CONCEPT NOTE

DIGITAL SCIENCE LITERACY FOR
THE BETTERMENT OF HUMANKIND

BACKGROUND

Digital literacy is the ability using information and communication technology (ICT) to evaluate, create, and communicate information, desirable for well-being of individuals, communities and society. Science is a way of knowing, a process, a product, and an institution. Science enables people to engage in the construction of new knowledge and use information to achieve desired ends. Access to science - whether using knowledge or creating it – necessitates level of familiarity with enterprise and practice of science, as referred as science literacy. Contemporary definitions of science literacy have expanded to include: understandings of scientific processes and practices, familiarity with how science and scientists work, capacity to weigh and evaluate products of science, and ability to communicate and engage in public decisions about science value.

The pandemic era of COVID-19 is the example that digital literacy becomes crucial to the means of promoting awareness and healthy behavior to public by various creative approaches. These evident nurtures the spread of digital science literacy, which refers to general public engagement contribution to information, how science and scientists work, capacity to weigh and evaluate products of science information, and ability to communicate and engage in public decisions about literacy value.

The Indonesian Academy of Sciences (AIPI) has initiated in proposing a seminar to hasten that spread of digital science literacy. Science Academies are the prestigious institutions which consist of fellows from various universities and research & development centers. They are proper in spreading the trusted science information throughout digital literacy as one of the tools. The proposal is backed up by the Inter-Academy partnership (IAP) and supported by the Association of Academies and Societies of Sciences in Asia (AASSA) especially the special committee in SHARE Communication (Science, Health, Agriculture, Risk and Environment) in the regional level, as well as by the Ministry of Communication and Informatics in the national level.

Sharing best practice and information about the development of digital science literacy among countries is essential, especially those producing the fast ICT advancement, to take the opportunity in addressing its advantages and problems. The experience shared in the seminar would be the reference for other countries in addressing the developing digital science literacy system, program and approach to attract public in that particular areas. In the national level, the support from government is also a powerful catalyst in producing criteria, policy / regulation, security, program, as well as incentive to speed up the digital literacy development approaching

public and to be understand.

The seminar seeks to address the strategic objectives in promoting the importance of science in research, education and digital literacy, such as: promoting high-quality, responsible, open, transparent and inclusive information; communicating and disseminating initiatives, innovative, creativities and accessible ways; supporting activities that foster the next generation through collaborations; promoting public engagement in digital science literacy.

The seminar should contribute to the capacity building in the regional as well as in global alliances and should give benefits in promoting science-policy interface to advance the evidence-based policy making. So that it will be meaningful in addressing the challenges and contentious issues of digital science literacy.

The objective of this seminar is then to discuss: i) How to develop, spread and deliver credible digital science literacy to public effectively, ii) to share experiences, and identify the current and future challenges, and iii) to present innovative strategies and mechanisms to empower public engagement in addressing challenges.

ORGANIZERS

The Indonesian Academy of Sciences (AIPI) was established in 1990 by the Law of the Republic of Indonesia No. 8/1990 on the Indonesian Academy of Sciences. It is an Indonesia's independent body that gives opinions, suggestions, and advice to the government and society on the acquisition, development and application of science and technology. It organized into five commissions: Basic Sciences, Medical Sciences, Engineering, Social Sciences, and Culture. AIPI promotes science through scientific conferences and policy discussion forums, publications, national and international relations, and other activities (www.aipi.or.id/).

The Inter Academy Partnership (IAP) is the global network of science, engineering and medical academies working together to provide independent expert advice on scientific, technological and health issues. Under the umbrella of IAP, more than 140 national, regional and global member academies work together to support the vital role of science in seeking evidence-based solutions to the world's most challenging problems. IAP harnesses the expertise of the world's **leading scientific minds** to advance sound policies, improve public health, promote excellence in science education, and achieve other critical development goals (www.interacademies.org).

The Association of Academies and Societies of Sciences in Asia (AASSA) was established in 2012 through the merger of the Association of Academies of Sciences in Asia (AASA) and the Federation of Asian Scientific Academies and Societies (FASAS). The aim of AASSA (www.aassa.asia) is to promote solidarity and cooperation among the scientific and technological academies in Asia and Australasia, and to play a central role in collaborations to further develop the region through science and technology. One of AASSA Special Committee is SHARE Communication (Science, Health, Agriculture, Risk, Environment) which takes part in

organizing the seminar. AASSA is one of the four Regional Networks of the Inter Academy Partnership (IAP) (www.interacademies.org).

The Ministry of Communication & Informatics (Kominfo) has the task of organizing government affairs in the field of communications and informatics. One of the functions of the Ministry is formulation and stipulation of policies in the field of resource management, postal and informatics equipment and operation, management of informatics applications, and management of public information and communication (www.kominfo.go.id/).

IMPLEMENTATION

Date and duration: Hybrid seminar: 20-21 June 2023 at Jakarta
Participants / Speakers: Government bodies, international bodies and associations, researchers, educators, communities, etc.
Language: English

PROPOSED AGENDA

Time	Sequence	Speakers
DAY 1		
09:00	Welcome & Congratulatory Remarks	Opening by Facilitator Welcoming Remark by Chair of SHARE Communication Congratulatory Remark by Director of Digital Literacy of KOMINFO Opening Remark by President of the Indonesian Academy of Sciences Opening Remark by President of the Association of Academies and Societies of Sciences in Asia (AASSA)
10:00	Keynote Speakers	Director General for Application of Informatics, Ministry of Communication & Informatics Director for Digital Inclusion, Policies and Transformation, UNESCO Chair, World Organization for Science Literacy (WOSL)
11:00		Coffee break (15')

11:15	Discussion Session 1 (Development of Digital Literacy)	4 Speakers Q & A
12:15		Lunch break
13:30	Discussion Session 1 (Development of Digital Literacy)	4 Speakers Q & A
14:30	Discussion Session 2 (Share Experiences & Challenges)	4 Speakers Q & A
15:30		Coffee break
15:45	Discussion Session 2 (Share Experiences & Challenges)	4 Speakers Q & A
16:45	Discussion Session 2 (Share Experiences & Challenges)	4 Speakers Q & A
17:45		Summing Up Day 1
18:00		Break
19:00		Dinner
	DAY 2	
09:00	Speakers	Public Communication on Science and Technology (PCST) Indonesian Society of Digital Literacy (Siberkreasi) AASSA Special Committee of SHARE Communication
10:00		Panel Discussion of Community on Digital Literacy

11:00		Introducing AASSA Special Committee of SHARE Communication Chair,
11:30		Summing Up and Recommendation
12:00		Closing
12:15		Lunch
13:30		Field trip (optional)