Use the resistivity to study the location and dynamic distribution of moisture in concrete



Background

- The actual service life of concrete buildings less than the expected life.
- The aged population is currently at its highest level in human history.
- Lake of natural resources.

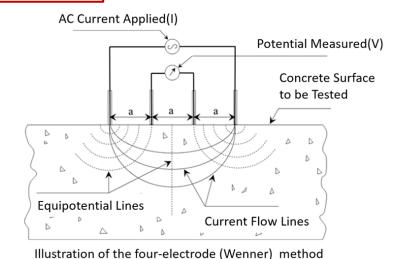
Moisture is the key cause of deterioration



Repairing existing buildings is important.

- 1. Water exists in concrete in many forms.
- 2. Water and chloride ions present in the pore structure.
- 3. Chloride ions ingress into concrete through pores with water.
- 4. Pore structure is continuously developed and changed.

Purpose



Position of moisture
Resistivity of concrete



Predict the starting of deterioration