# 2. Developing Technologies for Ocean Resources Exploration ④ Developing Technologies to Establish High-Speed Satellite Communications

Overview: R&D of high-speed satellite communication technologies to establish high-speed satellite communication networks among survey ships, ASVs, and onshore sites for the purpose of transmitting high-volume data generated from undersea exploration and for operating multiple AUVs.

(Associated with 2. 2 R&D of multiple AUV operating system and 2. 3 R&D of highly efficient underwater work system by ROV)



## [Schedule]

Target	FY26	FY27	FY28	FY29	FY30
High-speed satellite communication technologies	Design	Trial p /deve	roduction lopment	Testing	/surveys

### [Target progress in five years]

Goal	Before	After	
High-speed	Low-speed	High-speed	
communications by	transmission at	transmission on	
satellite	around 500 kbps	the order of Mbps	



**Ground station** 



Next-generation hyper remote control system (shared technology: satellite communication technology



Support mothership

#### Next-generation acoustic imaging system



## Next-generation multi-point coring system



#### Next-generation high-strength lightweight power transmission cable with large output power capacity



Next-generation hybrid propulsion system



