

THE LIMESTONE COAST OPTIONS TO ADAPT TO A CHANGING CLIMATE

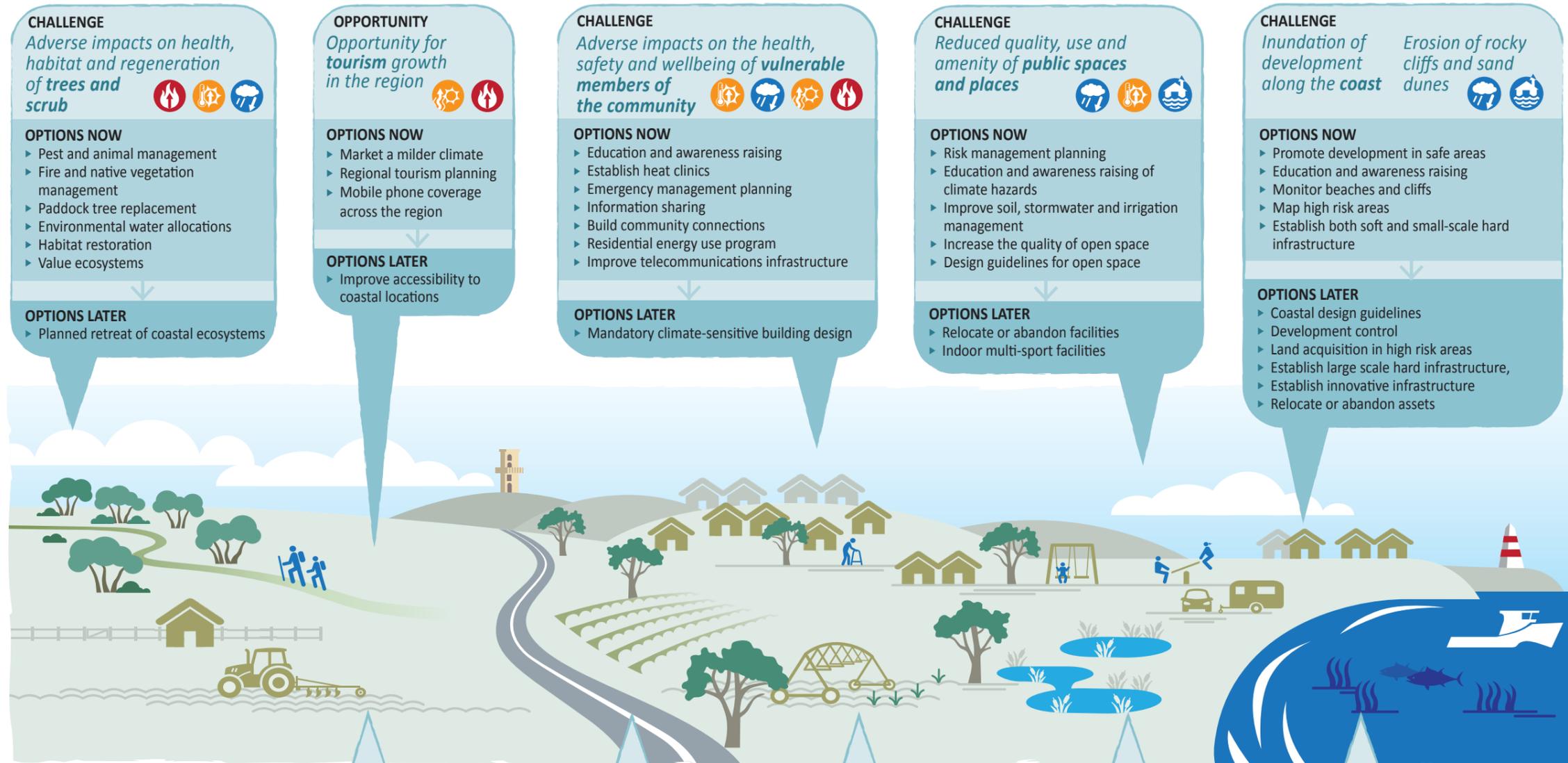
The Limestone Coast Regional Climate Change Adaptation Plan identifies what we can do across the region to make sure our businesses, communities and environments respond positively to the challenges and opportunities of a changing climate

In developing the Climate Change Adaptation Plan, an Integrated Vulnerability Assessment (IVA) was undertaken to understand how climate change might impact what we value in our region (eg health and well being, our rural lifestyle, primary production, biodiversity, water availability).

The IVA helped identify what is more vulnerable to climate change, and where to focus actions to help us adapt.

For some aspects of the region, one or two key things can be done to reduce our vulnerability to climate change. For others, there are many options, and implementing some or all of these can contribute to building our resilience and enable the region to adapt. Some options should start now. Others can happen later, but preparation and planning may need to commence soon.

OPTIONS FOR OUR REGION TO ADAPT TO CLIMATE CHANGE...



CHANGES IN OUR CLIMATE BY 2070

<p>AVERAGE ANNUAL RAINFALL Average annual rainfall is projected to decrease by 6.8%, spring rainfall is projected to reduce by 21% and winter rainfall is projected to reduce by less than 1%</p>	<p>BUSH FIRE RISK The number of severe bush fire risk days is projected to increase by 36%</p>
<p>RAINFALL INTENSITY/ STORMS The intensity of heavy rainfall events is projected to increase by 5%</p>	<p>SEA LEVEL RISE Sea levels are projected to rise 30-40cm</p>
<p>EXTREME TEMPERATURES The number of days over 35°C is projected to increase by about 50%</p>	<p>OCEAN ACIDITY Ocean acidity is projected to increase with a 0.15 to 0.30 decline in pH projected by 2090*</p>
<p>AVERAGE TEMPERATURE Average maximum temperatures are projected to increase by 1.4°C</p>	<p>SEA SURFACE TEMPERATURE Sea surface temperature is projected to increase by 1-2°C by 2090*</p>

*Data available for 2090

<p>CHALLENGE Impacts on growing seasons and quality of agriculture products, increased risk of pests and disease</p> <p>OPTIONS NOW</p> <ul style="list-style-type: none"> ▶ Information sharing ▶ Capacity building <p>OPTIONS LATER</p> <ul style="list-style-type: none"> ▶ Greater use of drainage for localised groundwater recharge 	<p>CHALLENGE Increased disruption to road networks</p> <p>OPTIONS NOW</p> <ul style="list-style-type: none"> ▶ Improve road design standards, maintenance and asset maintenance ▶ Education and awareness <p>OPTIONS LATER</p> <ul style="list-style-type: none"> ▶ Upgrade or relocate roads in high risk areas 	<p>CHALLENGE Risks to water security due to reliance on groundwater resources</p> <p>OPTIONS NOW</p> <ul style="list-style-type: none"> ▶ Education and awareness ▶ Improve water use efficiency ▶ Research and monitoring ▶ Water allocation planning <p>OPTIONS LATER</p> <ul style="list-style-type: none"> ▶ Investigate feasibility to recharge aquifer with drainage water ▶ New approach to water management 	<p>CHALLENGE Impacts on biodiversity and quality and quantity of water in wetlands</p> <p>OPTIONS NOW</p> <ul style="list-style-type: none"> ▶ Prioritise future investment <p>OPTIONS LATER</p> <ul style="list-style-type: none"> ▶ New approach to drainage network management and allocation of water 	<p>CHALLENGE Impacts on diversity and distribution of marine habitats and fisheries</p> <p>OPTIONS NOW</p> <ul style="list-style-type: none"> ▶ Improve surface water quality through land management ▶ Monitor species & habitats ▶ Education and awareness of catch limits ▶ Periodic closure of fisheries <p>OPTIONS LATER</p> <ul style="list-style-type: none"> ▶ Target alternative species
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For more information and to view the Plan visit www.naturalresources.sa.gov.au/southeast



Government of South Australia
South East Natural Resources Management Board

