

P15: Lithology and surficial geology mapping	
Maturity score	
Mean: 3.00	STD: 0.00
<u>Constraints and limitations</u>	
<ul style="list-style-type: none"> • Cloud presence. • Mapping lithology is most effective in arid and semi-arid regions. It becomes more difficult and less accurate in temperate and tropical areas where weathering is extensive, and dense vegetation cover is prevalent. • The product relies on reference data. • Machine learning model uncertainty. 	
<u>Relevant user needs</u>	
UN9: Understanding stock levels and monitoring supply chains.	
<u>R&D gaps</u>	
<ul style="list-style-type: none"> • Limited training data. • Limited spectral bands of currently available EO data. 	
<u>Potential improvements drivers</u>	
<ul style="list-style-type: none"> • Using Hyperspectral data (there are upcoming missions). • More training datasets 	
Utilisation level review	
Utilisation score	
Mean: 2.00	STD: 0.00
<u>No utilisation</u>	
<u>Low utilisation</u>	
<ul style="list-style-type: none"> • Unawareness of the existence of commercial EO products with better specifications • The product is already satisfying the technical and usability requirements. 	
<u>Medium utilisation</u>	
<u>High utilisation</u>	
Critical gaps related to relevant user needs	
Utilisation gap	
UN9: Understanding stock levels and monitoring supply chains	