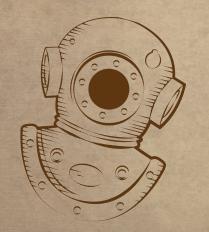
Digital Database and Visualization of Borobudur Maritime Landscape and Japan-Indonesia Maritime Connection

Fadjar I. Thufail



Collaboration:

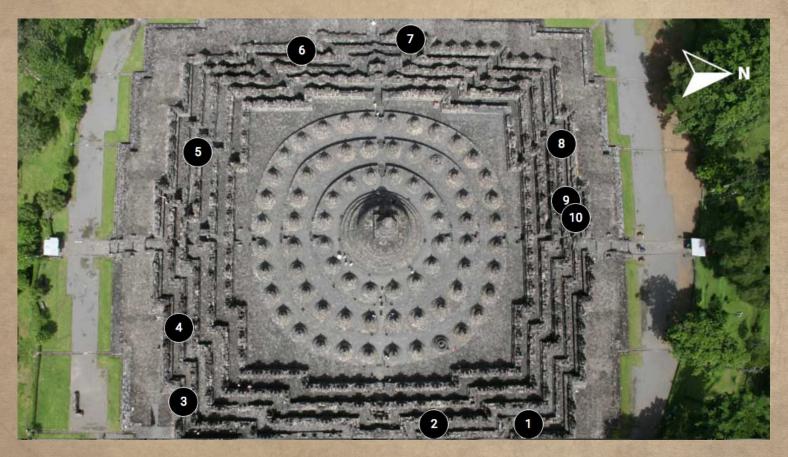
- Indonesian Institute of Sciences
- ARC Ritsumeikan
- Yogyakarta Archaeological Office
- Borobudur Conservation Office



ARC Days, Ritsumeikan University, July 31, 2021

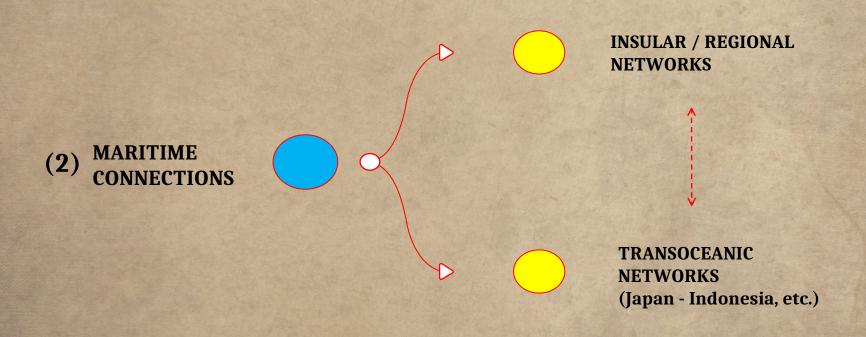


(1) BOROBUDUR MARITIME LANDSCAPE



© Balai Konservasi Borobudur

At least 10 relief panels depicting boats and ships

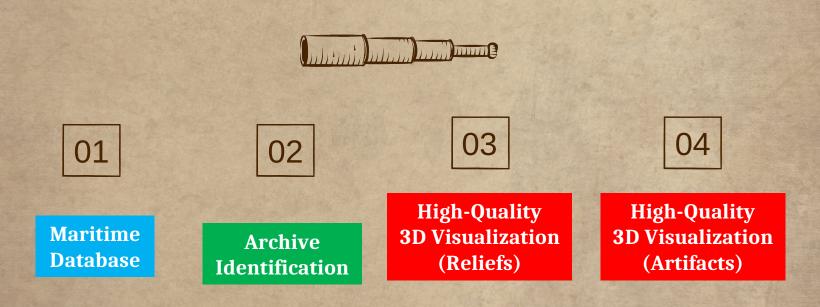


DESCRIPTIONS OF THE RESEARCH

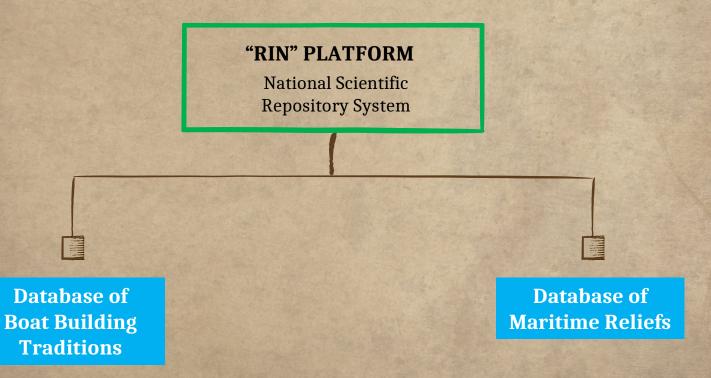
Project Objectives

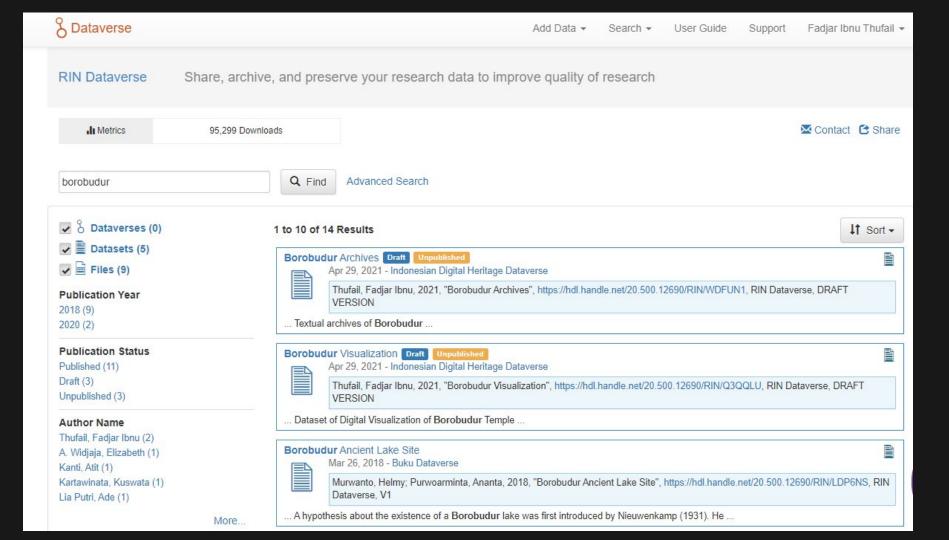
- 1) create digital database to store digitized data of the 9th-17th C maritime landscape in Indonesia
 - 2) identifying digital archives of the ancient Japan-Indonesia transoceanic relation
- 3) 3D visualization of maritime transportation and marine ecologies as depicted on temple reliefs (close-range photogrammetry)

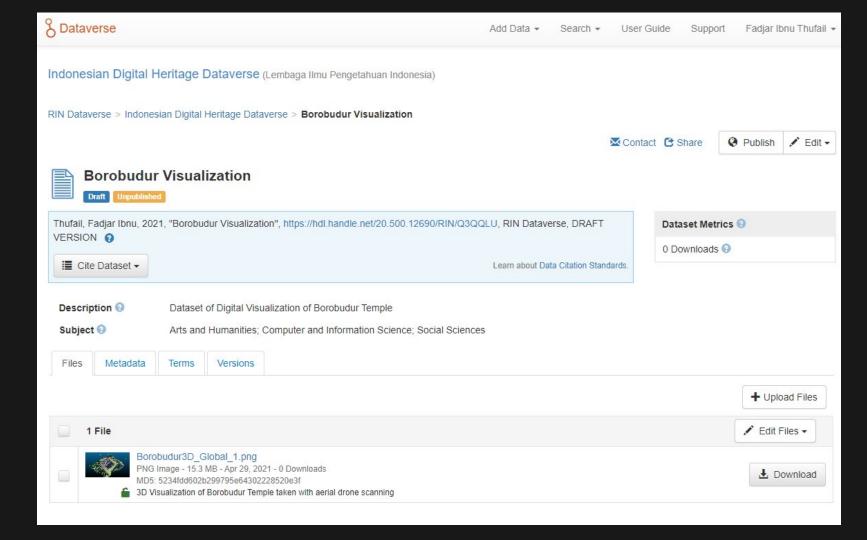
RESEARCH TARGETS / OUTPUTS



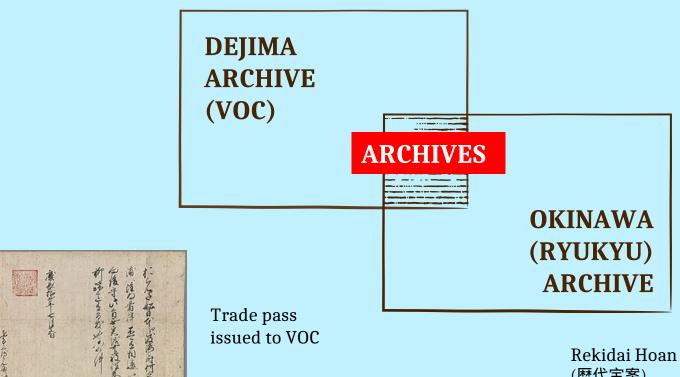
DATABASE FRAMEWORKS







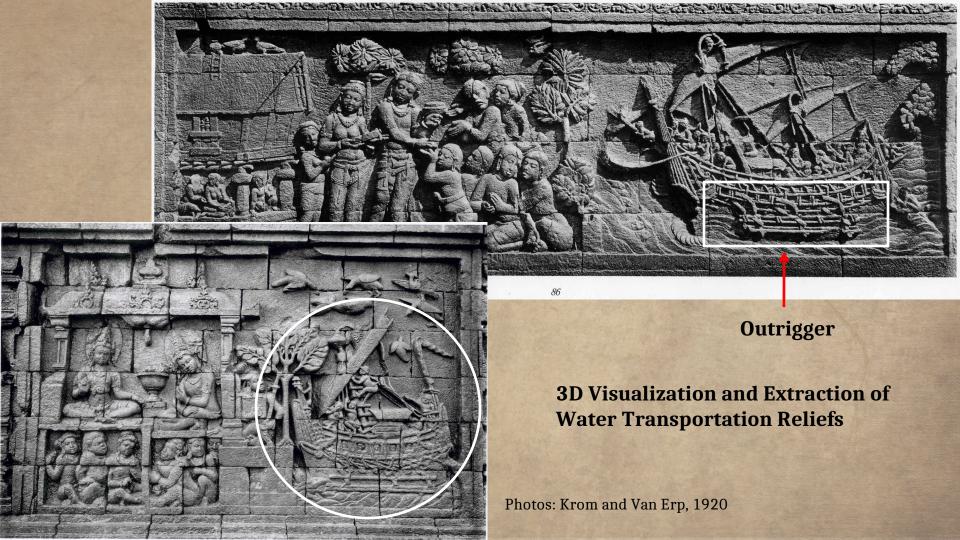
DATABASE CATEGORIES



(歴代宝案)



© Wikipedia

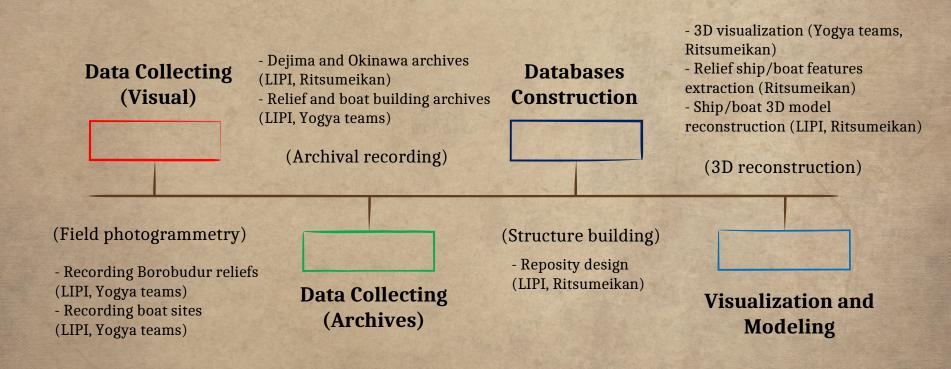


Punjulharjo Boat

Lashed-lug technique, commonly found in Southeast Asian boatbuilding technique

3D Visualization and Model Reconstruction of Boat-building Technology

RESEARCH PROCESS AND COLLABORATION





Can be

implemented

PROBLEM / CONSTRAINT

Affected by Covid

03 **High-Quality High-Quality** Maritime 3D Visualization 3D Visualization **Archive Database** (Reliefs) (Artifacts) **Identification**

Partly

affected by Covid

