Start

Initialize agents and urban environment

Appraise threat

Threat?

No OR abandoned Primary measure?

Yes

Appraise coping

Coping?

No

Implement individual adaptation measures

Flood event?

No

Load flood map

Assess flood impact

Execute measure abandoning

Update agent attributes and global variables

Simulation finished?

Yes

End

No

RN ≤ \( p_{\text{adaptation, primary}} \)?

Yes

Implement primary measure depending on the house type

RN ≤ \( p_{\text{adaptation, secondary}} \)?

No

Do nothing

Yes

Garden house OR bungalow?

No

Implement secondary measure

Yes

Implementation of secondary measure?

Abandon secondary measure

Temporary primary measure implemented?

Abandon primary measure

Adaptation measure implemented?

No

Abandoned measure more than a threshold?

Yes

Do nothing

No

RN ≤ \( p_{\text{abandoning}} \)?

No

Abandon primary measure

Yes

Secondary measure implemented?

Abandon secondary measure

No

Temporary primary measure implemented?

Abandon primary measure

No

Do nothing

Yes