

<b>P31: Coastal erosion</b>	
<b>Maturity score</b>	
<b>Mean:</b> 2.6	<b>STD:</b> 0.64
<b><u>Constraints and limitations</u></b>	
<ul style="list-style-type: none"> <li>• Cloud presence</li> <li>• Variability in sea level due to tides, storm surges, and other factors can introduce noise and uncertainty in detecting shoreline shifts.</li> <li>• Subpixel changes in shoreline positions might be challenging to detect and measure accurately, impacting erosion rate calculations.</li> </ul>	
<b><u>Relevant user needs</u></b>	
UN12: Analysis of potential risks in specific regions.	
UN14: Need to screen the feasibility of projects against different hazard criteria.	
UN37: Projection of risk to portfolio assets into the future.	
UN40: Need to monitor the risk of sea level rise threatening coastal property, infrastructure, and supply chains.	
<b><u>R&amp;D gaps</u></b>	
<ul style="list-style-type: none"> <li>• Limitation of high spatial and temporal resolution historical satellite imagery.</li> </ul>	
<b><u>Potential improvements drivers</u></b>	
<ul style="list-style-type: none"> <li>• Global data of shoreline change rate</li> </ul>	
<b>Utilisation level review</b>	
<b>Utilisation score</b>	
<b>Mean:</b> 2.17	<b>STD:</b> 1.07
<b><u>No utilisation</u></b>	
<ul style="list-style-type: none"> <li>• Unavailability of freely available sources of the EO product.</li> <li>• Unacceptable reliability and accuracy of the EO product.</li> </ul>	
<b><u>Low utilisation</u></b>	
<ul style="list-style-type: none"> <li>• Unawareness of the existence of commercial EO products with better specifications.</li> </ul>	
<b><u>Medium utilisation</u></b>	
<ul style="list-style-type: none"> <li>• Unawareness of the existence of the best available commercial EO product with better specifications.</li> </ul>	
<b><u>High utilisation</u></b>	
<b>Critical gaps related to relevant user needs</b>	
<b>Guideline gap</b>	
UN37: Projection of risk to portfolio assets into the future.	
<b>Utilisation gap</b>	
UN12: Analysis of potential risks in specific regions	
UN14: Need to screen the feasibility of projects against different hazard criteria.	

UN40: Need to monitor the risk of sea level rise threatening coastal property, infrastructure, and supply chains