

P12: Monitoring Solar Panel Installations	
Maturity score	
Mean: 2.00	STD: 0.82
<u>Constraints and limitations</u>	
<ul style="list-style-type: none"> • Cloud presence. • Panels integrated into complex rooftop configurations can be harder to identify due to varying angles and orientations. 	
<u>Relevant user needs</u>	
UN37: Projection of risk to portfolio assets into the future.	
<u>R&D gaps</u>	
<ul style="list-style-type: none"> • The availability and size of solar panels dataset to train the deep learning model. • Higher costs as balancing higher spatial resolution (to detect small panels) with broader coverage (to monitor larger installations) can be challenging due to cost constraints. • The resolution of thermal sensors is insufficient at the solar panel level. • Price models for commercial EO data. 	
<u>Potential improvements drivers</u>	
<ul style="list-style-type: none"> • Provide more training datasets. • Higher-resolution thermal sensors. 	
Utilisation level review	
Utilisation score	
Mean: 3.00	STD: 0.89
<u>No utilisation</u>	
Unawareness of the existence of this EO product.	
<u>Low utilisation</u>	
<u>Medium utilisation</u>	
Unawareness of the existence of the best available commercial EO product with better specifications.	
<u>High utilisation</u>	
Critical gaps related to relevant user needs	