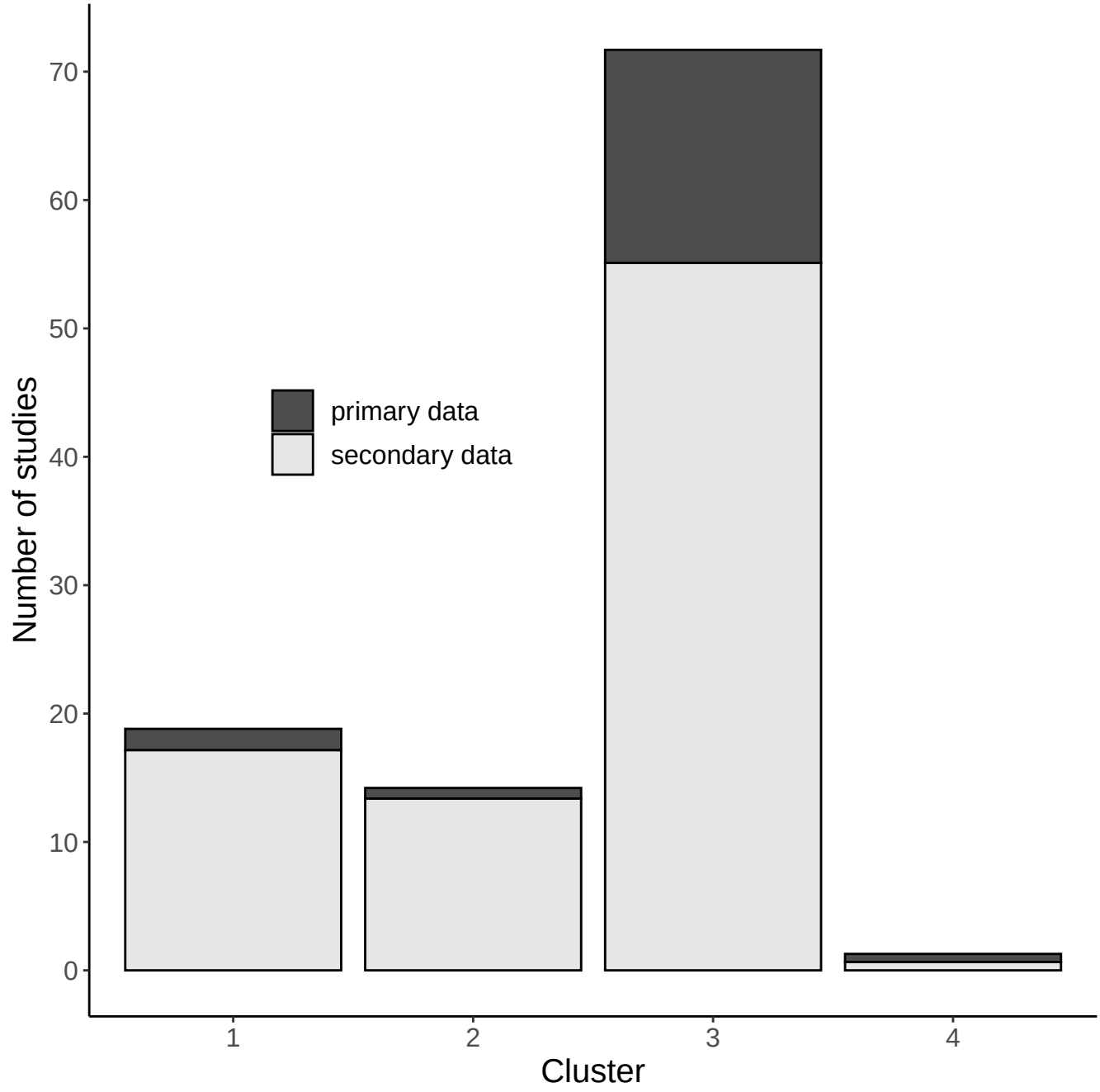
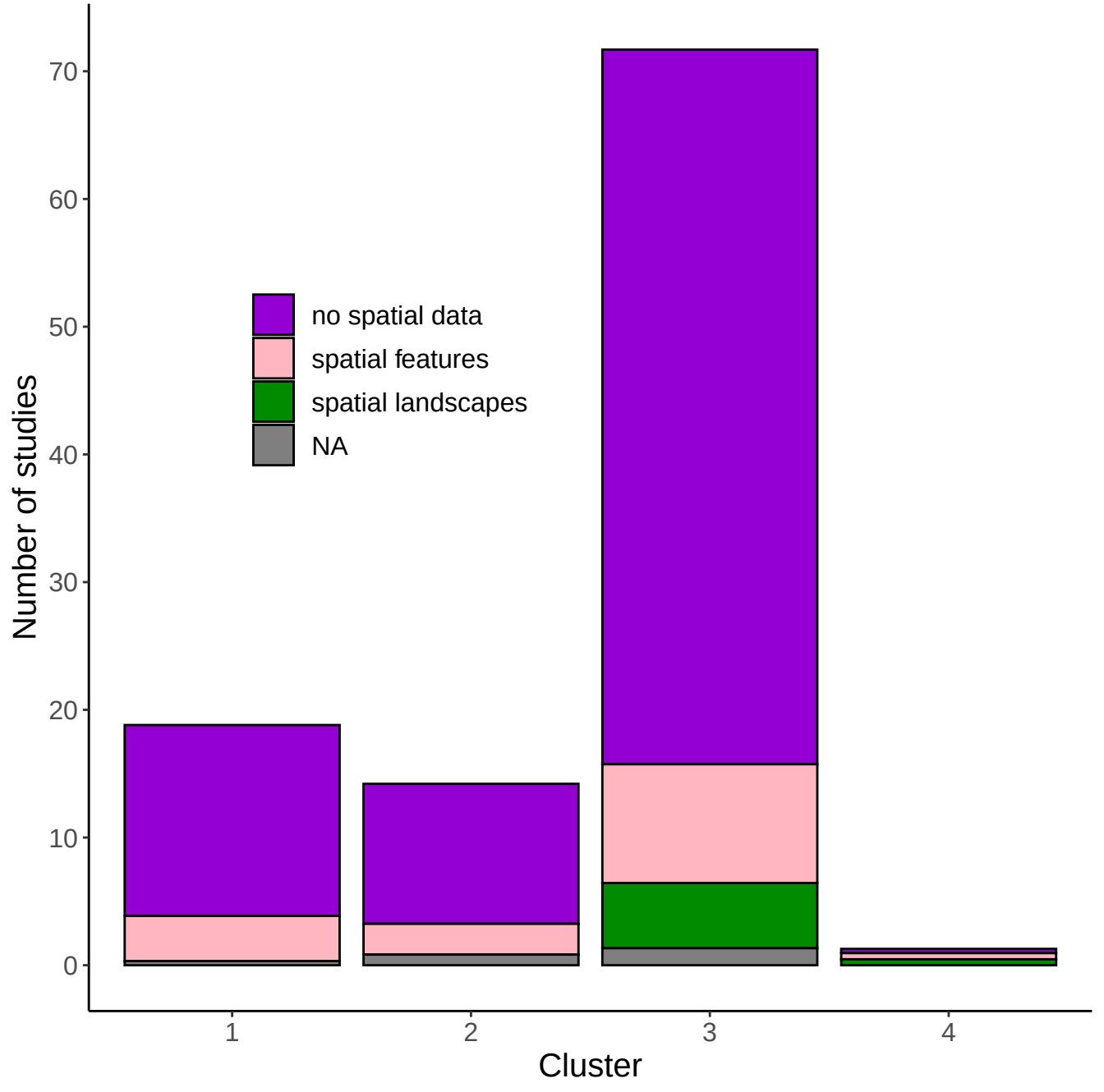
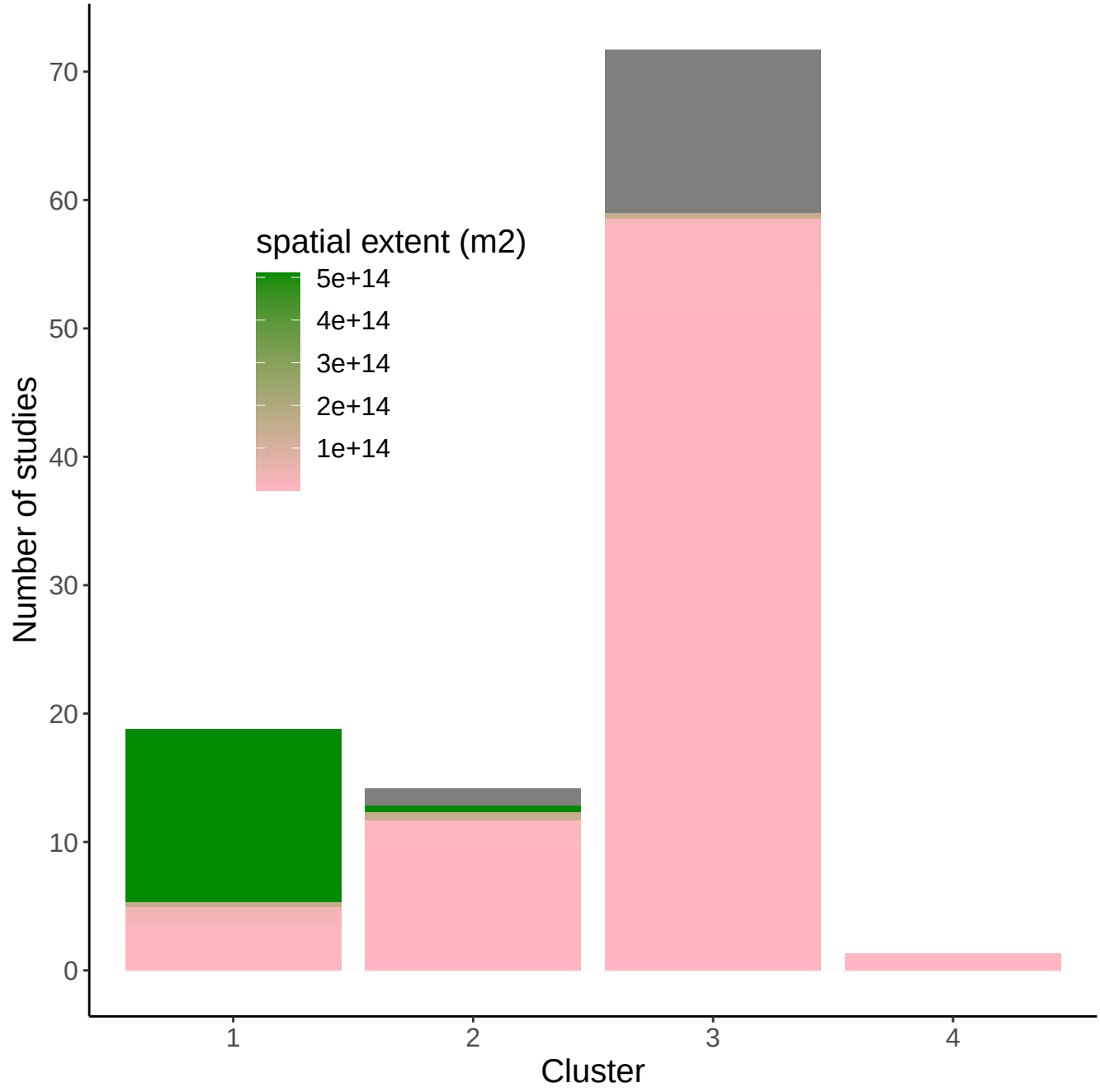
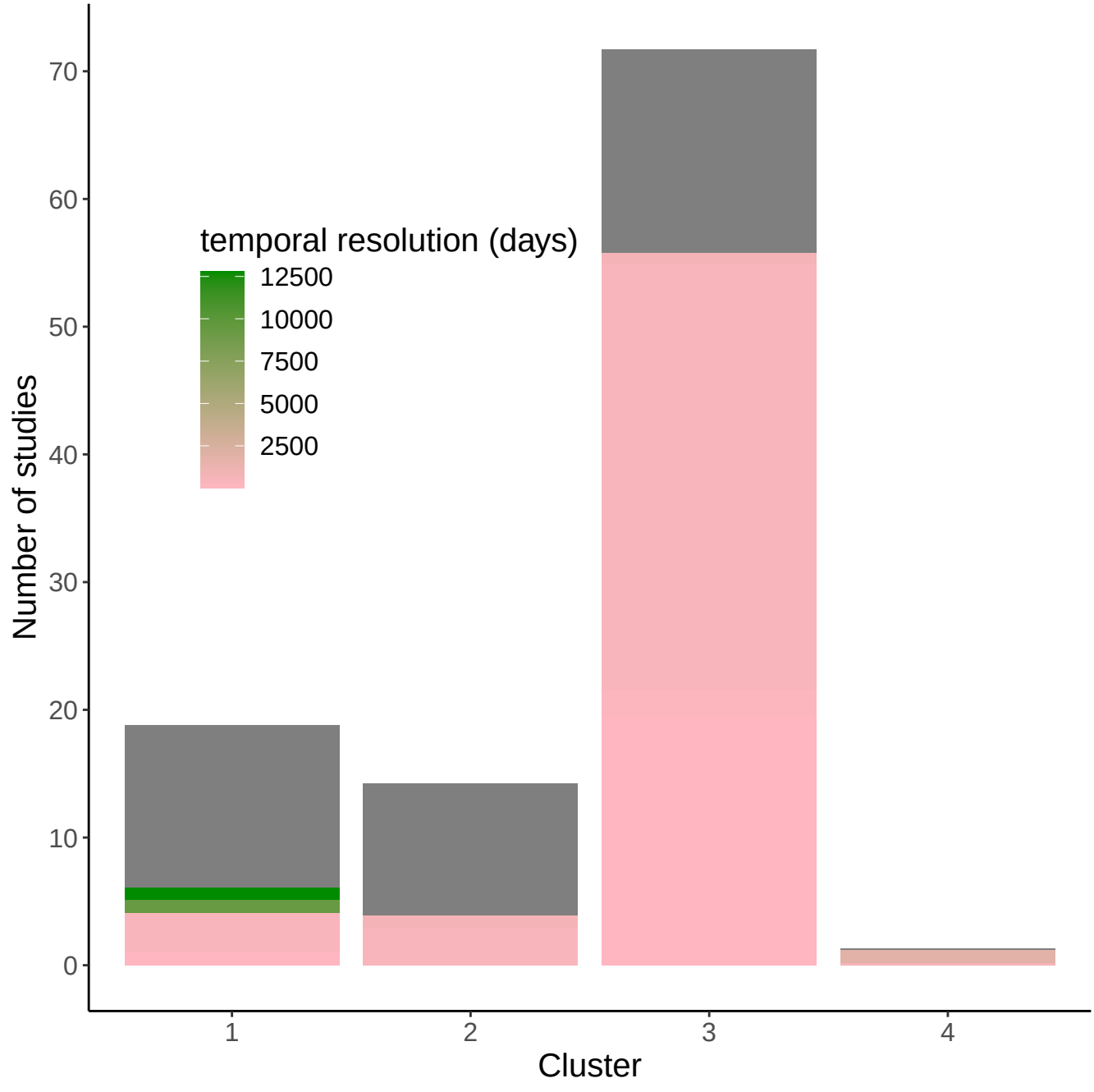
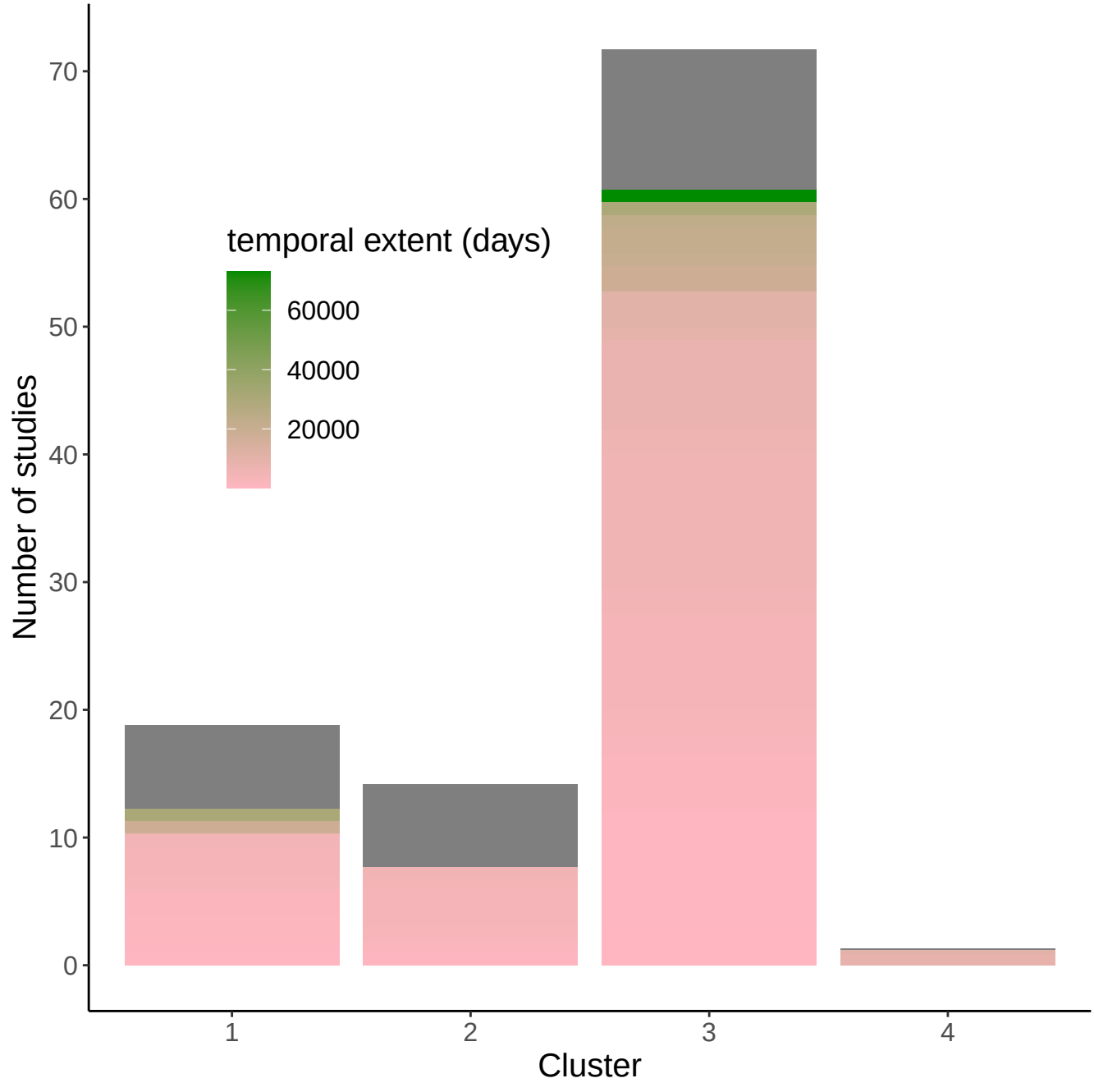
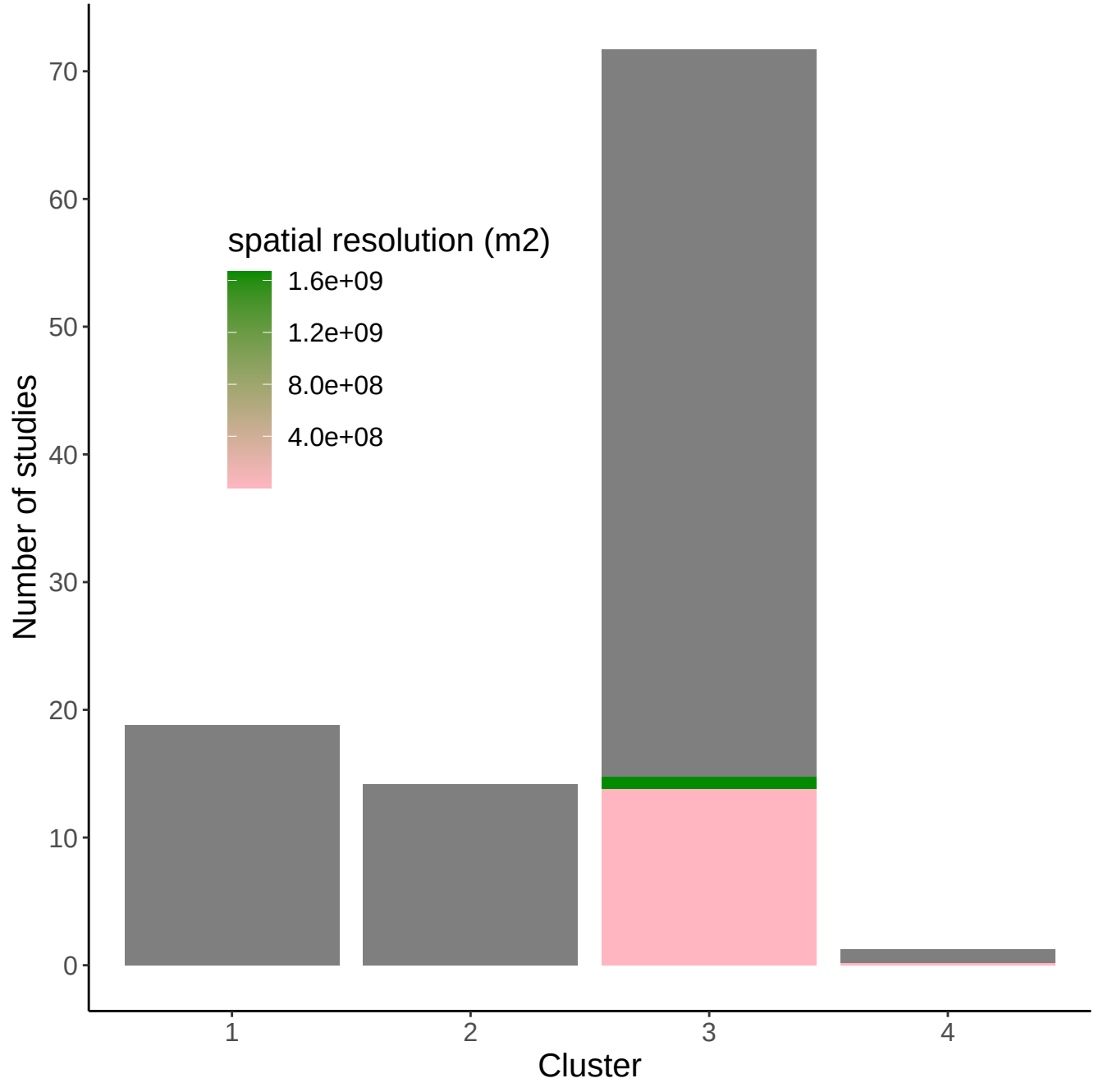

Number of studies
70
60
50
40
30
20
10
0
primary data
secondary data
1
2
3
4
Cluster

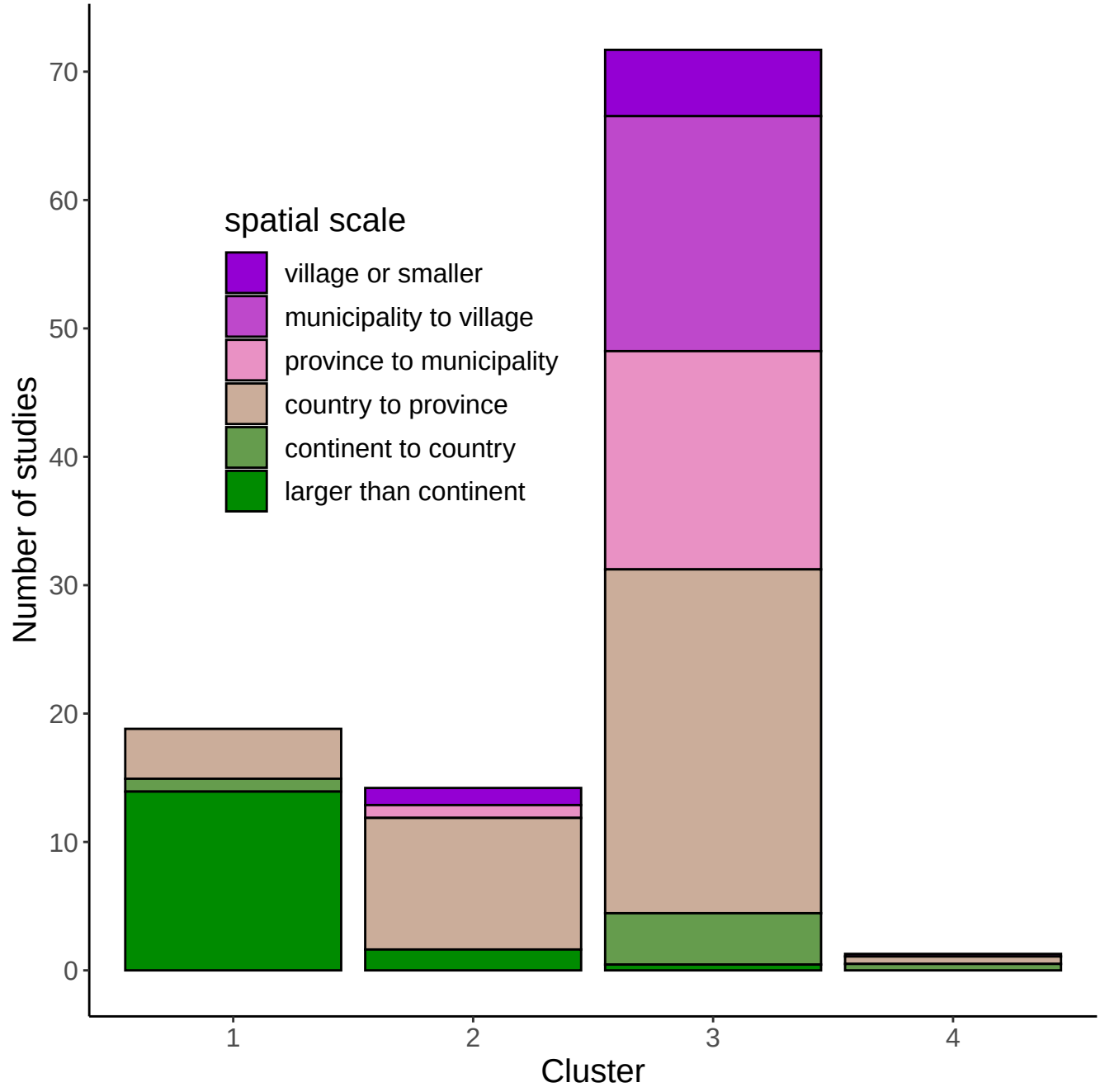

no spatial data
spatial features
spatial landscapes
NA
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

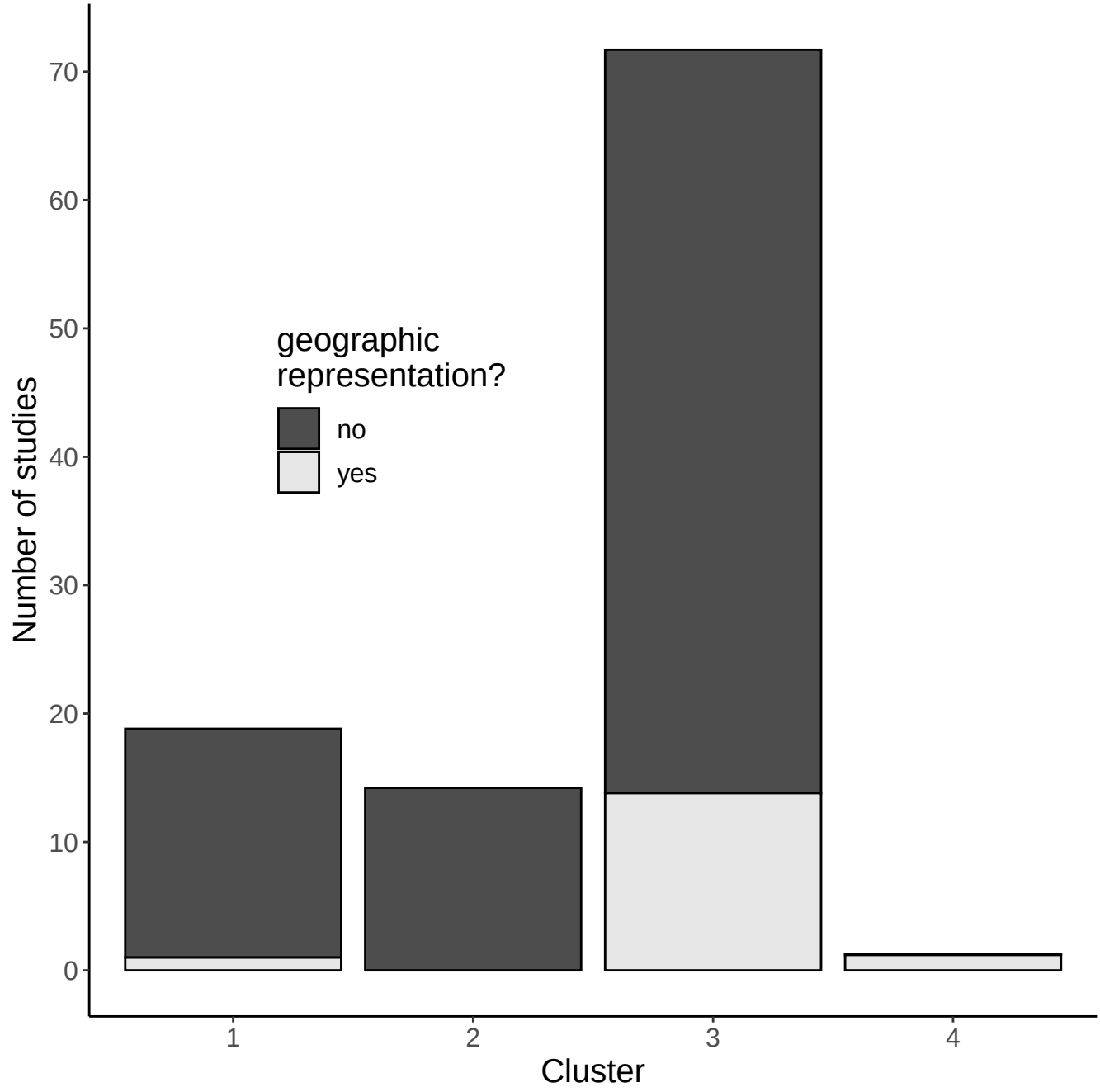

spatial extent (m2)
5e+14
4e+14
3e+14
2e+14
1e+14
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

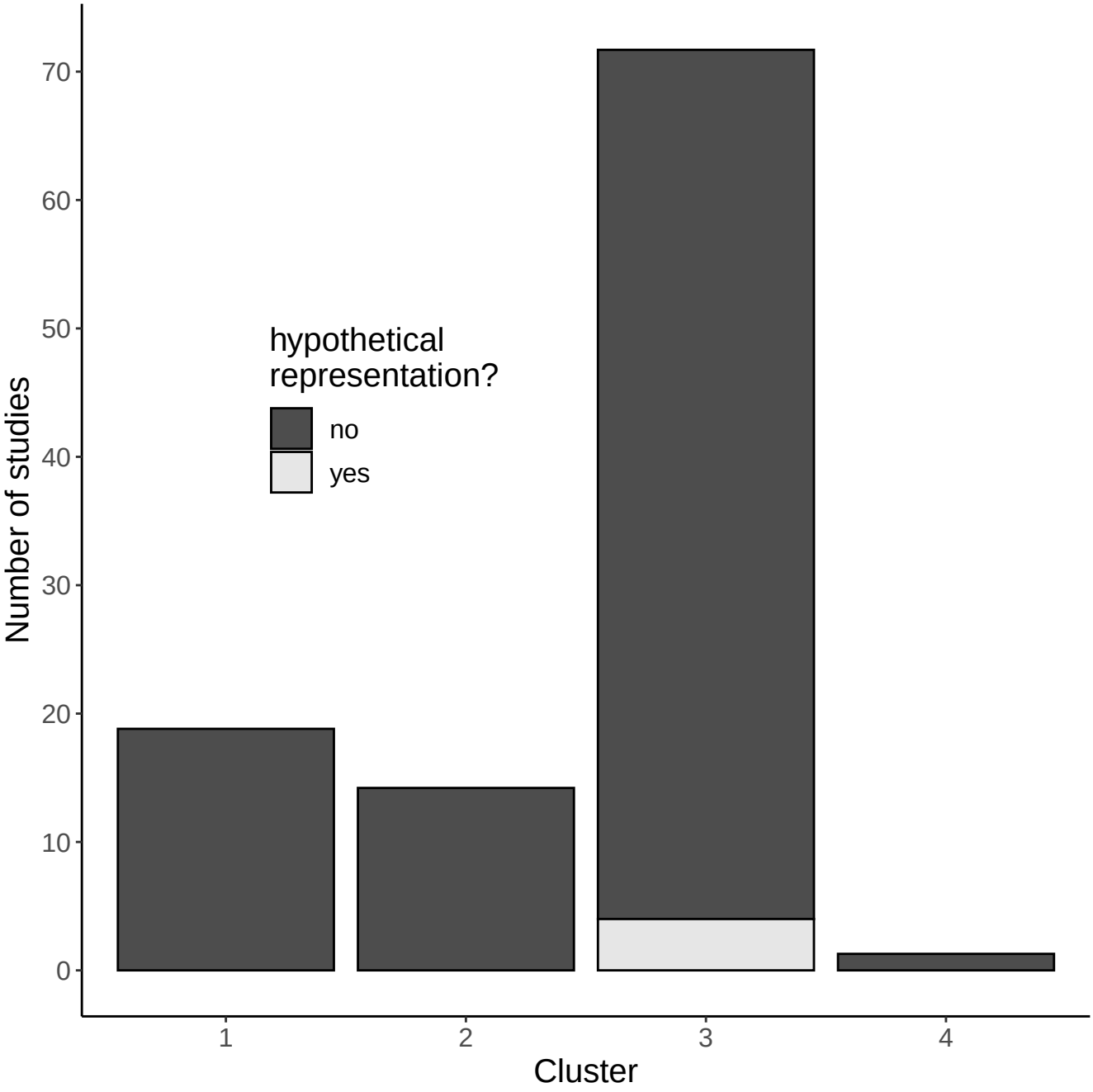

temporal resolution (days)
12500
10000
7500
5000
2500
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

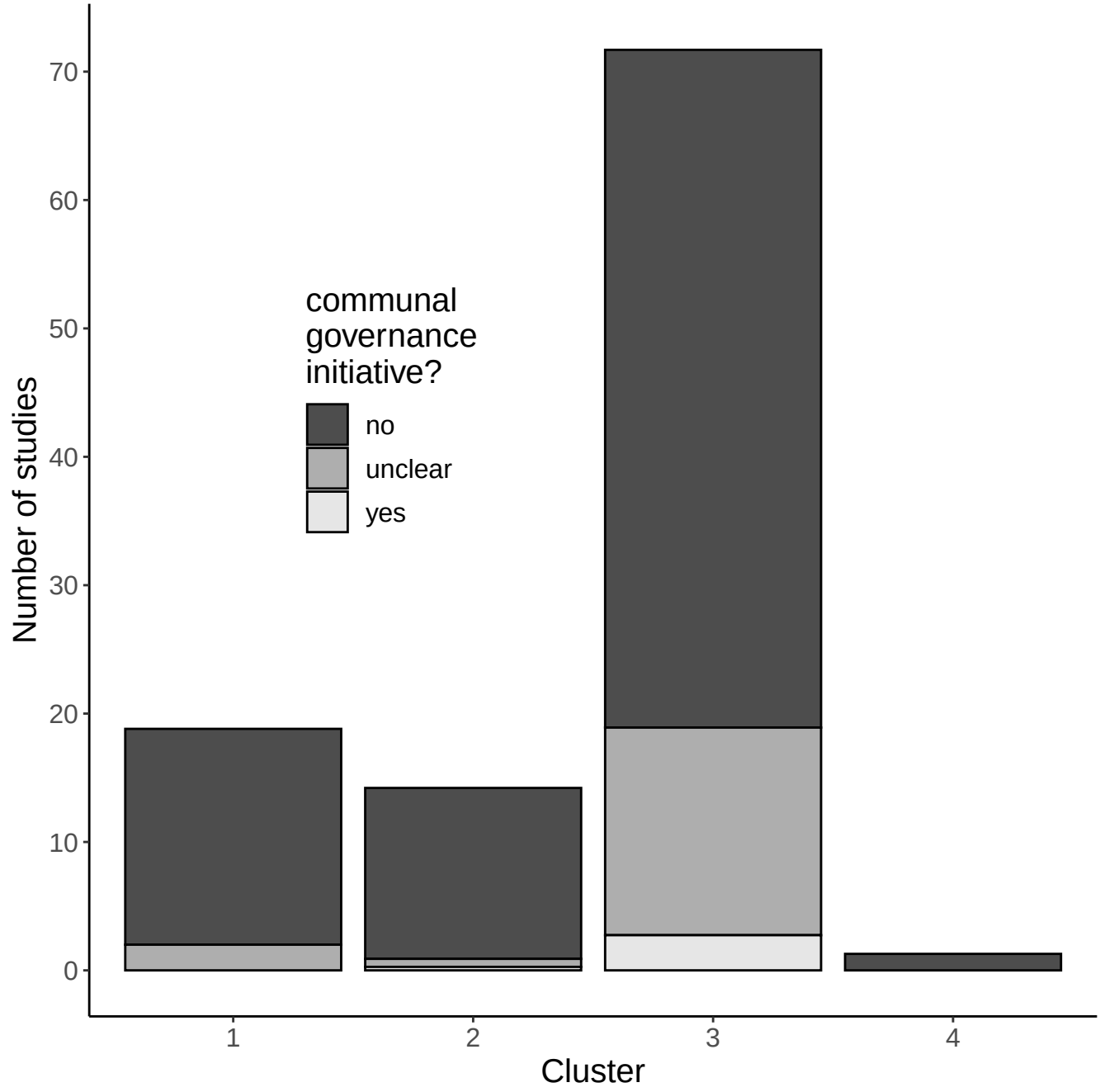

temporal extent (days)
60000
40000
20000
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

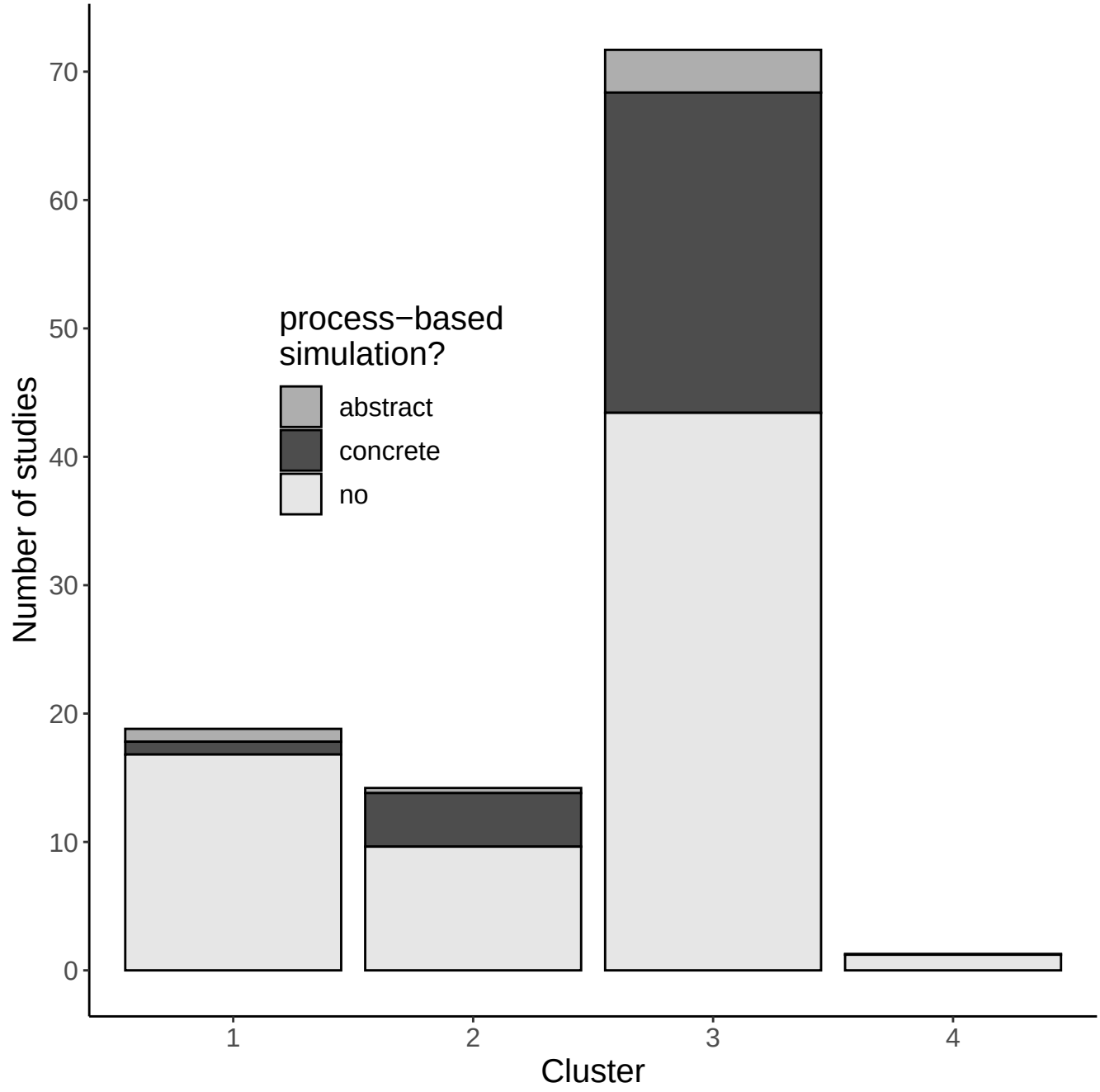

spatial resolution (m2)
1.6e+09
1.2e+09
8.0e+08
4.0e+08
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

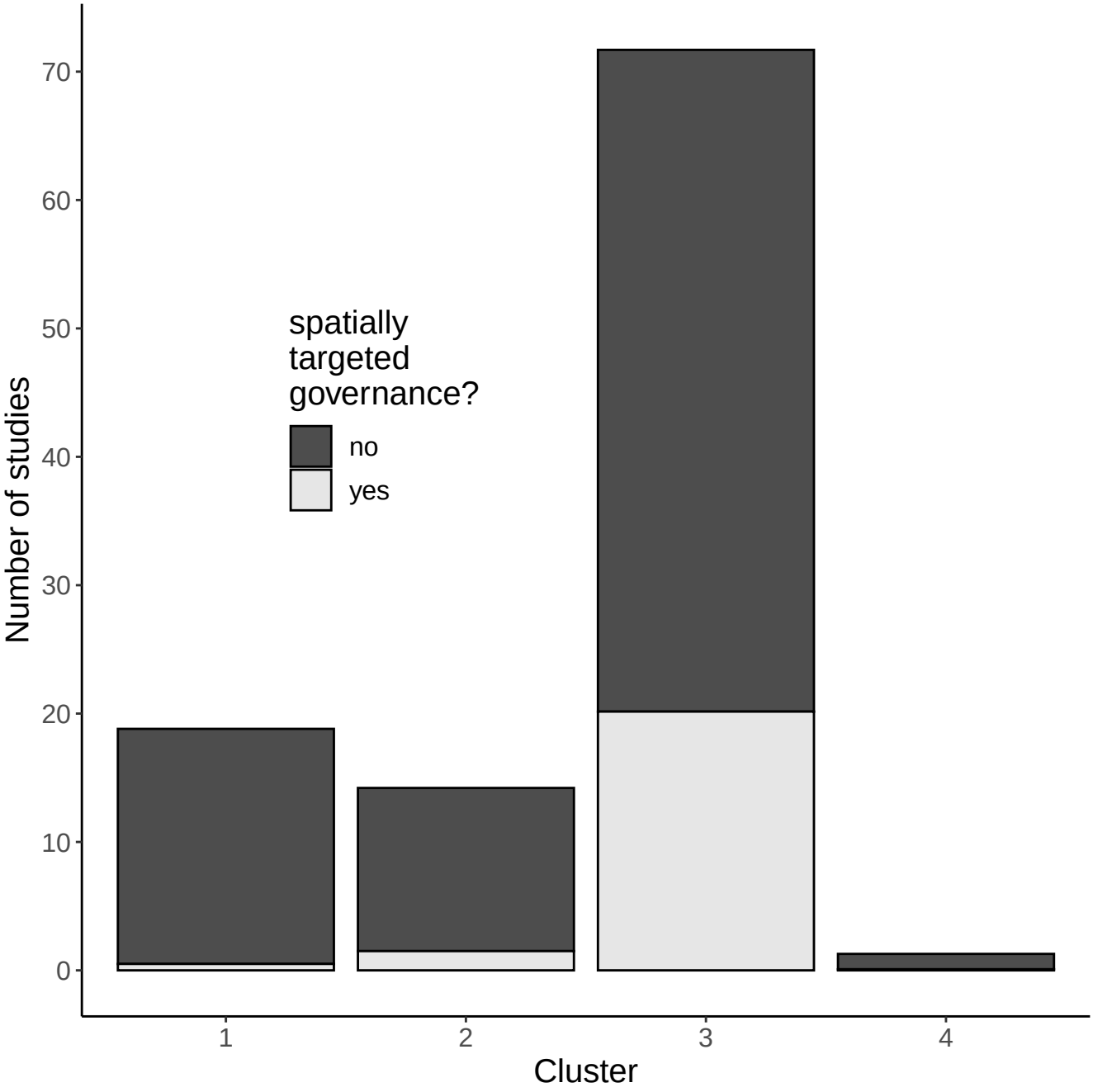

spatial scale
village or smaller
municipality to village
province to municipality
country to province
continent to country
larger than continent
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

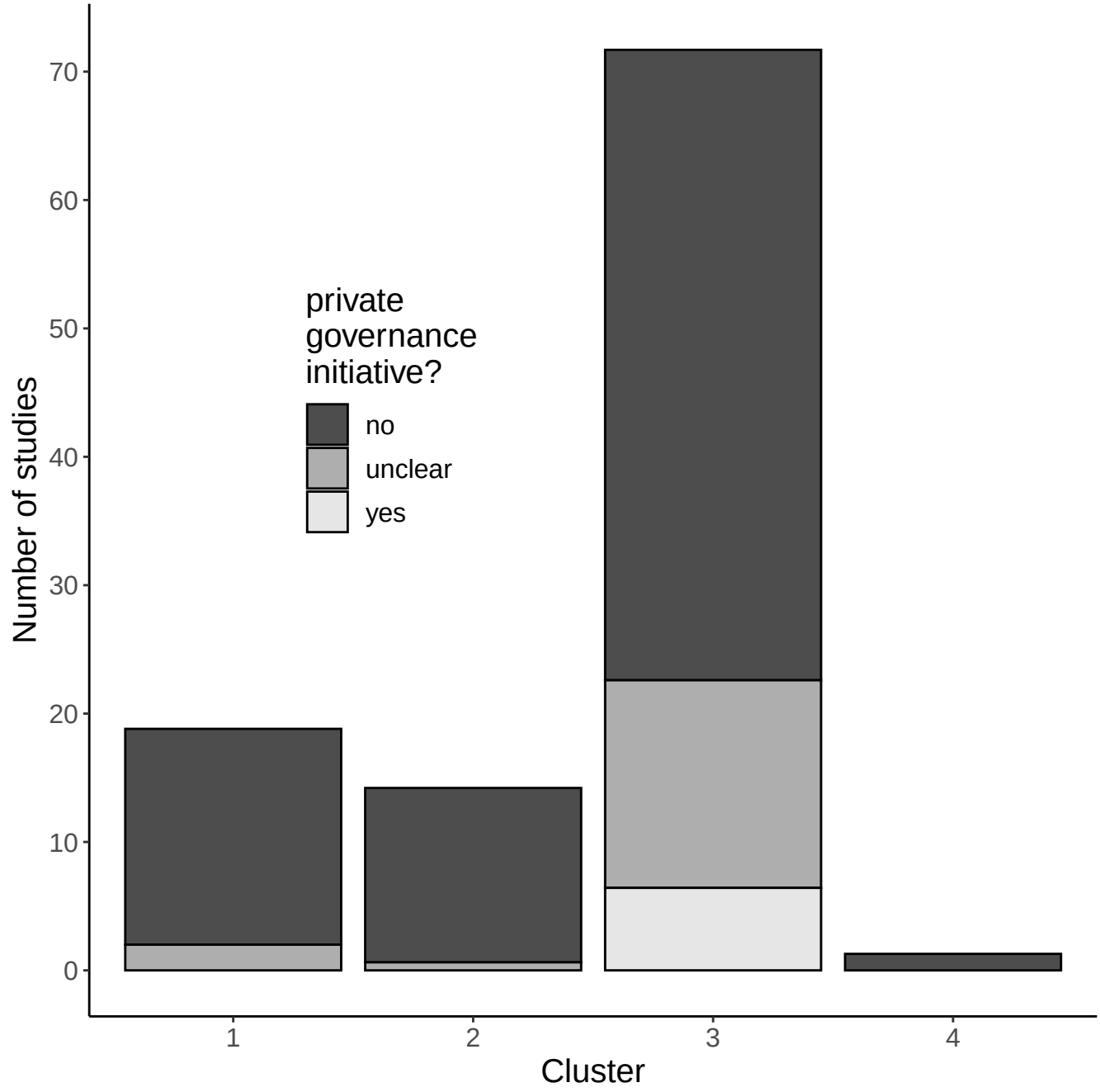

geographic representation?
no
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

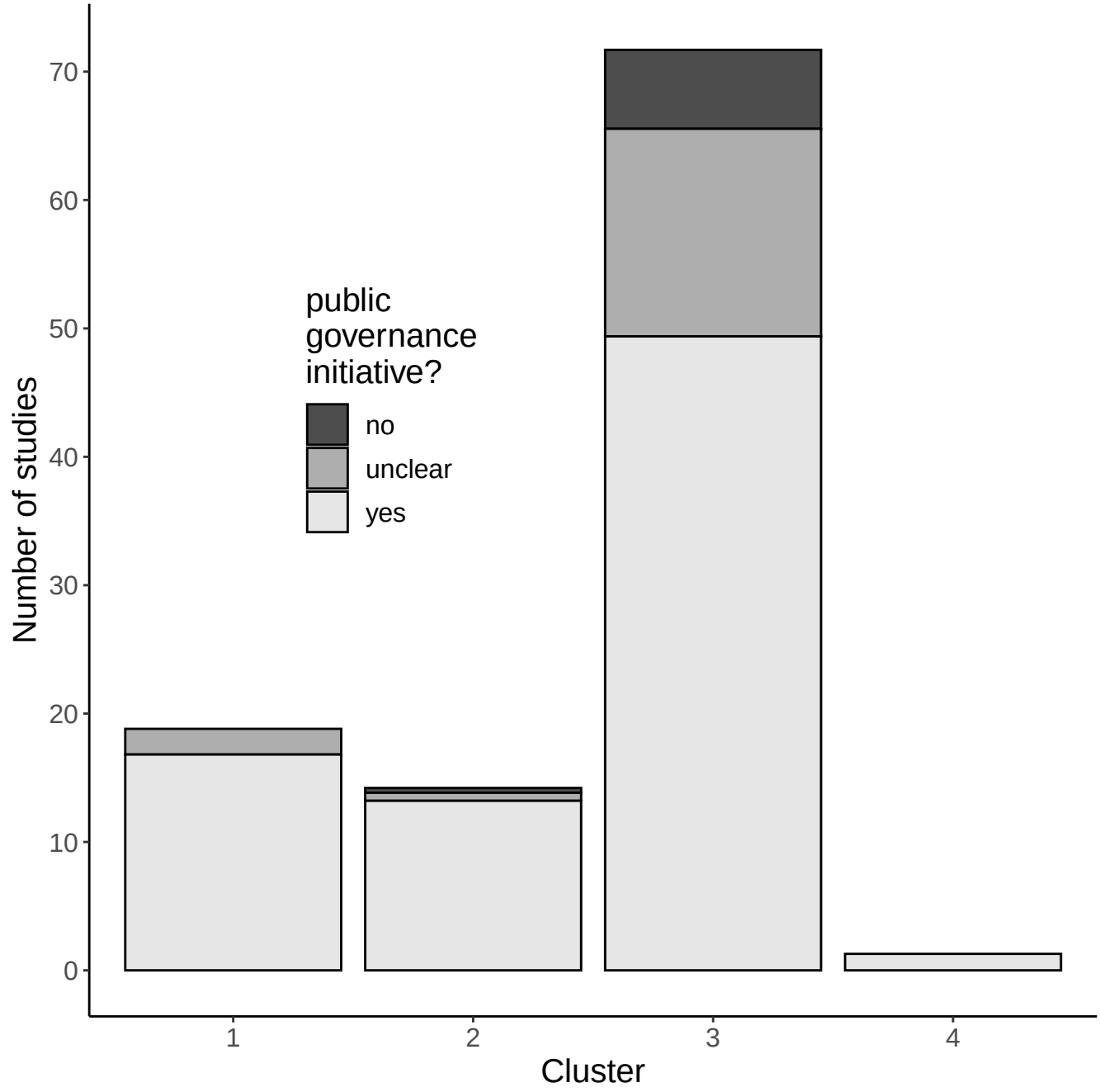

hypothetical representation?
no
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

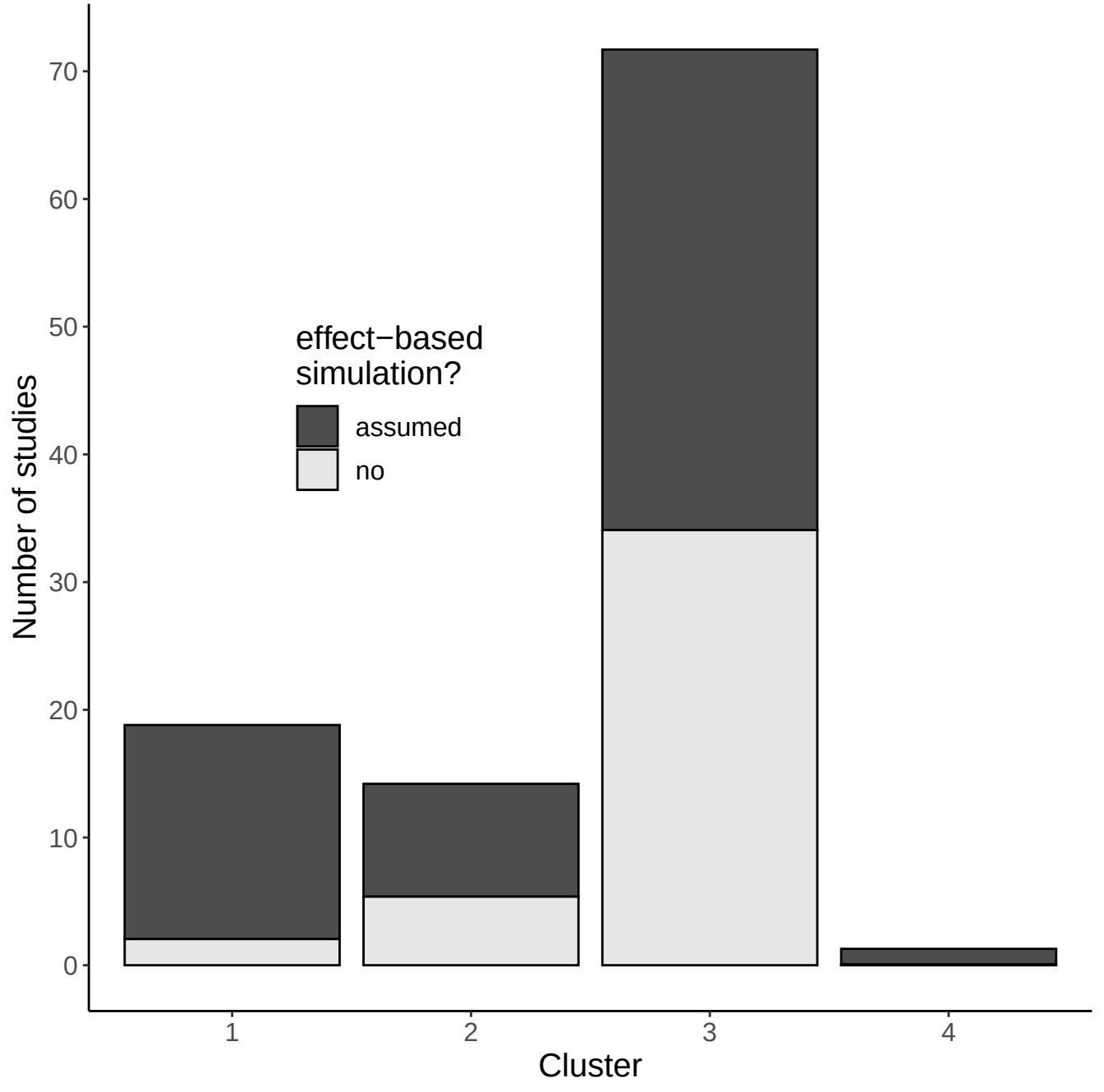

communal
governance
initiative?
no
unclear
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

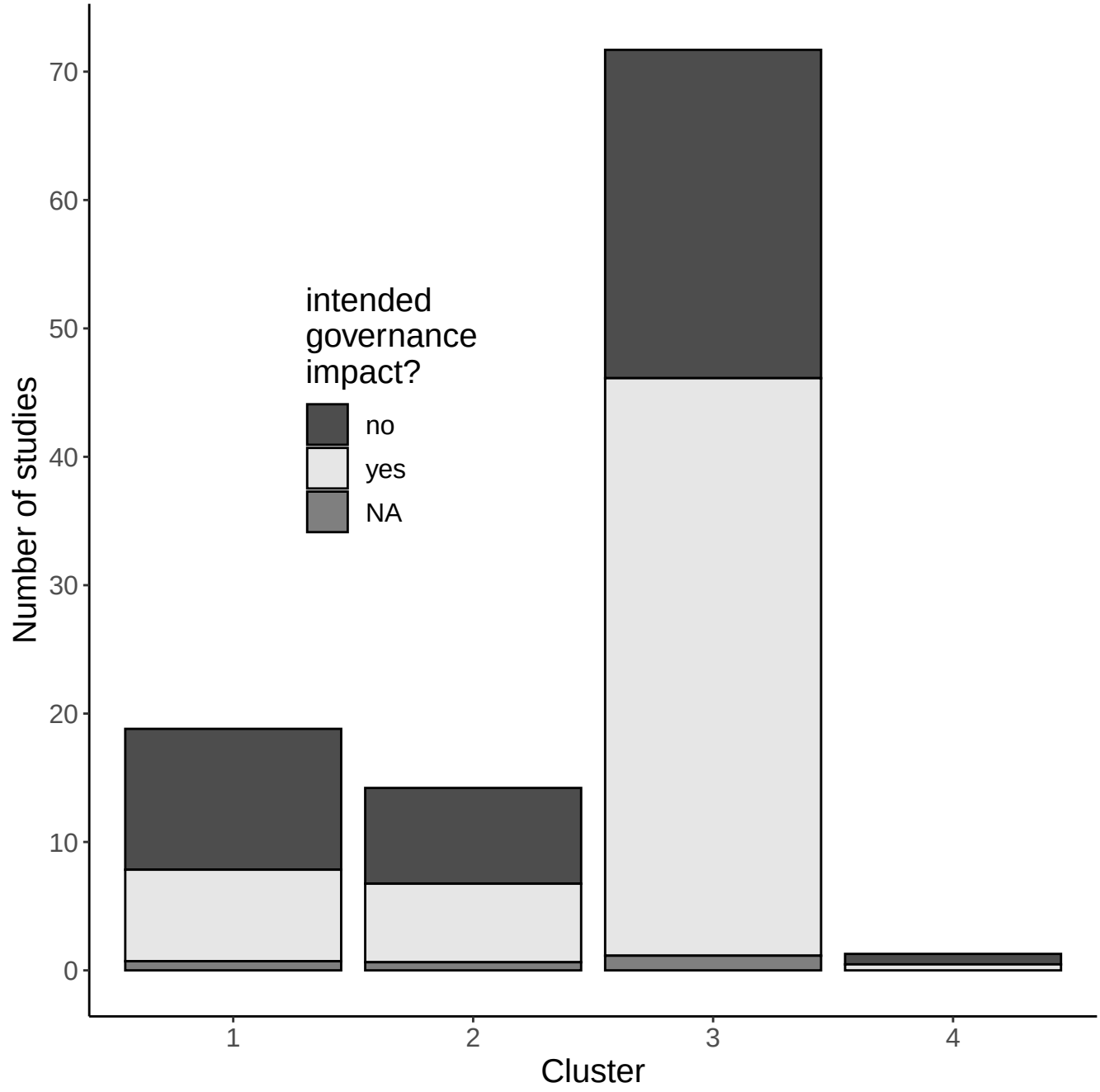

process−based simulation?
abstract
concrete
no
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

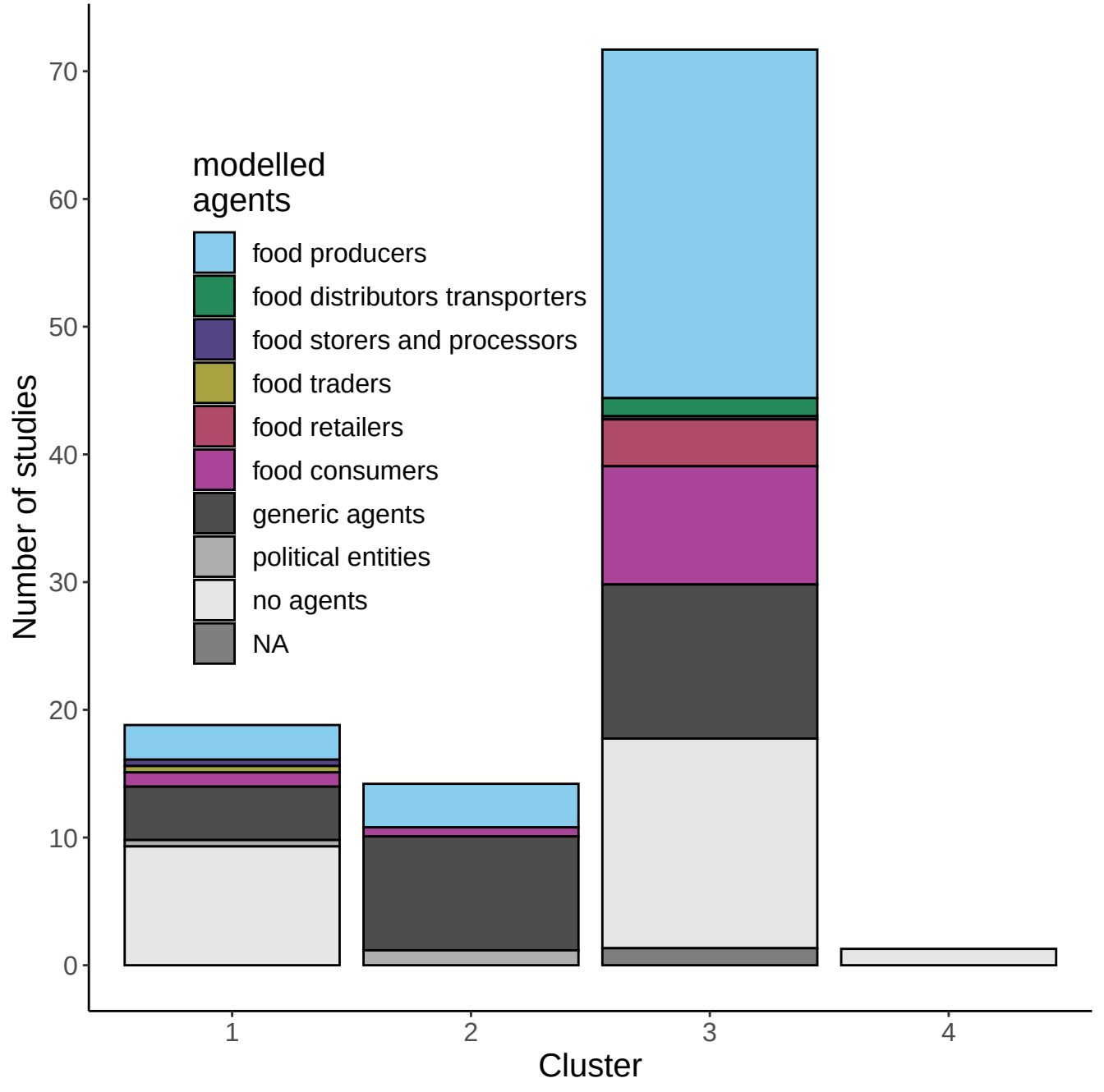

spatially
targeted
governance?
no
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

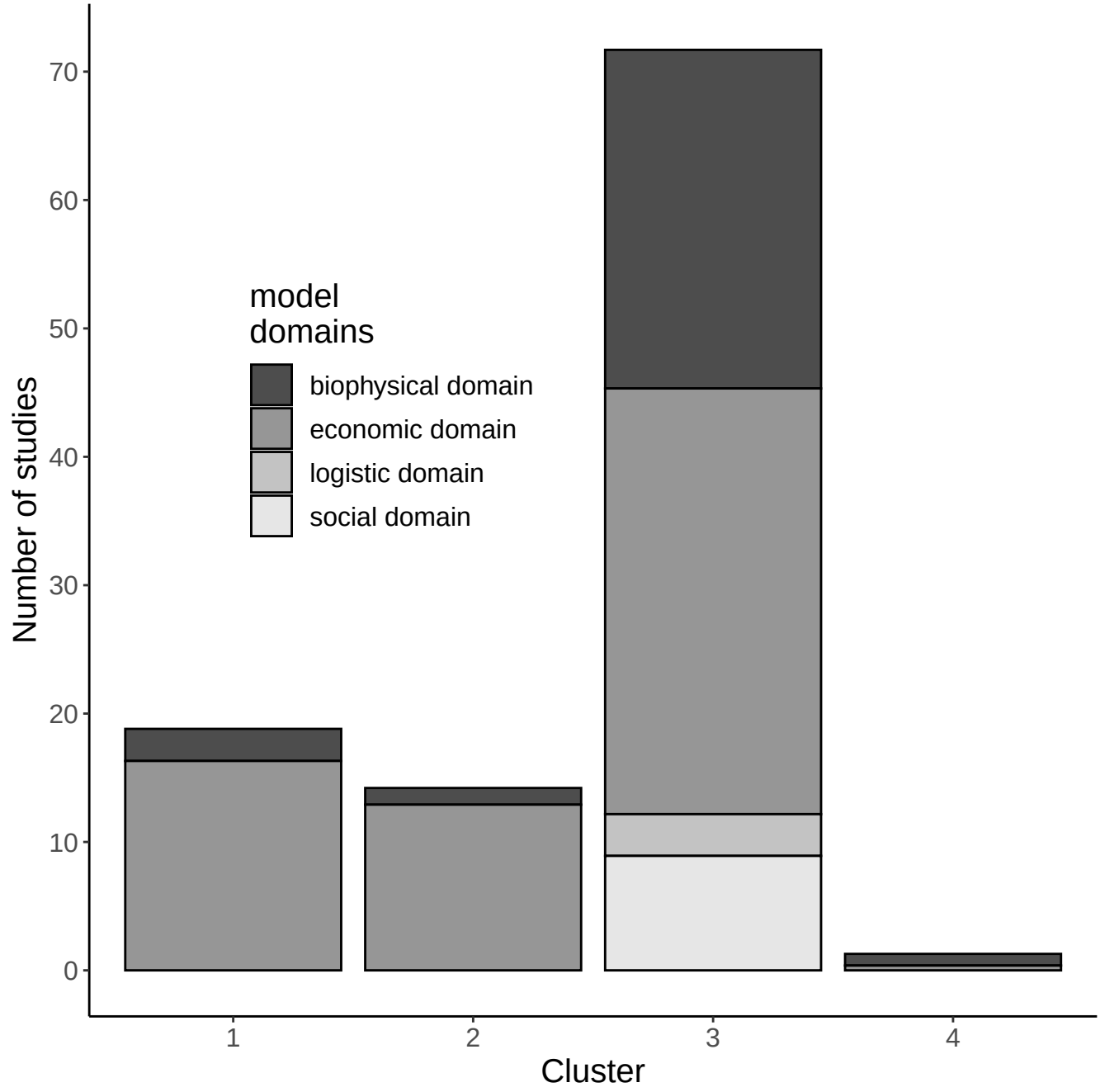

private
governance
initiative?
no
unclear
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

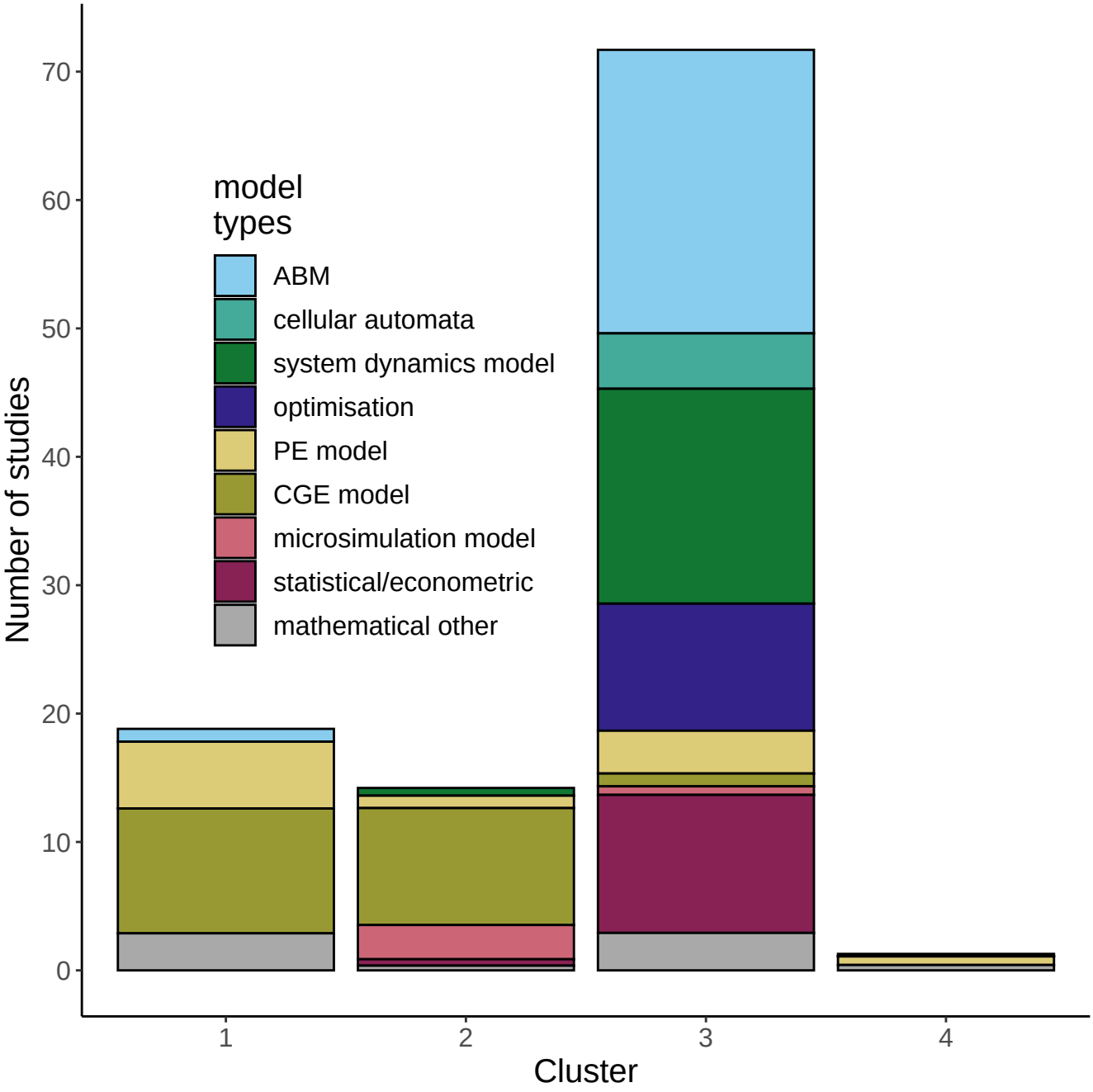

public
governance
initiative?
no
unclear
yes
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

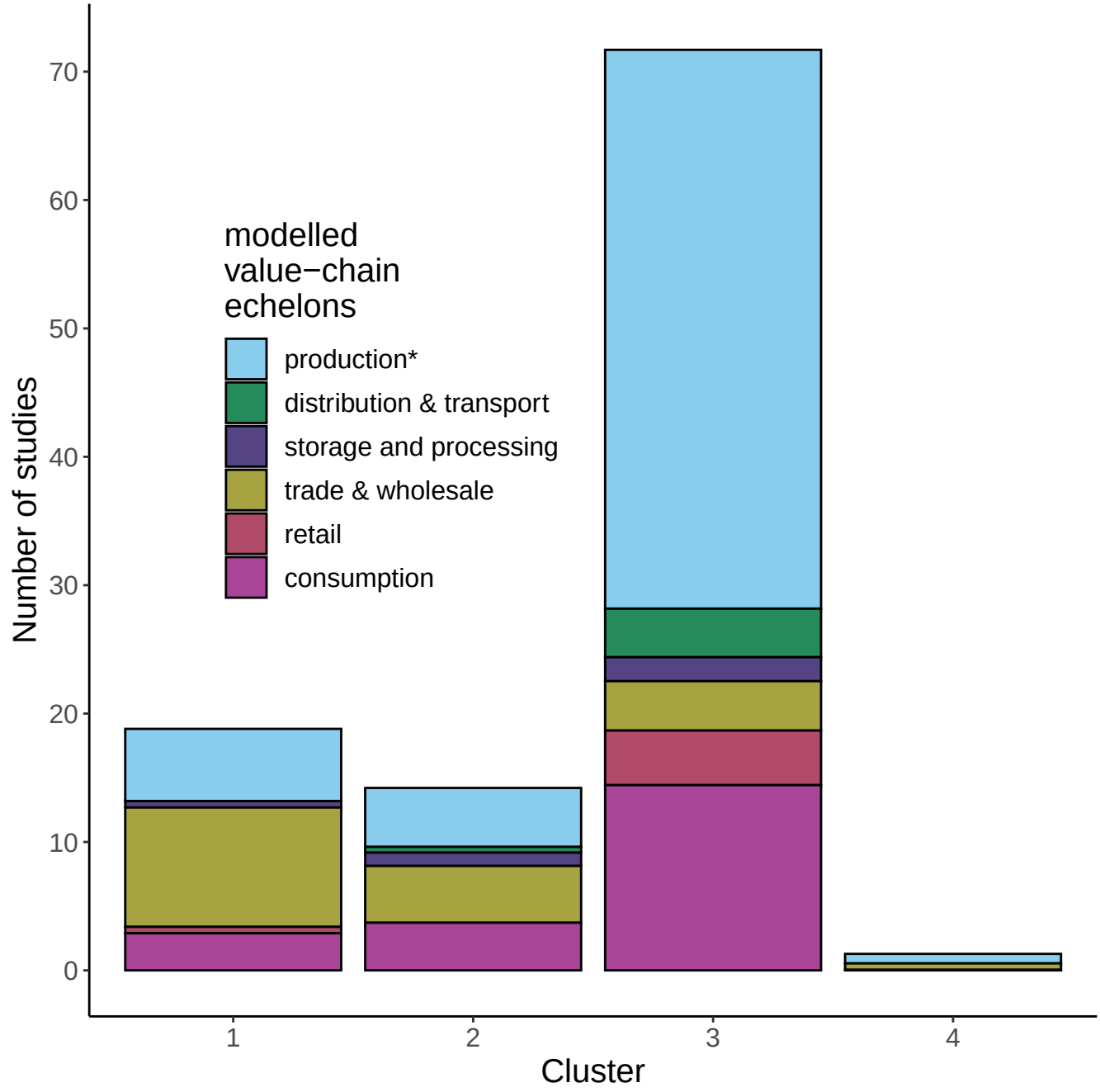

effect−based
simulation?
assumed
no
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

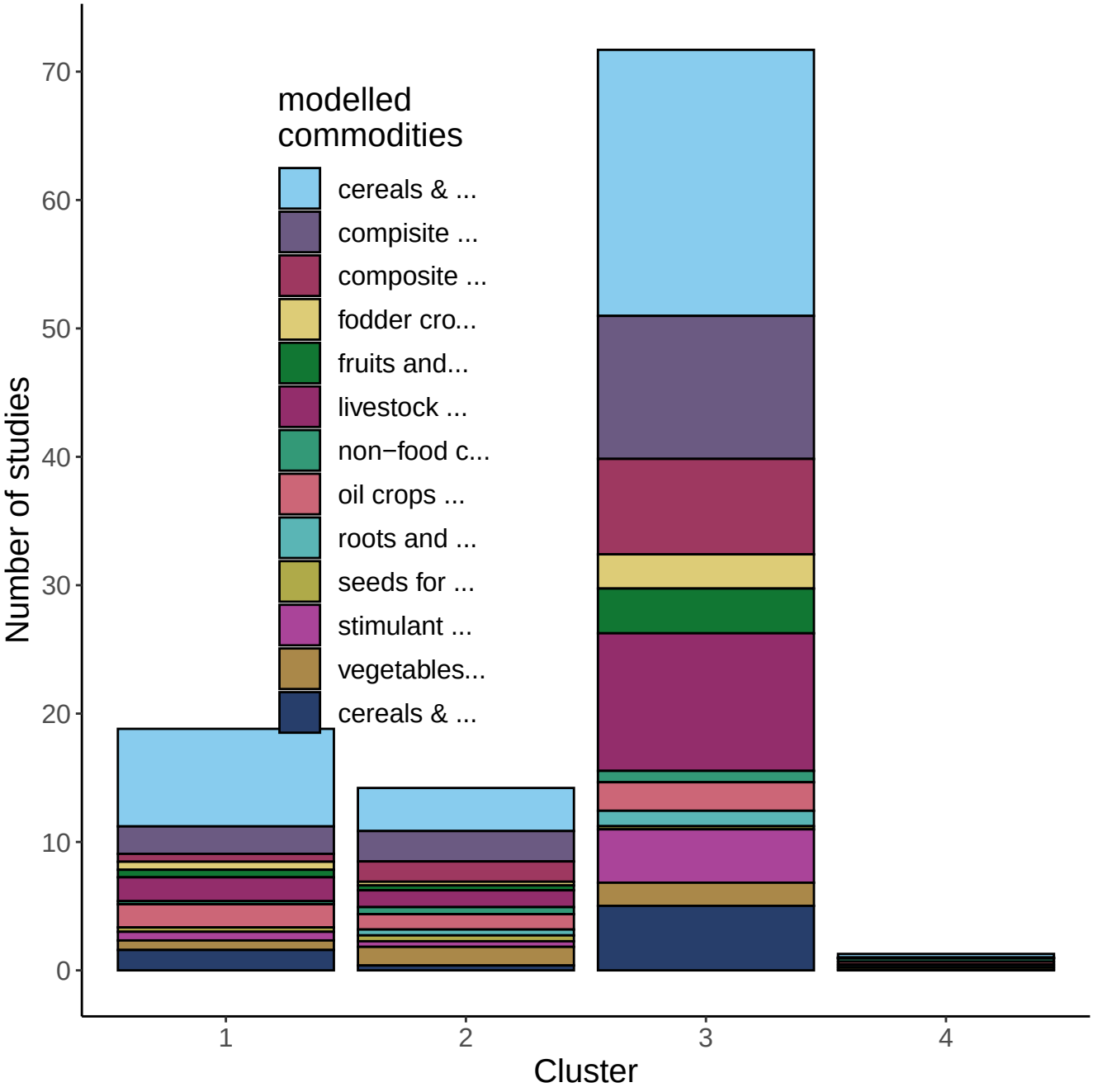

intended governance impact?
no
yes
NA
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

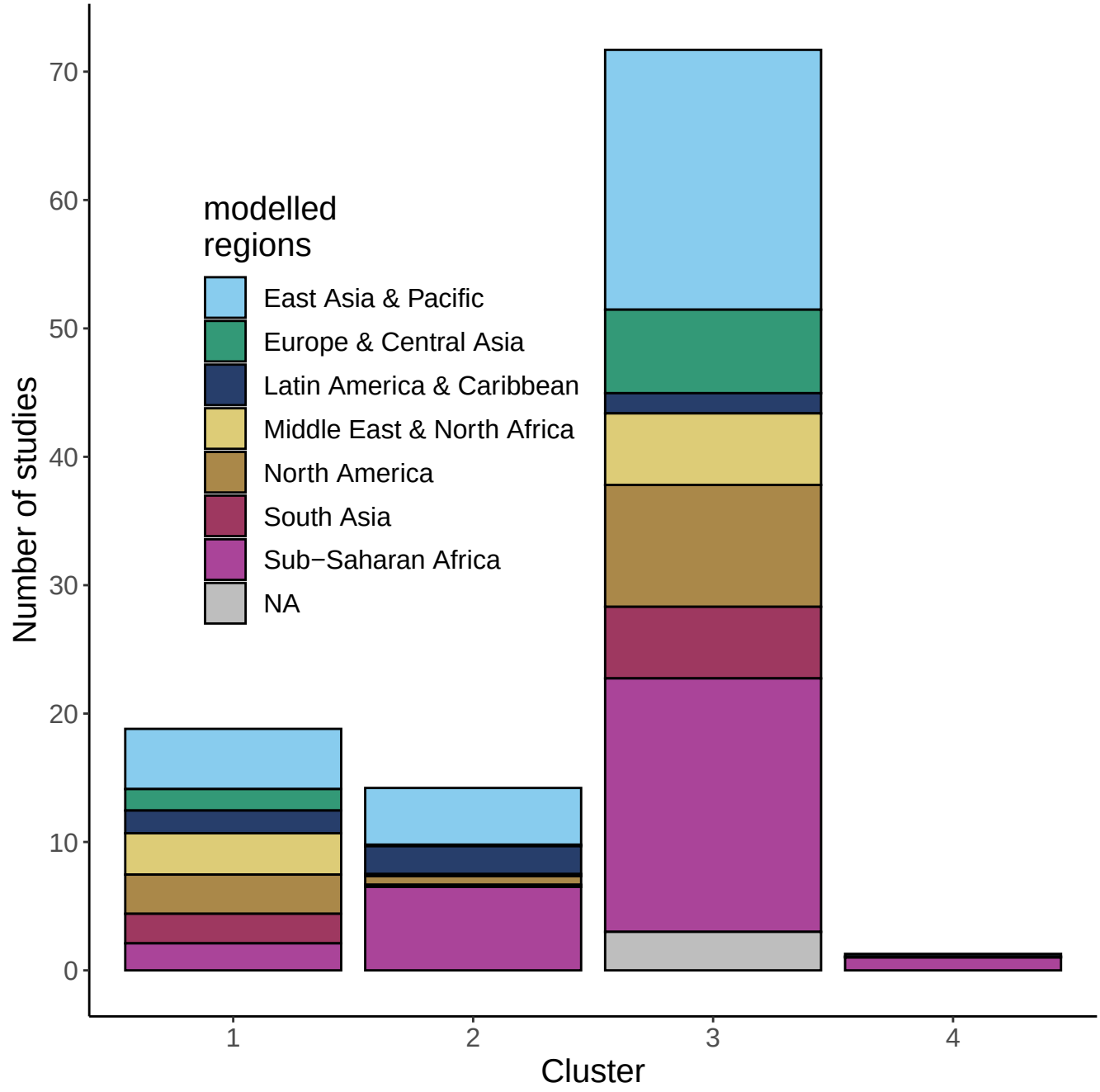

modelled agents
food producers
food distributors transporters
food storers and processors
food traders
food retailers
food consumers
generic agents
political entities
no agents
NA
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

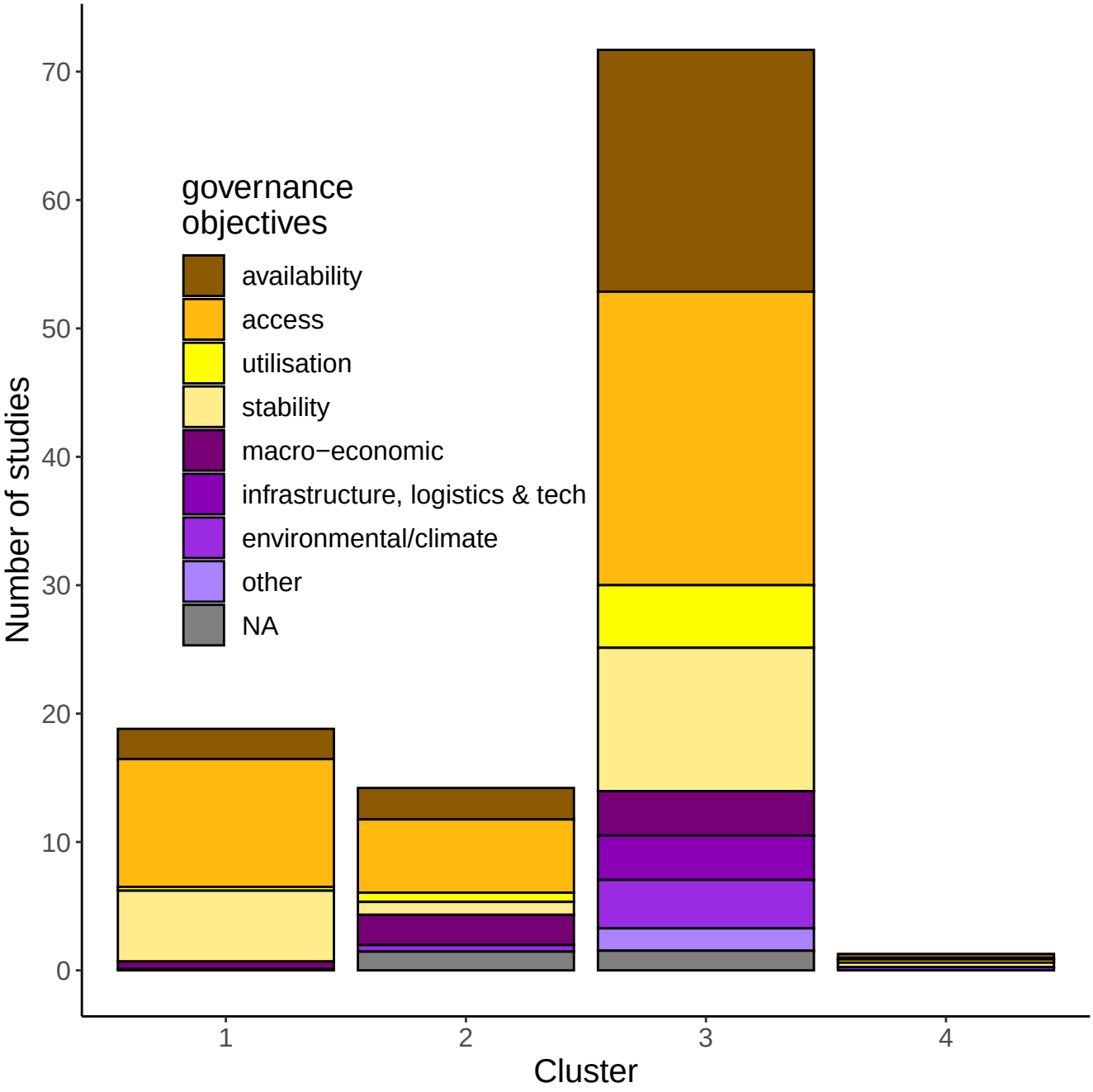

model
domains
biophysical domain
economic domain
logistic domain
social domain
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

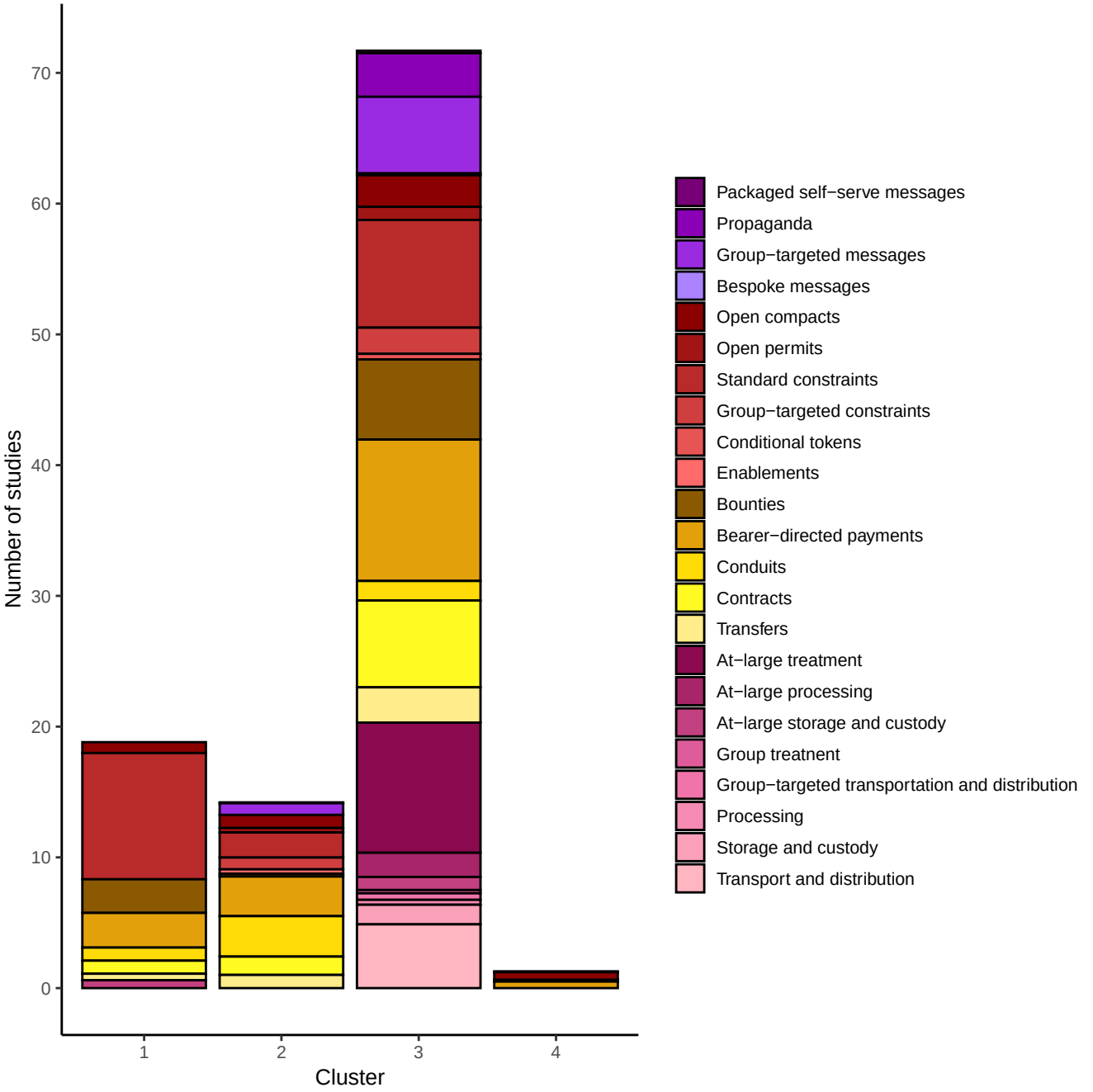

model
types
ABM
cellular automata
system dynamics model
optimisation
PE model
CGE model
microsimulation model
statistical/econometric
mathematical other
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

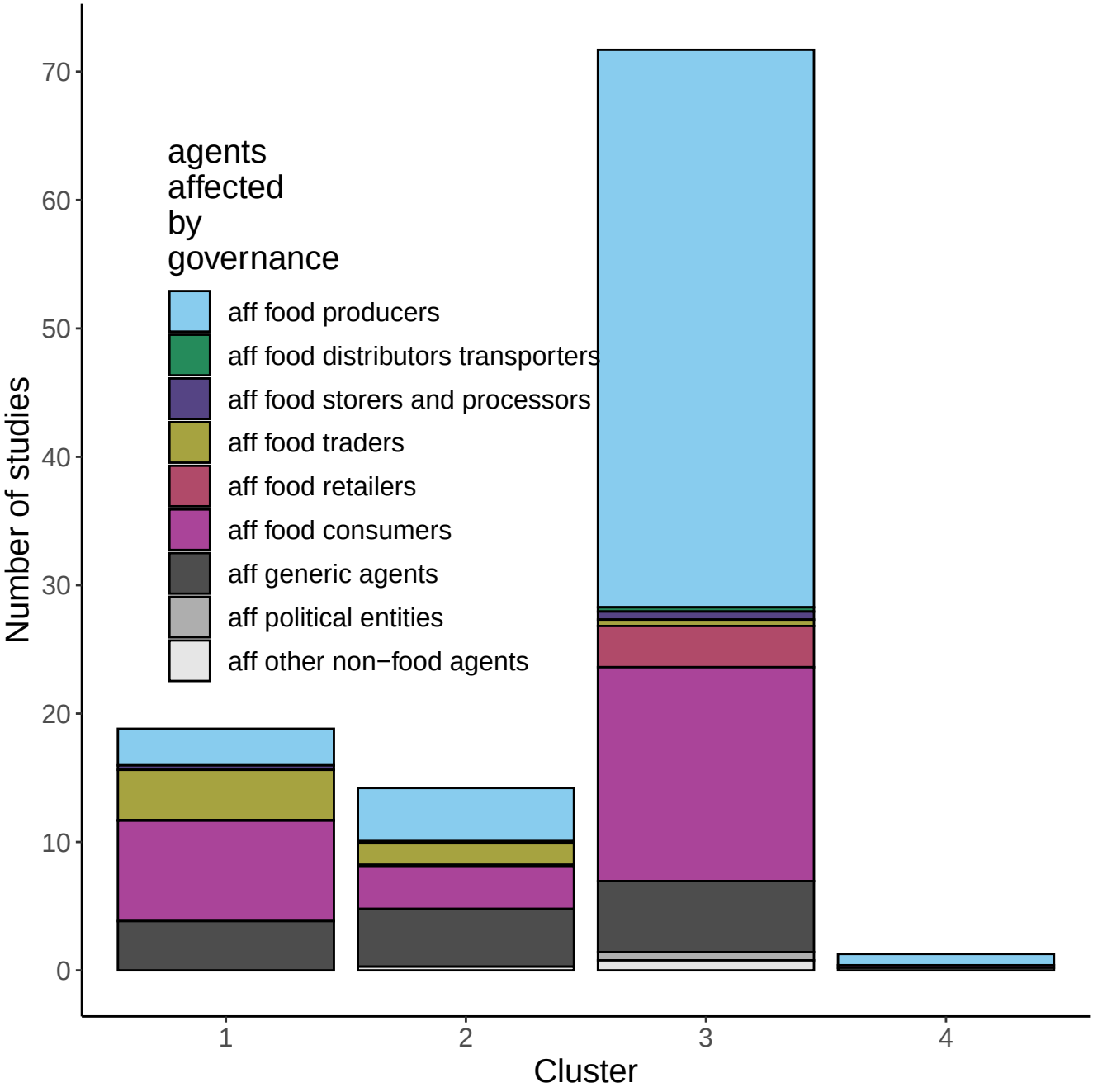

modelled
value−chain
echelons
production*
distribution & transport
storage and processing
trade & wholesale
retail
consumption
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

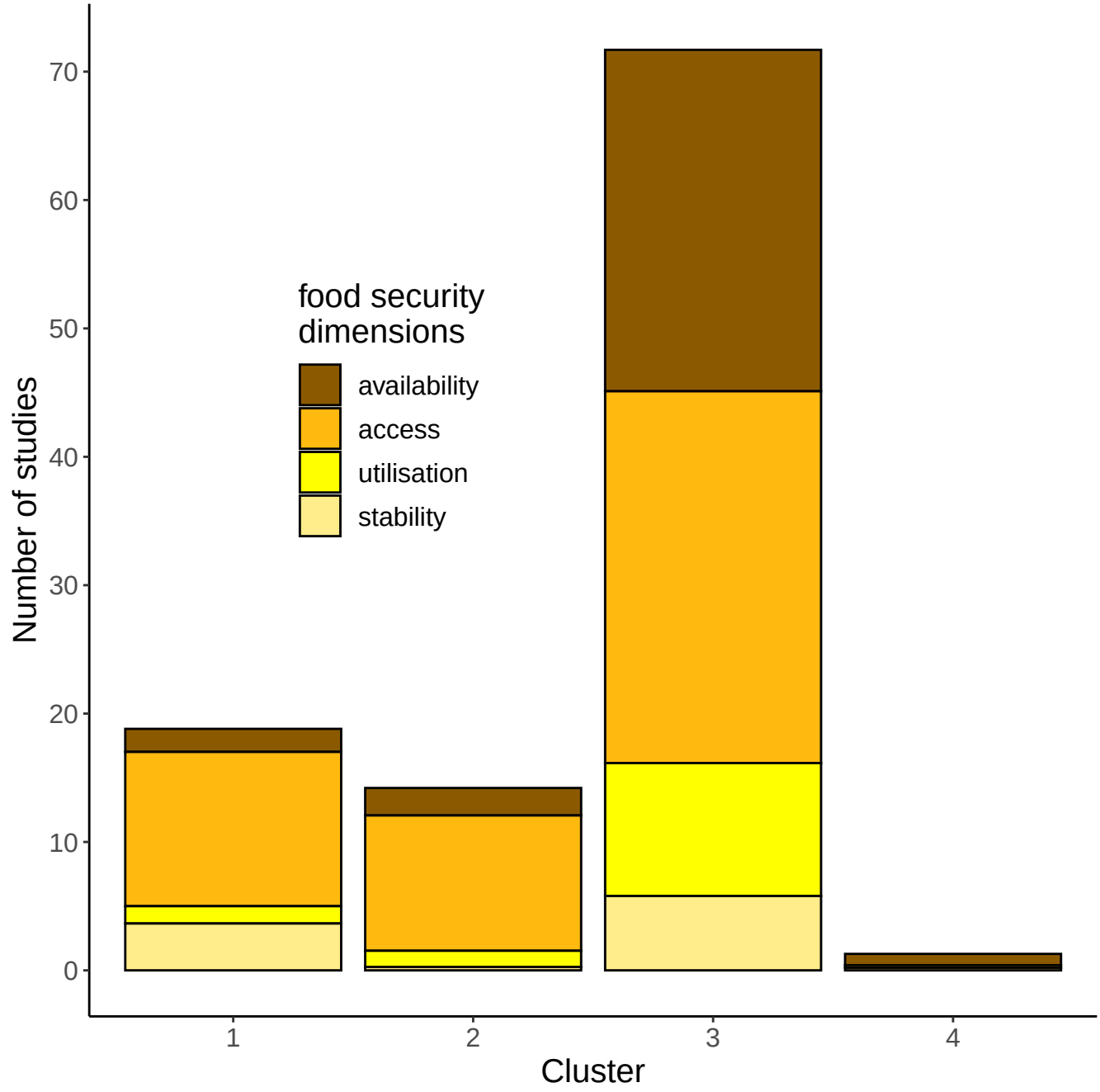

modelled commodities
cereals & ...
compisite ...
composite ...
fodder cro...
fruits and...
livestock ...
non−food c...
oil crops ...
roots and ...
seeds for ...
stimulant ...
vegetables...
cereals & ...
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

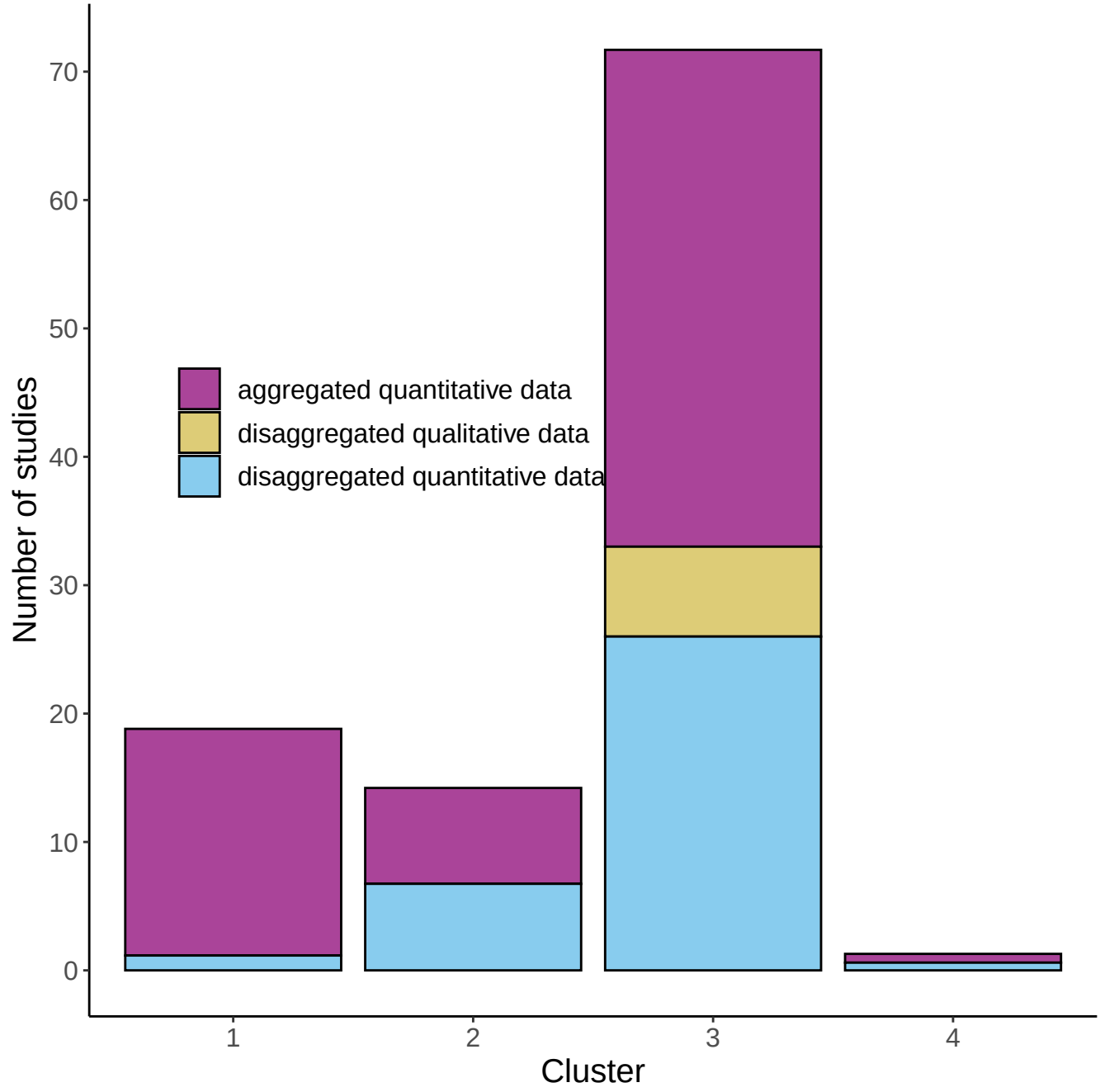

modelled regions
East Asia & Pacific
Europe & Central Asia
Latin America & Caribbean
Middle East & North Africa
North America
South Asia
Sub−Saharan Africa
NA
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

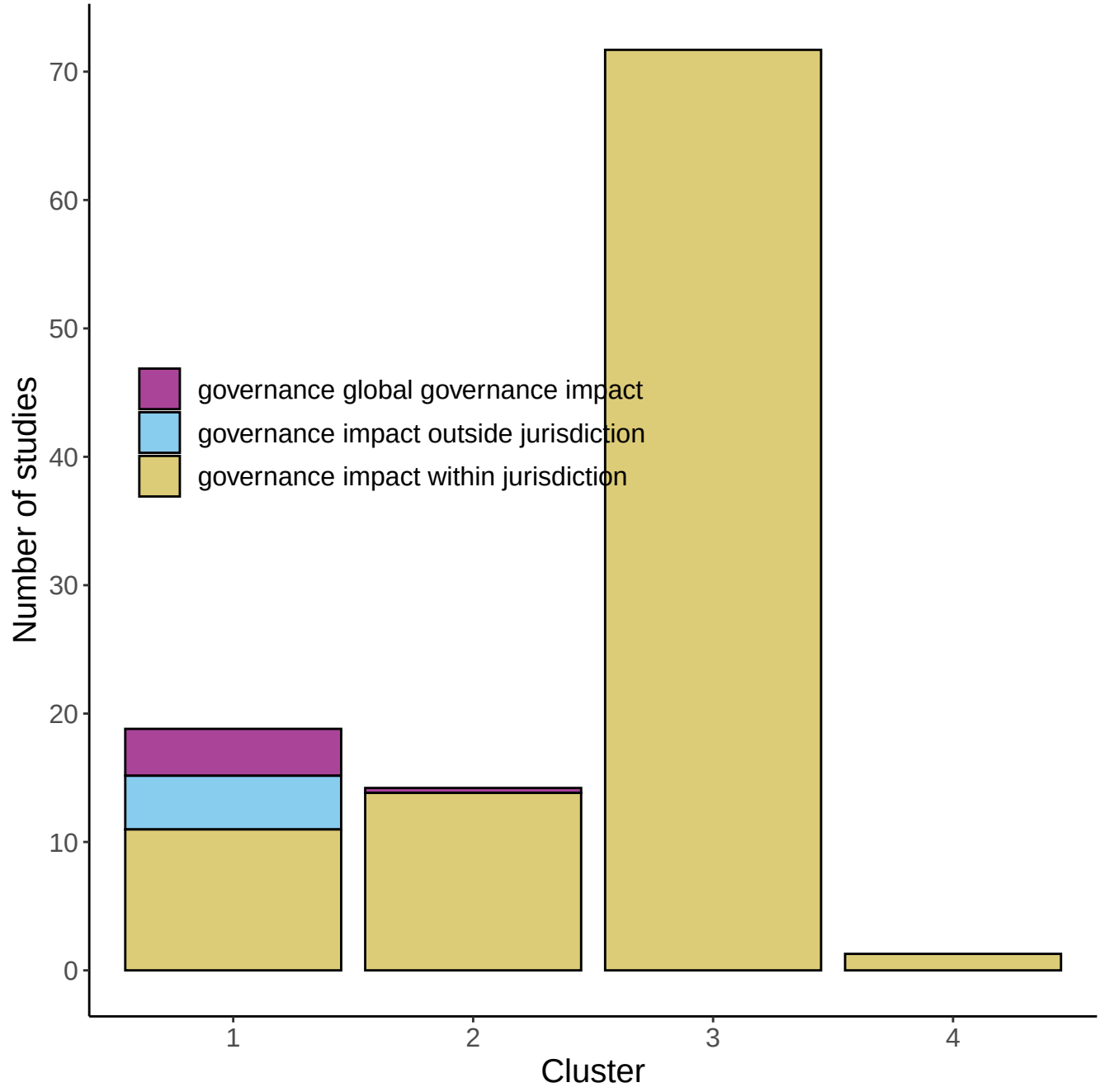

governance objectives
availability
access
utilisation
stability
macro−economic
infrastructure, logistics & tech
environmental/climate
other
NA
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster

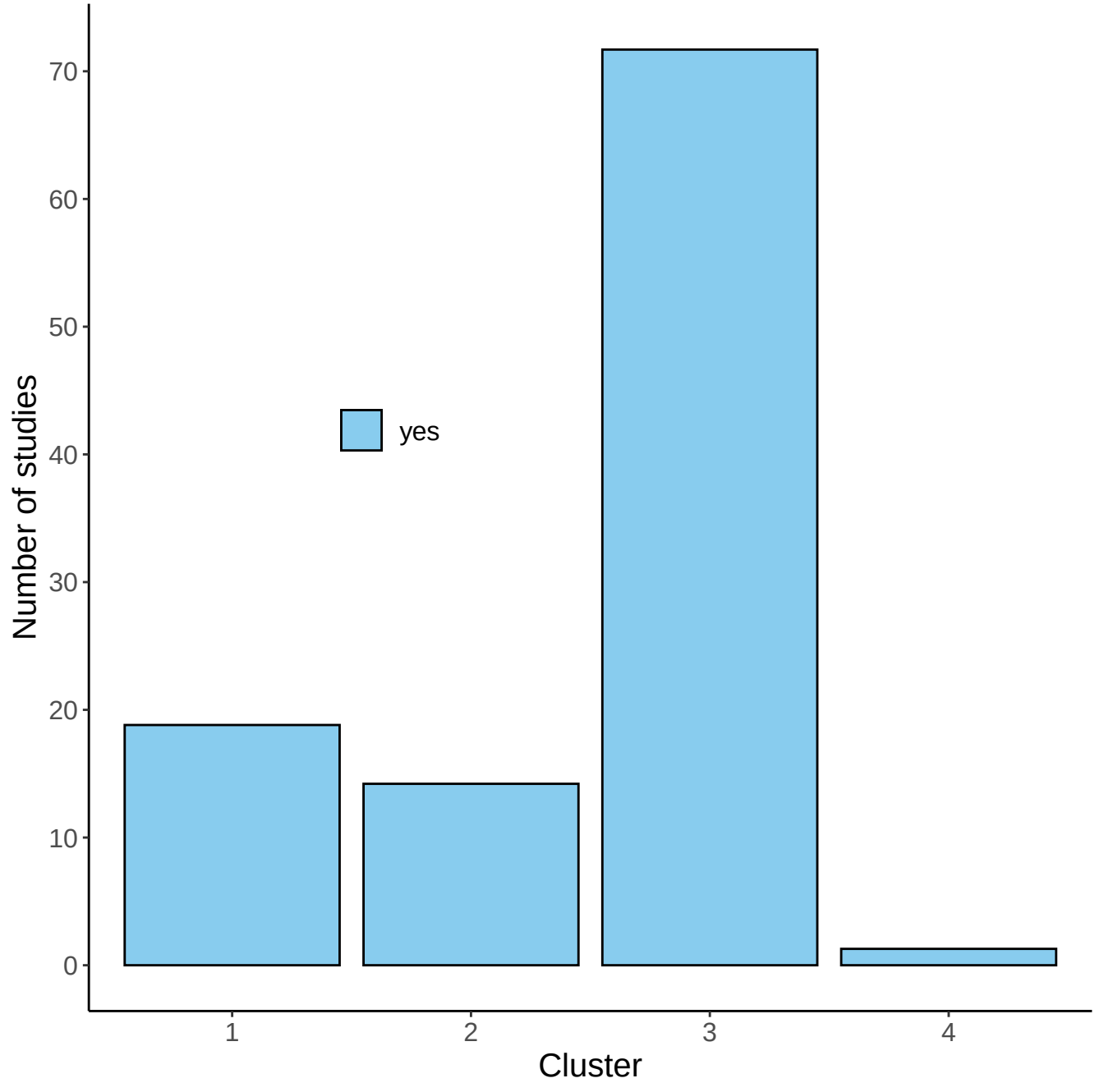

Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster
Packaged self−serve messages
Propaganda
Group−targeted messages
Bespoke messages
Open compacts
Open permits
Standard constraints
Group−targeted constraints
Conditional tokens
Enablements
Bounties
Bearer−directed payments
Conduits
Contracts
Transfers
At−large treatment
At−large processing
At−large storage and custody
Group treatnent
Group−targeted transportation and distribution
Processing
Storage and custody
Transport and distribution


agents affected by governance
aff food producers
aff food distributors transporters
aff food storers and processors
aff food traders
aff food retailers
aff food consumers
aff generic agents
aff political entities
aff other non−food agents
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster


food security dimensions
availability
access
utilisation
stability
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster


aggregated quantitative data
disaggregated qualitative data
disaggregated quantitative data
Number of studies
0
10
20
30
40
50
60
70
1
2
3
4
Cluster


Number of studies
70
60
50
40
30
20
10
0
governance global governance impact
governance impact outside jurisdiction
governance impact within jurisdiction
1
2
3
4
Cluster


Number of studies
70
60
50
40
30
20
10
0
yes
1
2
3
4
Cluster