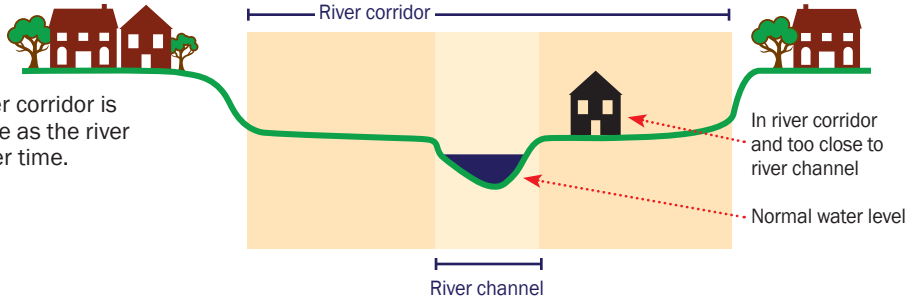


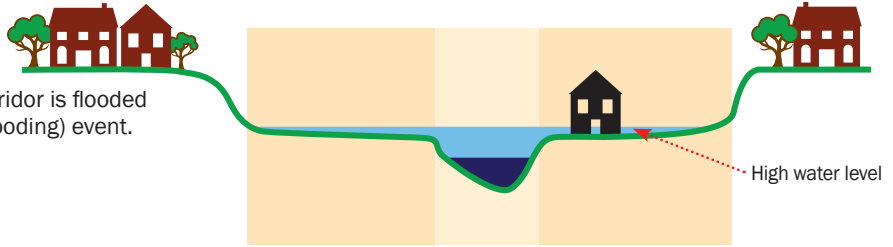
1. Development in River Corridor

Structure built in river corridor is vulnerable to damage as the river channel changes over time.



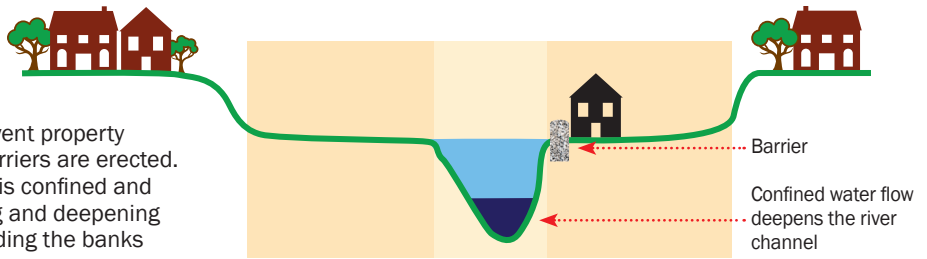
2. Flooding Event

Structure in river corridor is flooded during high water (flooding) event.



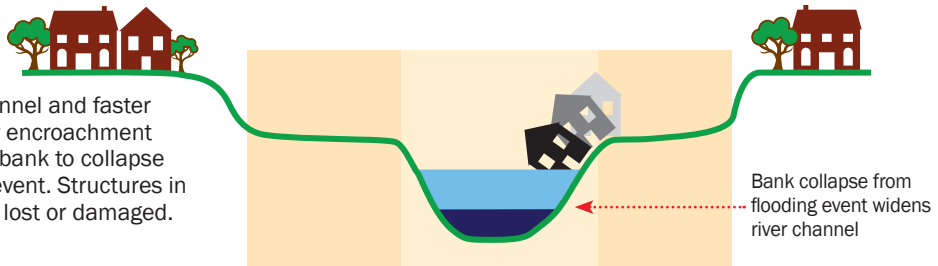
3. Attempt to Protect Property after Flooding

In an attempt to prevent property damage, physical barriers are erected. As a result, the river is confined and flows faster, scouring and deepening the channel and eroding the banks downstream.



4. Unintended Damage

The deeper river channel and faster water flow caused by encroachment eventually leads the bank to collapse during a high water event. Structures in the river corridor are lost or damaged.



5. Reduced Flood Risk

The energy from scouring water redistributes sediments and establishes a new floodplain. With room in the river corridor for the river to move and to flood, property damage is reduced.

