

ASEAN IVO Projects 2021

No	Title of Proposed Project	Duration	Project Leader	Project Members
1	2.5D Technology-based Integrated Antenna Array mm-Wave System For Non-Invasive Food Safety Scanner (TIAS)	2021/5 – 2023/4	Nguyen Ngoc Mai-Khanh U-Tokyo(JPN)	NTU(VNM), UBD(BRN), NUS(SGP), PTIT(VNM), IICT(LAO), Soitec(SGP), NIPICT(KHM), Waseda-U(JPN)
2	Resilient Artificial Intelligence of Things (AIoT) Green Energy System with Real-time Solution for Effective Aquaculture (REAS-SEA)	2021/4 – 2023/3	Bao Vo Nguyen Quoc PTIT(VNM)	U-Tokyo(JPN), Soitec(SGP), NTU(VNM), IICT(LAO), MIC(VNM), MMU(MYS), BLU(VNM), LEO(JPN), NIPTICT(KHM)
3	IoT System for Water Reuse in Developing Cities	2021/4 – 2023/3	Choe Peng Leo USM(MYS)	UBD(BRN), TDTU(VNM), NICT(JPN)
4	GNSS and Ionospheric Data Products for Disaster Prevention and Aviation in Magnetic Low- Latitude Regions (Phase II)	2021/4 – 2023/3	Lin Min Min Myint KMITL(THA)	CMU(THA), GISTDA(THA), NUOL(LAO), YTU(MMR), NIPTICT(KHM), NICT(JPN)
5	VOIS for Hearing-Impaired Children	2021/5 – 2023/4	Aye Thida UCSM(MMR)	NECTEC(THA), USM(MYS)

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ASEAN IVO Projects 2020

No	Title of Proposed Project	Period	Project Leader	Project Members
1	Context-Aware Disaster Mitigation using Mobile Edge Computing and Wireless Mesh Network	2 years	Tham Mau Luen UTAR (MYS)	UTAR (MYS), MIMOS (MYS), NICT (JPN), UCSY (MMR), PIT (THA), JTTA (JPN)
2	Reusable, Sharable, and Transferable Smart Data Platform for Collaborative Development of Data-driven Smart Cities	2 years	Minh-Son Dao NICT (JPN)	NICT (JPN), UTB (BRN), DLU (VNM), NUS (SGP), ISU (PHL)
3	ASEAN-Wide Cyber-Security Research Testbed	2 years	Sinchai Kamolphiwong PSU (THA)	PSU (THA), UB (IDN), UCSY (MMR), ITC (KHM), UIT (MMR), UTokyo (JPN)
4	An Energy Efficient, Self-Sustainable, and Long Range IoT System for Drought Monitoring and Early Warning	22 months	Xuan Nam Tran LQDTU (VNM)	LQDTU (VNM), UEC (JPN), KIT (JPN), KMUTT (THA), KMITL (THA), NAWAPI (VNM), MDH (SWE), UTC (VNM), PTIT (VNM)

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ASEAN IVO Projects 2019

No	Title of Proposed Project	Period	Project Leader	Project Members
1	Relay Station Network Based on Low-power Wide-area Network (LPWAN) Technologies for Disaster Management	2 years	Kanokvate Tungpimolrut NECTEC (THA)	NECTEC (THA), UTB(BRN), MU(PHL), ASTI(PHL), NUOL (LAO), TCEI (LAO), UCSY(MMR)
2	FarmTab: Precision Agriculture System using Internet of Things and Artificial Intelligence for Urban Farming	2 years	Chong Yung Wey USM (MYS)	USM (MYS), UTAR(MYS), HUST(VNM), UNHAS(IDN), UB(IDN), Kyoto U(JPN), UCSY (MMR)
3	Prevention of 4 Disasters and Their Single Recovery Networks based on Internet-of-Things with Airborne Capability (PATRIOT-41R-Net)	2 years	Khoirul Anwar Telkom U (IDN)	Telkom U (IDN), JAIST(JPN), HUST(VNM), UTM(MYS), AIT(THA)
4	GNSS and Ionospheric Data Products for Disaster Prevention and Aviation in Magnetic Low- Latitude Regions	2 years	Pornchai Supnithi KMITL (THA)	KMITL (THA), CMU(THA), NUOL(LAO), YTU(MMR), NICT(JPN)

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ASEAN IVO Projects 2018

No	Title of Proposed Project	Period	Project Leader	Project Members
1	Event Analysis: Applications of computer vision and AI in smart tourism industry	2 years	Somnuk Phon-Amnuaisuk UTB(BRN)	UTB(BRN), NTU(SGP), NICT(JPN), NECTEC(THA), MUT(THA), NUOL (LAO), UCSY(MMR), MMU (MYS)
2	Cyber-Attack Detection and Information Security for Industry 4.0	3 years	Nguyen Linh Trung VNU-UET(VNM)	VNU-UET(VNM), NTU (SGP), UTS (AUS)
3	Scalable Distributed IoT Framework based on Mobile Robot Technology for High Performance Greenhouse Plants	2.5 years	Thu Ngo-Quynh HUST(VNM)	HUST(VNM), NES(JPN), NICT(JPN), CHAM(LAO)
4	Smart Aquaculture Quality Monitoring (AQM) System with Internet of Things (IoT)	3 years	Widad Ismail USM(MYS)	USM(MYS), UTM(MYS), MAMPU(MYS), Kyoto U(JPN), UNISSULA(IDN), UTP(MYS), RMUTSV(THA)
5	NAPC: Networked ASEAN Peat Swamp Forest Communities	3 years	Borhanuddin Mohd Ali UPM(MYS)	UPM(MYS), NICT(JPN), MIMOS(MYS), Bogor Agricultural University (IDN), UTB(BRN), BPPT (IDN)
6	A mesh-topological, low-power wireless network platform for a smart watering system	3 years	Udom Lewlompaisarl NECTEC(THA)	NECTEC(THA), UCSY(MMR), DAA(BRN), UTB(BRN), UTM(MYS), NICT(JPN)

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ASEAN IVO Projects 2017

No	Title of Proposed Project	Period	Project Leader	Project Members
1	A Hybrid Security Framework for IoT Networks	3.5 years	Hoang Dang Hai PTIT (VNM)	PTIT (VNM), NECTEC(THA), MIMOS(MYS), NICT(JPN), HUST(VNM)
2	Smart Lighting for Internet of Things and Smart Homes	3 years	Pham Tien Dat NICT (JPN)	NICT(JPN), VAST(VNM), HCMUT(VNM), LIPI(IDN), PTIT(VNM), Waseda U(JPN)
3	IoT System for Public Health and Safety Monitoring with Ubiquitous Location Tracking	3 years	Chieng Heng Tze MIMOS (MYS)	MIMOS(MYS), NICT(JPN), HUST(VNM), UBD(BRN), Gifu U(JPN)
4	Evapotranspiration (ET)-Based Irrigation System with Internet of Things (IoT) Integration for Smart Farming Application Addressing the ASEAN Impending Water Crisis	4 years	Jennifer Dela Cruz MIT (PHL)	MIT(PHL), CLSU(PHL), UTM(MYS), UCSY(MMR), NICT(JPN)
5	Study and evaluation of heterogeneous network for smart community and smart city applications	2.5 years	Kultida Rojviboonchai CU (THA)	CU(THA), MIMOS(MYS), UTAR(MYS), NICT(JPN)

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ASEAN IVO Projects 2016

No	Title of Proposed Project	Period	Project Leader	Project Members
1	Open Collaboration for Developing and Using Asian Language Treebank	3 years	Masao Utiyama NICT (JPN)	NICT(JPN), BPPT(IDN), I2R(SGP), IOIT(VNM), NIPTICT(KHM), UCSY(MMR), NECTEC (THA), PUP (PHL)
2	ASEAN Language Speech Translation thru' U-STAR	3 years	Li Haizhou I2R (SGP)	I2R (SGP), NIPTICT(KHM), BPPT(IDN), UTM(MYS), UCSY(MMR), NECTEC(THA), HUST(VNM), IOIT(VNM)
3	Mobile IoT	2 years	Sumei Sun I2R(SGP)	I2R(SGP), MIMOS(MYS), HUST(VNM), NICT(JPN)
4	ASEAN forum for Software Defined System on Disaster Mitigation and Smart Cities	3 years	ONG Hong Hoe MIMOS(MYS)	MIMOS(MYS), SINGAREN(SGP), NECTEC(THA), USCY(MMR), HUST(VNM), VNU-ITI(VNM), MU(PHL), ASTI(PHL), AIST(JPN), NICT(JPN)
5	IoT Open Innovation Platform	3 years	Boon Choong Foo MIMOS (MYS)	MIMOS(MYS), NICT(JPN), I2R(SGP), HUST(VNM), VNU(VNM)
6	Cambodia NerveNet Field Testing (Operation Management and Content Development to Promote Connectedness of Cambodia Rural Area)	4 years	Van Khema NIPTICT(KHM)	NIPTICT(KHM), NICT(JPN), UCSY(MMR)
7	TV White Space (TVWS) Experimental for Application in Remote Area	2 years	Hafizal Mohamad MIMOS(MYS)	MIMOS(MYS), USC(PHL), NICT(JPN), UKM(MYS)
8	Research and development on short distance communication and imaging for applications in ASEAN region	3 years	Vo Nguyen Quoc Bao PTIT(VNM)	PTIT(VNM), LIPI(IDN), TI(IDN), CU(THA), HCMC-DIC(VNM), UTM(MYS), TMRD(MYS), NICT(JPN), CMU(THA), RFD(VNM), SUT(THA),

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