

ESA CLEAN SPACE DAYS



8TH TO 11TH OCTOBER 2024

Space Infrastructure
Multifunctional Interfaces as Key to ISAM
and More

Wednesday, 9th October, 16:40 Thomas A. Schervan, CEO



Would you offer roadside assistance service here?



So what does a space engineer do when his car breaks down?



Yeh, right!



Today's Picture has Changed...

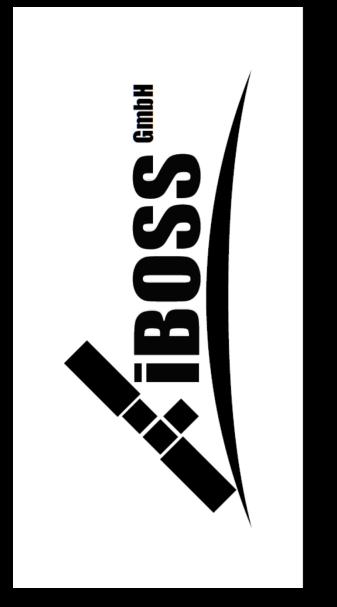
In 2024 there are more than 10,000 active satellites in space

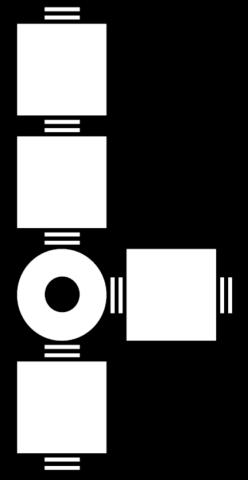
 \rightarrow 2030: 20k - 60k

Upcoming Challenge:

- Space Debris
- Pollution of Atmosphere from Launches and Deorbiting







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OUR MISSION

Orbital Systems



The for Space

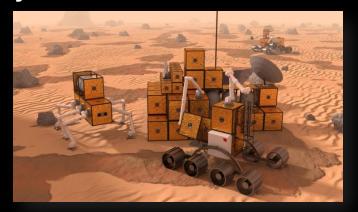
*iBOSS





Planetary Systems



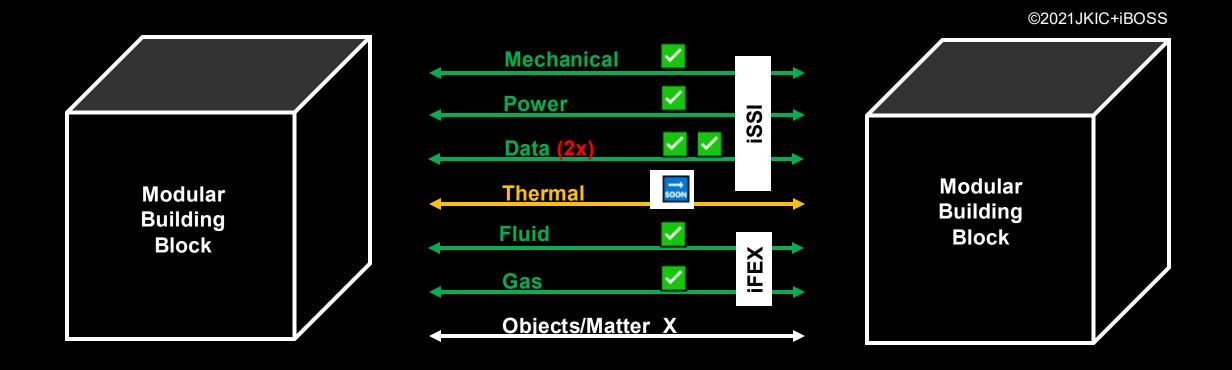


Standards ENABLING YOUR Business

- 2017 iBOSS GmbH (Established)
- 2018 First Commercial Revenues + Since
- 2019 First International Partnerhips
- 2020 US Patents Granted (EU + Globally)
- 2021 European Innovation in Space Award
- 2022 In-Orbit Demonstration Mission (ISS)
- 2023 Q Station 2024 SpaceTech Cohort Member (USSF)
- 2024 ...
 - iBOSS.space US LLC (Established)
 - Unveiling of Fuel Transfer Interface
 - NewSpace Nexus Ingitor (USSF)



Interfaces: Generic Scope + Modular Functionalities



CONNECT + TRANSFER



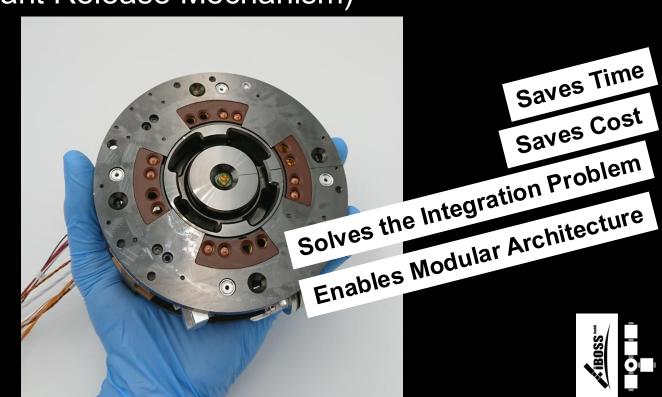


ANDROGYNOUS SOLUTIONS

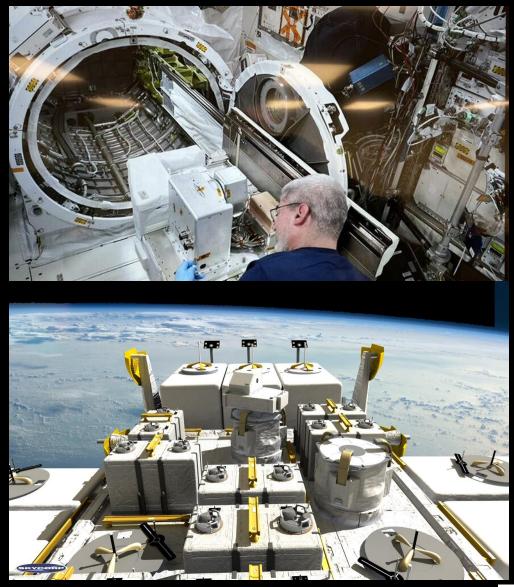


iSSI® - intelligent Space System Interface

- Multi-Functional (Mechanical, Data, Power)
- Add-On-Modules (Formfit, Thermal, Dust Cover, Ranging)
- BDRRM (Bi-Directional Redundant Release Mechanism)
- AIP (Anti-Intrusion Posture)
- Modular by Functionality
- Androgynous Design
- Lubricant-Free
- Flat Surface
- Patented
- Tested in Space







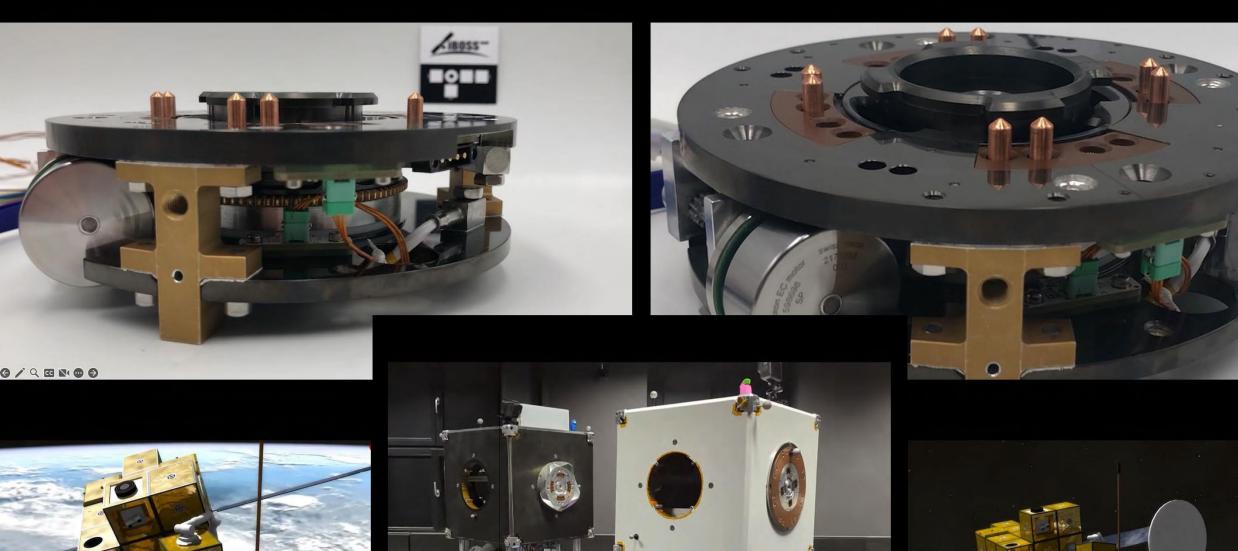
2022 IN-ORBIT DEMONSTRATION – TRL7

iFEX - intelligent Fuel EXchanger

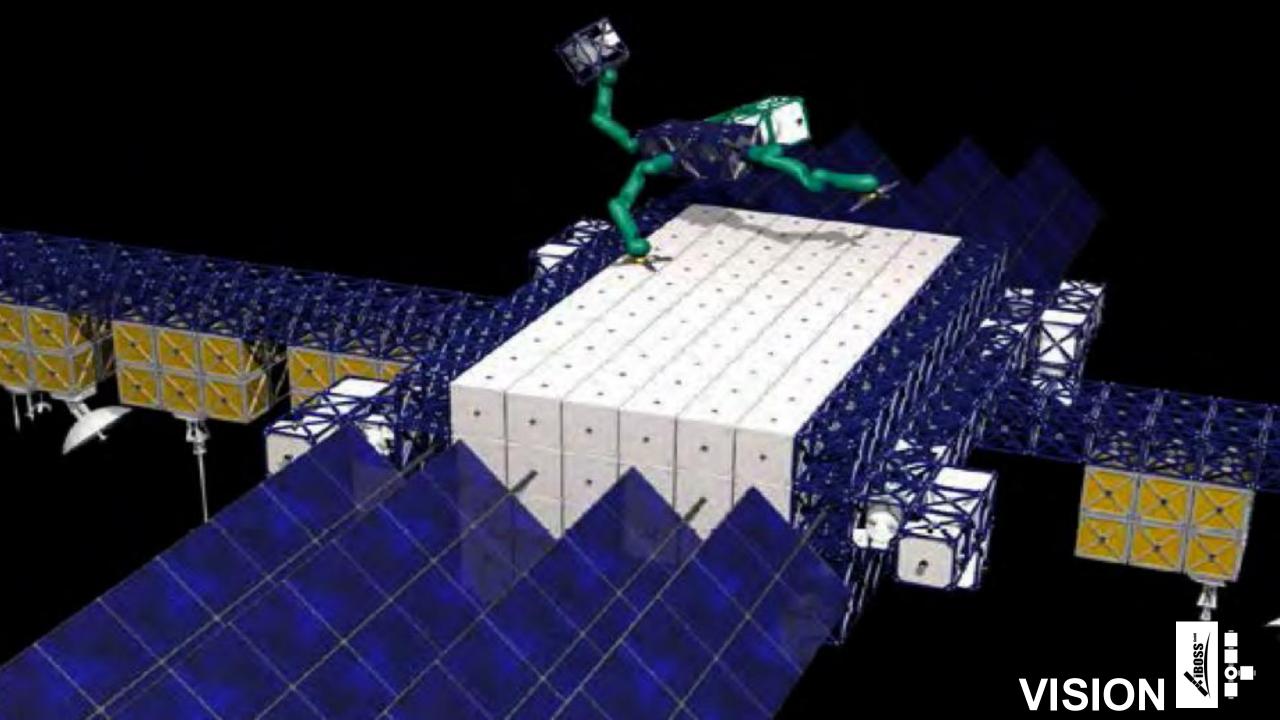
- Multi-Propellant Transfer (Liquid + Cryogenic)
- Unparalleled Features
- Androgynous Design
- Flat Surface
- Compact
- Patented
- TRL 4-5

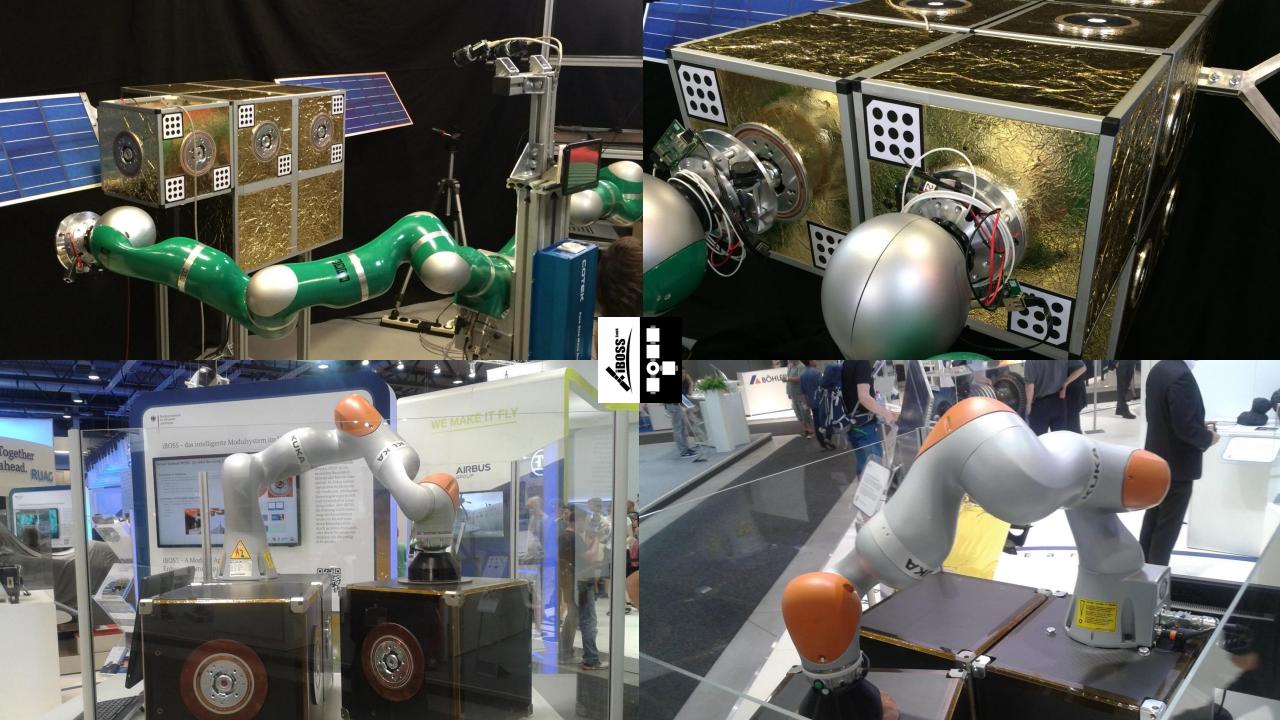












iSSI® Enhancing Robotics





SUSTAINING MEMBER + PRESIDENTSHIP

Applications

The Port by Arkisys

- Service Platform
- OOS
- Robotic Manipulator
- iSSI is Basedlined
- → IAC 2024: Hardware and Demo

Future Modular S/C and Space Stations by

- SpaceBuilt
- Orbital Reef
- Starlab
- Axiom Stations
- Gateway Artemis Program





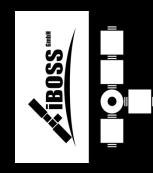
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It was a pleasure.



Thomas A. Schervan CEO + Co-Founder thomas@iboss.space



Joerg Kreisel Chairman + Co-Founder joerg@iboss.space