Design Structure Matrix (DSM)

Level I	Level II	Index	Calibrating Camera	Capturing Image	Configuring Camera Mode	Ingest Image	Logging Image	Managing Power	Managing Relative Position	Perform Image Quality Check	Encrypt Metadata	Execute Algorithm	Forwarding Metadata	Generate IDs & Metadata	Manage On-Board Storage Capacity	Mantaining Time Sync	Monitoring Performance	Transmit Metadata	Update Software	Awknowledge Transmission Receipt	Establishing Ground Staion	Establishing Inter-Satellite Link	Forward Task	Plan Mission	Recieving Task	Selecting Routing Path	Validate Task	Verifying Data Integrity
External Hardware Management Interface	Calibrating Camera	11	■	f	f			f		f																		
	Capturing Image	12	i	■	i	f	f	f																				
	Configuring Camera Mode	10	i	f	■			f																i				
	Ingest Imagery	14		i		■	i			f		f																
	Logging Imagery	13		i		f	■								f													
	Managing Power	06	i	i	i			■	b			i																
	Managing Relative Position	07						b	■															i				
	Perform Image Quality Check	15	i			i				■																		
Data Processing	Encrypt Metadata	25									■				i			f			f							
	Execute Algorithm	16				i		f				■	f	f		f												
	Forwarding Metadata	21											■	i				f		b		i						
	Generate IDs & Metadata	17										i	f	■	f	i		f										
	Manage On-Board Storage Capacity	18					i					i		i	■	f												
	Maintaining Time Sync	05									f			f		■									f			
	Monitoring Performance	08										i			i		■	f										
	Transmit Metadata	26										i	i	i				■										
	Update Software	09															i		■									
Mission Coordination	Awknowledge Transmission Receipt	22										b								■						f		i
	Establishing Ground Station Connection	24										i									■		f			f		
	Establishing Inter-Satellite Link	20											f									■	f			i		i
	Forward Task	04																				i	■	i				
	Plan Mission	03		f			f									i								■		f	i	
	Recieving Task	01																				i	i	f	■		f	f
	Selecting Routing Path	19																		i	f	f		i		■		i
	Validate Task	02																							f	i	■	
	Verifying Data Integrity	23																		f		f			i	f		■