed by UNOOSA, listed in paragraph 25?

Yes ☒ No ☐

If YES, please indicate those mechanisms, and please summarize the impact [max 200 words]

The Space for Women	Bahrain has actively engaged with UNOOSA's Space for Women initiative, aiming to promote gender equality and empower women in the space sector. The Bahrain Space Agency has participated in numerous events, and one of its engineers has been appointed as a mentor under the Space4Women mentorship program, reflecting Bahrain’s commitment to inclusivity in its emerging space program.
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TEMPLATE C

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	It is also worth mentioning that the Bahrain Space Agency was awarded the 3G Diversity Award by the IAF in 2022.
Space4Water	Bahrain has shown interest in leveraging space technology for water resource management, particularly through initiatives like UNOOSA's Space for Water projects. As a nation facing water scarcity, Bahrain Space Agency utilizes space-derived data to address Bahrain's water challenges, ensuring sustainable resource management and contributing to global efforts in using space technology for environmental sustainability. Bahrain space agency initiated several international projects as part of the initiative, for example with United Kingdom, Brazil, and Nigeria.
World Space Forums	The World Space Forums provided Bahrain with a platform to engage with global space leaders, fostering partnerships and knowledge exchange to develop its nascent space program. By participating in most of the forums, Bahrain gained insights into international best practices, capacity-building opportunities, and innovative technologies, helping it align with global standards. Additionally, the forums enabled Bahrain to showcase its ambitions and integrate into the international space community as an emerging nation.
United Nations Register of Objects Launched into Outer Space	The UNOOSA Register enhanced space situational awareness, aiding safe mission planning for AlMunther satellite. It helped boost national prestige and participation in global space governance. Ultimately, it supported sustainable and responsible use of outer space.
Space law for new space actors	The ASTRO platform aided Bahrain in drafting its national space law by offering access to international treaties, non-binding guidelines, and best practices. It enabled Bahrain to align its legal framework with global standards, incorporate principles like peaceful space use and liability, and address modern challenges, ensuring responsible and sustainable space activities under international norms.
Space for Youth, to advance Youth 2030	The Bahrain Space Agency (BSA) proudly encourages Bahraini students and young professionals to participate in the prestigious Space4Youth Competition, an international platform that empowers young minds to contribute innovative solutions to global challenges through space science and technology. By taking part in this initiative, Bahraini students and young professionals have the opportunity to showcase their creativity, technical skills, and passion for space, while representing the Kingdom on a global stage. The BSA remains committed to nurturing the next generation of space leaders and innovators and views this competition as a vital step toward inspiring national talent and fostering a culture of scientific excellence and exploration.

3. As the lists contained in paragraphs 24 and 25 of the “Space2030” Agenda and implementation plan are not exhaustive, and new initiatives could be developed, including by UNOOSA, with a view to assisting Member States in implementing the “Space2030” Agenda, please indicate additional relevant Tools and any proposed enhancements to the ones listed. [max 200 words]

Tools (new or enhanced existing ones)	How they could benefit your country
(New suggested) Comprehensive Space Technology Development and Innovation Hub	A dedicated platform could accelerate innovation and technological development for emerging space nations like Bahrain, providing resources, mentorship, and collaboration opportunities. It could include a research and development database to advance space science and a database of space

TEMPLATE C

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	accelerators and incubators to support startups. Such a platform would help nations transition from non-spacefaring to spacefaring status. By combining these tools, it would drive sustainable growth and global collaboration in the space sector.
(New suggested) AI-Powered Space Mission Design Toolkit for Emerging Countries	An AI-based platform that assists in mission planning, cost estimation, risk analysis, and payload optimization for space missions. This would empower emerging space agencies’ engineers to design and evaluate missions faster and with fewer resources, democratizing access to advanced space engineering tools typically available only to major space agencies.

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