



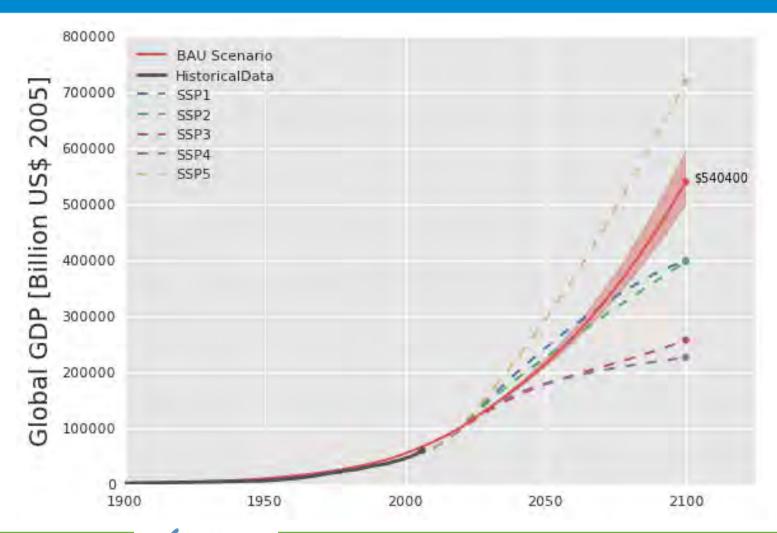


Sea level rise



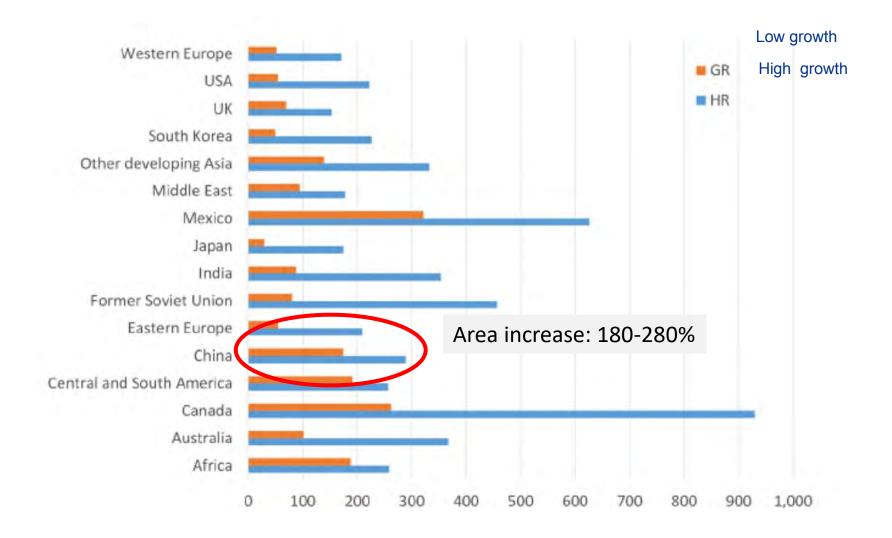


Socio economic trends





Response ports to growth: increase area

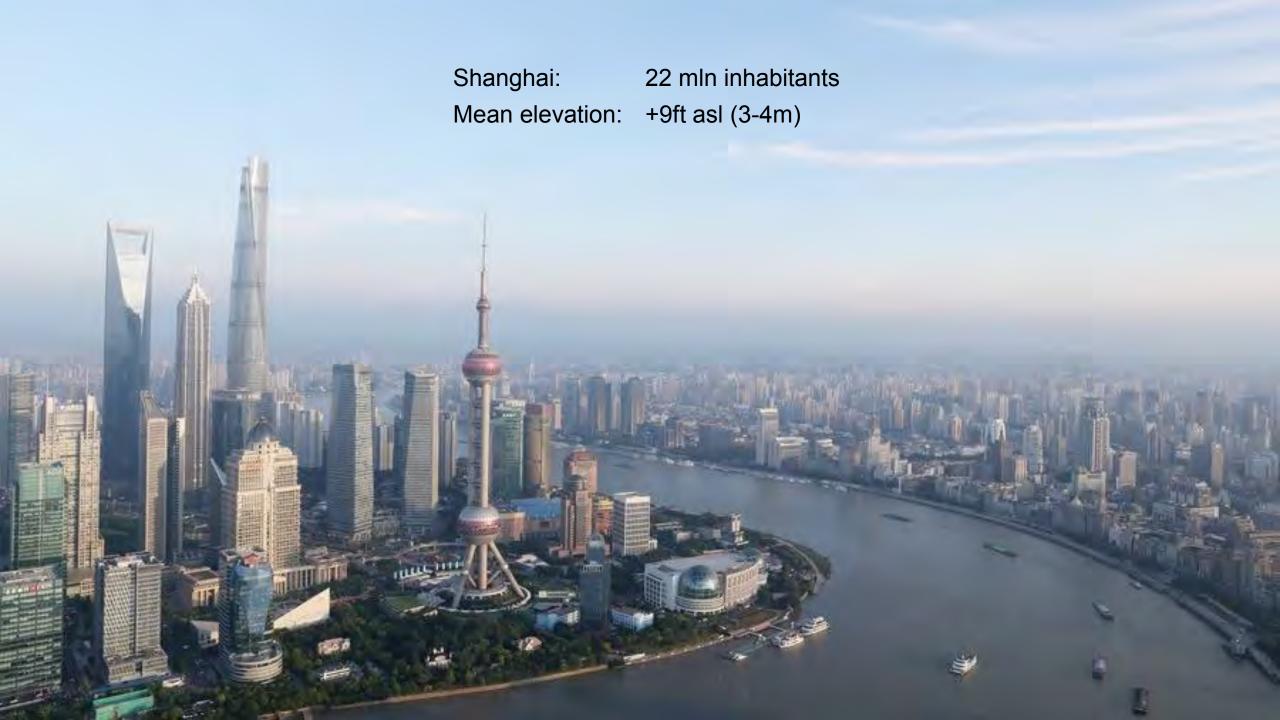




Total investment cost 2050 for all global ports: \$223-768bn

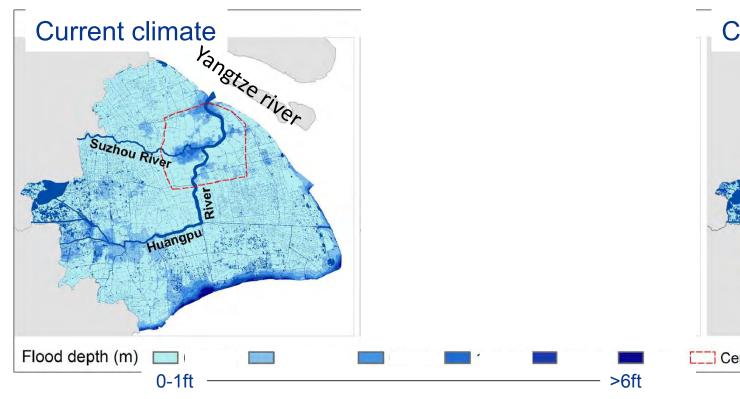
Most of these costs are for new areas

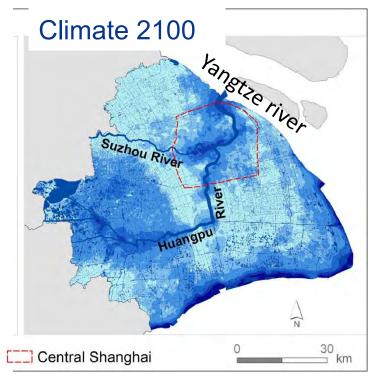
6% of the cost are needed for climate/SLR adaptation





Risk assessment



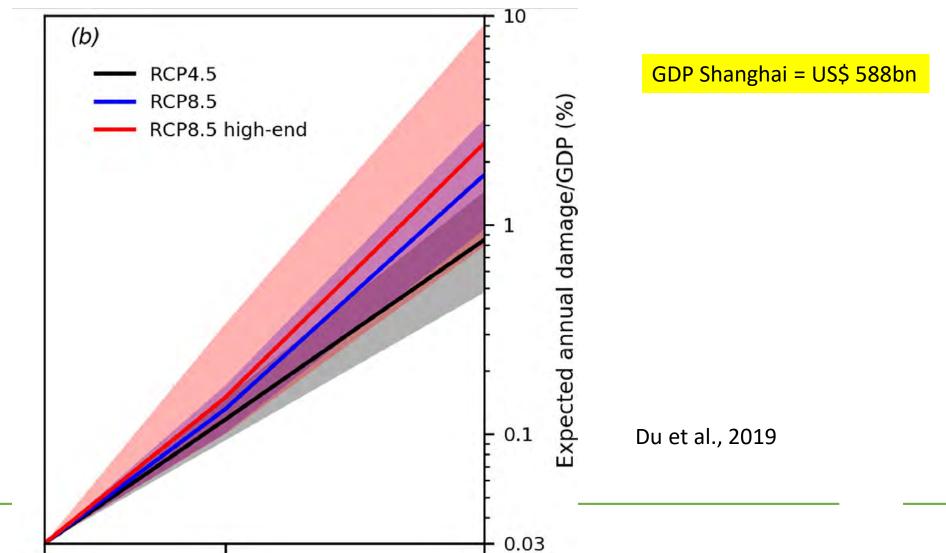


Du et al., 2019





Projected flood losses 2050-2100



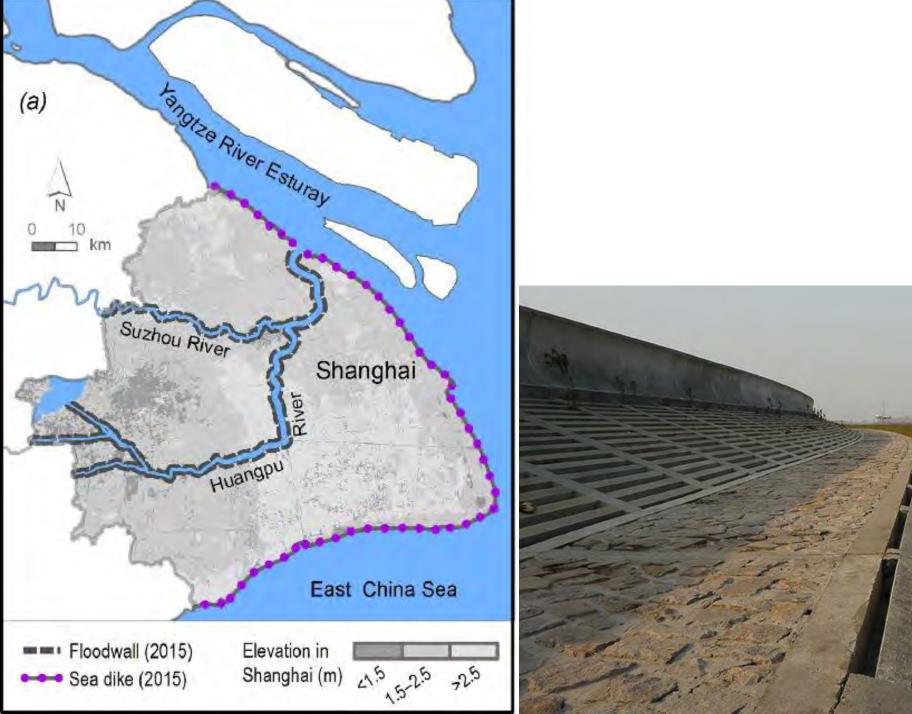


Flood Proofing Buildings

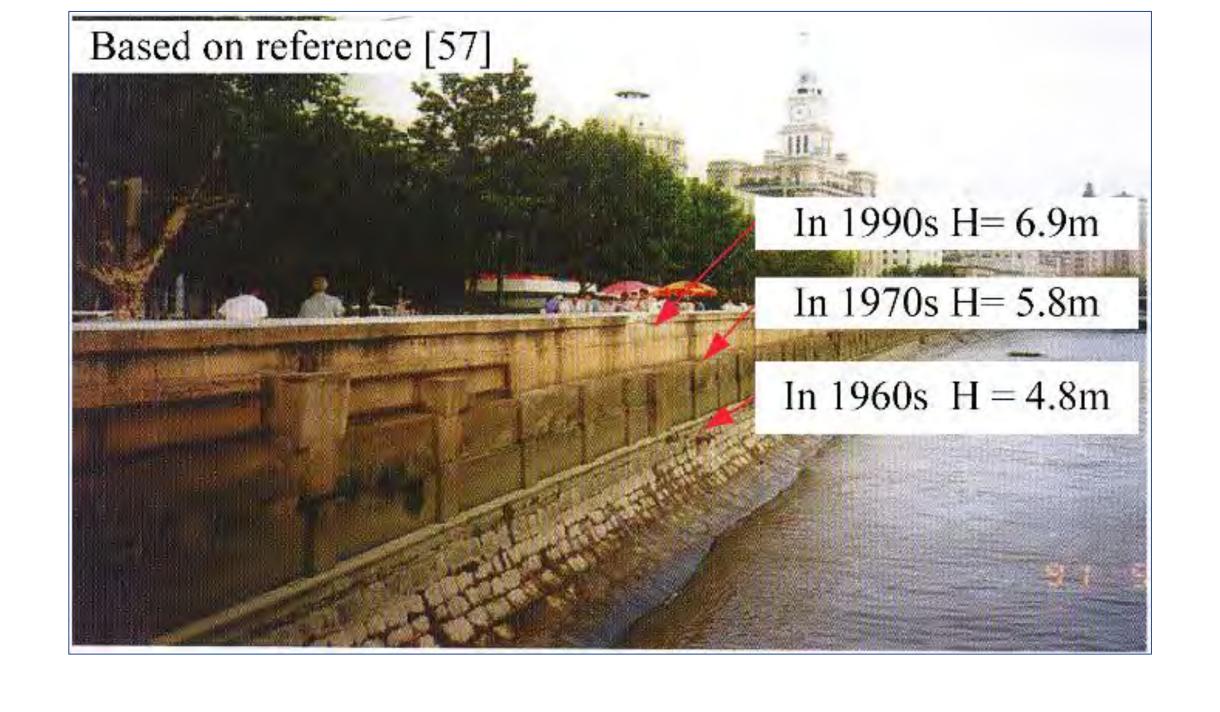


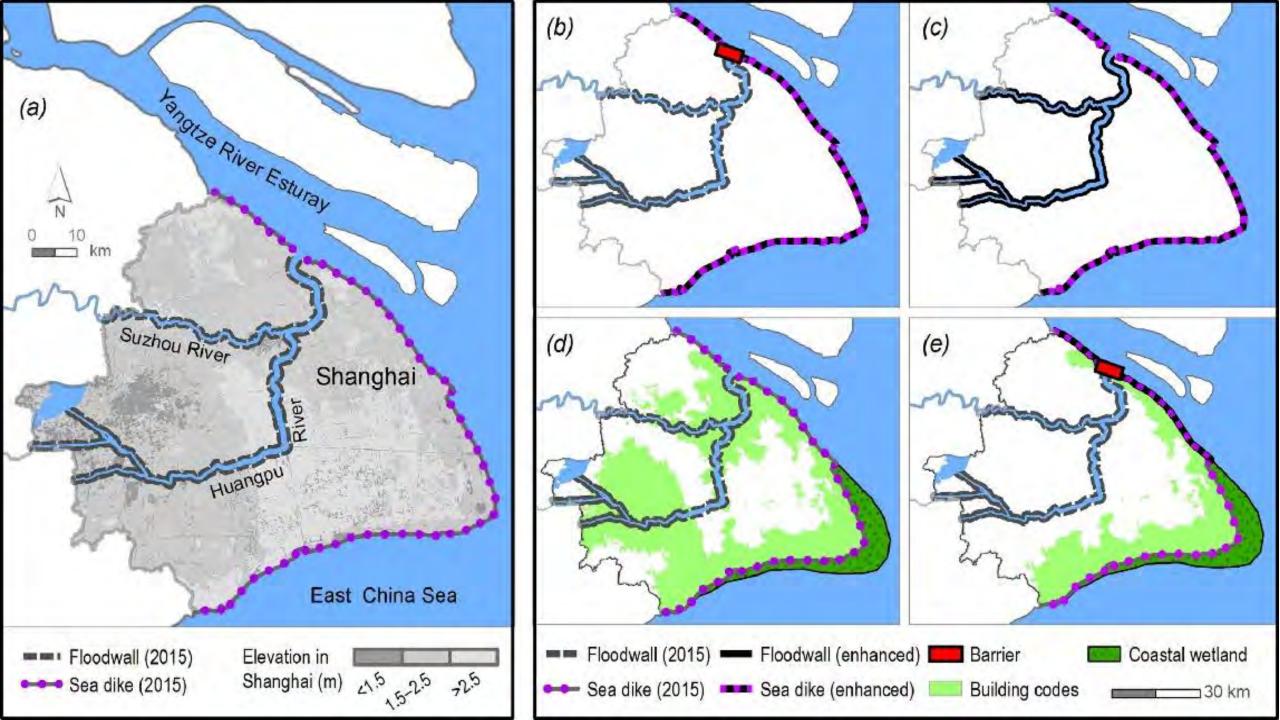








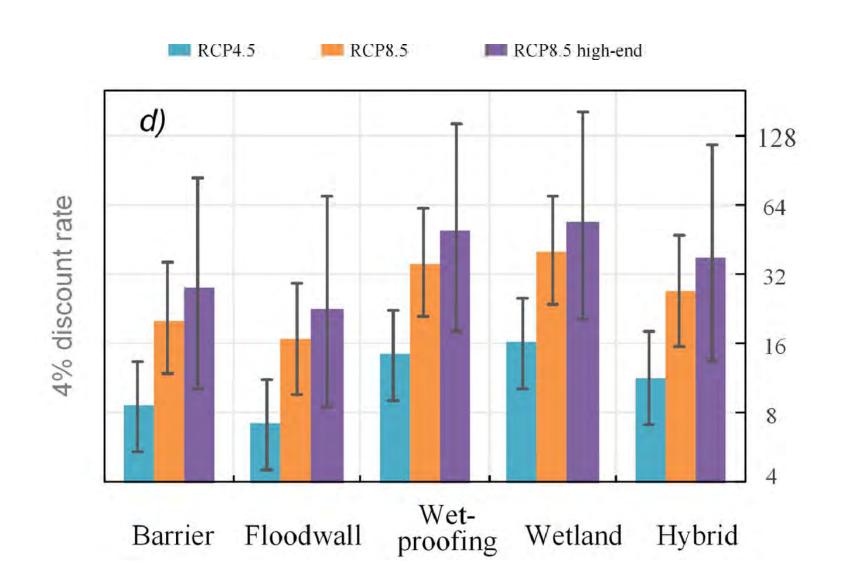




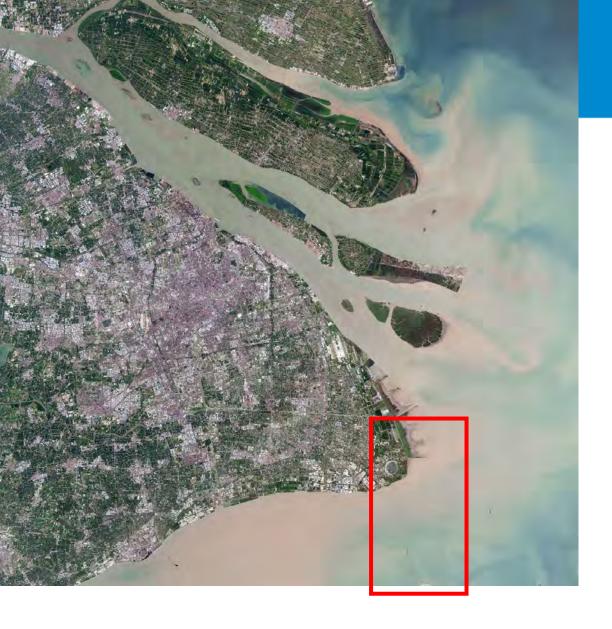




Benefit to cost ratio Shanghai





























Flood adaptation take-aways

- Protection of coastal cities is inevitable
- Spreads investments over time
- Cooperation water managers, spatial planners, investors/developers



