

Going Global Partnerships

Project: Developing Connected Curriculum on Digital Twin for Health System Resilience

Partners: Universitas Gadjah Mada (Indonesia) -

London Digital Twin Research Centre (LDTRC), Middlesex University London (UK)

A. Workshop Agenda

Date : Monday, 23 May 2022

Time : 14.00 - 15.15 Indonesia Time / 08.00 - 09.15 UK Time

Join Zoom Meeting

<https://ugm-id.zoom.us/j/97436826166?pwd=N0FjTC9yRIUzUmlaTkE0WUMxRkVZdz09>

Meeting ID: 974 3682 6166

Passcode: 959968

No	Event/Topic	Speaker	Time (UTC +7)	Material/video
1.	Opening remarks	dr. Yodi Mahendradhata, M.Sc., PhD, FRSPH Vice Dean Faculty of Medicine, Public Health and Nursing Universitas Gadjah Mada	14.00-14.05	https://youtu.be/rDQfkKlcccY
2.	Digital Twin in Healthcare	UK: Prof. Huan X. Nguyen	14.05-14.15	Huan-Workshop1_DT in healthcare.pptx
3.	A digital twin based approach to explore a safer return to new normal in the face of Covid19 pandemic related uncertainties	TCS India: Souvik Barat	14.15-14.25	Souvik-City Digital Twin as Covid19 prediction model.pdf
4.	Health System Resilience in Indonesia	dr. Yodi Mahendradhata, M.Sc., Ph.D., FRSPH	14.25-14.35	https://youtu.be/ua7AD8SDI8Y

5.	Panel Discussion from Indonesia stakeholder	<p>Moderator: dr. Lutfan Lazuardi, M.Kes., Ph.D</p> <p>Panelis: (tentative)</p> <ol style="list-style-type: none"> Public Health Office Kulon Progo: dr. Titik Supiyati, Mr. Joko Budi Santosa/dr.Chusnun Puskesmas Mlati 2: dr. V. Evita Setyaningrum, MPH Puskesmas Samigaluh 2: dr. Tari Astuti Academic Hospital UGM: dr. Dewi Ratmasari, MPH Health informatics company: Sunandar Hariyanto, ST., M.Eng 	14.35-14.55	<p>Kulon Progo: Dinkes KP-Digital Twin HSR 2022.pptx Puskesmas Mlati II: Evita Puskesmas Mlati II - DIGITALISASI LAYANAN PUSKESMAS MLATI II.pptx Academic Hospital: RS AKADEMIK UGM - DIGITAL TWIN 23 MEI 2022.pptx Sisfomedika: Sisfomedika dan Digital Twin new.pdf</p>
e	Comments and feedback from the UK-India project regarding the digital twin curriculum	Dr. Purav Shah (UK) Dr. Hrishikesh Venkataraman (India)	14.55-15.00	
f.	Feedback from the curriculum development team	MDX: Prof. Huan X. Nguyen UGM: dr. Lutfan Lazuardi, M.Kes., Ph.D	15.00-15.10	
5.	Closing remarks	dr. Lutfan Lazuardi, M.Kes., Ph.D.	15.10-15.15	

B. Introduction

A health system resilience is needed to strengthen Indonesia's preparedness, response and approach to future crises, especially in events such as the COVID-19 pandemic. The Ministry of Health Indonesia has now included health system strengthening as one of their top priorities. The new curriculum with digital technologies at its core is therefore required to upskill and train the next generation healthcare workforce, one of the determinants of the health system resilience framework.

Understanding of the latest digital tools, e.g., artificial intelligence (AI), can be used to help extract the key features from the current pandemic responses of Indonesia. A digital twin (DT), which will employ AI tools at its core, is a virtual representation of a system facilitating a bi-directional communication between the system and its digital representation. Examples of DTs in the reduced form of computational models are now in the public gaze, for example, COVID-19 pandemic modeling. However, developing a curriculum that applies DT technology to teaching and learning environments remains critical to future-proofing not just for the Indonesian healthcare system but also UK healthcare and infrastructure (UK Innovation Strategy). The project is also expected to prepare students for health system resilience through the DT potential in the policy-making process.

C. Objectives

The first workshop to be held is part of the curriculum development stage. Through this workshop, it is hoped that discussions will occur and obtain input from stakeholders in the health sector regarding the development of the connected curriculum structure on digital twin technology for strengthening health system resilience, both from the challenges that may be faced and the potential benefits in its implementation in the Indonesian workforce/health system.

D. Activity

An online workshop involving stakeholders from policy makers in the health sector, development teams, and health informatics observers.

E. Output

- O.1 Stakeholders understand about the digital twin curriculum that will be developed
- O.2 Obtain input from stakeholders in each part of the healthcare system



Contact Person:

Hanifah Wulandari (+6285740905335 or hanifahw94@gmail.com)

Gabi Ceria (+6285640270666)