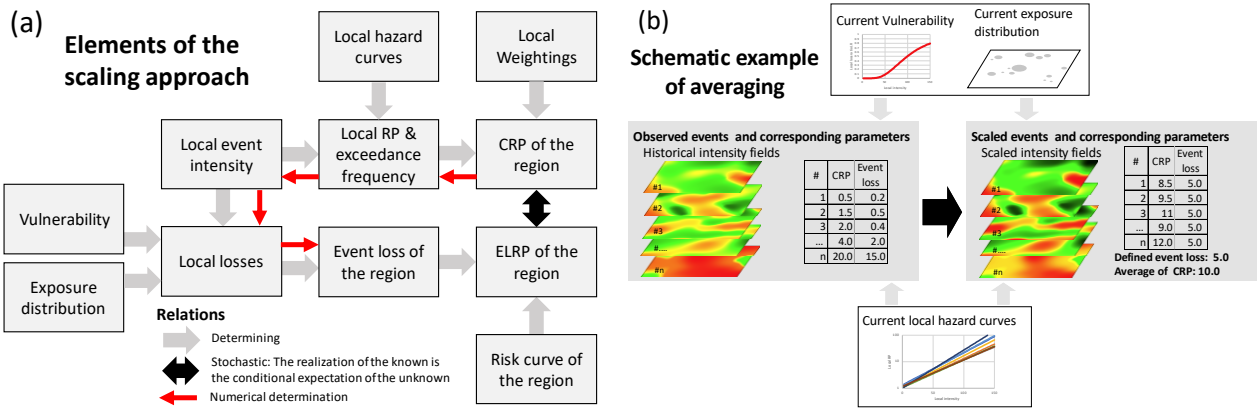
(a)
Elements of the scaling approach
Local hazard curves
Local Weightings
Local event intensity
Local RP & exceedance frequency
CRP of the region
Vulnerability
Exposure distribution
Local losses
Event loss of the region
ELRP of the region
Risk curve of the region
Relations
Determining
Stochastic: The realization of the known is the conditional expectation of the unknown
Numerical determination
(b)
Schematic example of averaging
Current Vulnerability
Current exposure distribution
Observed events and corresponding parameters
Historical intensity fields
#1
#2
#3
#...
#n
CRP Event loss
1 0.5 0.2
2 1.5 0.5
3 2.0 0.4
... 4.0 2.0
n 20.0 15.0
Scaled events and corresponding parameters
Scaled intensity fields
#1
#2
#3
#...
#n
CRP Event loss
1 8.5 5.0
2 9.5 5.0
3 11 5.0
... 9.0 5.0
n 12.0 5.0
Defined event loss: 5.0
Average of CRP: 10.0
Current local hazard curves