The three-tier climate change risk assessment process of CoastAdapt

1. **first-pass** risk screening
   - **applicable in C-CADS Step 1**
   - In-house desktop study using available information and maps
   - Quick screening of climate change related hazards and risks
   - Outcomes should help you to:
     - Prioritise systems that need further attention
     - Identify which stakeholders to engage in second-pass assessment
     - Obtain organisational buy-in.

2. **second-pass** risk assessment
   - **applicable in C-CADS Step 2**
   - Outcomes should be used to:
     - Develop an adaptation plan using different steps of C-CADS
     - Assess need for any third-pass (site specific) assessment (e.g. extreme risk to a critical system)
     - Target new data and information.
   - Expert or consultant opinion to rate individual risks
   - Conduct a workshop with stakeholders using available information and maps
     - Possible stakeholders:
       - Roads
       - Environment
       - Stormwater
       - Tourism
       - Power supply
       - Coastal planners

3. **third-pass** risk assessment
   - **applicable in second iterations of C-CADS Step 2**
   - Third-pass risk assessment may be required if risks determined in second-pass risk assessment are high
   - Undertake detailed site-specific hazard studies (new models, data)
   - Detailed estimation of when the risk will cross the tolerable limit and require action
   - Output can help to:
     - Underpin preparation of engineering solutions
     - Stage implementation of action.