

Y. NAKANO LAB.

[Safer Buildings against Earthquakes and Tsunamis]

Department of Fundamental Engineering

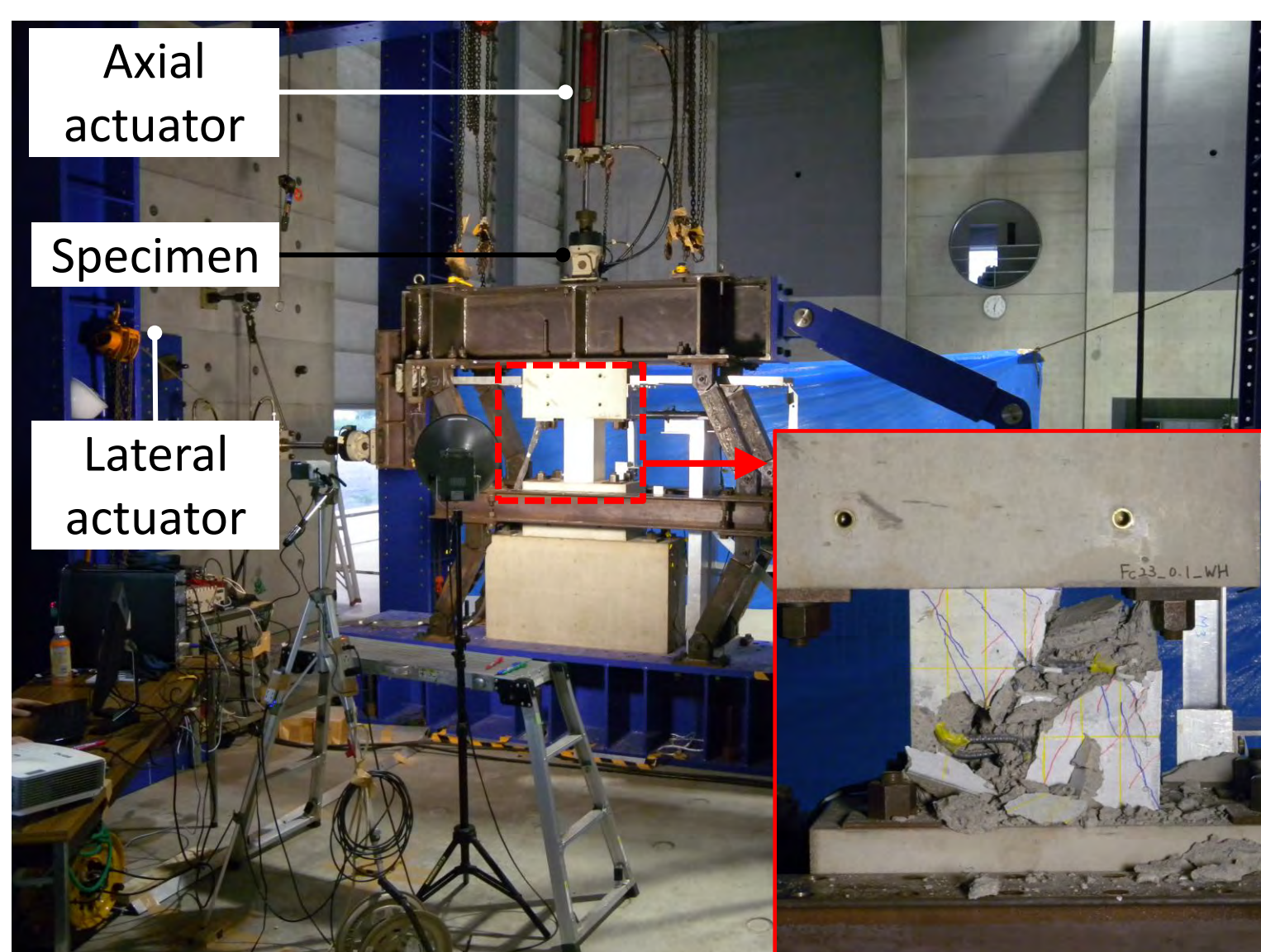
Earthquake Engineering & Structural Dynamics

Department of Architecture

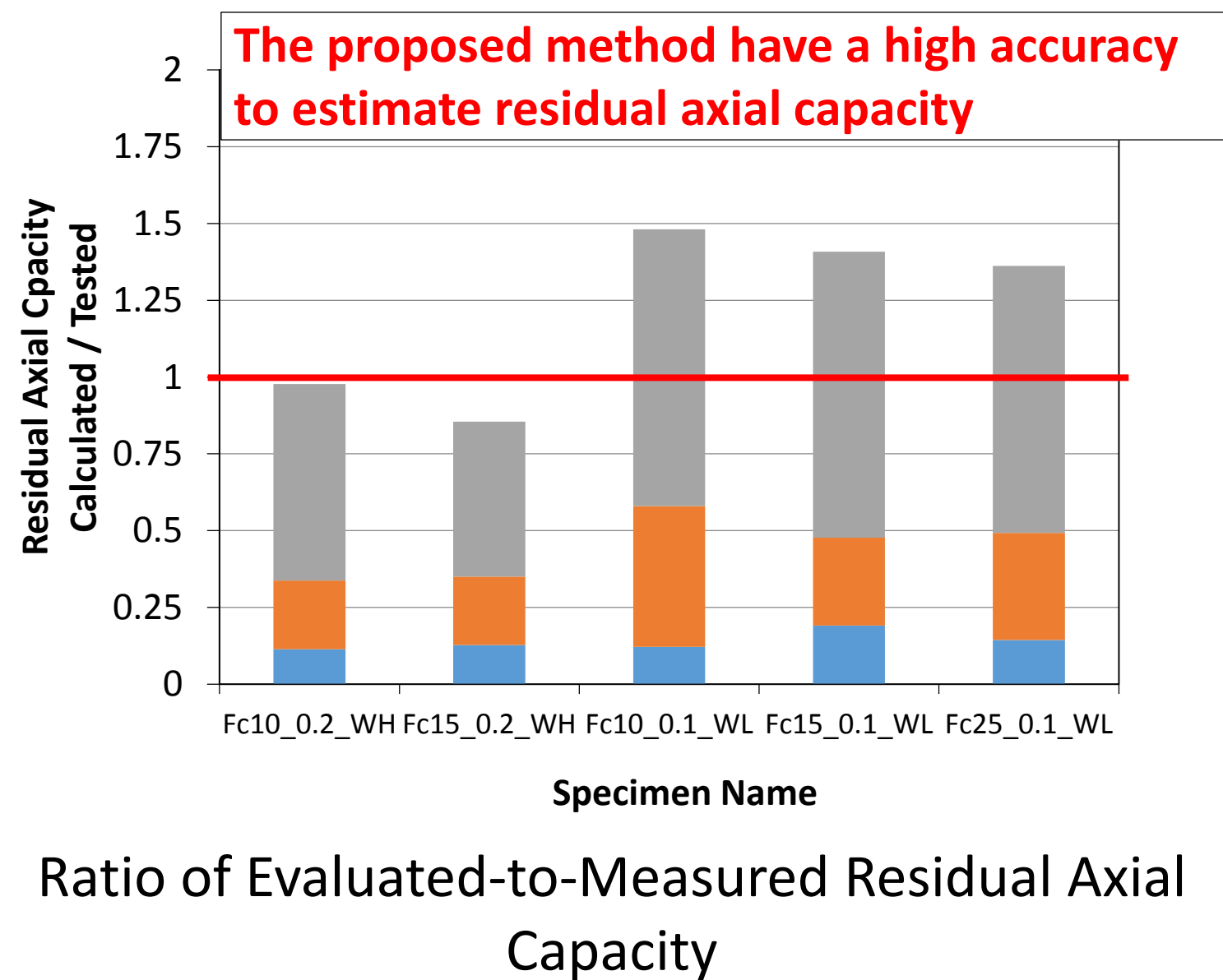
<http://sismo.iis.u-tokyo.ac.jp/>

Seismic Performance Evaluation of Reinforced Concrete Building Structures

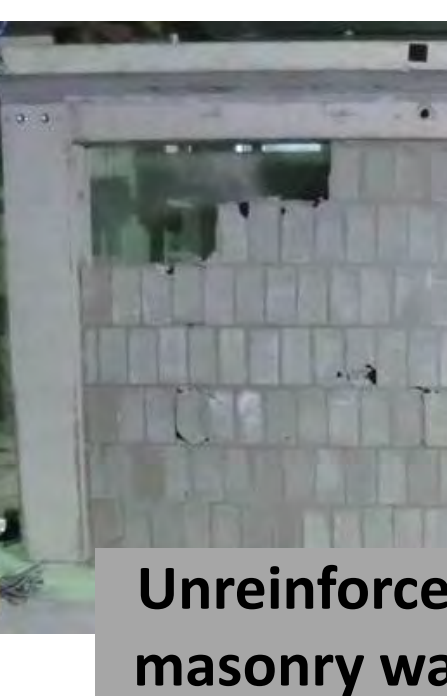
- MEMBERS: Evaluation of Residual Axial Capacity of Shear Damaged RC Columns
- SUB-ASSEMBLAGE: Out-of-plane Behavior Evaluation of Masonry Wall Infilled RC Frames
- OVERALL STRUCTURE: Response Evaluation Method of Buildings due to Waterborne Debris Impact Load
- INTERNATIONAL COOPERATION: Project for Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities



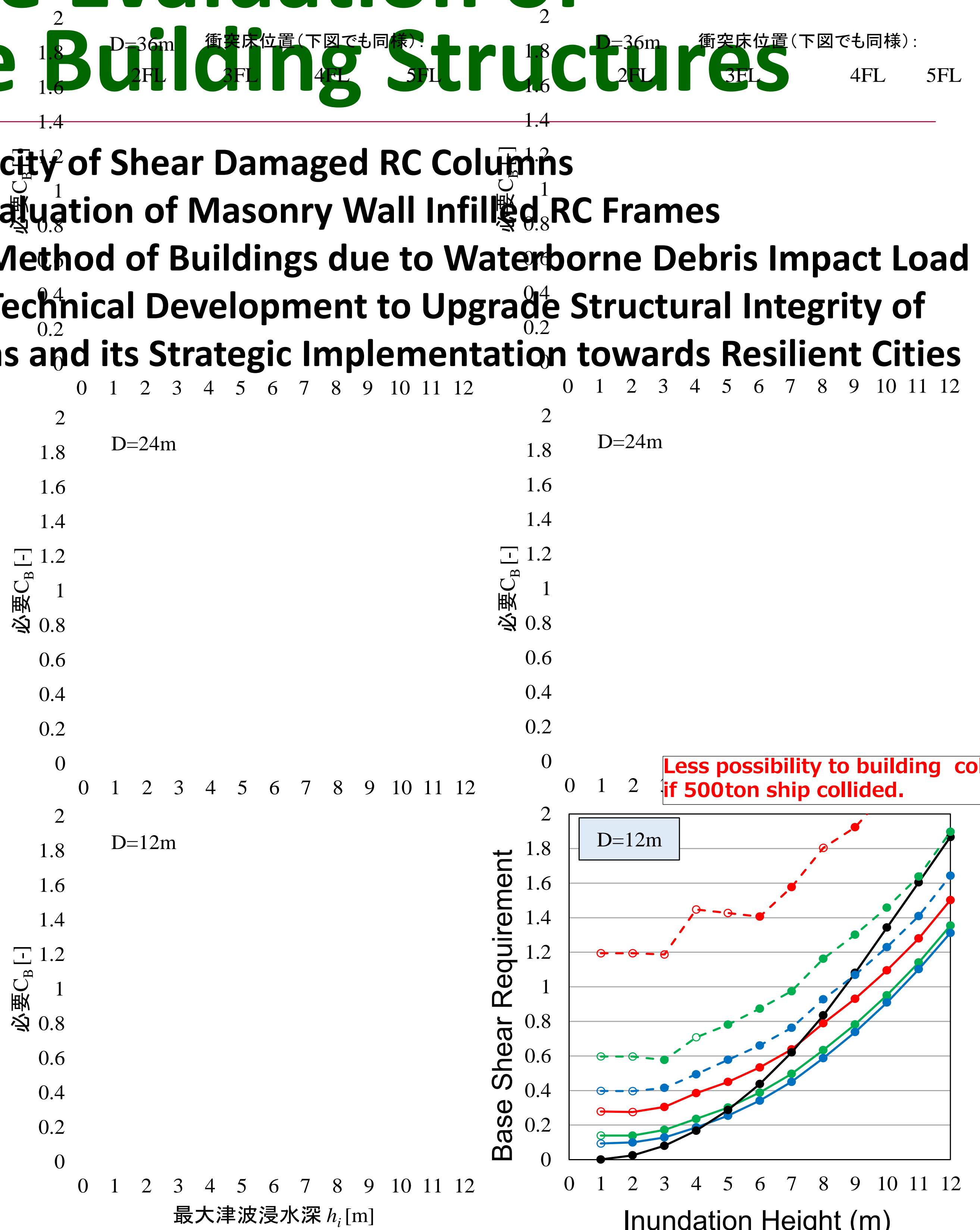
Test Setup & Specimen after Axial Failure



Test Setu



Damage to Masonry Wall with/without Reinforcement



Base Shear Requirement according to tonnage of ships (solid : 500ton, dotted : 4000ton)

Science and Technology Research Partnership for Sustainable Development (SATREPS)

Project for Technical Development to Upgrade Structural Integrity of Buildings in Densely Populated Urban Areas and its Strategic Implementation towards Resilient Cities

Joint Research Group

Japan

- IIS, The Univ. of Tokyo
- Tohoku Univ.
- Osaka Univ. etc.



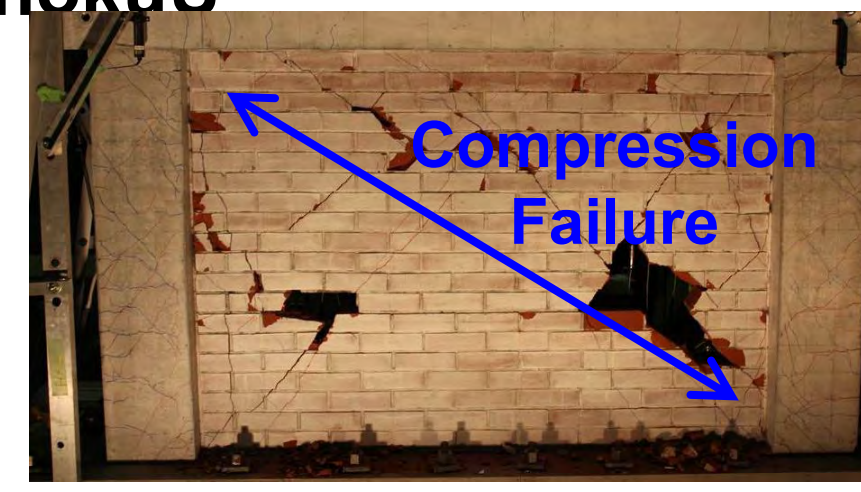
Bangladeshi Representative

- Housing and Building Research Institute
- Public Works Depart.
- Univ. of Asia Pacific etc.

Testing on RC frame with masonry in fill wall @TohokuU



Weak Column Frame



Strong Column Frame

Application on Non-destructive test method in Dhaka



Testing on RC column@BUET



Technologies for enhancing structural resilience of buildings in Dhaka and their effective implementation schemes are proposed.