

## Industry–Academia Collaborative Global Workshop for Social Issue Identification and Solution Design for Surabaya

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2021/10/23 ~2021/11/27	Japan	Institut Teknologi Sepuluh Nopember	<ul style="list-style-type: none"> <li>•Department of Planning, Architecture and Environmental Systems, Systems Engineering and Science</li> <li>•Undergraduate 3rd grade, Undergraduate 4th grade, Undergraduate 2nd grade, Master 1st grade</li> </ul>	(SIT) Students 11, Professor 5, Staff 2  (Tsuda University) Students 6  (Institut Teknologi Sepuluh Nopember) Students 24, Student Staff 4, Professor 6, Staff 2	NAKAMURA Hitosh (Department of Architecture and Environment Systems), ISHIZAKI Hiroyuki (Malaysia Office) IWATA Ttomoko (Department of Architecture and Environment Systems), MASUDA Yukihiko (Department of Architecture and Environment Systems), SUZUKI Shunji (Department of Architecture and Environment Systems)



Image1 New Crosswalk Design

This is a Global Project–Based Learning program with Sepuluh Nopember Institute of Technology (ITS), Indonesia, designed as an international industry–academia collaboration supported by IHI Corporation and its Asia Pacific regional subsidiary and liaison office. The scope of this program is to identify social issues of Surabaya, the 2nd largest city in Indonesia, design possible solutions, and propose future implementation. The online programs were conducted every Saturday morning from October 23 until November 27, 2021. Each of 8 groups consisted of 5–6 students of SIT, Tsuda University, and ITS.

Two groups were assigned to select one of the 4 topics: 1. Low Carbon Society: Dependency on Grid Electricity, 2. Smart Urban Mobility: Online Transportation System, 3. Infrastructure & City Planning: Infrastructure for People with Disability, and 4. Disaster Prevention: Flood Threats and Water Resilience. Each group identified critical problems to conduct situation analysis, issue identification, discussions about possible solutions, and presentations about the outcomes. For the situation analysis, 4 Surabaya City Authorities (Surabaya City Water Company, Surabaya City Council for Public Works, Surabaya City Council for Sanitation and Green Open Spaces, Surabaya City Council for Transportation) conducted an introductory lecture and a Q&A session. 8 IHI experts, 6 ITS lecturers, and 5 SIT lecturers joined the program to give advice to the students.

The two selected groups as a best performing team in the final presentation were invited to make a presentation at the GIT Consortium Symposium on December 9, 2021. Before starting the program, 4 preparatory workshops for the SIT and Tsuda university students were provided for the purpose of improving interactive English skills and developing useful knowledge.

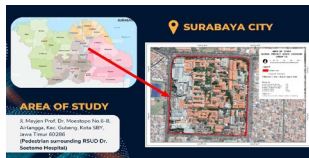


Image2 Study Area: Group 5



Image3 Critical Problems

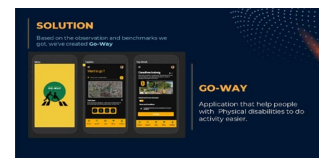


Image4 Application for the Disabled

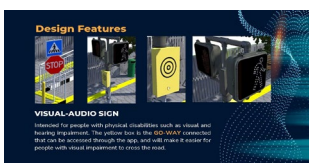


Image5 Visual Audio Sign

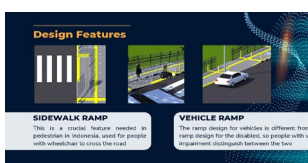


Image6 Sidewalk & Vehicle Ramp



Image7 Social Impact Assessment