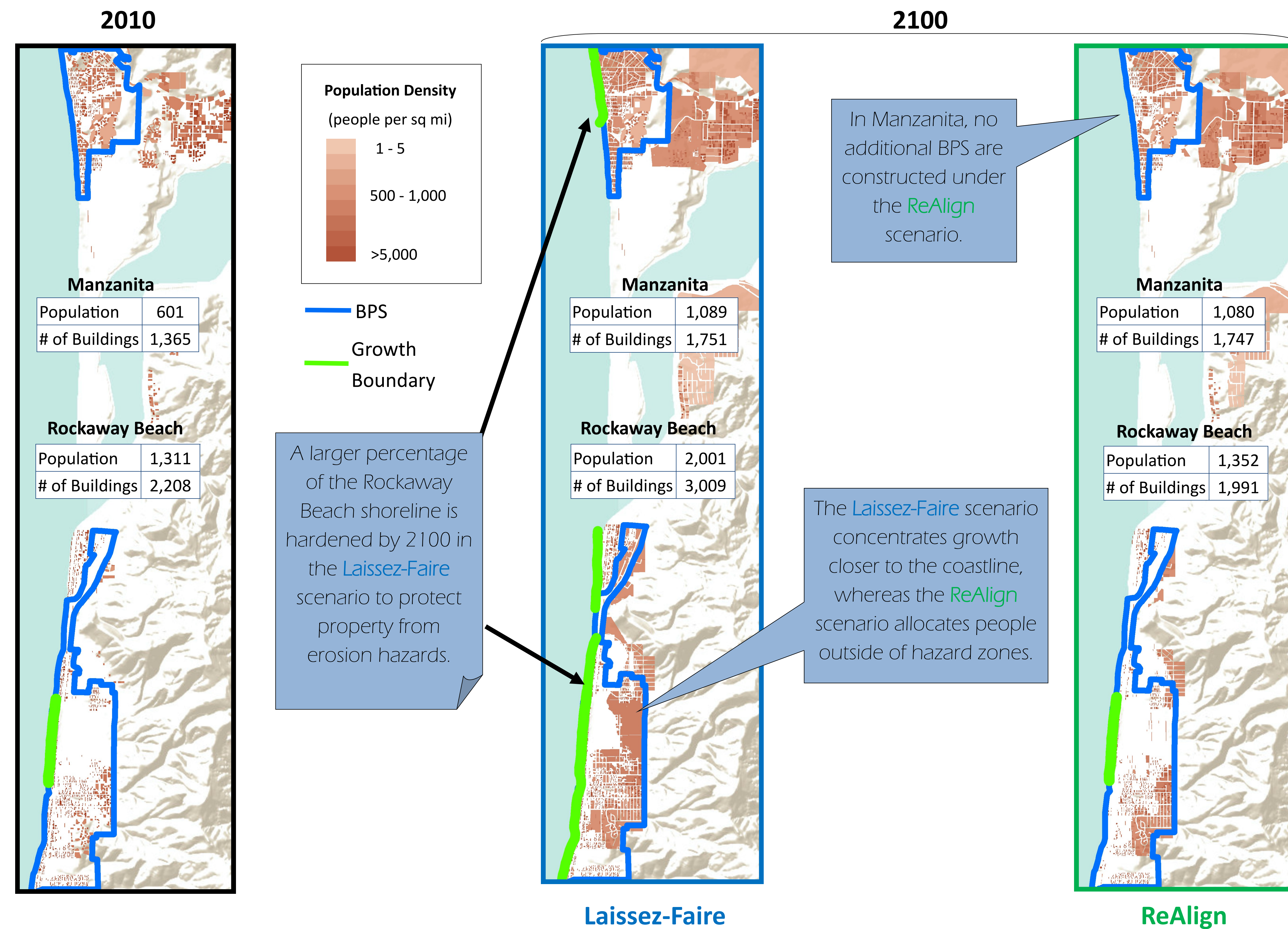


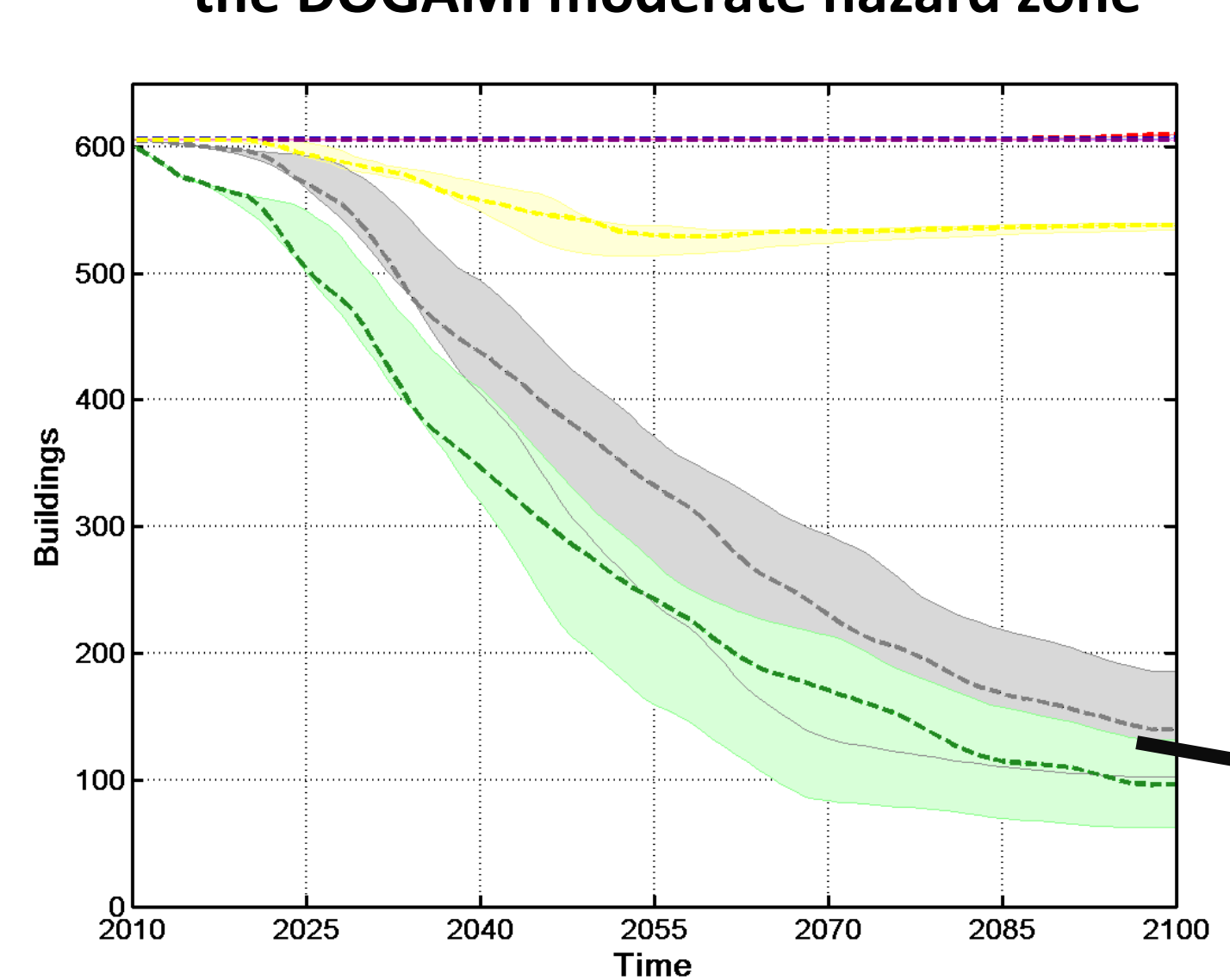
How do development patterns change over time?

Take Home Message: Policy scenarios that restrict development within coastal hazards zones consequently limit population within the Rockaway Beach and Manzanita growth boundaries.

1. Population density in 2010 and in 2100 in the **Laissez-Faire** and **ReAlign** policy scenarios under the average medium impact climate scenario

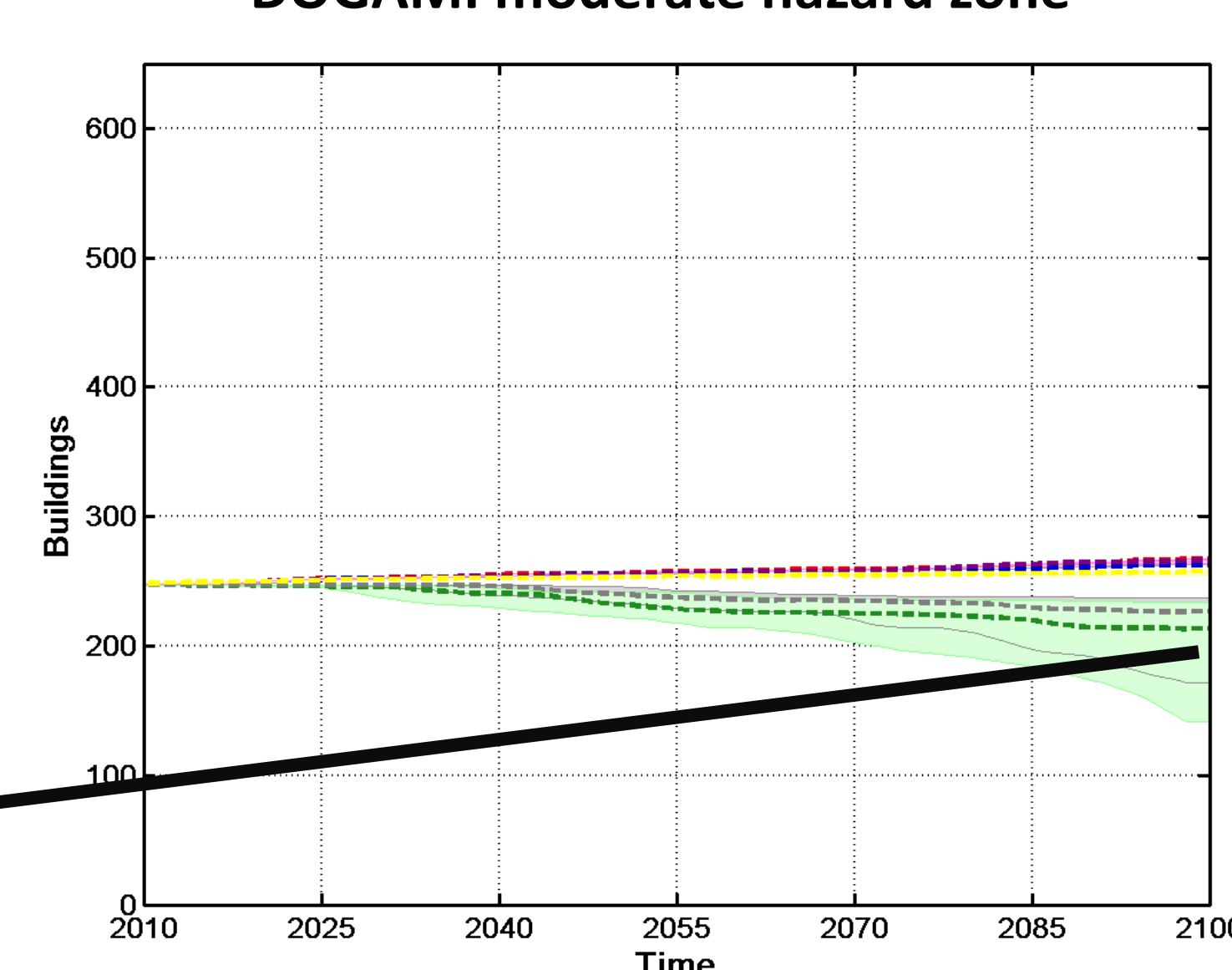


2. Buildings in Rockaway Beach located in the DOGAMI moderate hazard zone



Decreases in the number of buildings within the hazard zones are due to the relocation of buildings/formation of easements in response to coastal hazard impacts.

3. Buildings in Manzanita located in the DOGAMI moderate hazard zone



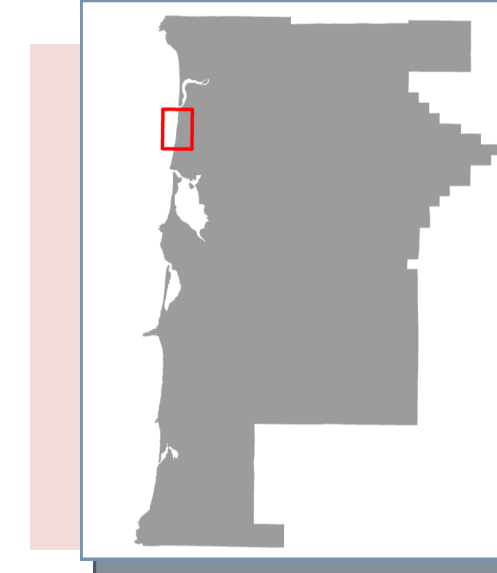
Key Points:

- The majority of Rockaway Beach is armored by 2100 in the scenarios in which additional BPS construction is permitted, whereas only approximately half of the Manzanita shoreline is armored by 2100 (Map 1).
- Rockaway Beach has ~250 more buildings in the DOGAMI moderate hazard zone than Manzanita in 2010. In the **ReAlign** and **Hybrid** policy scenarios, the creation of easements removes more buildings from within the hazard zone in Rockaway Beach than in Manzanita (Graphs 2 and 3).

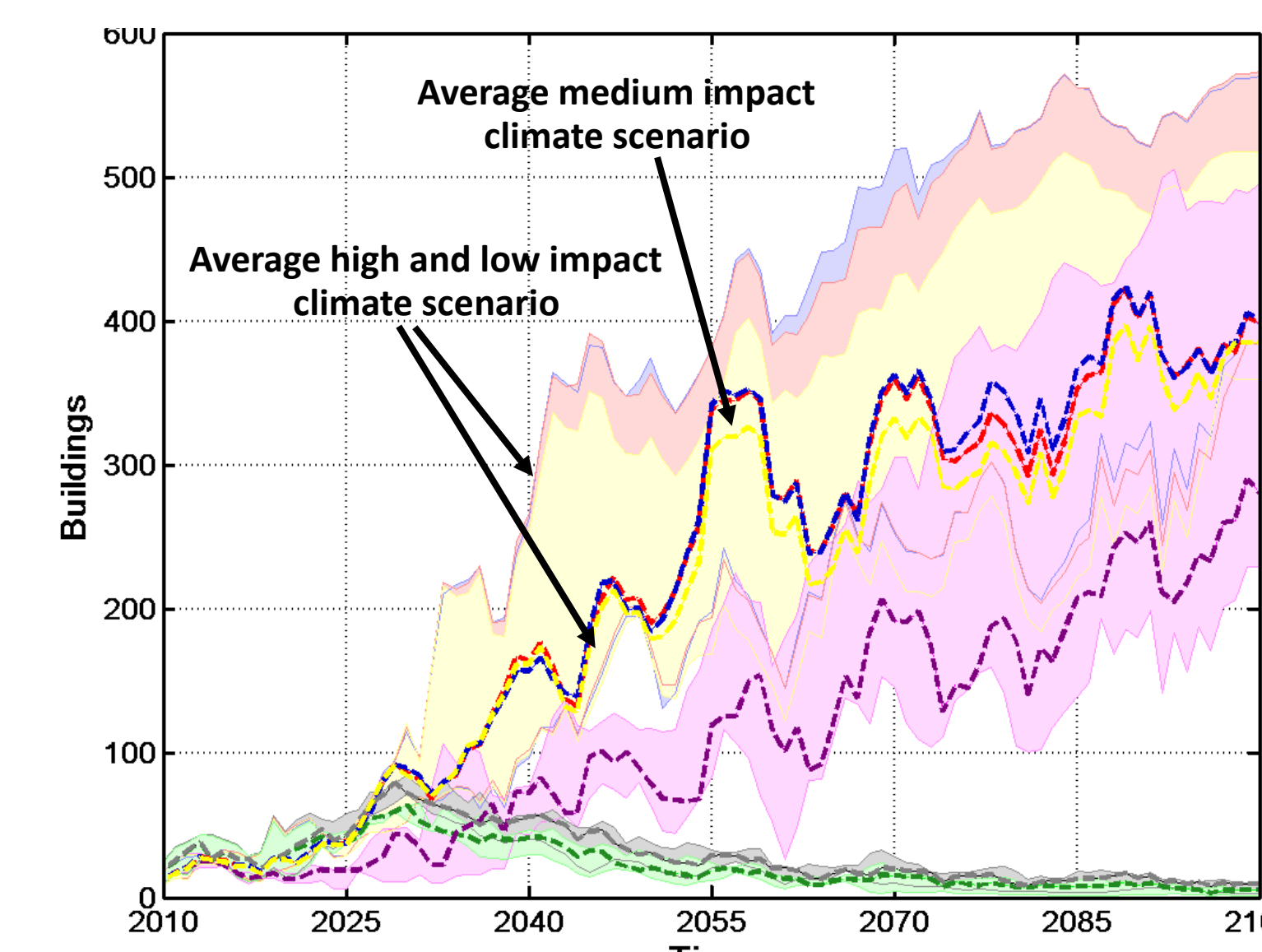
How will property be impacted by coastal flooding and erosion hazards in the future?

Take Home Message: Policy scenarios affect coastal hazard impacts within Manzanita and Rockaway Beach at different times and in varying magnitudes.

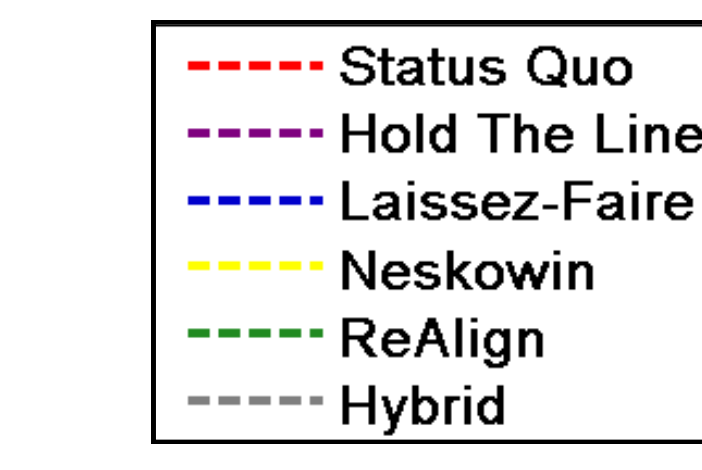
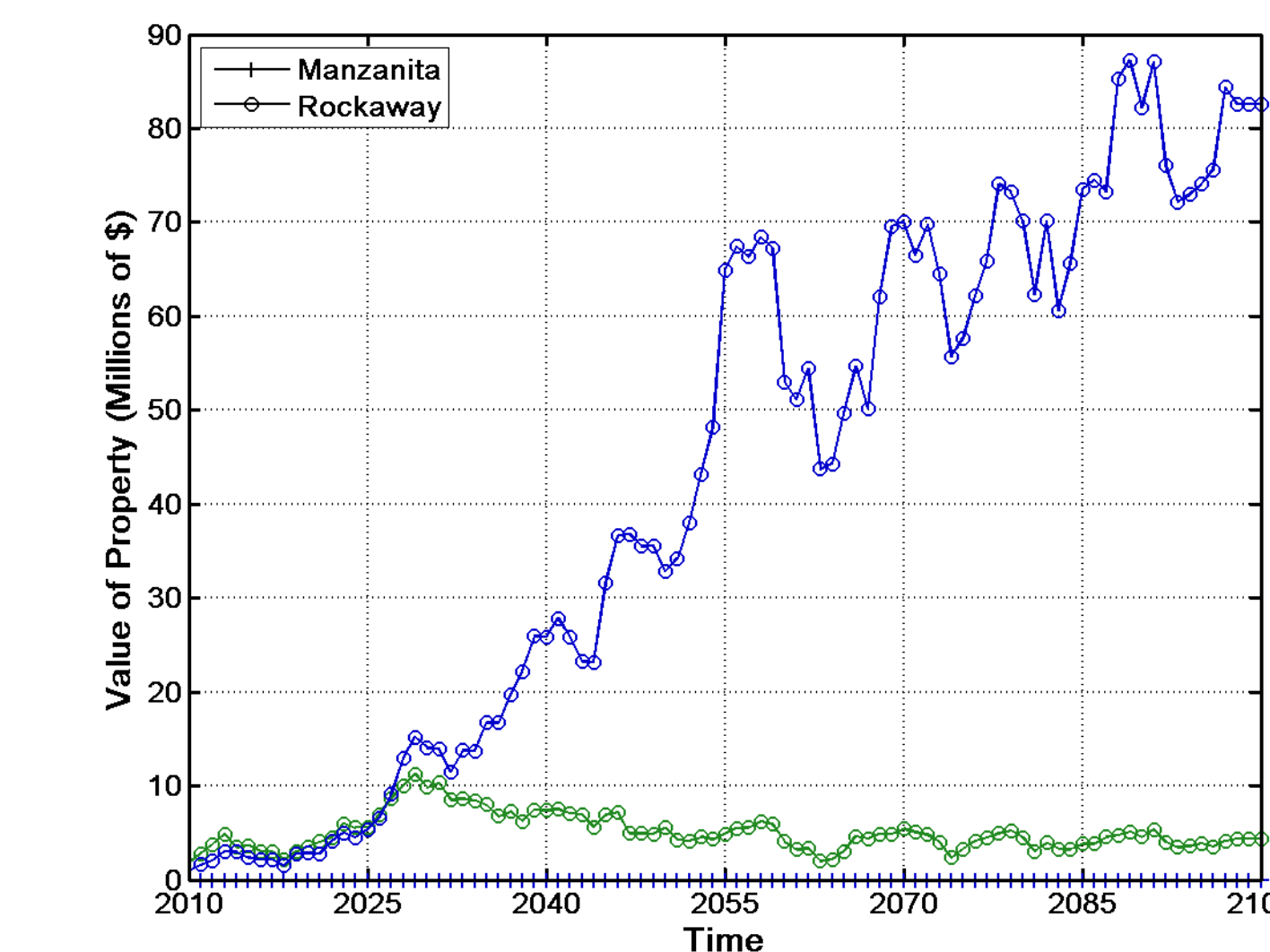
Rockaway Beach



4. Number of buildings in Rockaway Beach impacted by flooding

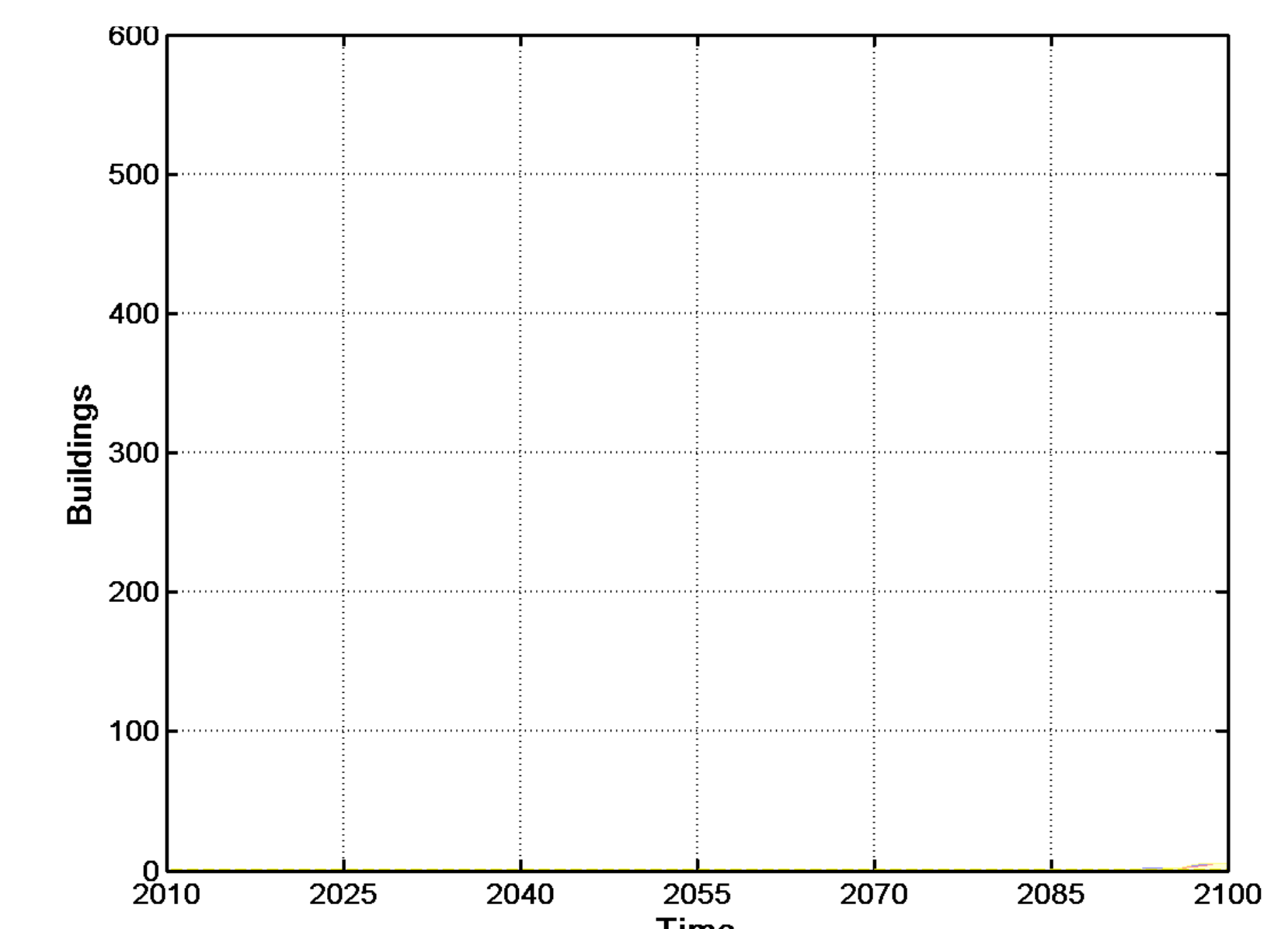


5. Value of property impacted by flooding in the **Laissez-Faire** and **ReAlign** policy scenarios under the average medium impact climate scenario

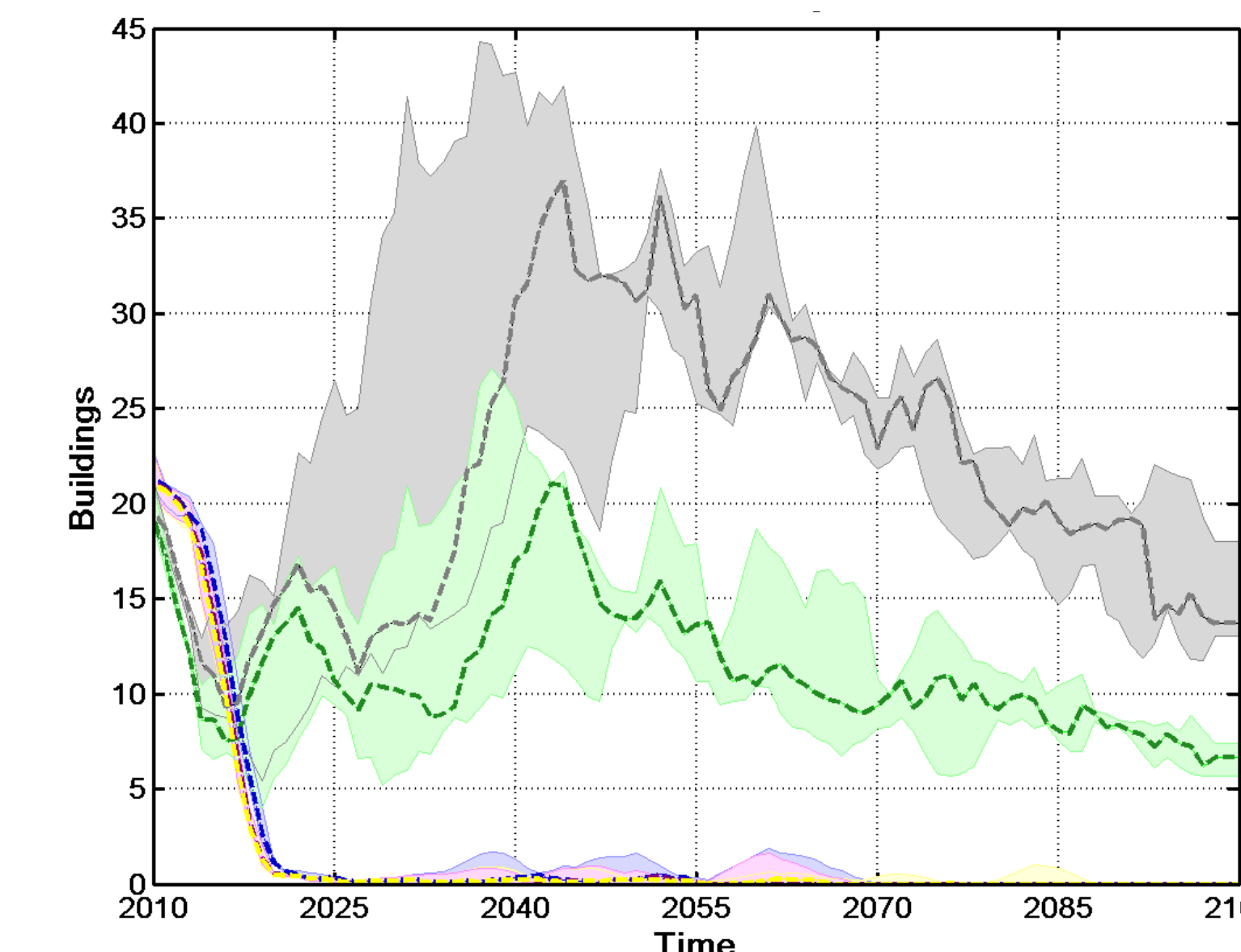


By the end of the century, the number of buildings impacted by both flooding and erosion is greater across almost all scenarios in Rockaway Beach compared to Manzanita.

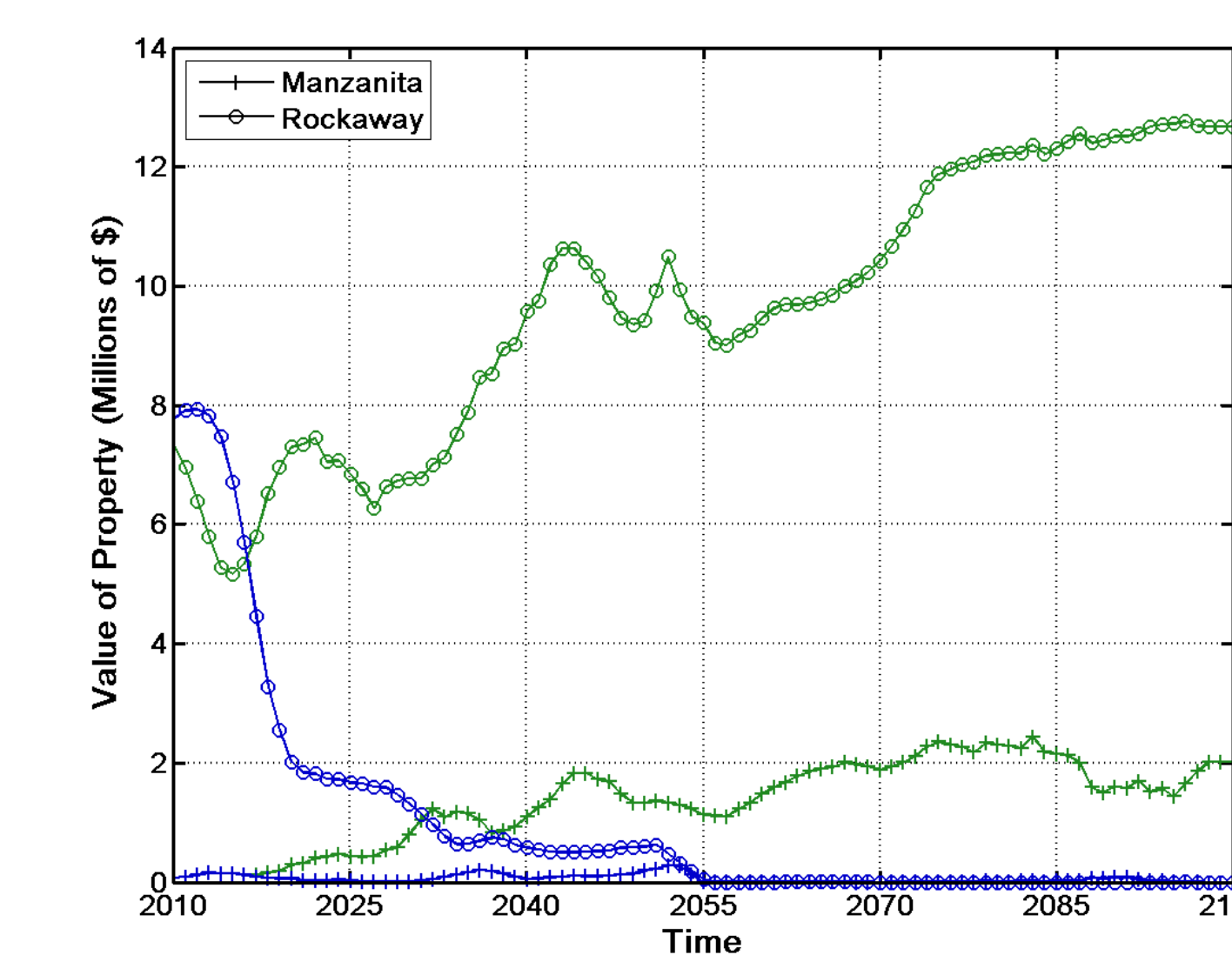
6. Number of buildings in Manzanita impacted by flooding



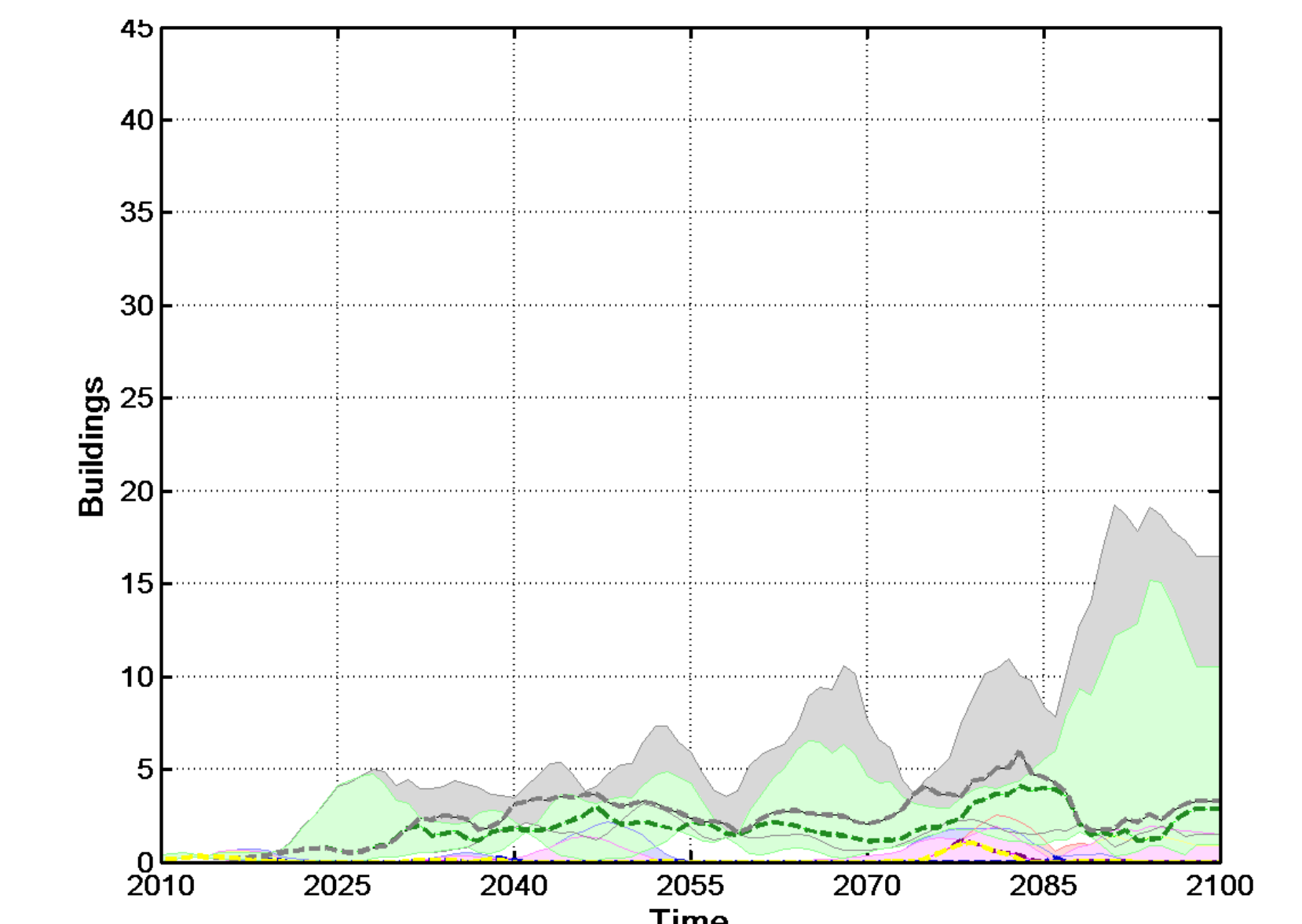
7. Number of buildings in Rockaway Beach impacted by erosion



8. Value of property impacted by erosion in the **Laissez-Faire** and **ReAlign** policy scenarios under the average medium impact climate scenario

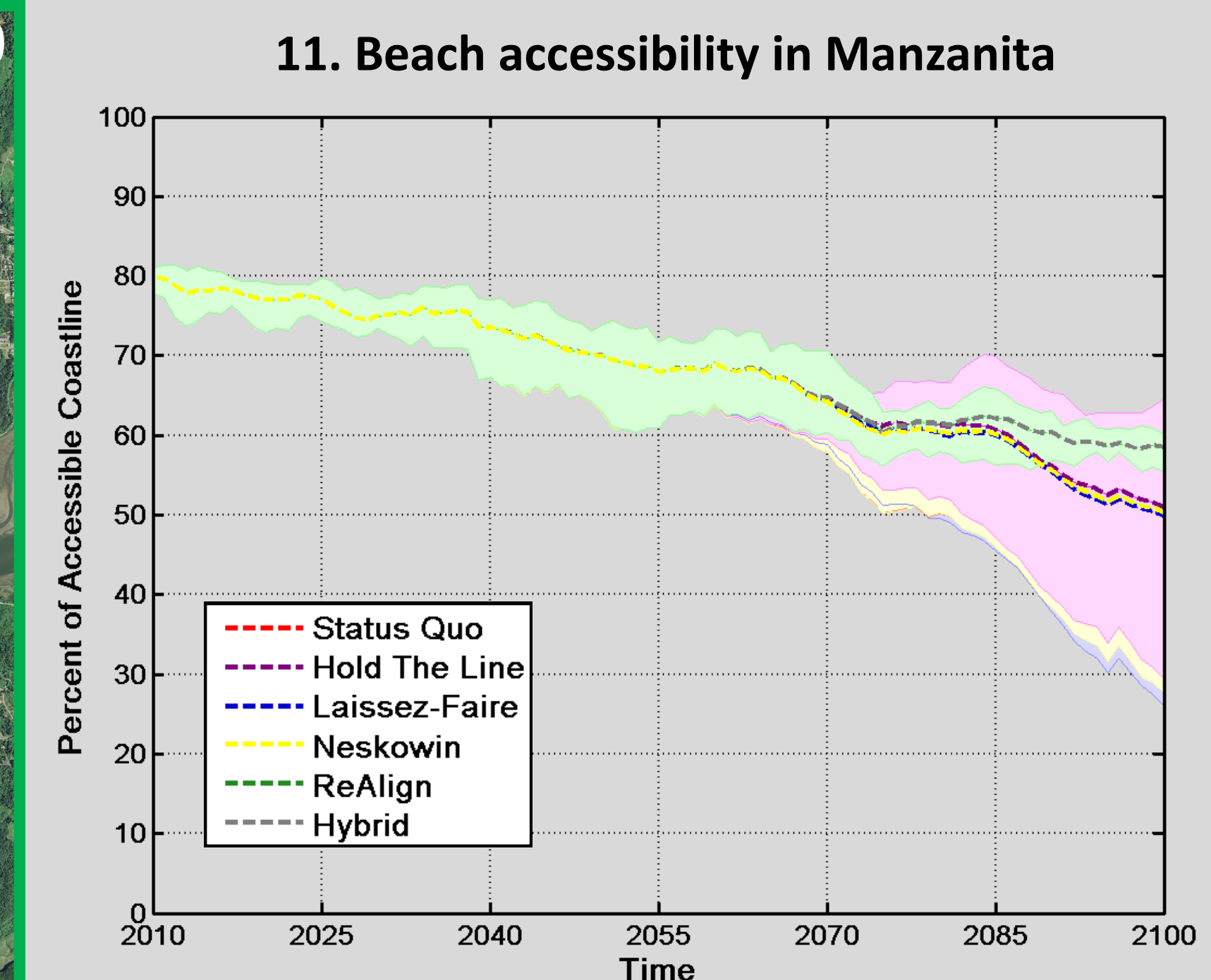
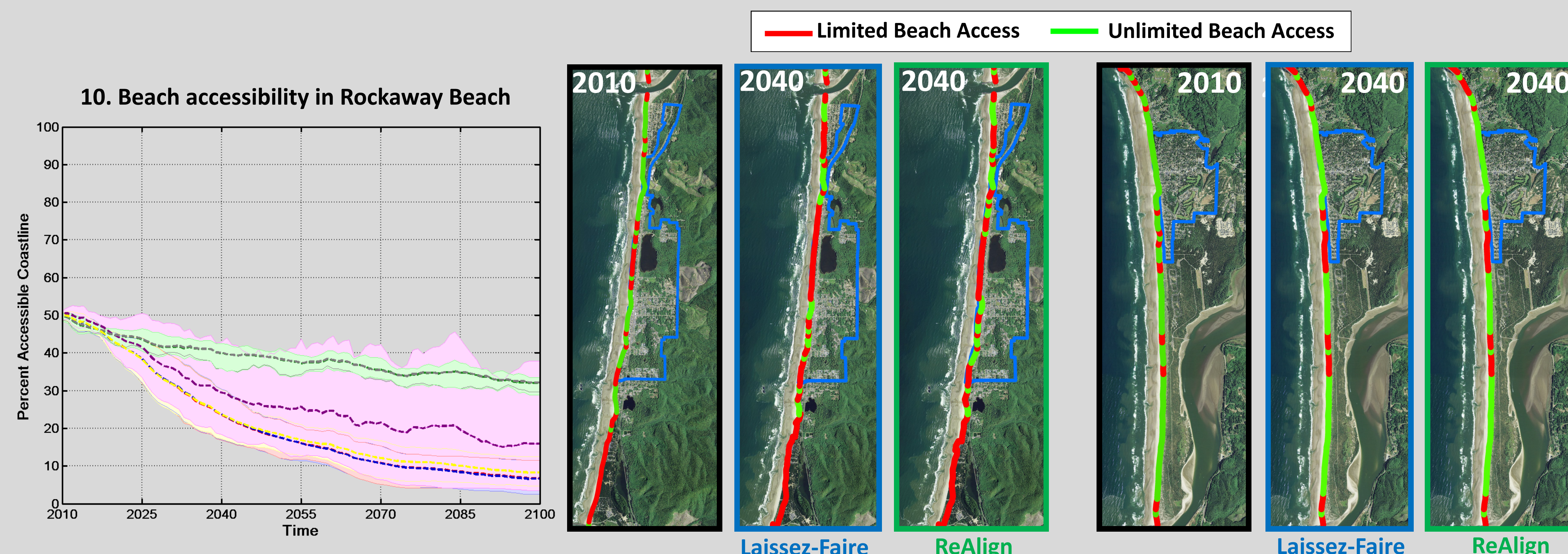


9. Number of buildings in Manzanita impacted by erosion



What extent of the beach is accessible?

Take Home Message: Beach accessibility decreases under all policy scenarios by 2100, but less so in the **Hold the Line**, **ReAlign**, and **Hybrid** policy scenarios.



Key Points:

- Rockaway Beach experiences flooding impacts to buildings under all scenarios, whereas Manzanita sees almost no flooding impacts to buildings under any climate impact scenario (Graphs 4 and 6).
- Rockaway Beach and Manzanita experience the greatest impacts to buildings by erosion under the **ReAlign** and **Hybrid** policy scenarios (Graphs 7 and 9).
- The beach in Manzanita is more accessible than Rockaway Beach by the end of the century under all climate impact scenarios (Graphs 10 and 11).