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# Future Evolution of OOS & OOA

**CSA, DLR & JAXA**  
Bernd Sommer (DLR)

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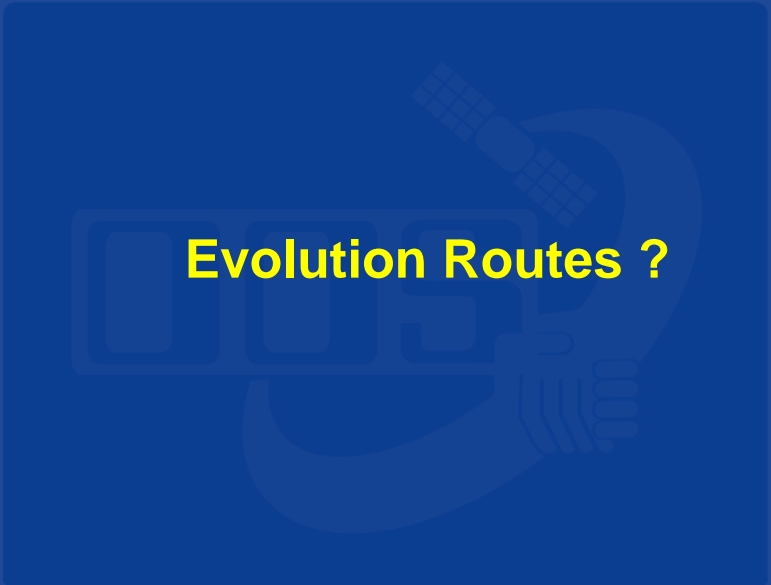
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# Evolution Routes ?



# Past

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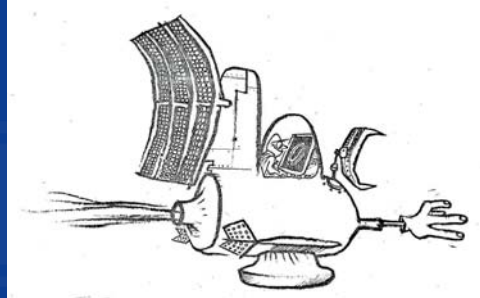
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**Servicing Vehicle**  
(artists view in Interavia 5/56)



# Underway

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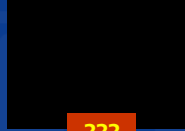
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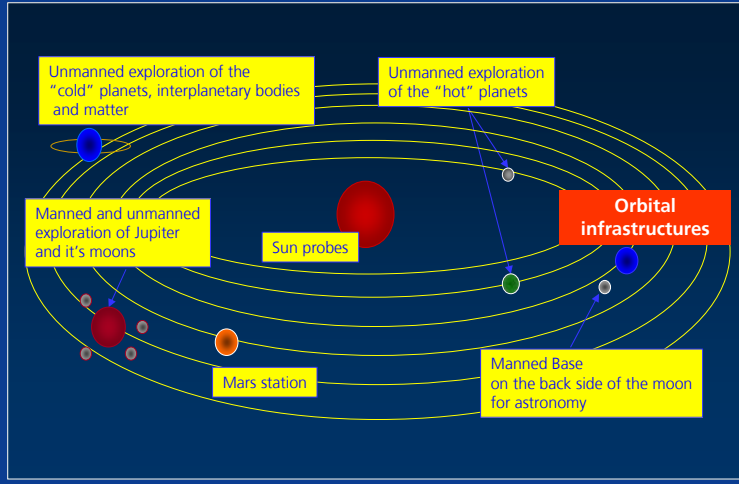
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**Future**



Unmanned exploration of the "cold" planets, interplanetary bodies and matter  
 Unmanned exploration of the "hot" planets  
 Manned and unmanned exploration of Jupiter and its moons  
 Sun probes  
 Mars station  
 Orbital infrastructures  
 Manned Base on the back side of the moon for astronomy

**Some Day ...**











SPS  
 Planetary Colonization  
 ???






# Environment



**Legislation**



**Politics**



**Collaboration  
&  
Partnership**



**Regulation**



**Military**

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# OOS & OOA Contribution to Future Space

- Exploration & Resource Utilization
- Culture & Mindset
- Enabling Technologies
- Commercialization
- Public Goods

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