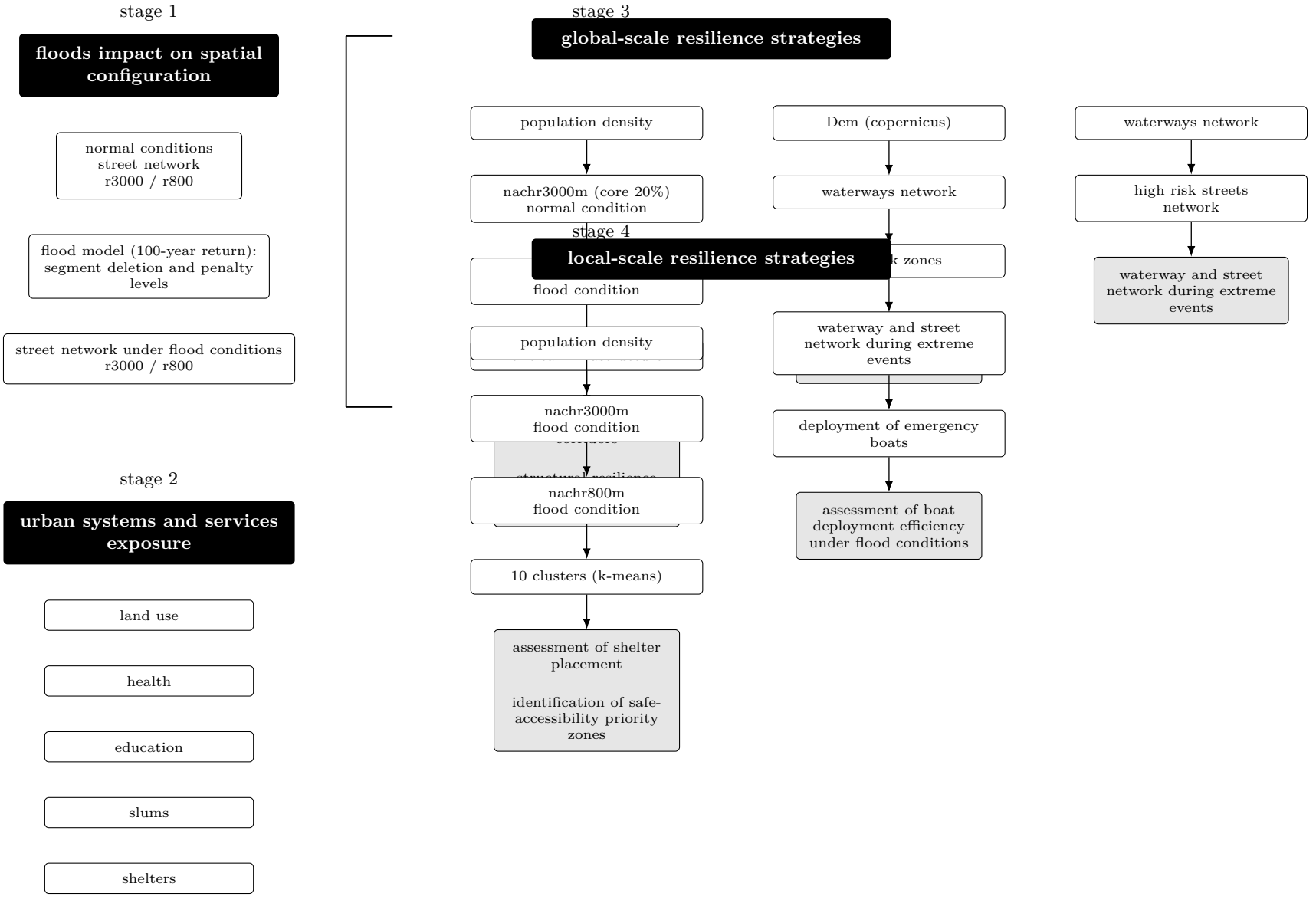
stage 1
floods impact on spatial configuration
normal conditions
street network
r3000 / r800
flood model (100-year return):
segment deletion and penalty
levels
street network under flood conditions
r3000 / r800
stage 2
urban systems and services exposure
land use
health
education
slums
shelters
stage 3
global-scale resilience strategies
population density
nachr3000m (core 20%)
normal condition
Dem (copernicus)
waterways network
waterways network
high risk streets
network
waterway and street
network during extreme
events
stage 4
local-scale resilience strategies
flood condition
population density
nachr3000m
flood condition
nachr800m
flood condition
10 clusters (k-means)
waterway and street
network during extreme
events
deployment of emergency
boats
assessment of boat
deployment efficiency
under flood conditions
assessment of shelter
placement
identification of safe-
accessibility priority
zones