

AUSTRALIAN COASTSAFE

The national coastal safety management service of Surf Life Saving Australia

Coastal Public Risk

Safety Mapping

Adam Weir Coastal Risk Manager CoastSafe SLSA

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- coastal management organisation,
- private developers and tourism operators
- The aim is to reduce the risk of injury or death and protect the reputation of Australia's coastal lifestyle and the significant economic value this brings to our nation.

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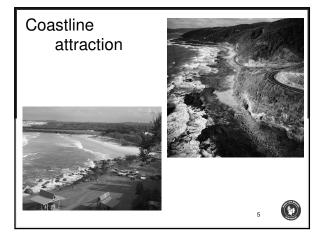
Outline

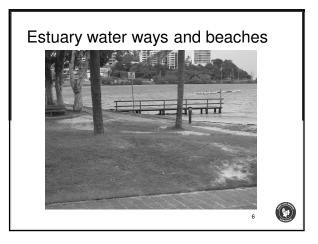
- CoastSafe
- Context
- Coastal Risk Management
- · Guidelines and Standards
- Implementation of Geographical Information Systems & Technology
- Future Research and Development
- Strategic Direction for SLSA & CoastSafe

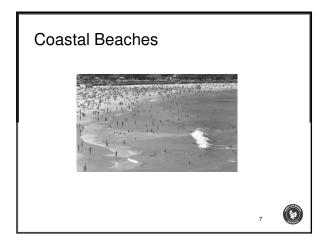
Context

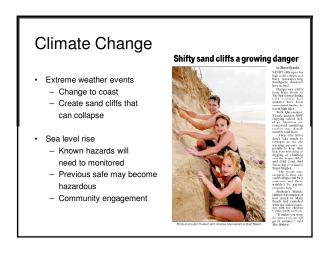
- Over 85%[i] of Australians live near the coast
- Our tourist beaches alone receive an estimated 55
 million visitations every year
- Coastline of Australia covers more than 35,877kms and when all islands are included the length increases to 59,736kms[ii]
- Living on and visiting the coasts: social, health and lifestyle benefits, also inherent and unpredictable risk.
- Only 3% of Australia's 11,748 beaches have a lifesaving or lifeguard service

[i] Australian Bureau of Statistics, 2004 [ii] Geoscience Australia









Climate Change Climate change Vulnerability People impacts of human use. Lifestyles - Access - Emergency Services health, safety and wellbeing such as lifesavers Surf lifesaving clubs: e.g. · Seaspray, Victoria 2007

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- Coastal policies, strategies and plans give due considerations to the costal environment, the ecology, biology, geomorphology and the
- Few give reasonable consideration to human safety
- Environmental impacts from climate change will affect human
- Social and economic effect of climate change
- Human safety in the coastal zone can be managed with improved programs such as coastal risk management and coastal monitoring

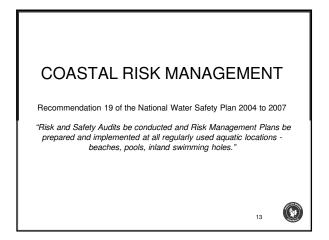
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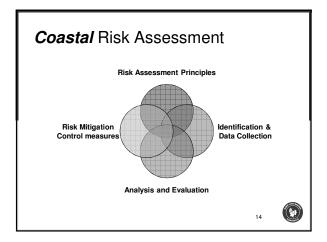
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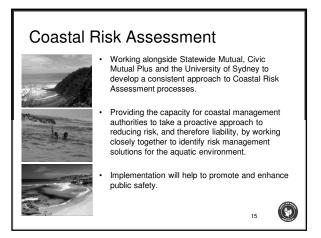
EcoSurf

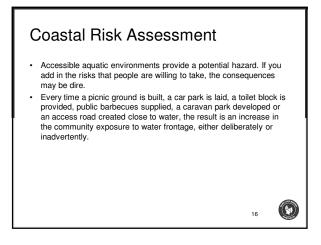
- · Use of surf life saving clubs to showcase environmental practices
- Development of tools and resources based on the learning of SLS that can be made available to other community organisations .
- Use of clubs to host community EcoSurf planning and workshops
- Community volunteers such as surf lifesavers involved in environmental monitoring. The Australian Beach Safety and Management Program (ABSAMP) may provide a mechanism for recording and promulgating relevant information.

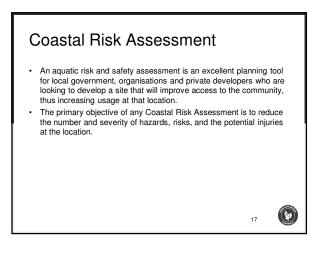
Coastal Risk Inherent risks presented by conditions: waves, • rocks, unpredictable Infrastructure: location, use, condition and maintenance Community perceptions · Individual perceptions · Changing expectations · Population · Demographic: e.g. tourists

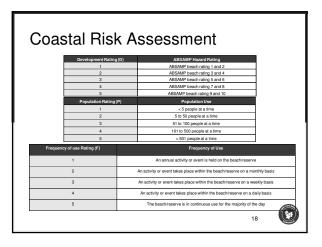












		Risk Ass			e	nt	
Population (in- water)		Conflicting activities		Population (on beach)		Conflictingactivities	
100+	5	Persistent and dangerous	5	1000+	5	Persistent and dangerous	5
75-100	4	Persistent	4	750-1000	4	Persistent	4
50-75	3	Regular	3	500-750	3	Regular	3
25-50	2	Isolated conflicts	2	250-500	2	Isolated conflicts	2
1-25	1	No conflicts reported	1	1-250	1	No conflicts reported	1
ACCESS I		alifyingDescription	d or tr	ack, no facilities, ca	r par	king or obvious access points	
2		Access via un-maintained track with no facilities and/or via water access					
3	Access via any form of track or walkway (either maintained or un-maintained) AND <u>any</u> provision of facilities or services including (but not limited by public transport, shower, public toilet, payphone, kiosk, significant roadway, parking						
4	Ac	Access via maintained tracks with clearly identified parking area AND/OR provision of basic facilities (i.e. public toilets, public shower/ wash down area) AND/OR within 10km of moderate sized town or cly (population greater than 5.000)					
5	Clearly evident, marked or signposted and maintained access points AND/OR within 10km of major town or city (population greater than 25,000) AND / OR car parking for 50 or more vehicles/boat trailers. Public transport provided within 250m of a beach access peival						

Priority	Priority location	Priority Action & Total Score	Comments	Key to Priority Action			
1	<insert here-<="" name="" td=""><td>-insert score and priority colour here></td><td></td><td></td></insert>	-insert score and priority colour here>					
2	<insert here="" name=""></insert>	-cinsert score and priority colour here>		High 40+			
3	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		Medium 31-40			
4	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		Medium 31-40			
5	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		Low 21-30			
6	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		LOW 21-30			
7	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		March and OD			
8	<insert here="" name=""></insert>	<insert and="" priority<br="" score="">colour here></insert>		Very Low 0-20			
9	<insert here="" name=""></insert>	-cinsert score and priority colour beres					

Coastal Risk Assessment

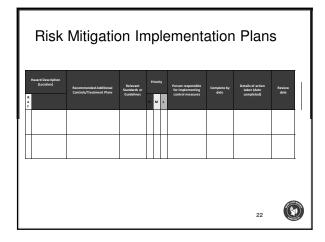
- Coastal risk identification, analysis and evaluation using a risk matrix that includes:
 - Hazards
 - Risks

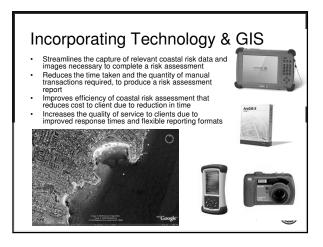
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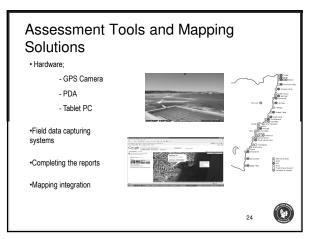
- Probability of likelihood and consequence
- At risk groups
- Exiting controls and treatment plans and adequacy

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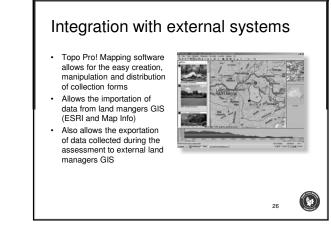
- Recommended additional controls
- Risk mitigation action plan
- What, who and when
- · Monitor and review







Title	Description	Ability
Service	Location of all services	Contacts, Address, Pictures
Service Range	Operating range of all services	Circles showing range
Trends	Population density, forecast & characteristics (by suburb or LGA?)	Information
Drownings/Hots pot	Drownings location & high rescue/preventions	Information & stats
Beach Safety	Risk assessment - location of access, signage, flags, etc.	Details & photos
ABSAMP	Beach hazards & rating	Details & photos
Council Areas	LGA boundaries	Mapped
Key transport	Roads, rail to beaches	Mapped

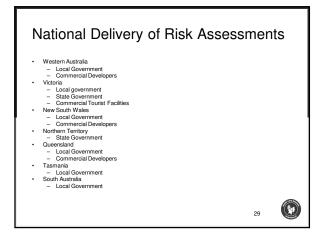


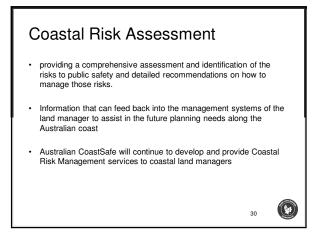
Assessments or Audits

- · CoastSafe conducted both Coastal Risk Assessments and Audits
- Basic Audits can be conducted against existing Australian and international standards and Guidelines
 - Lifesaving Services
- Signage & Remote Supervision Systems
- Access & Infrastructure
- Education and Awareness Programs
- Assessments can also be provided which provide detailed recommendations on how to better meet your 'Duty of Care'
- These two services can be provided separately or together

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Delivered Assessments Assessments and audits have been completed for local governments directly and through local government insurers Bisk assessments and audits have also been completed through state government departments CoastSafe has also delivered assessments to commercial developers and tourist & recreational facility operators around the country





Research and Development

- Surf Life Saving Australia is constantly developing research projects to identity what improvements have been made as a result of Coastal Risk Assessment
- It is also important for SLSA to understand how Coastal Risk Assessments and Audits impact on the occurrence of injury and death on the Australian Coastline and how this can then be applied around the world



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