

KISHI LAB.

[Physical properties of concrete and durability of concrete structure]

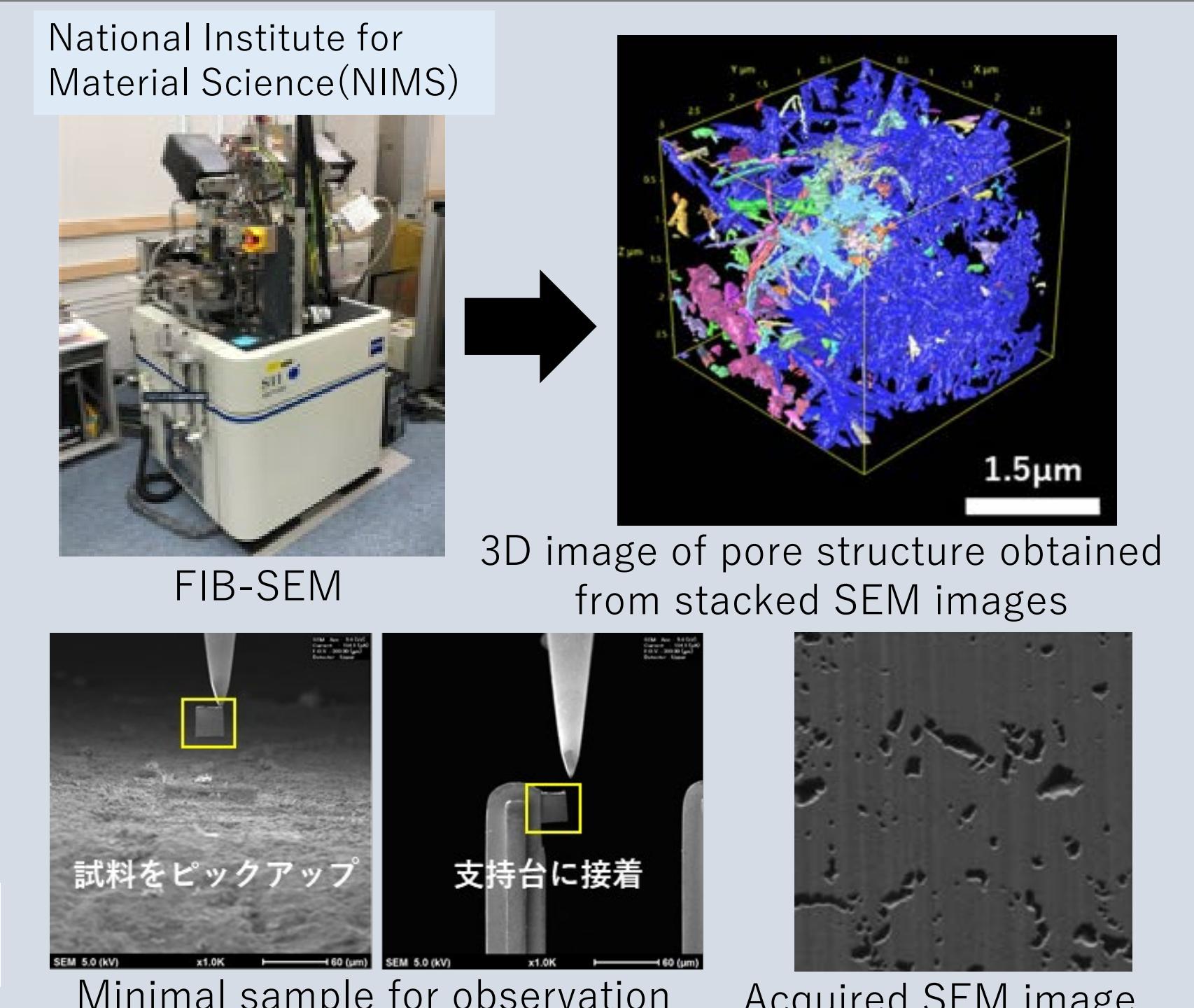
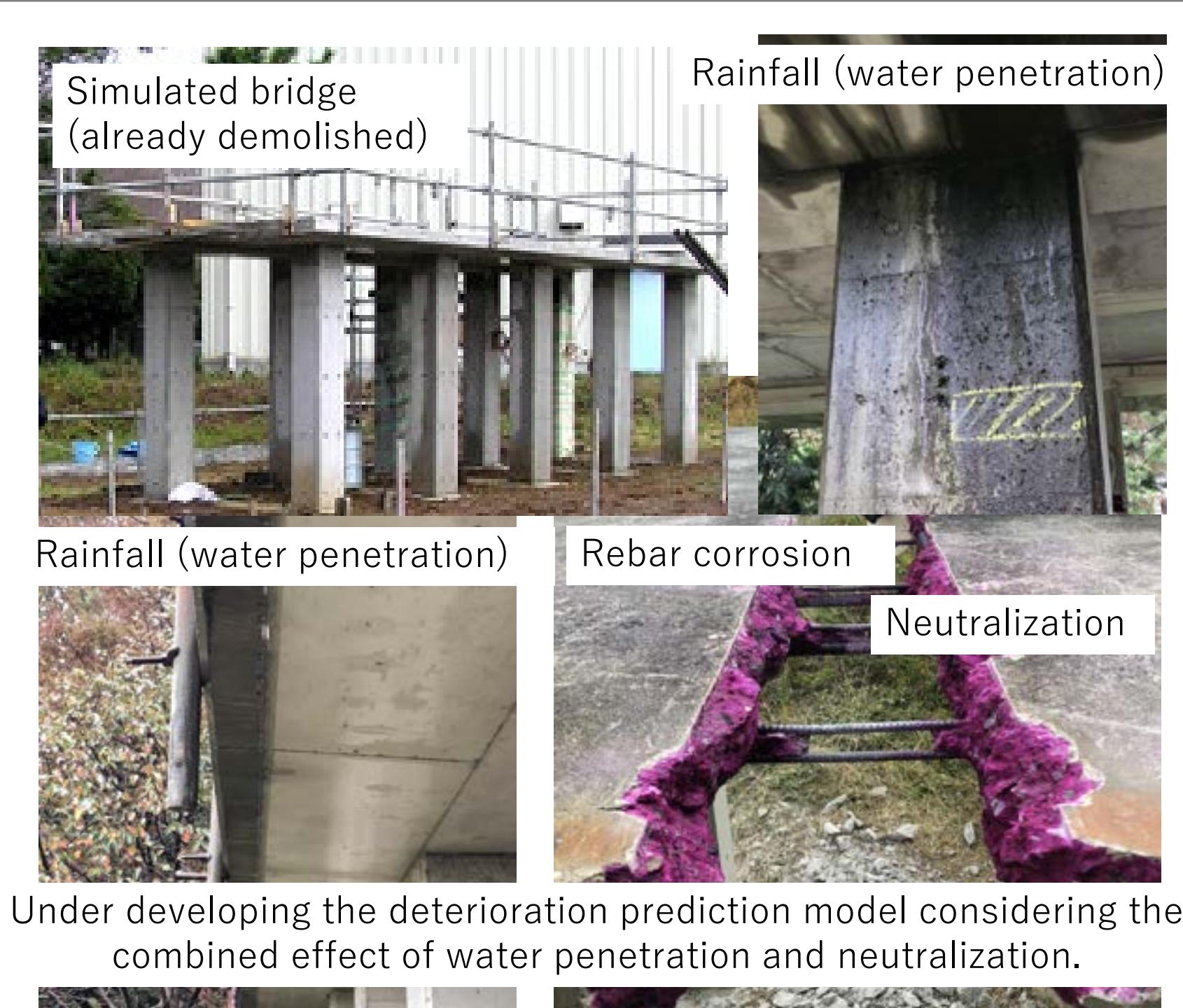
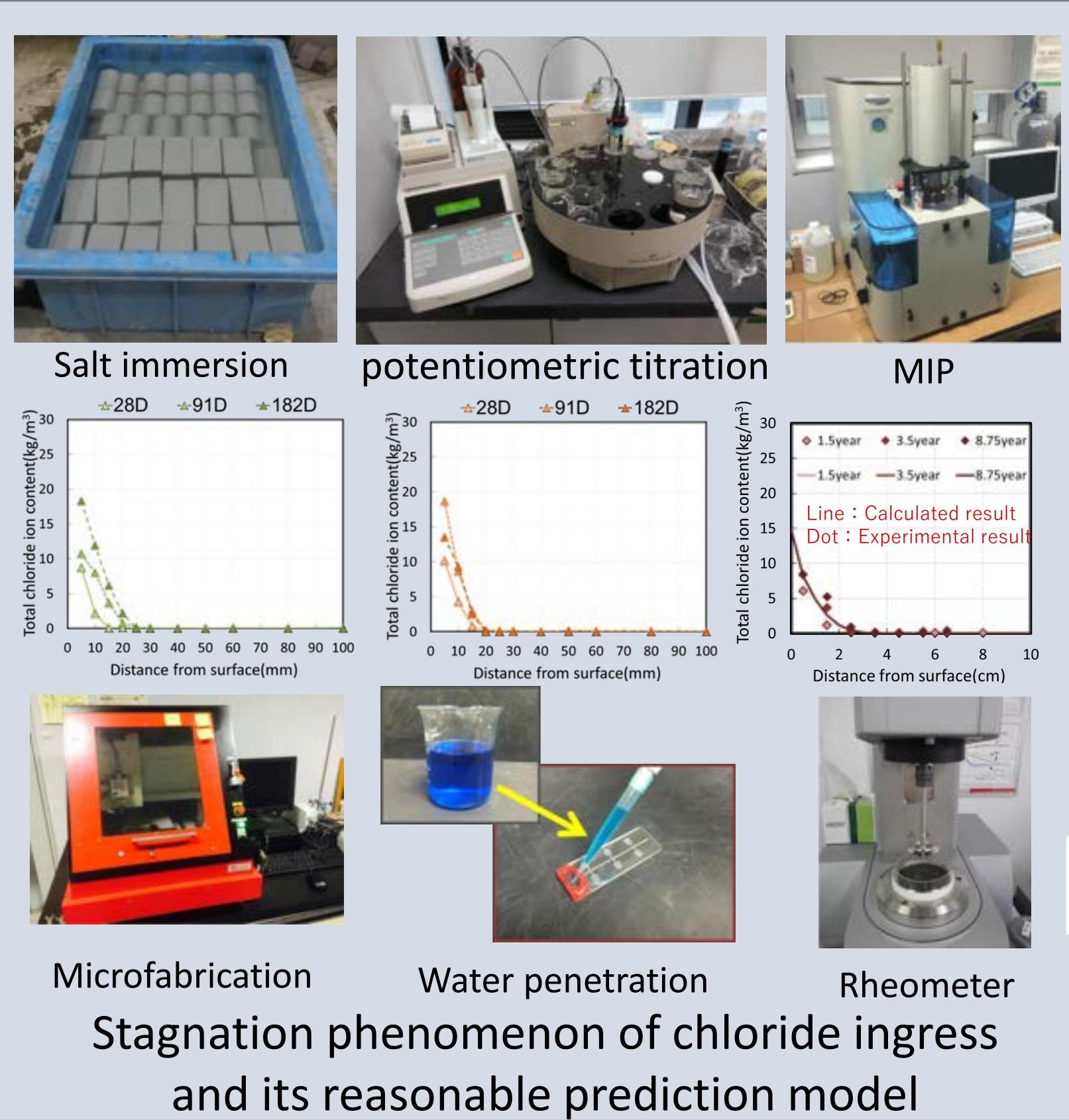


Department of Human & Social Systems
Concrete & Recycling Engineering

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We research on (1) physical property, performance assessment, deterioration mechanism of cementitious materials, (2) development and practical application of new material and (3) quality inspection / maintenance of concrete structure.

- Stagnation mechanism of chloride ingress and its reasonable prediction model
- New maintenance design frame based on combination evaluation of liquid water penetration and neutralization (carbonation)
- Regularity of flow based on velocity profiles in coaxial cylinders
- Mechanism of water flow reduction due to the existence of air-water interface in crack
- Evaluation on the property of mass transfer based on 3D information of pore structure
- Development of self-healing technology of concrete crack



Evaluation on the property of mass transfer based on 3D information of pore structure

