

P03: Crop phenology, rotation, and number of seasons	
Maturity score	
Mean: 2.9	STD: 0.3
<u>Constraints and limitations</u>	
<ul style="list-style-type: none"> • Cloud presence • The lack of local in-situ data to train the machine models 	
<u>Relevant user needs</u>	
UN18: Need to monitor crop productivity.	
<u>R&D gaps</u>	
<ul style="list-style-type: none"> • The limited temporal resolution can make it challenging to capture specific phenological changes or detect short-duration crops accurately. • May not directly capture the underlying physiological processes driving phenological stages, limiting the understanding of crop responses to environmental stressors. 	
<u>Potential improvements drivers</u>	
<ul style="list-style-type: none"> • Higher temporal resolution EO data with adequate spectral bands. 	
Utilisation level review	
Utilisation score	
Mean: 2	STD: 0.58
<u>No utilisation:</u>	
Users' lack of EO knowledge and skills to utilize the EO product.	
<u>Low utilisation</u>	
<ul style="list-style-type: none"> • Unawareness of the existence of commercial EO products with better specifications. • Higher cost of using the commercial EO product. 	
<u>Medium utilisation</u>	
<u>High utilisation</u>	
Critical gaps related to relevant user needs	
Guideline gap	
UN18: Need to monitor crop productivity	