### SILENT & UNSEEN

COASTAL HISTORIC WATER INFRASTRUCTURE STEWARDSHIP IN THE FACE OF SEA LEVEL RISE PRACTICAL SOLUTIONS - STRUCTURAL ADAPTATIONS PANEL





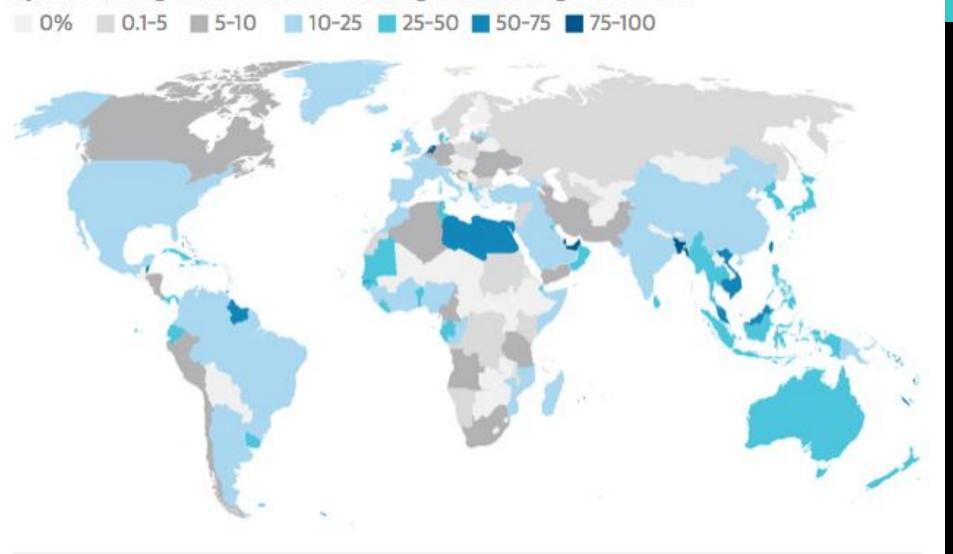


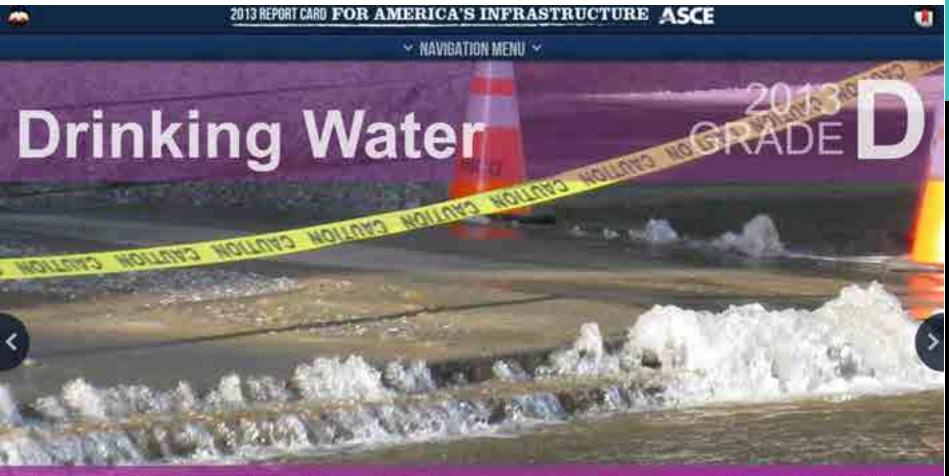




#### Populations at risk

Percentage of national populations who live in places that will be drowned by a rise in long-term sea levels – even if global warming is held at 2C





At the dawn of the 21st century, much of our drinking water infrastructure is nearing the end of its useful life. There are an estimated 240,000 water main breaks per year in the United States.

Assuming every pipe would need to be replaced, the cost ever the coming decades could reach more than \$1 trillion, according to the American Water Works Association (AWWA). The quality of drinking water in the United States remains universally high, however. Even though pipes and mains are frequently more than 100 years old and in need of replacement, outbreaks of disease attributable to drinking water are rare.

A = Exceptions

E = Good

C = Medicors

b = Poor

F = Failing

D+

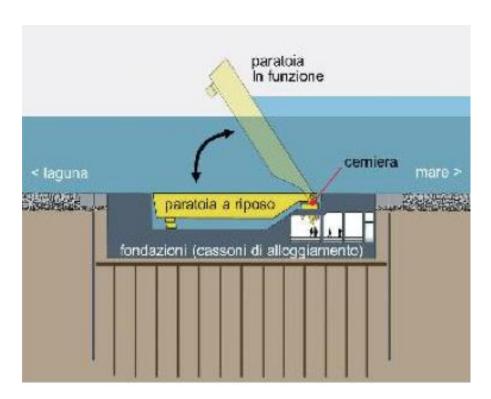
## LARGE PROTECTIVE ENGINEERED PROJECTS











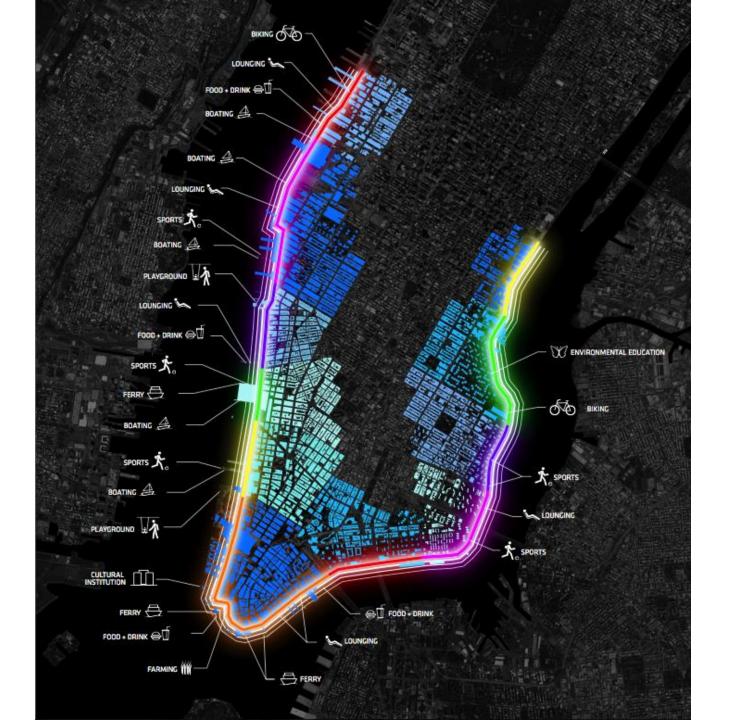








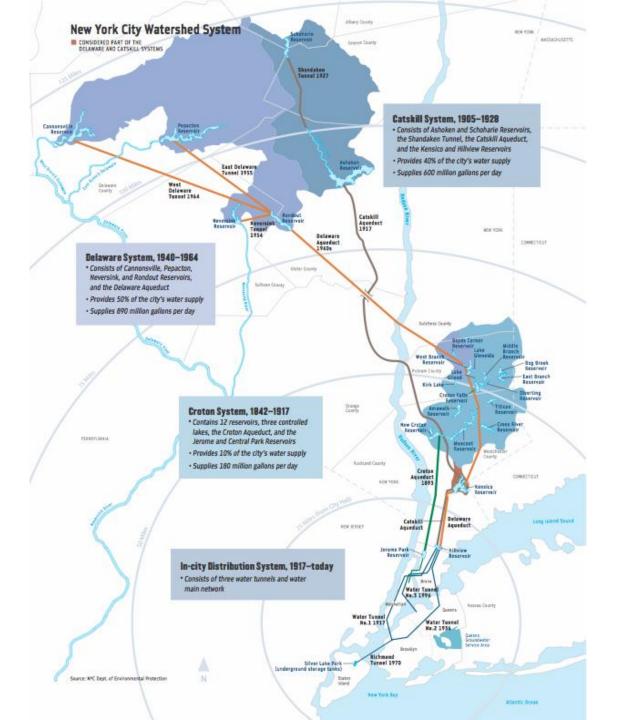








# MITIGATION, ADAPTATION & SUSTAINABILITY UPGRADES

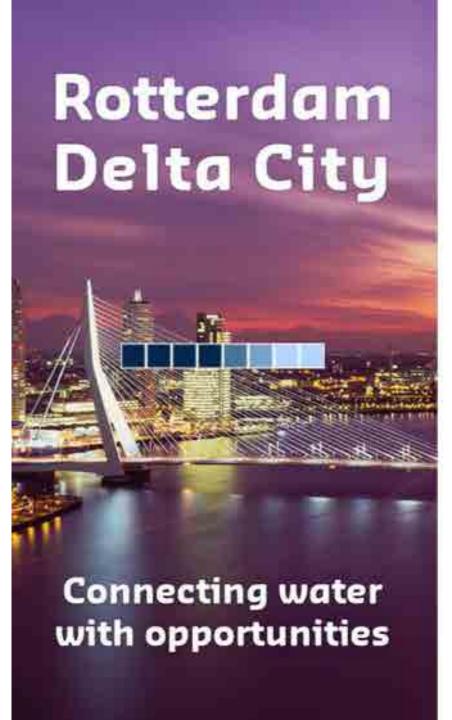














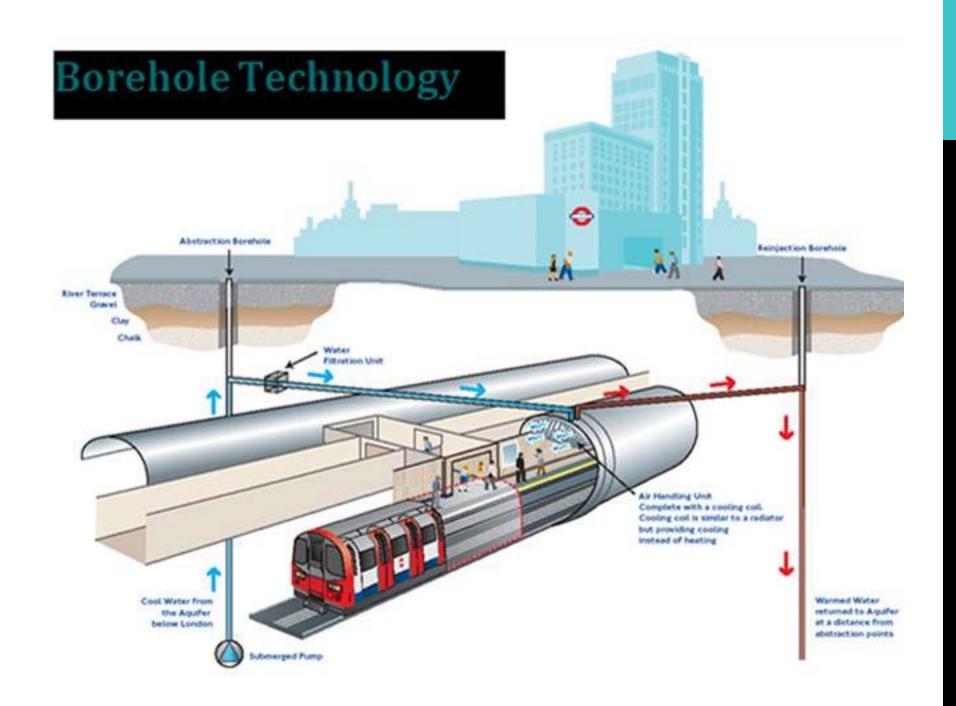


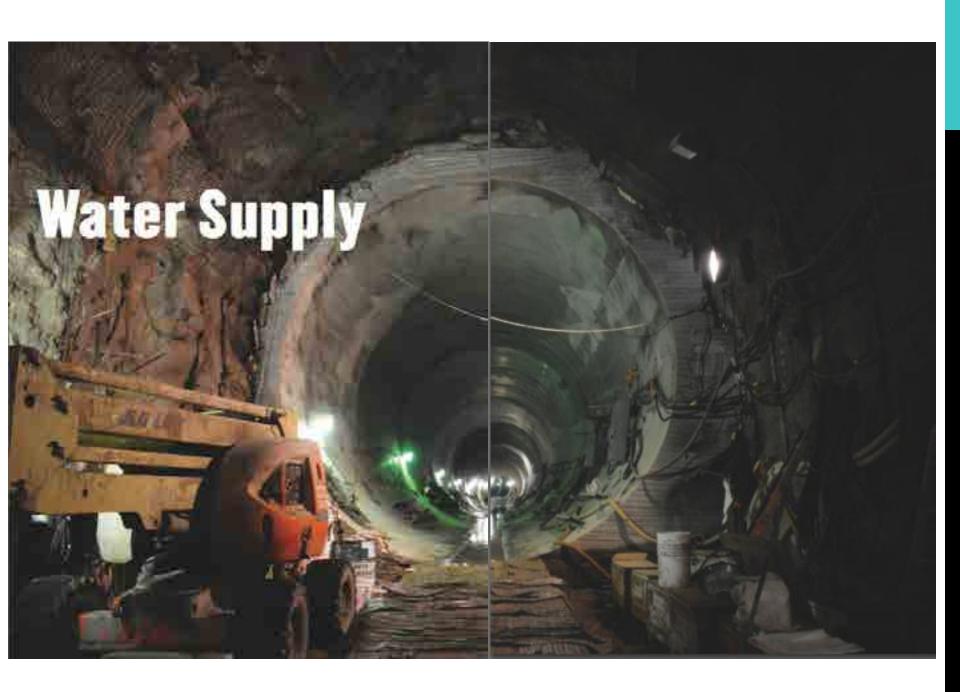












### REHABILITATION

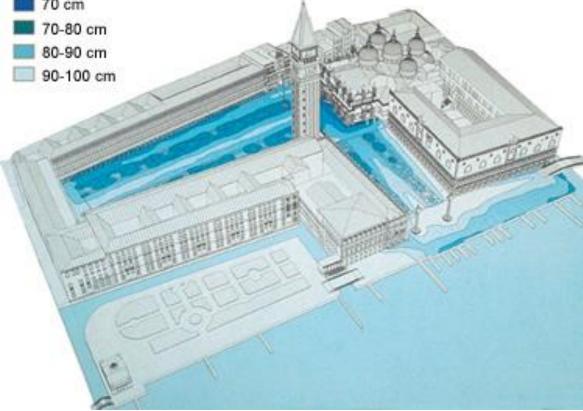


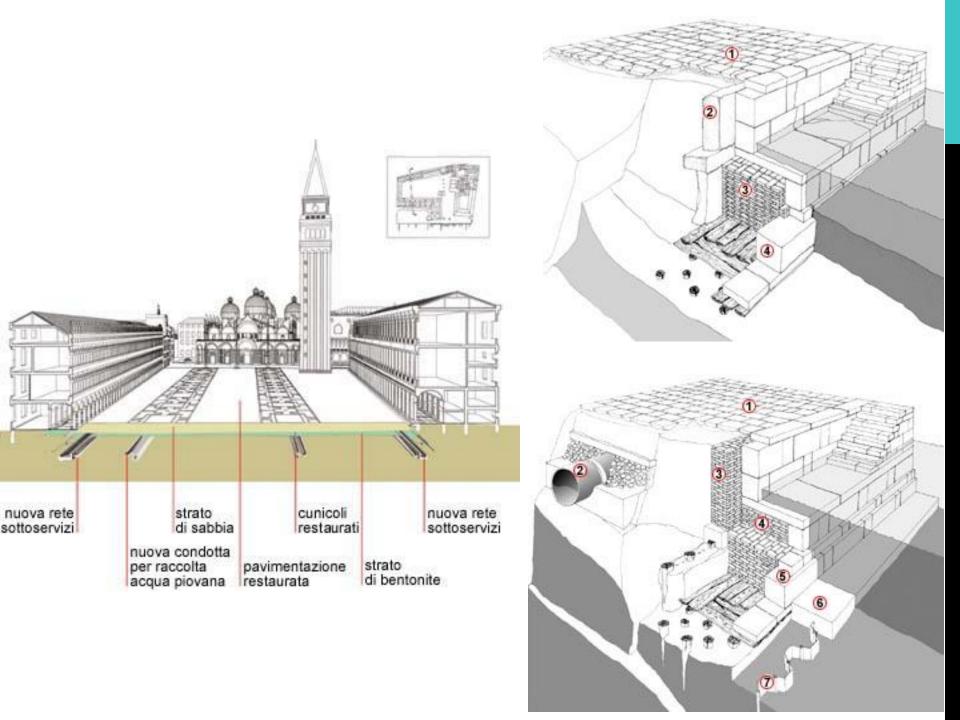












### **ADAPTIVE USE**

