

Smithfield is a thriving centre area located 15 km north of Cairns between Trinity Park and Kamerunga, home to more than 5000 people, and considered the business and trade centre of Cairns' northern beaches.



PRIORITY
WHOLE OF COAST
ONGOING
ADAPTATION
ACTIONS

Monitoring

Community
awareness and
education

Emergency
management

Planning
considerations

Native
vegetation
and habitat
management



COMMUNITY ASSETS AT RISK BY 2100

- Smithfield is vulnerable to inundation from coastal hazards due to the low-lying land adjacent to watercourses
- Important infrastructure and assets are at risk from coastal hazards

- Marlin Coast Wastewater Treatment Plant
- Smithfield Transfer Station
- Open space areas (e.g. Oakville Parade Park, Cattana Wetlands Environmental Park)
- Industry areas
- Tourism and Community infrastructure (e.g. Skyrail Rainforest Cableway)
- Various roads and services (e.g. sewer and water networks)

WHAT THE COMMUNITY VALUES

- Culturally significant sites
- Bushland
- Agricultural land
- Cattana Wetlands
- Mountain bike park
- Shopping centre

COMMUNITY ADAPTATION PRIORITIES

- Restoring and migrating wetlands to protect wildlife habitat
- Avoid long-life assets in coastal hazard areas
- Planning policy responses to retain conservation areas
- Raising road levels to mitigate impacts from inundation
- Investigation into coastal hazard impacts on key infrastructure (i.e. transfer station, waste water treatment plant)

Local Adaptation Pathways to respond to coastal hazards

(For community assets, based on monitored sea level rise)

TIMING BASED ON SEA LEVEL RISE

SHORT TERM	MED TERM	LONG TERM
0-0.3m	0.3-0.6m	>0.6m

BEACH & FORESHORE MANAGEMENT

- Plan to update or relocate existing public infrastructure that is at the end of its design life, including a sewerage pump station, wastewater treatment plant, waste transfer station, roads and services to reduce their exposure to coastal hazard risks
- Manually change land levels or road levels within coastal inundation hazard areas to reduce risk for new or upgraded public assets. This should focus on evacuation routes including, Captain Cook Highway, Yorkeys Knob Rd and Dunne Rd and Smithfield Bypass (by asset owner).



MODIFY INFRASTRUCTURE AND HAZARD RESILIENT DESIGN

- Protect public infrastructure by constructing protection works (e.g. engineered walls) seaward of valued assets to hold the shoreline in the current position and reduce inundation impacts
- Tidal gate across Yorkeys Creek and / or Half Moon Creek to decrease inundation in Smithfield which will protect low-lying assets in the area



ACCEPT THE RISK AND EMBRACE COASTAL PROCESSES

- Progressively review or relocate public infrastructure as inundation encroaches on assets

