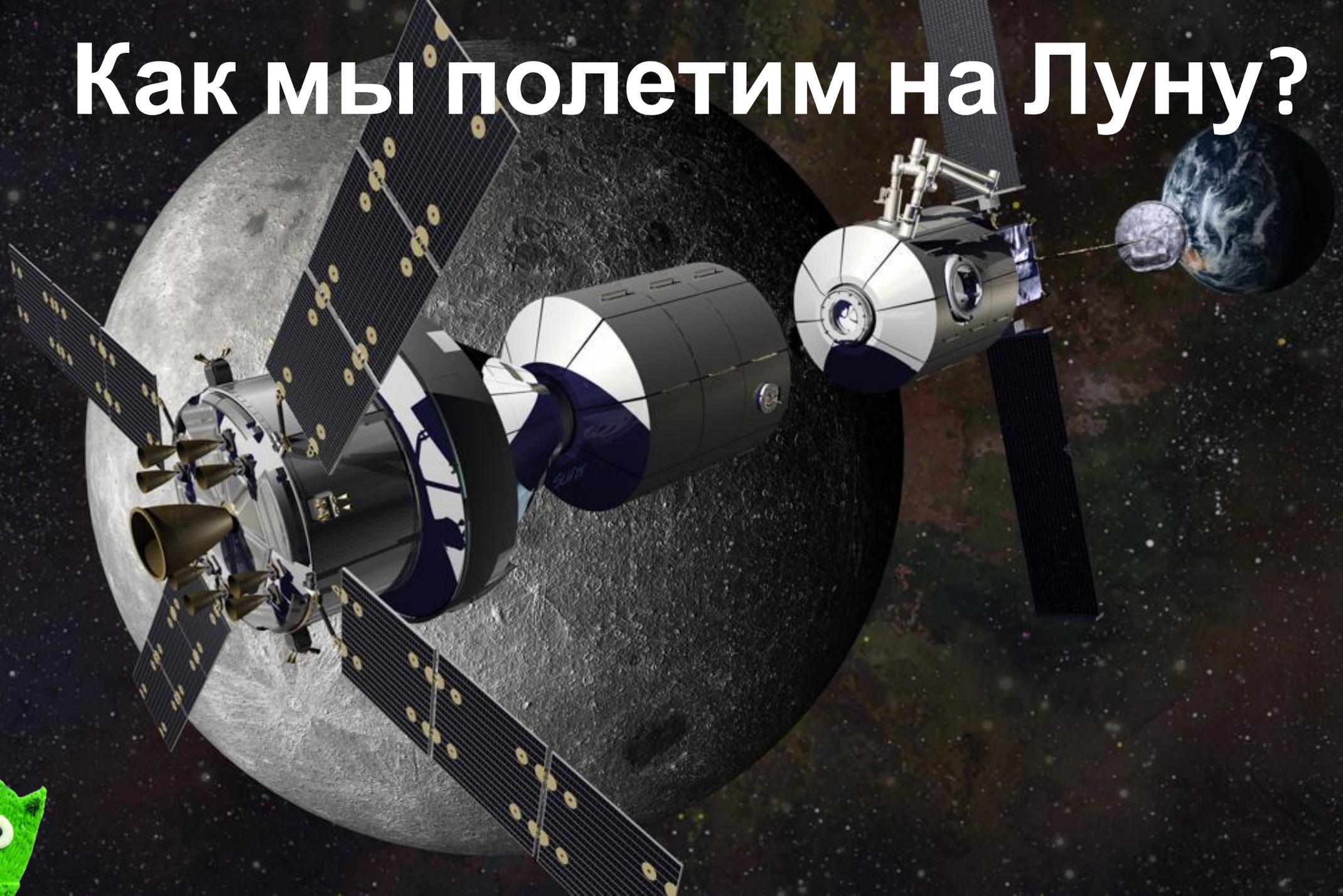
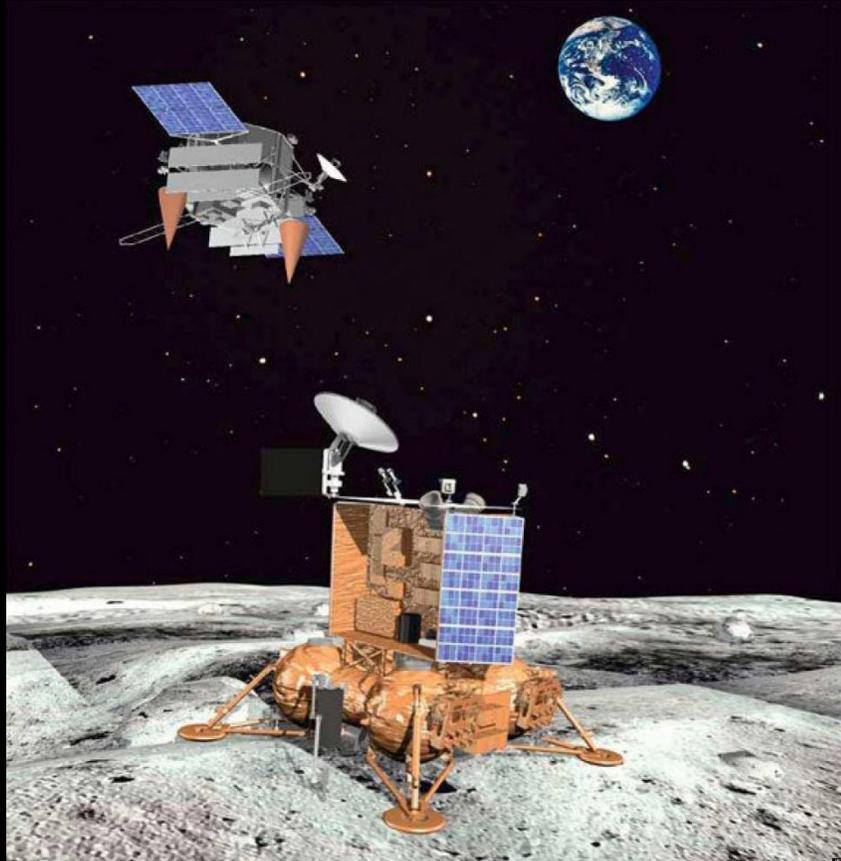


# Как мы полетим на Луну?



# Автоматические межпланетные станции посадка



Луна-25-26



Chang'e 4

# Автоматические межпланетные станции посадка

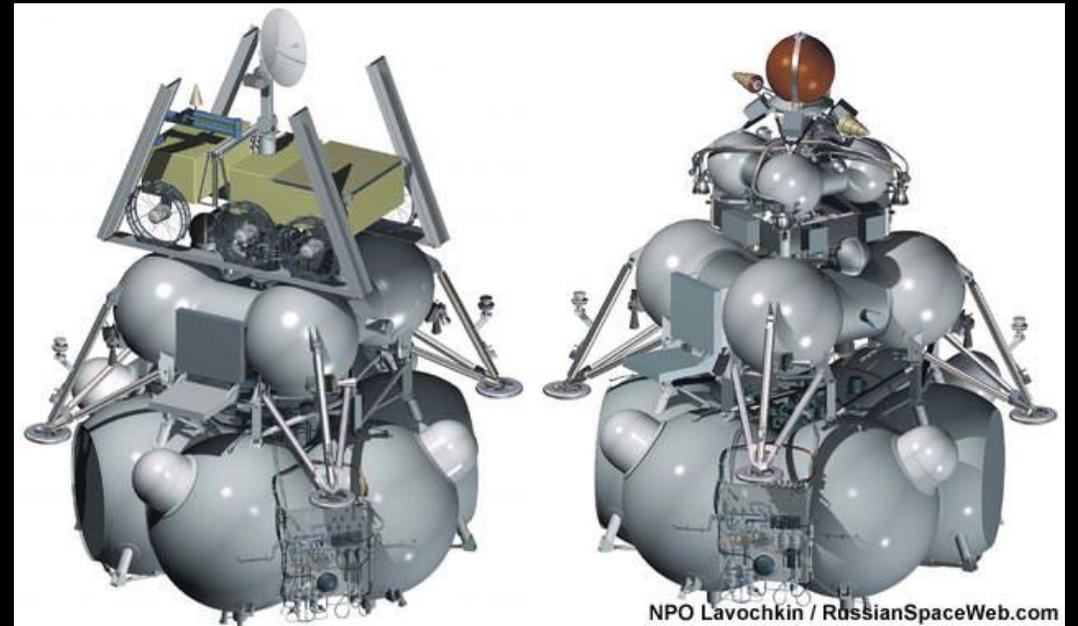


Chandrayaan 2

# Автоматические межпланетные станции возврат грунта



Chang'e 5



Луна-27-28

# Автоматические межпланетные станции



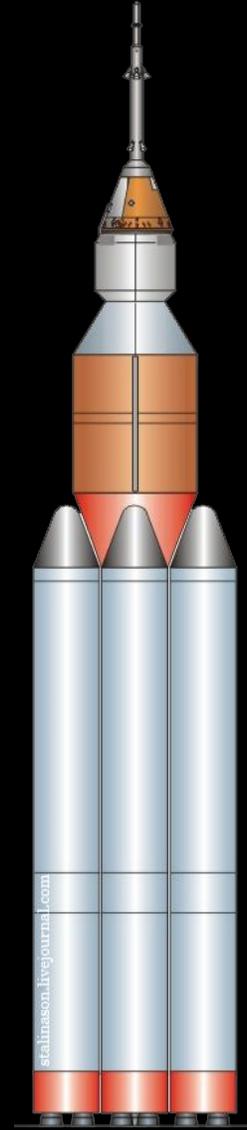
# Люди



# Люди



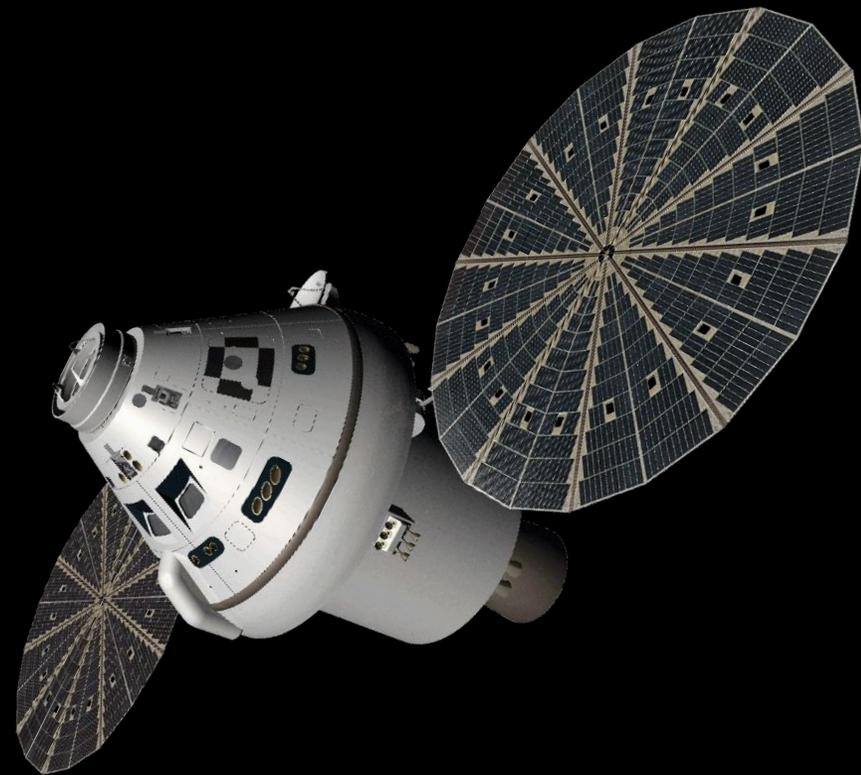
# Ракеты



# Космические корабли

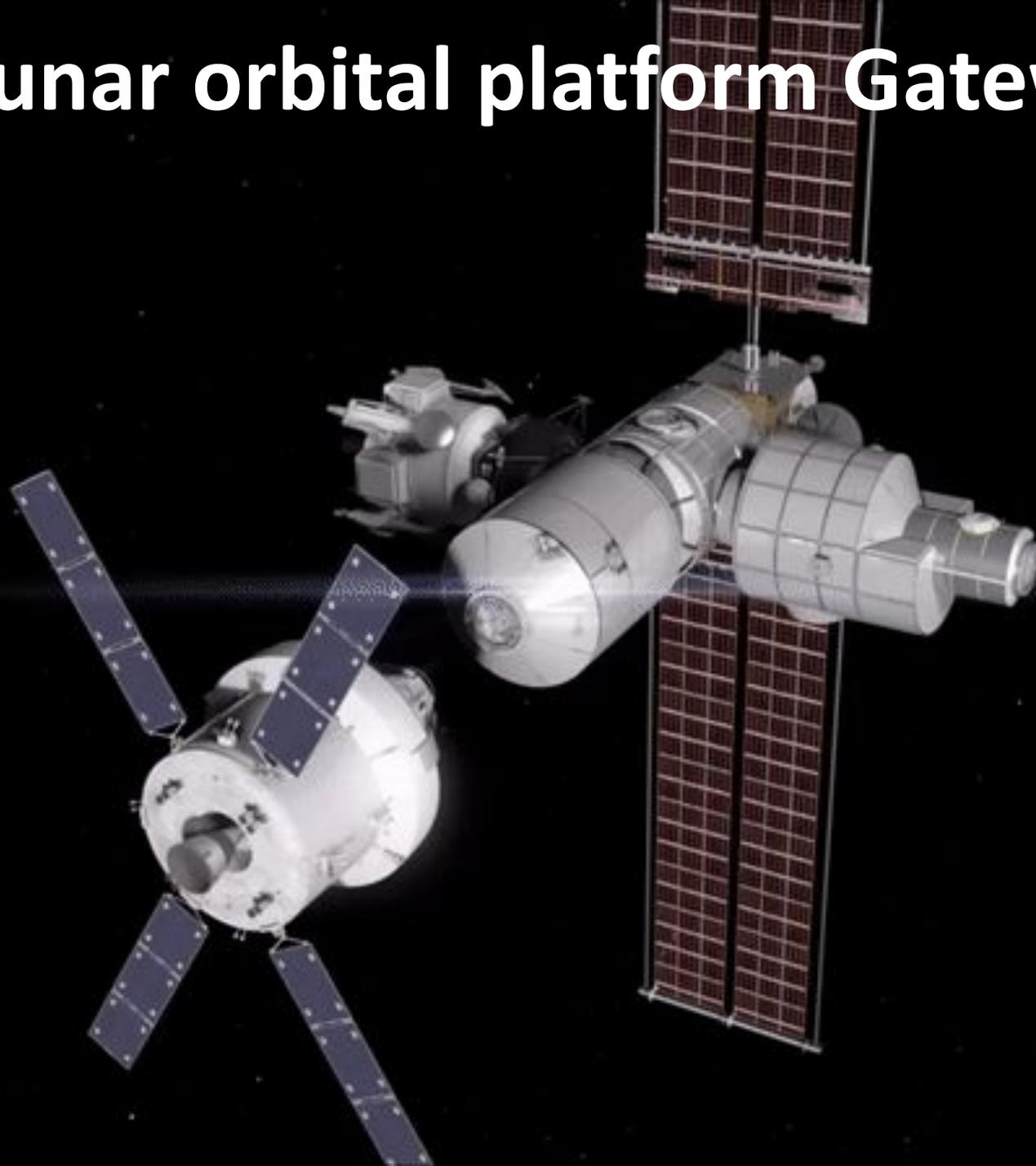


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»  
Россия



Orion  
США

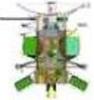
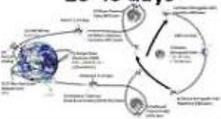
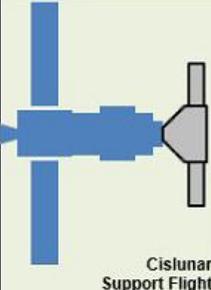
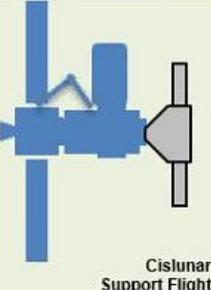
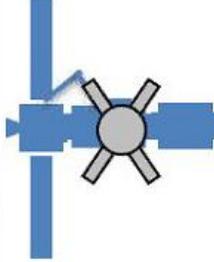
# Lunar orbital platform Gateway



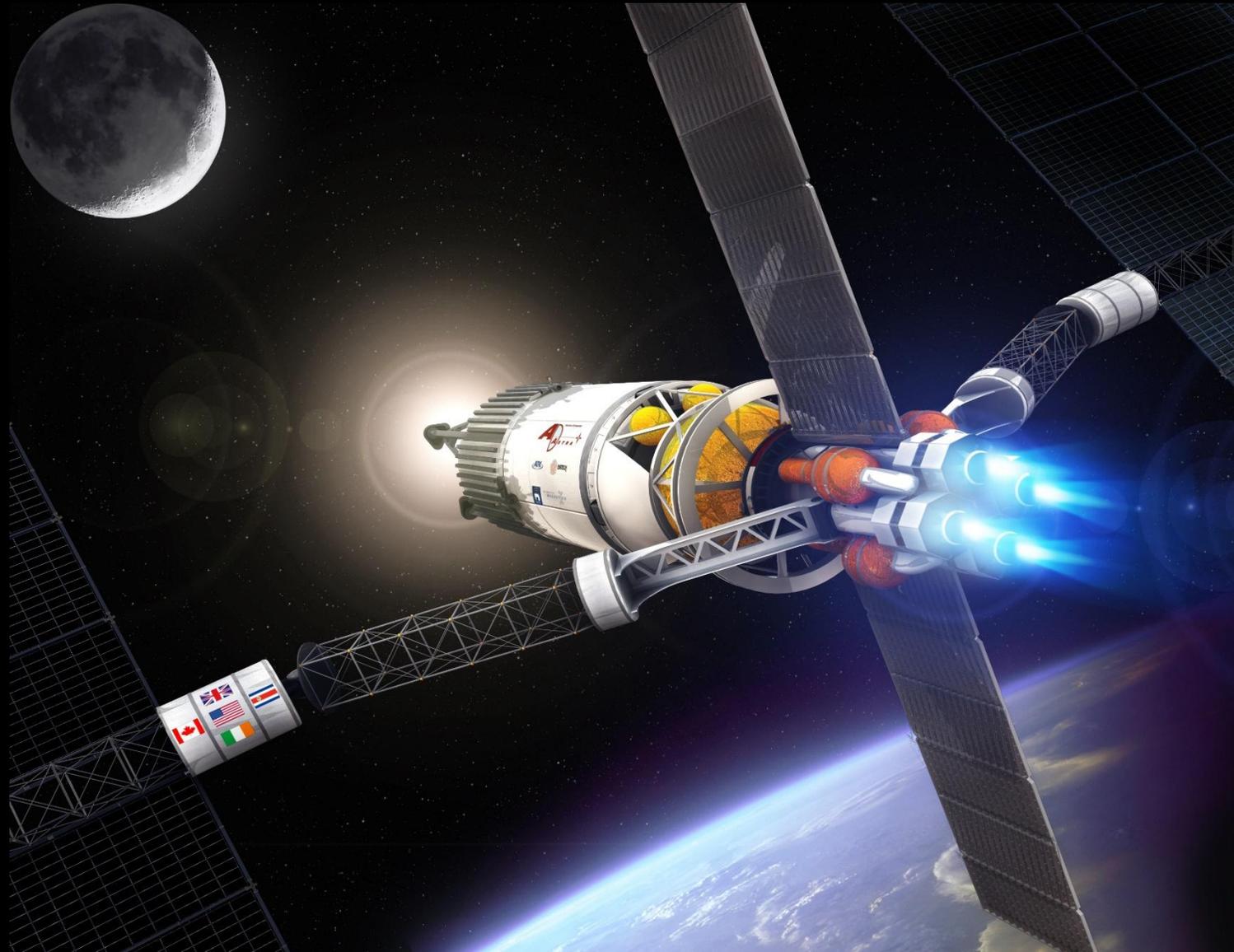
# Lunar orbital platform Gateway



# Работа для SLS

Deep Space Gateway Buildup					
EM-1	Europa Clipper	EM-2	EM-3	EM-4	EM-5
2018 - 2025					2026
<p>SLS Block 1 Crew: 0</p> 	<p>SLS Block 1B Cargo</p>  <p>Europa Clipper (subject to approval)</p> 	<p>SLS Block 1B Crew: 4 CMP Capability: 8-9T</p>  <p>40kW Power/Prop Bus</p>	<p>SLS Block 1B Crew: 4 CMP Capability: 10mT</p>  <p>Habitation</p>	<p>SLS Block 1B Crew: 4 CMP Capability: 10mT</p>  <p>Logistics</p>	<p>SLS Block 1B Crew: 4 CPL Capability: 10mT</p>  <p>Airlock</p>
<p>Distant Retrograde Orbit (DRO) 26-40 days</p> 	<p>Jupiter Direct</p> 	<p>Multi-TLI Lunar Free Return 8-21 days</p> 	<p>Near Rectilinear Halo Orbit (NRHO) 16-26 days</p> 	<p>NRHO, w/ ability to translate to/from other cislunar orbits 26-42 days</p> 	<p>NRHO, w/ ability to translate to/from other cislunar orbits 26-42 days</p> 
<p>Gateway (blue) Configuration (Orion in grey)</p>			 <p>Cislunar Support Flight</p>	 <p>Cislunar Support Flight</p>	

# Развитие межпланетных технологий

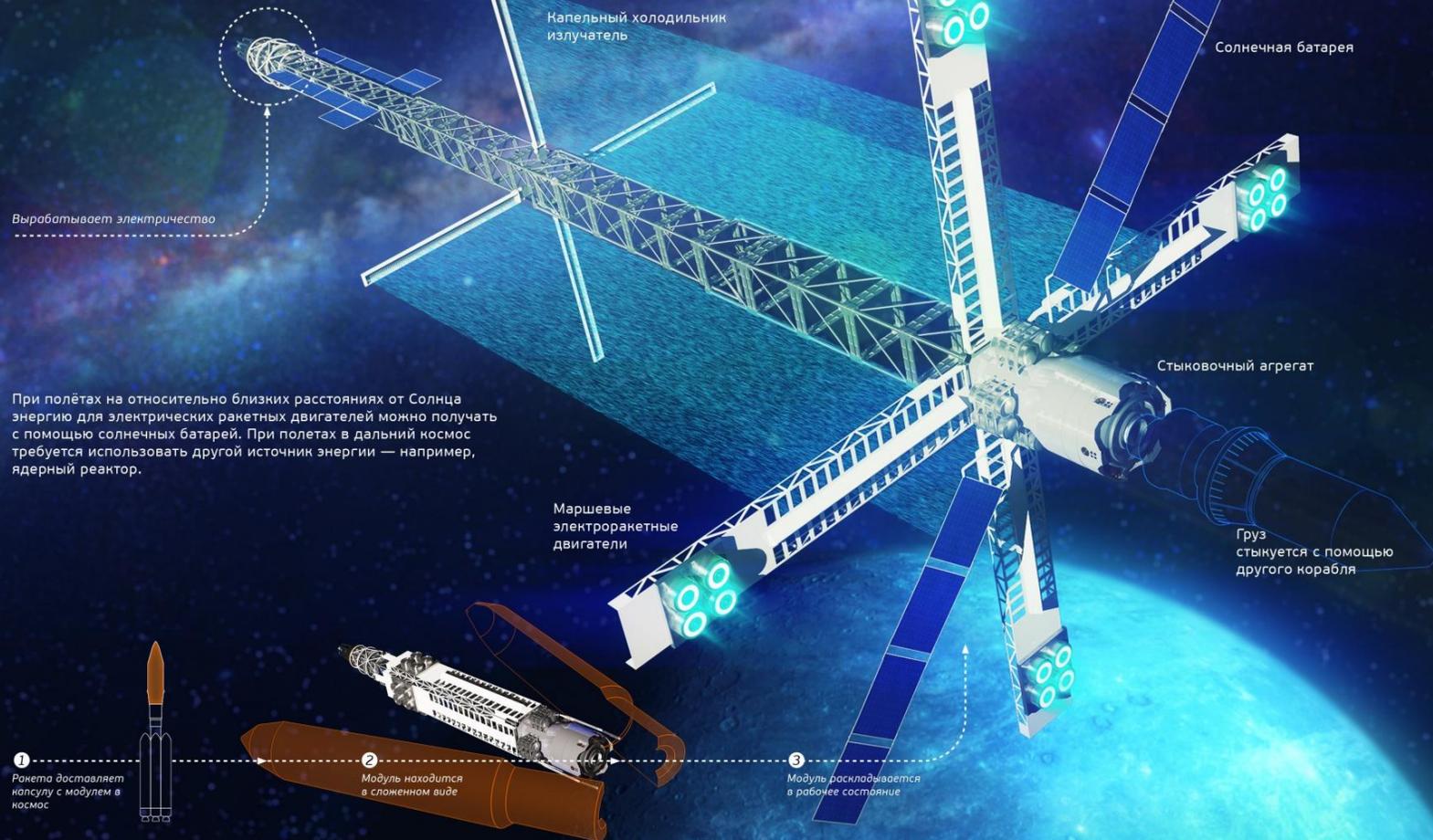


# Развитие межпланетных технологий

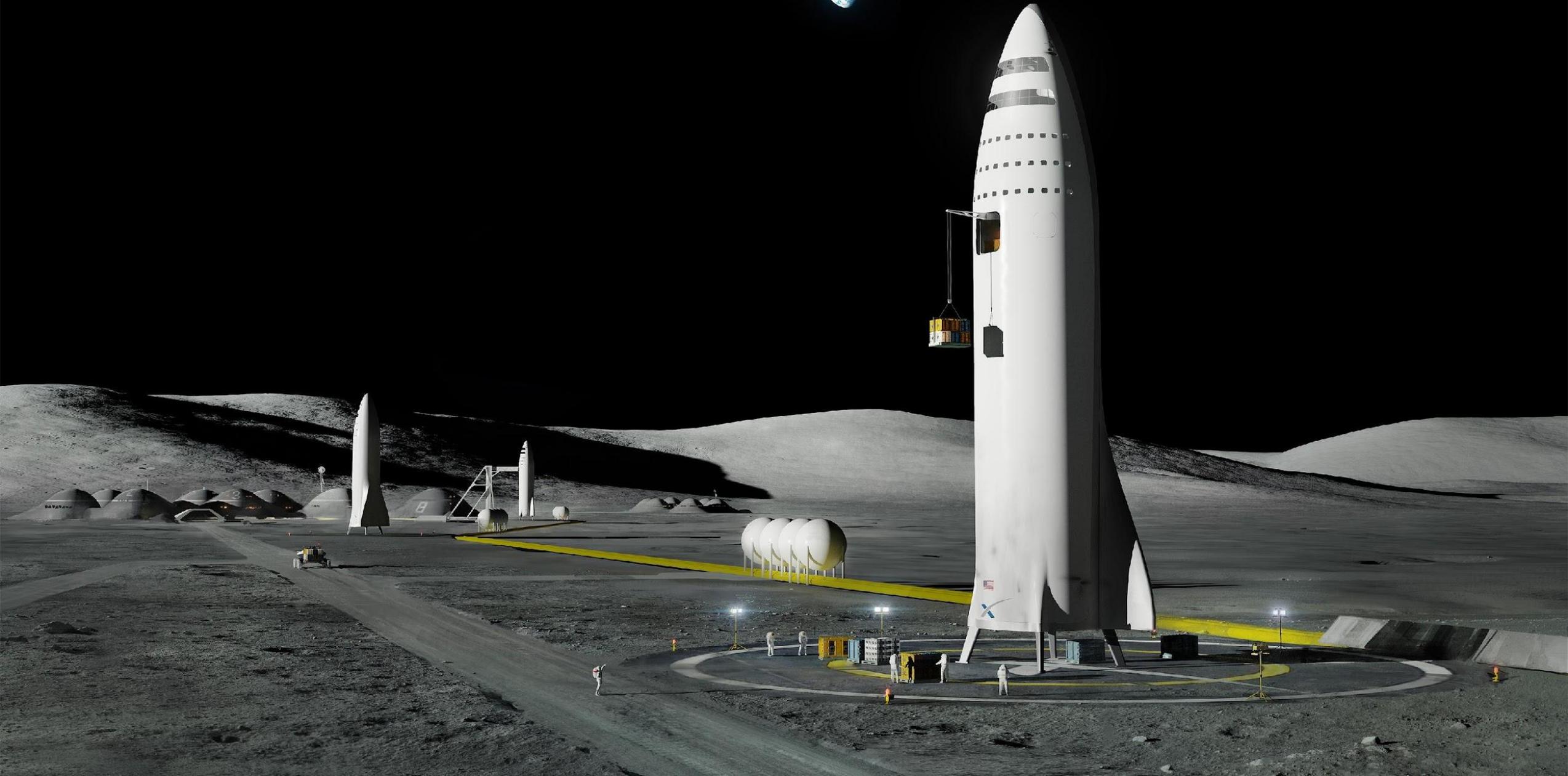
## ЯДЕРНАЯ ЭНЕРГЕТИЧЕСКАЯ УСТАНОВКА КОСМИЧЕСКОГО АППАРАТА



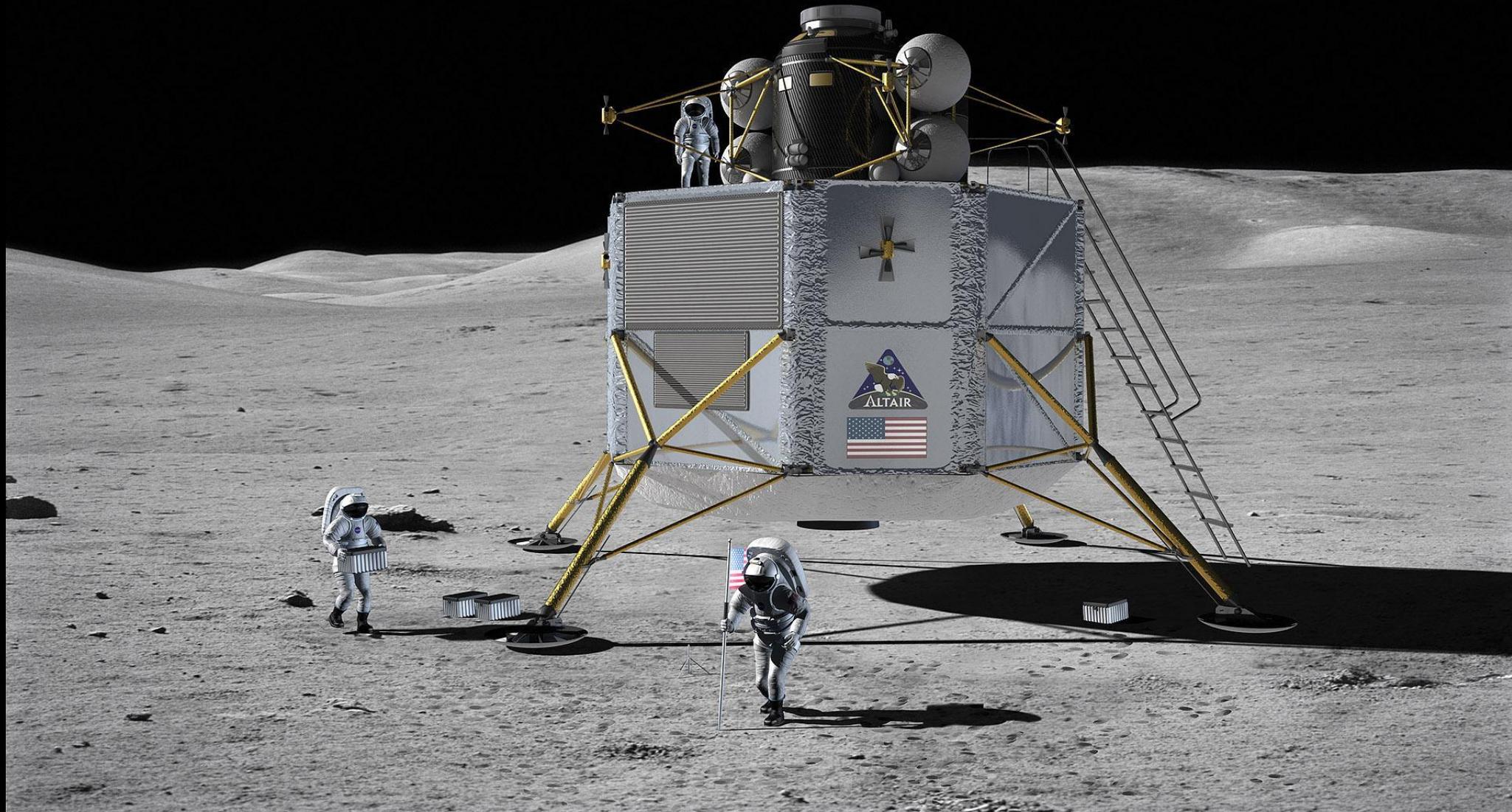
РОСАТОМ



# Развитие межпланетных технологий



# Упрощение посадки



# Перспектива строительства на Луне



# Deep Space Transport для полета на Марс



# Прыжок к Марсу

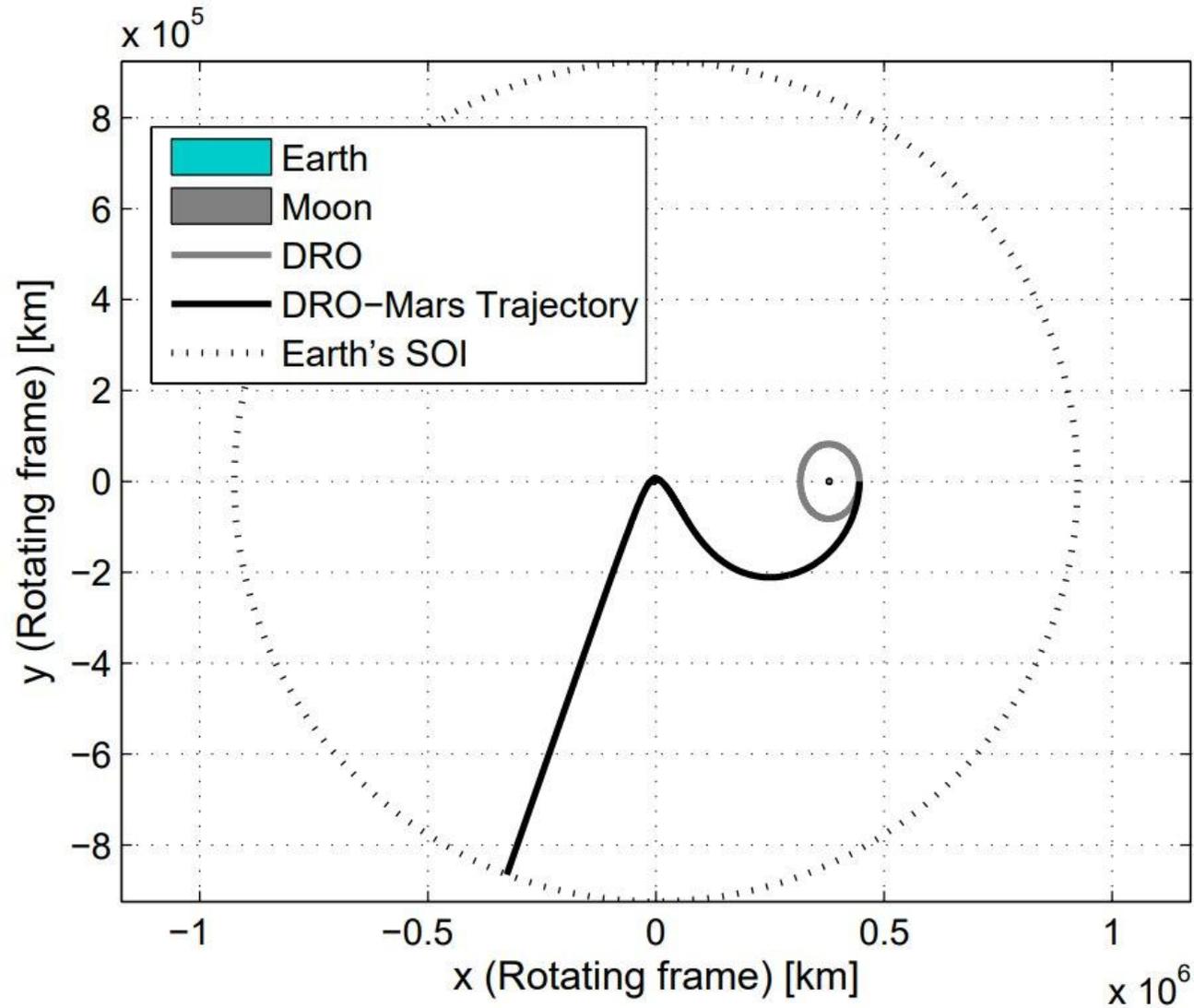


Figure 13. Total transfer.

# Спасибо за внимание!



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