NAGAI LAB.

[Infrastructure Technology and Management]



Infrastructure Management for Developed Society

Civil Engineering Department

http://www.nagai.iis.u-tokyo.ac.jp/

Anchorage Performance of RC

As Japanese seismic design code is becoming more strict, lager amount of reinforcement must be placed in Reinforced Concrete (RC) structures at the joint part.



Problems

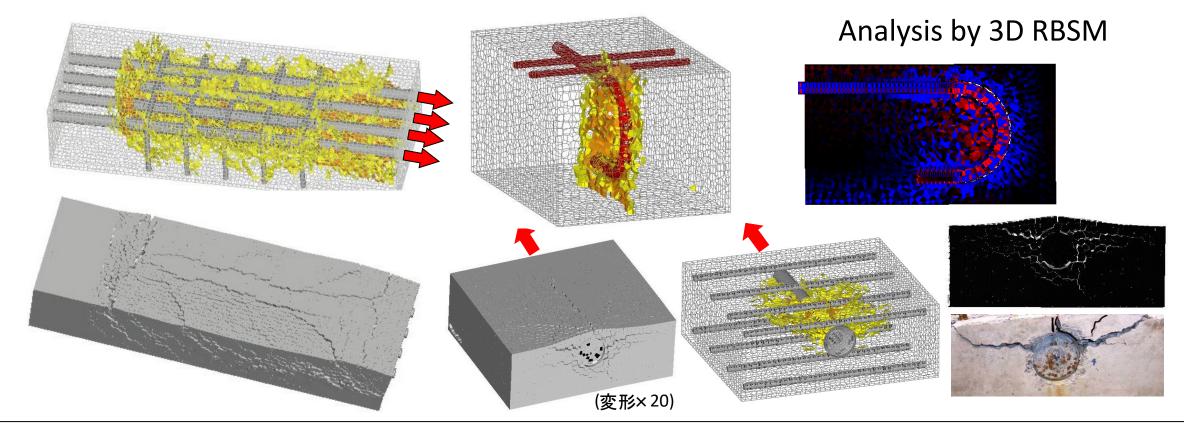
Increase the fabrication time

Poor concrete compaction may occur.

Stress condition in complex reinforcement arrangement

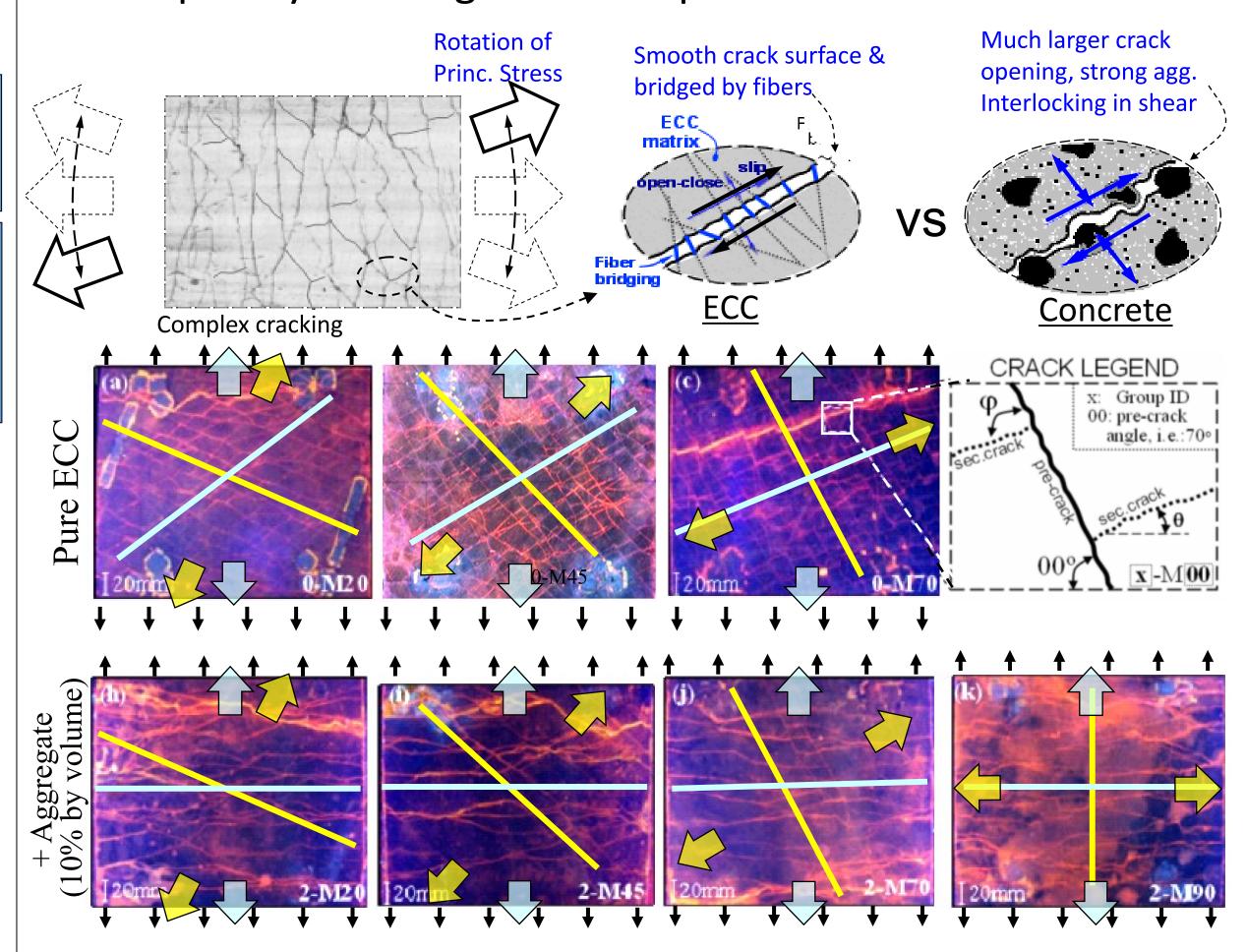
Numerical simulation can clarify

We aim to propose the rational design code



Mechanics of Fiber Reinforced Concrete under Principal Stress Rotation

Robust material against the principal stress rotation is developed by focusing the shear performance.

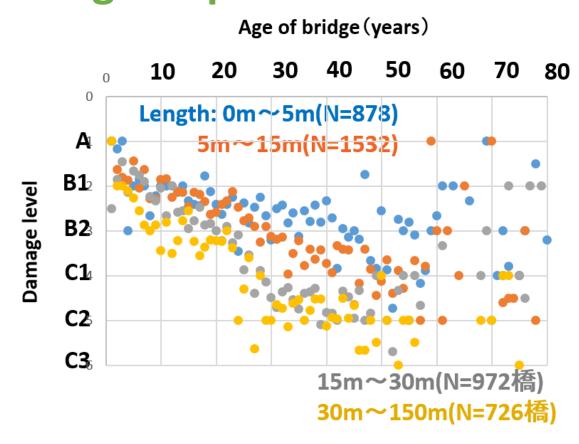


Control of cracking direction of HPFRCC

Infrastructure Management for Municipalities in Japan

Japan faces a problem of aging of infrastructure. Especially in municipalities, lack of human resources, technology and budget are pointed out.
Rational maintenance system required.

Analysis of bridge inspection data



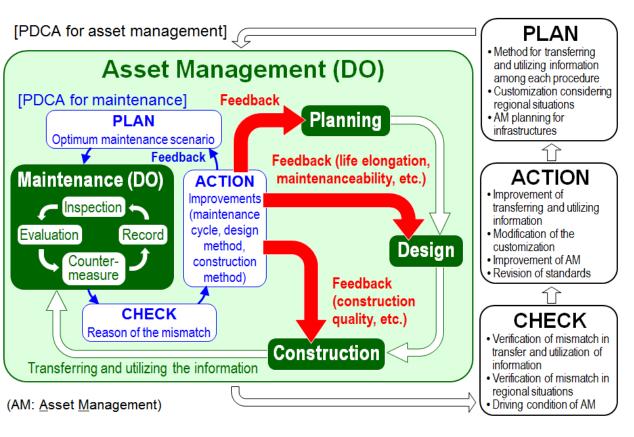
Calculation of roundabout route

Indexation analysis of



International Expansion of Infrastructure Management

Asset management cycle





Seminar and demonstration of inspection (Thailand, Vietnam, Cambodia etc.)







