



TOHOKU UNIVERSITY

Seismic Evaluation, Retrofitting of RC Buildings with Masonry infill

Performance Control System Laboratory (Maeda Lab)

BACKGROUND



Dhaka City of Bangladesh



Rana Plaza Collapsed in Dhaka, 2013

- Large stock of Vulnerable buildings need to be strengthened for seismic or other disastrous events.

Joint Research Project SATREPS-TSUIB

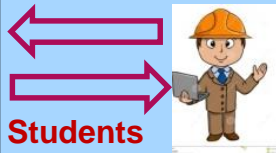


BANGLADESH

BUET
AUST
UAP
HBRI
PWD



Young Researcher



Students

Research & Development

Experienced Practitioners



JAPAN



University of TOKYO



TOHOKU University



OSAKA University



JICA-JST



MAEDA LAB, Tohoku University

RESEARCH WORK

Seismic Evaluation

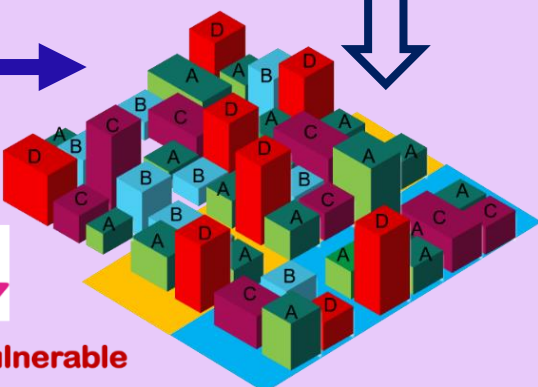


Building Stock of Dhaka City

Priority Setting

Grade/Rating

A
B
C
D → Vulnerable



Seismic Retrofitting



Masonry Wall in Building



FERROCEMENT
Steel wire mesh embedded in Mortar



1st Mortar layer



2nd Mortar layer

Steel Wire-mesh