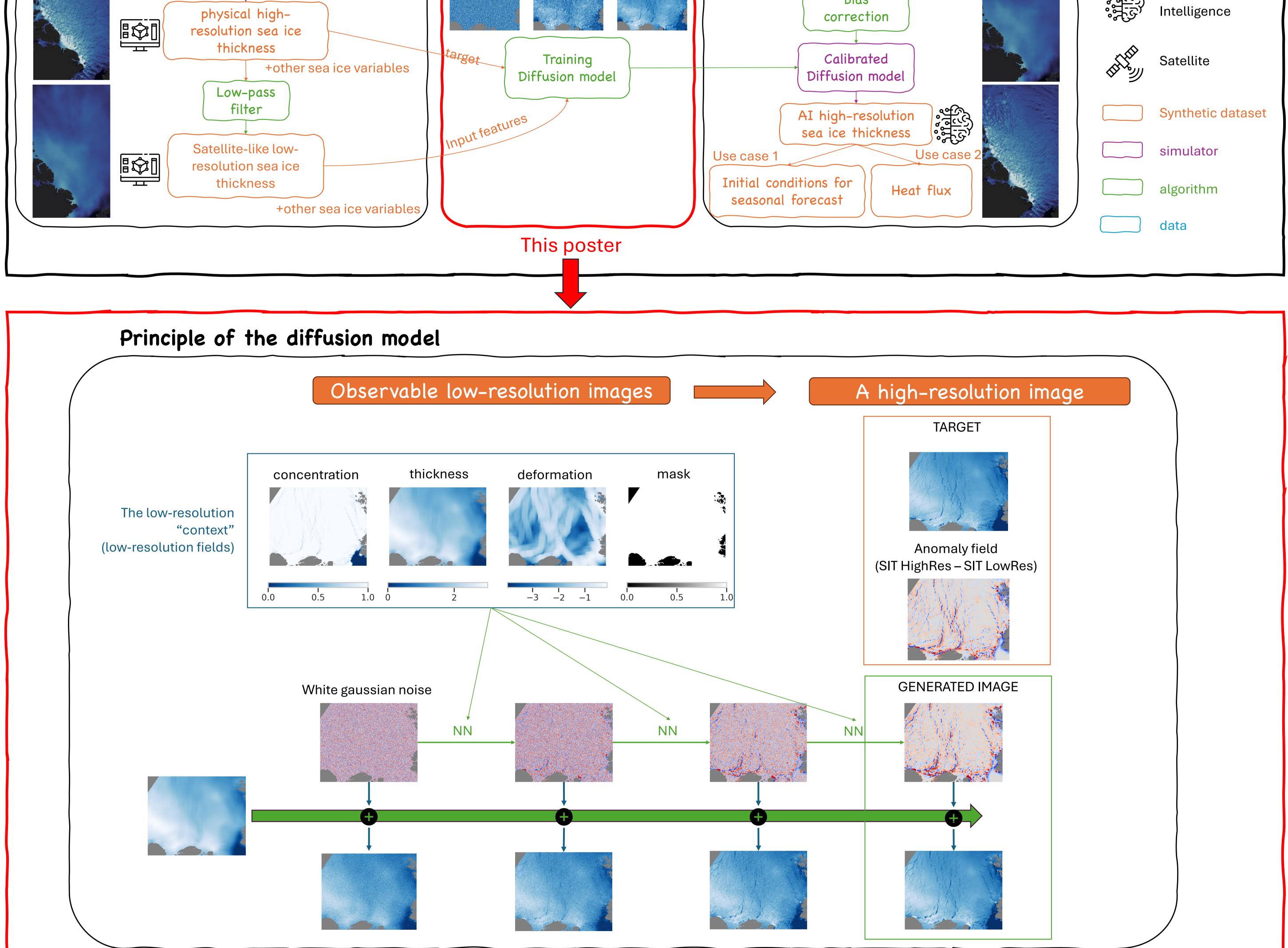
SuperIce - Super-resolution of sea ice thickness by combining machine learning and physical-based approach



Julien Brajard, Richard Davy, Catherine Downy, Anton Korosov, Yiguo Wang, Henrike Wilborn.



SuperIce project overview	 It can degrade the initial It leads to underestimation It leads to underestimation Produce high-resolution artificial intelligence Demonstate the impact 	on Sea-ice thickness product using a combination of physical modelling and et on two use cases ation with the NeXtSIM sea-ice model
STEP 1	STEP 2	STEP 3
neXtSIM generator		EO data Bias



Ensemble generation

The generated process depends on the noise and enables to generate an ensemble of likely high-resolution images.

Po	ower Spectrum	
	Concreted on an all	

