

World Bank-인도네시아 연구혁신청(BRIN) Science, Technology, and Innovation capacity building workshop 출장보고서

2023. 10. 13

KDI 산업시장정책연구부

1 출장 배경 및 목적

- 세계은행(World Bank)의 요청으로 동 행사 참석 및 토론
 - 월드뱅크 Finance Competitiveness and Innovation 부서에서 주관하는 행사
 - 인도네시아에서 R&D 및 혁신 정책을 총괄하고 있는 Indonesia BRIN(National Research and Innovation Agency)를 주요 대상으로 함
 - 인도네시아 정부의 과학기술혁신(Science, Technology and Innovation) 정책 기획 및 집행 역량을 강화하기 위한 워크샵

2 출장 개요

- 출장지 및 기간
 - 출장지: 인도네시아 반둥
 - 출장기간: 2023년 9월 10일(월) ~ 9월 15일(금)
- 출장자 (총 1명)

소속	성명	직위
KDI 산업시장정책연구부	안상훈	선임연구위원

- 주요활동
 - 9월 12일 및 13일 양일에 걸쳐 총 5개 세션 및 최종 정리 세션에 토론자 및 주제 발표자로 참석

3 출장 일정

9월 11일 인천공항 출발 자카르타 경유하여 반둥 현지 도착

9월 12~13일 인도네시아 반둥에서 인도네시아 연구혁신청(BRIN) 주최 회의 참석 (세부 일정표는 아래를 참조)

9월 14일 반둥에서 자카르타로 이동. 익일 아침 인천공항 도착

4 활동 내용

□ 주요 발표자

○ 한국측

STEPI 송치웅 (우리나라 과학기술정책의 발전 과정 및 정책적 함의)

KISTEP 강진원 (R&D 및 혁신정책 성과평가 체계)

KDI 안상훈 (산업과 혁신)

○ 세계은행측

이주섭 국장, Anwar Aridi, Xavier Cirera, Yehia Eldozdar 등

□ 제1일차 주제발표 및 토론

Innovation Policy in Developing Countries (Xavier Cirera, World Bank)

Innovation policy in Practice (Xavier Cirera, World Bank)

Supporting Research and Innovation for Better Economic Outcomes: Experience from Eastern Europe (Anwar Aridi, World Bank)

The Innovation policy guide: What instruments are available to support innovation and technology adoption (Xavier Cirera, World Bank)

Korea's STI Policy initiative and its implications in Economic Development (Chiung Song, STEPI)

DAY 1(Sep 12th) BEST PRACTICES IN INNOVATION POLICY

September 12 th (DAY 1) Innovation policy			
Plenary Session	09:00 ~09:30	Presentation 1 <i>Challenges in Innovation Policy Initiatives for sustainable growth in Indonesia</i>	Dudi Hidayat, BRIN
	09:30 ~10:00	Presentation 2 <i>Innovation Policy in Developing Countries</i>	Xavier Cirera, (World Bank)
	10:00 ~10:30	Q&A and Interactive Discussion (using app) <ul style="list-style-type: none"> • <i>What is in your opinion the main priorities for Indonesian innovation policy after the pandemic?</i> • <i>What international best practices should be adopted in Indonesia's STI policy?</i> 	
		15 min Coffee break	
Session 1	10:45 ~11:30	Presentation 3 <i>Innovation policy in practice. Minimizing government failure.</i>	Xavier Cirera, (World Bank)
	11:30 ~12:00	Q&A and Interactive Discussion <ul style="list-style-type: none"> • <i>Name the main obstacles to design and implement innovation policy in Indonesia</i> 	
Session 2	13:30 ~14:00	Presentation 4 <i>Supporting Research and Innovation for Better Economic Outcomes: Experience from Eastern Europe</i>	Anwar Aridi, (World Bank)
	14:00 ~14:30	Presentation 5 <i>The Innovation policy guide: What instruments are available to support innovation and technology adoption.</i>	Xavier Cirera, (World Bank)
	14:30 ~15:00	Presentation 6 <i>Korea's STI Policy initiative and its implications in Economic Development</i>	Chiung Song (STEPI)

□ 제1일차 추가 질의응답, 상호토론 및 주제별 분과 활동

	15:15 ~15:45	<p>Q&A and Interactive Discussion <i>How to apply international best practices in practical manner</i> <i>What would be the best instruments to unlock the innovation potentials in Indonesia?</i></p>
		<p>Team exercise – split in 4 groups <i>Design an innovation instrument to address the following innovation problems:</i></p> <ul style="list-style-type: none"> • <i>Group 1. Increase university-industry collaboration.</i> • <i>Group 2. Increase adoption of green technologies</i> • <i>Group 3. Increase R&D</i> • <i>Group 4. Increase digitalization of SMEs</i>
	15:45 ~17:00	<p>Template</p> <ol style="list-style-type: none"> 1. Articulate the problem you are trying to solve 2. What is the market failure you are addressing, and why is government intervention going to work? 3. Define your target group – what are your selection criteria? 4. What is the policy instrument that you will use? 5. What are the risks of the program? What other complementary factors and policies do you need in place to succeed? 6. Define your set of indicators for M&E

□ 제2일차 주제발표 및 토론

Indonesia's R&D performances and M&E schemes (Khairul Rizal, Dudi Iskandar, BRIN)

Overviews and fundamentals of monitoring and evaluation and how it could be applied to STI Policy (Yehia Eldozdar, World Bank)

The R&D Evaluation System in Korea (Jin Won Kang, KISTEP)

Korea Industrial Policy Transformation Post Asian Financial Crisis (Anwar Aridi, World Bank)

Flagship STI policy cases in Korea to unlock Innovation Potentials (Joo Sueb Lee, World Bank)

Industry and Innovation (Sanghoon Ahn, KDI)

September 13 th (DAY 2)			
	09:00 ~09:30	<p>Presentation 7 <i>Indonesia's R&D performances and M&E schemes</i></p>	<p>Khairul Rizal, Dudi Iskandar BRIN</p>
Session 3	09:30 ~10:00	<p>Presentation 8 <i>Overviews and fundamentals of monitoring and evaluation and how it could be applied to STI Policy</i></p>	<p>Yehia Eldozdar, (World Bank)</p>
	10:00 ~10:30	<p>Presentation 9 <i>The R&D Evaluation System in Korea</i></p>	<p>Jin Won Kang, KISTEP</p>
	10:45 ~12:00	<p>Q&A and Interactive Discussion <i>What are the key challenges across the M&E building blocks when it comes to STI policy support measurement?</i> <i>What are the key principles and measures to build up better M&E mechanisms in Indonesia?</i> <i>What are the practical ideas or experiences of Korea that Indonesia can adopt to make better and more efficient M&E indexes and system</i></p>	
	13:30 ~13:50	<p>Presentation 10 <i>Korea Industrial Policy Transformation Post Asian Financial Crisis</i></p>	<p>Anwar Aridi (World Bank)</p>
Session 4	13:50 ~14:10	<p>Presentation 11 <i>Flagship STI policy cases in Korea to unlock Innovation Potentials</i></p>	<p>Joo Sueb Lee, (World Bank)</p>
	14:10 ~15:00	<p>Q&A and Interactive Discussion <i>How to apply Korea's experiences in practical manner:</i> <i>What was right in the past and what is wrong today(What are some examples of policy successes (or failures) in Korea that could have been applicable in the past but not today) ?</i> <i>Is Korea's innovation success story replicable in digitalized world?</i></p>	
Wrap-up Session	15:15 ~15:45	<p>Presentation 12 Industry and Innovation <i>How to innovate National Innovation System for better future</i></p>	<p>Sanghoon Ahn (KDI)</p>

□ 제2일차 추가 질의응답 및 종합토론

	<p>15:45 ~17:00</p>	<p style="text-align: center;"><i>Q&A and Interactive Discussion</i> <i>Roadmap discussion on Effective STI policy and M&E mechanism in Indonesia</i></p> <p style="text-align: center;"><i>Discussion Topics & Policy Design Exercises(tentative)</i></p> <ol style="list-style-type: none"> 1. What are the unique characteristics or contexts of Indonesia need to be considered when applying international best STI policy practices? 2. What are some ways to increase transparency and efficacy of R&D activities and enhance the utilization of R&D output? 3. What are the key principles or elements to effectively coordinating and implementing STI policy in Indonesia? 4. What policy instruments can be considered effective in incentivizing R&D and Innovation efforts of private sectors in Indonesia? 5. Are there any strategic areas or industries in Indonesia where public R&D capabilities should be concentrated? What are these strategic areas? What STI policy measures would best nurture these strategic areas and why in the Indonesian context? How can Indonesia find some ways to concentrate R&D capabilities more effectively? 6. What other policy instruments other than but related to STI policies are needed to maximize impact for sustainable growth? 7. What is the most urgent task to commercialize R&D output or innovation outcomes effectively?
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