

Geoscience education in Cambodia based on finely-detailed 3D miniature produced by rapid prototyping and projection mapping.

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In recent years, there are various environmental issues in Cambodia, such as deforestation, aerial pollution, land contamination and water pollution caused by rapid economic development. However, there are serious shortage of school teachers for environmental education in this Country. To solve this problem, we developed an educational program for environment and geology around the Mekong River at Regional Teacher Training Center (RTTC) in Kampong Cham. In this program, we provided 3D terrain miniature and mobile projection mapping system. As a first step, students learned about the overview of terrain and geology across the country by projection mapping. Subsequently, we taught about local terrain and geology using 3D miniature on the fieldwork. This educational project has been conducted under the subsidy of Japan International Cooperation Foundation, Imai Overseas Cooperation Fund and Japan Fund for Global Environment.

Keywords: Cambodia, RTTC, Geoscience education, 3D miniature, Rapid prototyping, Projection mapping