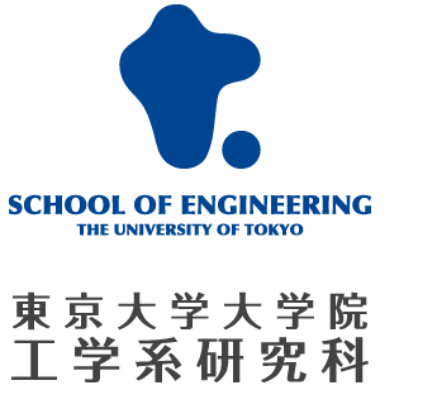




東京大学
生産技術研究所
Institute of Industrial Science,
The University of Tokyo

KISHI LAB.



東京大学大学院
工学系研究科

[Property of material concrete and durability of concrete structure]

Institute of Industrial Science

Department of Human & Social Systems

Concrete & Recycling Engineering

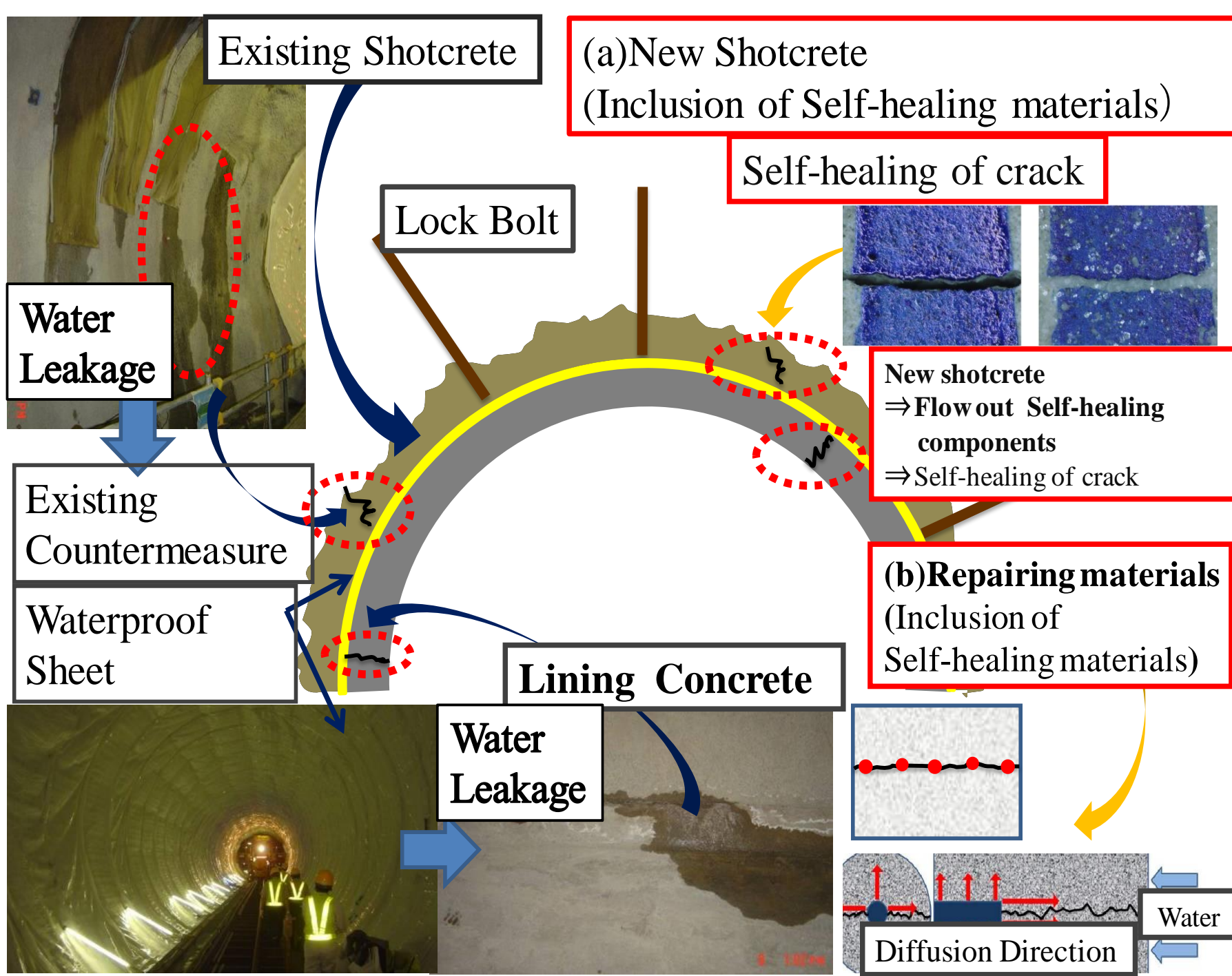
http://wdnsword.iis.u-tokyo.ac.jp/index_e.shtml

Dept. of Civil Eng.

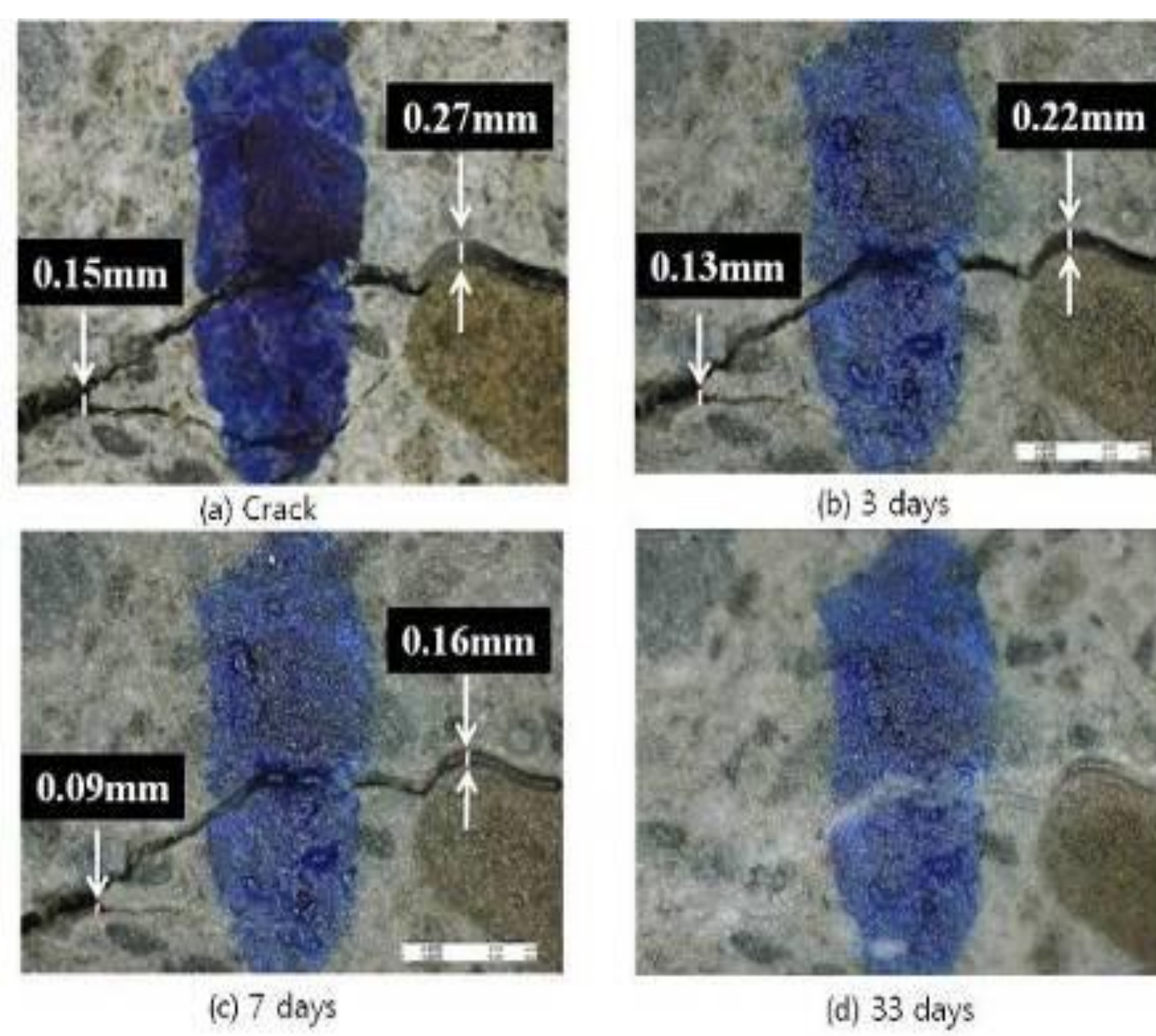
Property and durability of concrete

Kishi laboratory undertake research on (1) cement-based material resolving its physical property, performance assessment, development and practical application of new material and (2) quality inspection / maintenance of concrete structure.

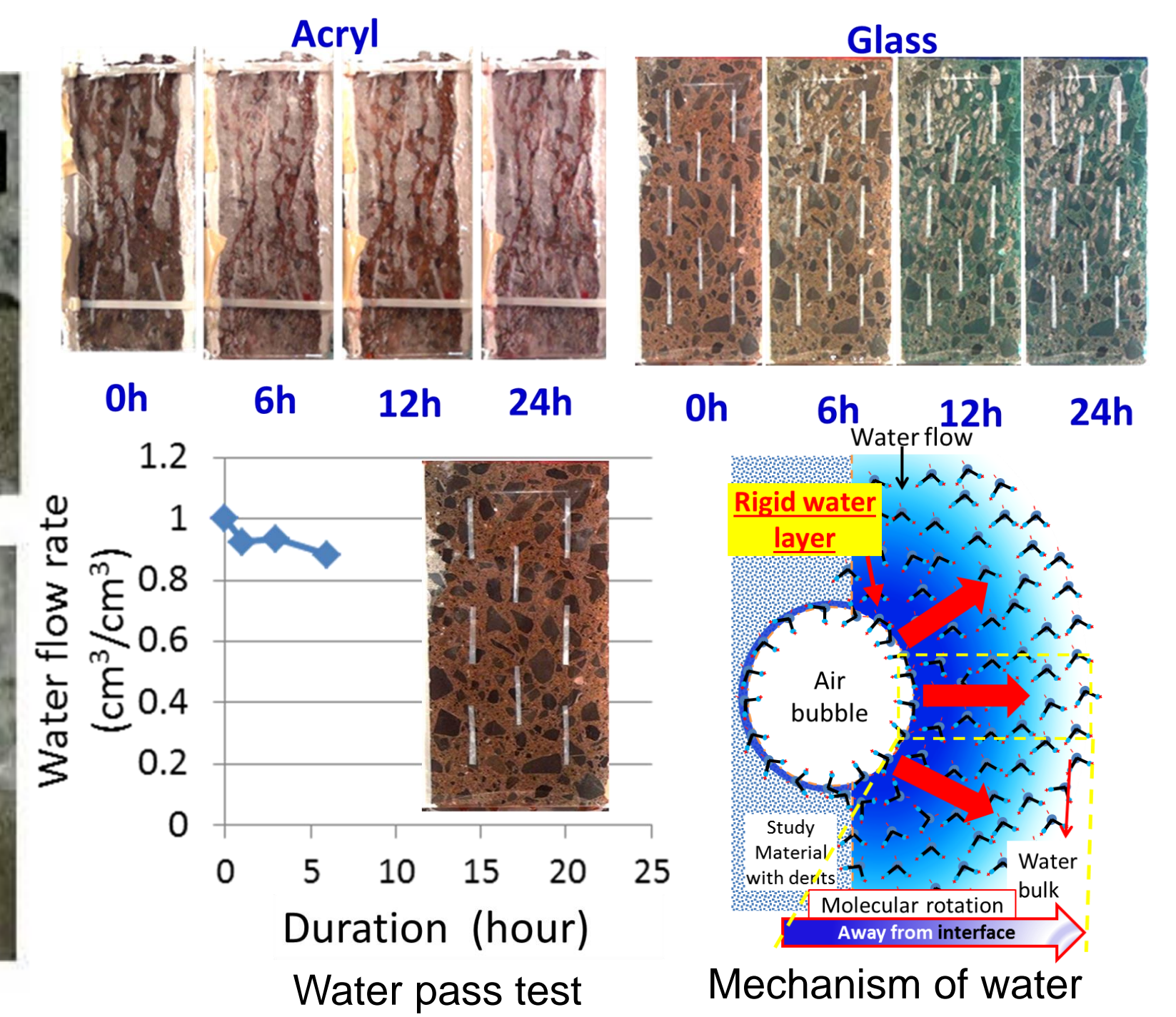
- ◆ A study on new evaluation method of salt penetration that can be considered stagnation and continuation of advection and diffusion
- ◆ A study on new durability design frame that is based on evaluation of liquid water penetration as alternative to neutralization
- ◆ Study on Regularity of flow and flow curve based on velocity profiles in coaxial cylinders
- ◆ A study on mechanism of water flow reduction due to air bubble generation in crack
- ◆ Development of simplified evaluation method of concrete surface quality
- ◆ Development of self-healing technology of concrete crack



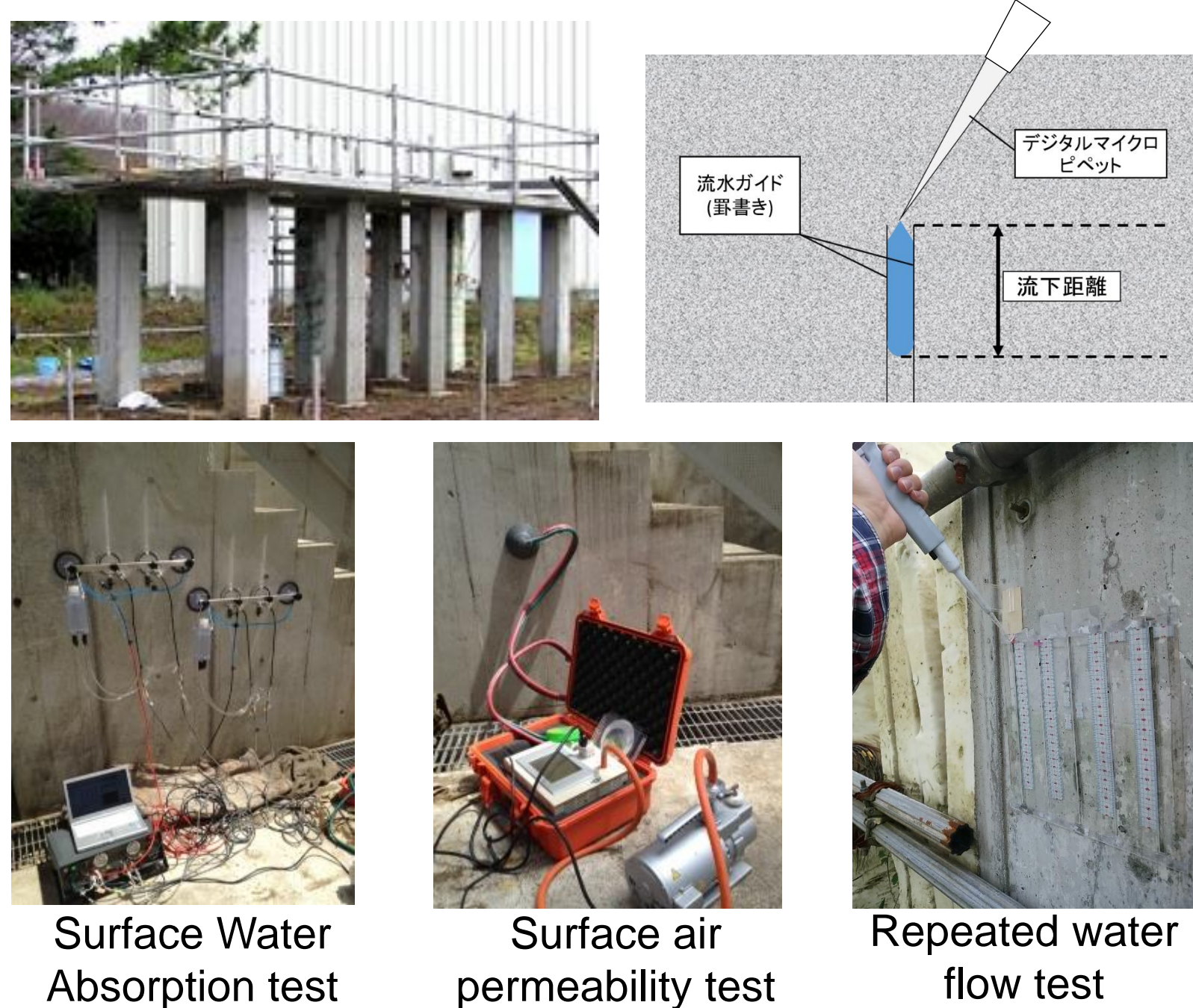
Application of self-healing concrete for water leakage of underground infrastructures as tunnels



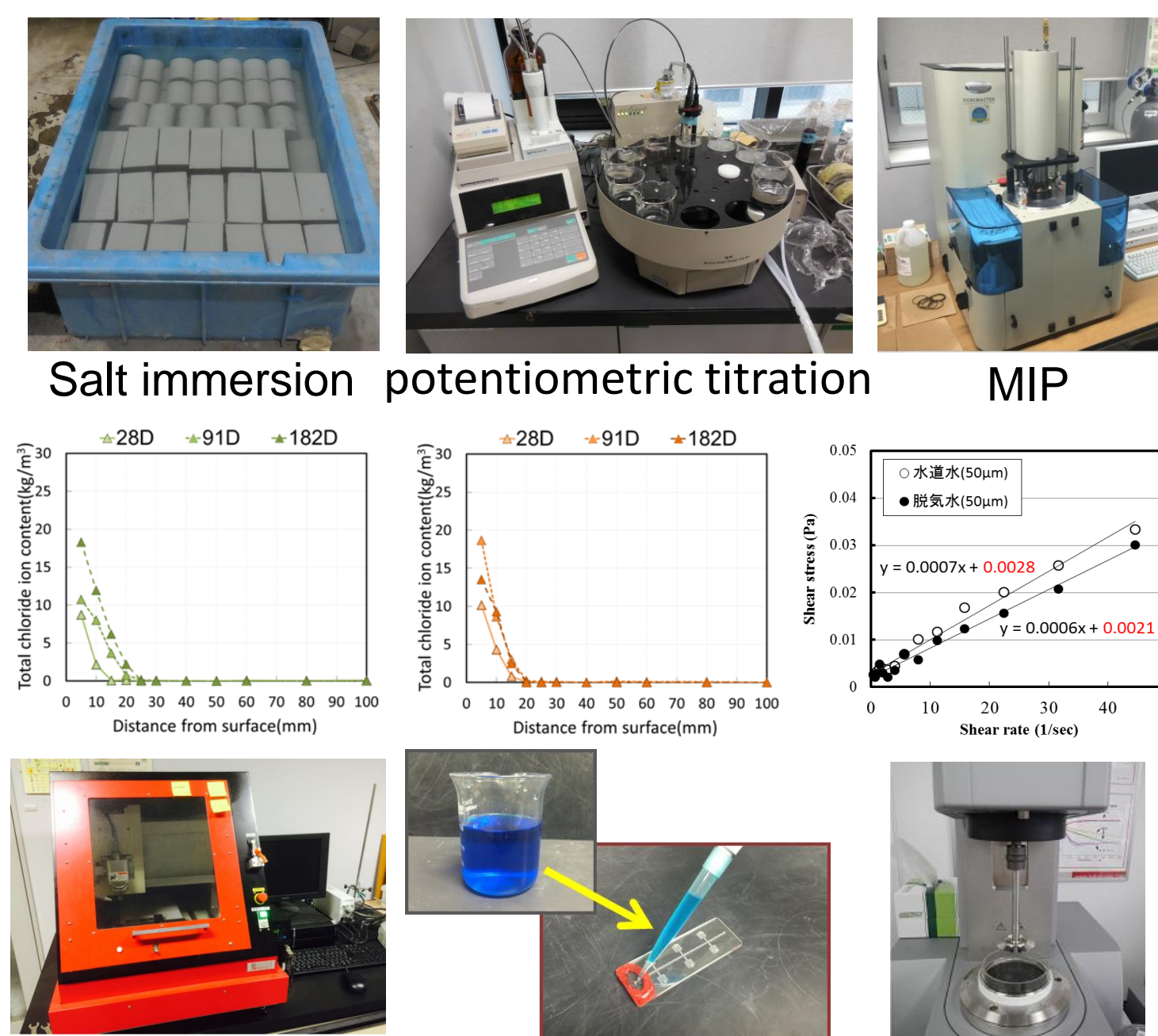
Self-healing process of self-healing concrete



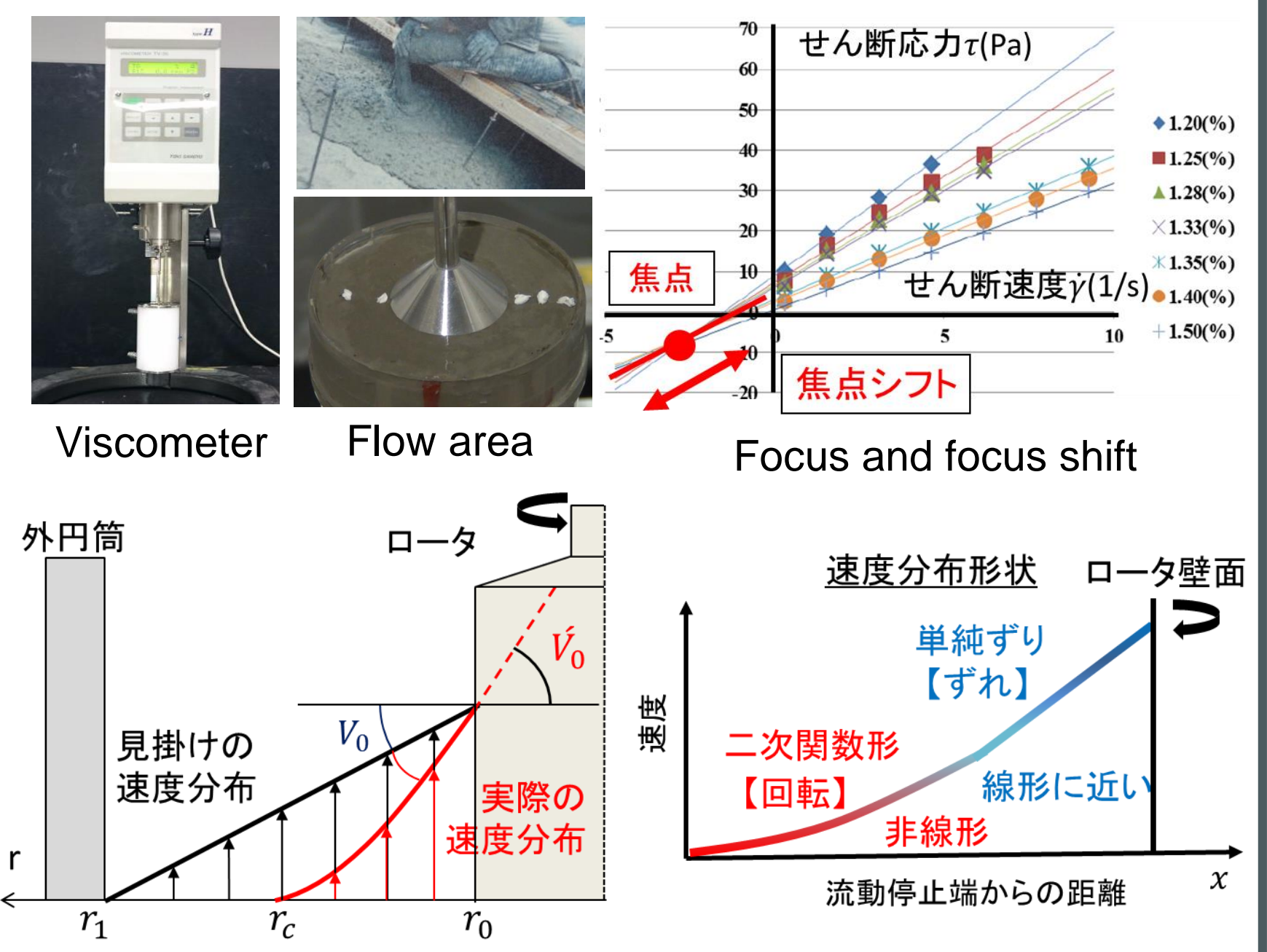
Water flow reduction due to generation of air bubble



Evaluation of concrete surface quality



Stagnation phenomenon of salt ingress



Study on flow curve and regularity of flow

