

# MELCO Satellites Backlog

## Optical



- ALOS-3
- Optical observation satellite
- Ground resolution: 0.8 m
- Swath: 70 km at nadir



### Engineering Test Satellite-9

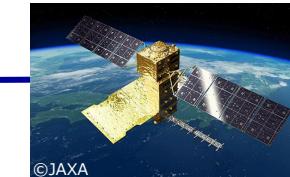


- High Throughput Satellite
- All electric propulsion satellite
- Digital payload

## L-band SAR

### ALOS-4

- L-band synthetic aperture radar satellite
- Ground resolution : 1-25m
- Swath: 35-700km



- 7 QZSs constellation
- 24hour service
- Self-contained navigation

▲ : launched  
△ : to be launched

## Navigation Sat. Hosted Payload



2021

2022

2023

2024

2025

2026

2027

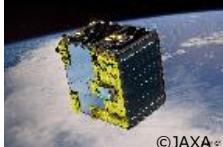
2028

2029

2030

SSA Satellite

### RAISE-2



- Small satellites technology demonstration



- GOSAT-GW
- Greenhouse gases monitoring Satellite

## SSA Satellite

## Information Gathering Satellite

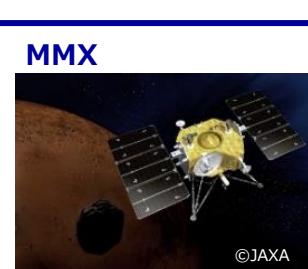
### SLIM landing on the moon

### Observation of Martian satellites by MMX



### SLIM

- Compact and lightweight spacecraft
- Pinpoint Landing on the Moon



## Exploration

## Return to earth



## GateWay/Artemis Supply

- International Space Station (ISS) transportation vehicles
- Next Generation HTV
- Applied for transpiration vehicle for Gateway

### Notes

ALOS-3:Advanced Land Observing Satellite-3  
ALOS-4:Advanced Land Observing Satellite-4

QZSS:Quasi-Zenith Satellite System

RAISE-2:Rapid Innovative payload demonstration SatellitE-2

GOSAT-GW:Global Observing SATellite for Greenhouse gases and Water cycle  
SLIM:Smart Lander for Investigating Moon

MMX:Martian Moons Exploration  
HTV:H-II Transfer Vehicle

# Possible Future Cooperation Fields

## ■ SSA(SDA)/STM Field

### Assets of Japan

SSA Satellites



Defense ComSat



Telescope and Radar for SSA

## ■ ES\* Field

### Assets of Japan



SIGINT Satellites

\*Electronic warfare Support

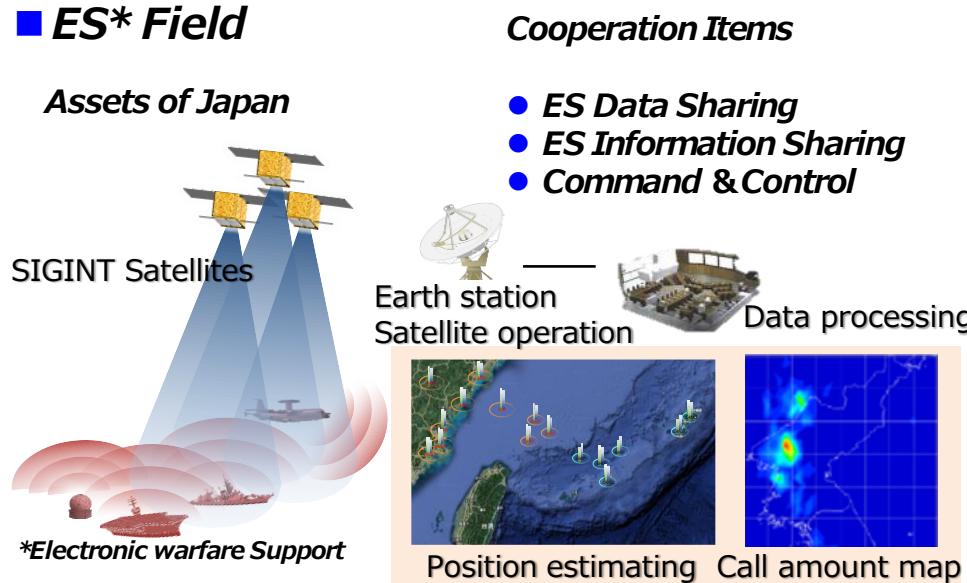
### Cooperation Items

- SSA Data Sharing
- Hosted Payloads
- Command & Control



U.S.  
SSA  
Operation Center

Deep Space Radar



## ■ MDA Field

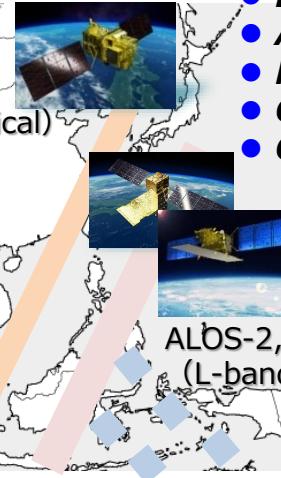
### Assets of Japan

ALOS-3 (Optical)



ASNARO-2  
(Small SAR)

(Image)



ALOS-2,4  
(L-band SAR)

### Cooperation Items

- EO Data Sharing
- AIS Data Sharing
- MDA Data Sharing
- Common Crowd
- Command & Control

Commercial Small SAR Constellation  
•Synspective  
•iQPS Inc.

## ■ Cislunar Field

### Assets of Japan

SLIM  
Small Lander

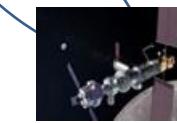


HTV-GW

HTV-X



ISS



Gateway

### Cooperation Items

- Transport Service to the Gateway
- Transport Service to the Lunar Base
- SSA in Cislunar Fields
- Command & Control

