



Urban development scenarios after the sea level rise in Koper

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Satellite-measured sea levels continue to rise. Sea level rise is a global phenomenon caused by multiple factors: climate change, ice mass loss from Greenland and Antarctica, melting glaciers and polar ice caps, and others. Projections show that, with no further raising of dikes and no beach nourishment, the number of people affected annually in Europe by coastal flooding would be much higher in 2100 than in 2000. Solutions such as raising dikes and beach nourishment in response to sea level rise would strongly reduce the number of people flooded and total damage costs. In Slovenia, the areas at risk of the consequences of sea level rise include neighborhoods around the historical town of Koper. Two urban development scenarios present the possible urban future of the area: the first one prevents flooding along the existing waterfront, and the second one allows the increased water to enter the urbanized city area.