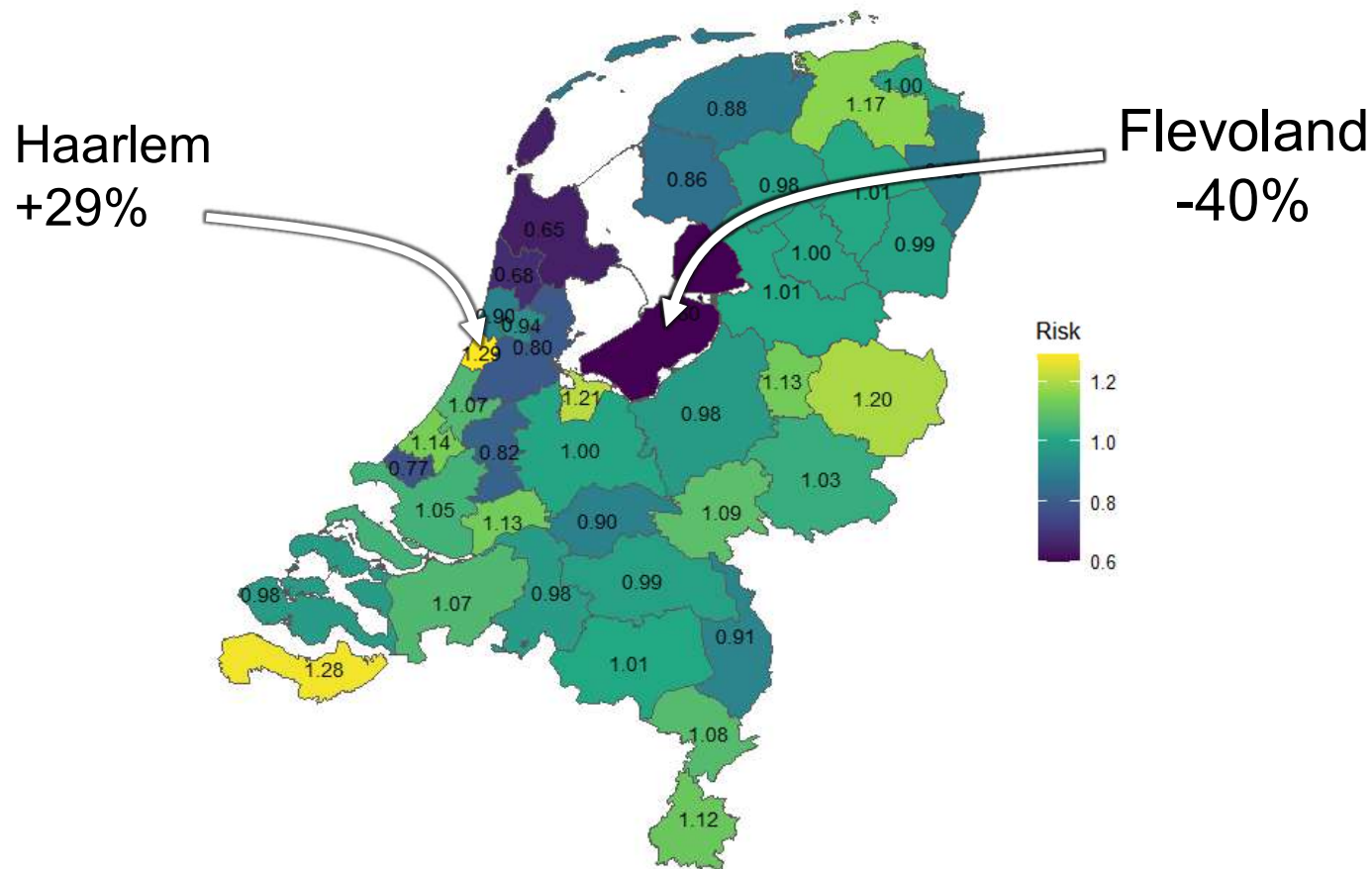
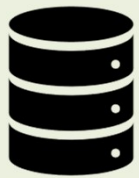


Where you live matters for dementia risk



Dementia is now a leading cause of death in the Netherlands,
but mortality is not the same everywhere. Why?

How I Investigated Regional Differences



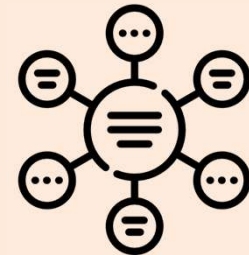
Data

Mortality,
environmental,
socio-economic
& weather data
for 40 Dutch
regions,
2014–2022



Analysis

Reduced 16
pollutants
into composite
indices (PCA)



Models

Used advanced
Bayesian spatial
models to link
risk factors to
dementia deaths

Pollution, urban living, and climate shape dementia deaths



Pollution Mix

2.3% higher dementia mortality per SD increase (ozone, cadmium, ammonia)





Urban Density

5.4% higher mortality per SD increase in population density (ca. 600 people/km²)



Climate

More sun & rain =  risk
high-pressure =  risk

In The Hague:

13% higher dementia mortality for each SD increase in heavy metals/combustion pollution

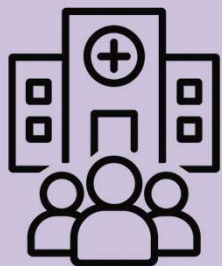


We need region-specific policies!

From Regional Patterns to Targeted Solutions



Link regional patterns
to individual health records



Incorporate healthcare system, social,
and psychological factors



Test interventions (cleaner air,
greenspace, low-emission zones)

**Supporting policymakers in designing region-specific strategies
for healthy ageing**