



**ASEAN – Russian Federation
Plan of Action on Science, Technology and Innovation
(ARPASTI)
2016 – 2025**

Background Information:

1. The ASEAN-Russia Working Group on Science and Technology (ARWGST) was officially agreed to be set up during the 1st ASEAN-Russia Joint Cooperation Committee (ARJCC) Meeting held on June 5-6, 1997 in Moscow, the Russian Federation. The Meeting subsequently endorsed its Terms of Reference (ToR).
2. The 1st ARWGST Meeting was held on June 9-10, 1997 and adopted the Procedural Guidelines for the ARWGST. The Meeting further agreed to pursue cooperation in biotechnology; new materials; information technology; microelectronics; and meteorology and geophysics.
3. The 1st ASEAN-Russia Summit on December 13, 2005 in Kuala Lumpur, Malaysia adopted the Comprehensive Programme of Action (CPA) to Promote Cooperation between ASEAN and Russia 2005-2015. The CPA indicated the following activities in promoting science and technology cooperation:
 - i. To hold regular meetings of the ASEAN-Russian Federation Working Group on Science and Technology (ARWGST);
 - ii. To identify the priorities, specific areas, initiatives and forms of cooperation based on the Concept Paper on the Convergence of Interests between the ASEAN Committee on Science and Technology (COST) and the Russian Federation in the area of Science and Technology being developed by the ARWGST;
 - iii. To encourage technology transfer and exchange for the mutual benefit of the ASEAN Member States and the Russian Federation;
 - iv. To exchange scientific and technological information and implement major joint projects;
 - v. To ensure effective protection of intellectual property rights resulting from cooperation under this Comprehensive Programme of Action in accordance with respective international treaties which the Member Countries of ASEAN and the Russian Federation are party to, and relevant national legislation.
4. The Concept Paper on the Convergence of Interest in science and technology between ASEAN and Russia was adopted by the 5th ARJCC Meeting held on 3 November 2006. The concept paper recognised the strength of Russia in the areas of biotechnology, microelectronics, information technology, meteorology and geophysics, nanotechnology, geoinformatics, environment management and energy technology and energy efficiency.
5. The Draft Action Plan of the ARWGST (2007-2011) was presented at the 3rd Meeting of ARWGST held on July 10, 2007 in Moscow. The draft plan as adopted by ASEAN and the Russian Federation in 2008 through ad-referendum. Subsequent meeting of the ARWGST agreed that the implementation of the Action Plan will be extended to 2015.

Considerations in developing the ARPASTI 2016-2025:

6. The objective and proposed actions in the ARPASTI 2016-2025 are formulated to be consistent with the goals and strategic thrusts of the ASEAN Plan of Action on Science, Technology and Innovation (APASTI) 2016-2025; the ASEAN Agenda Post-2015; the Federal Targeted Programme for Research and Development in Priority Areas of Development of the Russian Scientific and Technological Complex for 2014-2020; and the Comprehensive Plan of Action to promote cooperation between ASEAN and the Russian Federation (2016-2020)

Main Objective of the ARWGST Work Plan 2016-2025:

7. The ARPASTI 2016-2025 aims to serve as a guide in the planning, implementation, monitoring and assessment of activities that will strengthen cooperation in science, technology, and innovation between ASEAN and Russia.

Proposed Measures and actions:

№	Strategic Measures	Actions	Key Performance Indicators
1.	<p>Strengthen and develop joint R&D activities in the following areas as identified in the ASEAN-Russia Concept Paper:</p> <ul style="list-style-type: none"> • biotechnology • food security and sustainable agriculture • water resources and water treatment technology • clean and nuclear technologies and power generation • oil and gas technologies • microelectronics and information technology • meteorology and geophysics • nanotechnology • geoinformatics • environmental management • energy technology and renewal energy • material science • space technology and application 	<ol style="list-style-type: none"> 1. Share information on private research and development; 2. Conduct an ASEAN-Russia wide study designed to examine specific constraints to the conduct of joint R&D activities in the strategic areas identified; 3. Encourage mapping of existing R&D to promote collaboration between Russian and ASEAN scientists and researchers; 4. Promote building of the partnership between universities, STI institutions and private sector in promoting knowledge flows, joint researches and STI project activities and commercialization of innovation; 5. Establish thematic scientific networks; 6. Foster policy recommendations to facilitate R&D through the regular ARWGST meetings and other S&T officials' collaborations; 7. Develop the coordination of financing, organization and carrying out of the ASEAN – Russia R&D joint calls; 8. Establish the direct collaboration between ASEAN` and Russian R&D organizations; 9. Develop the international networking mechanisms between educational, scientific, innovative and industrial 	<ol style="list-style-type: none"> 1. Networking of centres of excellence in mutually agreed fields; 2. Ameliorated statistics of joint publications; 3. Joint research and project activities; 4. Creation of joint data bases; 5. Established platforms of S&T officials' collaborations with the academia society and private sector; 6. Developed research infrastructure available for ASEAN and Russian scientists.

		<p>organizations under the ASEAN – Russia dialogue partnership;</p> <p>10. Build joint research infrastructure network of ASEAN countries.</p>	
2.	Enhancing regional STI connectivity	<ol style="list-style-type: none"> 1. Enhance mobility of scientists and researches; 2. Strengthen engagement of women and youth in STI; 3. Establish coordination center for exchange of scientists, researchers and students. 	<ol style="list-style-type: none"> 1. Lowering of the medium age of researchers; 2. Growth of percentage of women in STI activity; 3. Augmentation of number of Russia – ASEAN international students; 4. Implemented exchange programmes, internships, research attachments for researchers, academics, students in ASEN and Russia.
3.	Commercialization of Science and Technology	<ol style="list-style-type: none"> 1. Establish innovative system to nurture STI enterprises to support MSMEs nurture knowledge creation and STI applications to raise competitiveness; 2. Enhance the collaboration with the Russia – ASEAN Business Council; 3. Convene a consultation forum for STI officials, scientists and private sector with a view to promoting public-private sector collaboration and commercialization of technologies. 	<ol style="list-style-type: none"> 1. Mechanisms of mentorship to support STI enterprises from start-up to the next competitive level of development; 2. Seminars/workshops/dialogues aimed at strengthening links between the academia society and the private sector.
4.	Create STI ecosystem & STI networks that strengthen regional STI linkages	<ol style="list-style-type: none"> 1. Raise public awareness and visibility of ASEAN-Russia cooperation in science, technology and innovation; 2. Enhance connectivity of industry. 	<ol style="list-style-type: none"> 1. Participation of Russian scientists, researchers and industries in the ASEAN STI events such as ASEAN Food Conference (AFC) and ASEAN Science and Technology Week (ASTW) and vice versa participation of ASEAN scientists, researchers and industries in relevant STI events organised by the Russia

			<p>Federation;</p> <ol style="list-style-type: none"> 2. Publication of joint scientific articles in the ASEAN Journal of S&T for Development and other journals; 3. Leverage on the ASTNET in publicizing ASEAN-Russia initiatives in STI; 4. Develop a resource database and network to facilitate information sharing and technical cooperation among agencies in the public and private sector; 5. Participation by young/early career innovators in ASEAN – Russia joint projects and meetings; 6. Create a section for young innovators within the framework of annual ASEAN-Russia Youth Summits.
5.	<p>Strengthen strategic collaboration between ASEAN and Russia to create an effective system for capability development, technology transfer and commercialization</p>	<ol style="list-style-type: none"> 1. Establish a policy framework for collaboration and technology transfer among centers of excellence; 2. Promote transparency; 3. Collaborate on the improvement of capability on S&T foresight; 4. Promote scientific best practices and data sharing; 5. Build the legal supporting network for ASEAN countries in science and technology field through the transfer of experience and knowledge sharing; 6. Transfer technologies to the ASEAN countries with a view to develop the work force in the field of agriculture. 	<ol style="list-style-type: none"> 1. Regular ARWGST meetings and others for STI officials; 2. ASEAN – Russia policy recommendations to strengthen STI ecosystem and STI networks; 3. Policy recommendations to accelerate STI knowledge sharing and scientific data sharing; 4. Procedures and mechanisms of knowledge sharing.

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