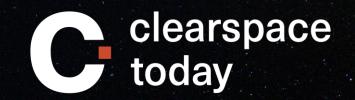
# **ENCORE** Mission



#### We bring servicing to orbit



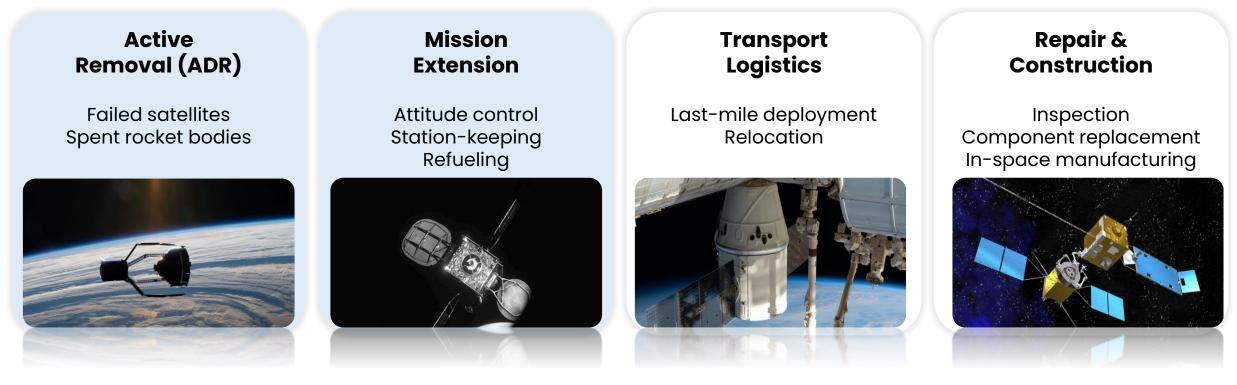
Aviation, road transportation or shipping have maintenance and servicing integrated in their ecosystem, but the space industry still applies a launch, single use and discard approach.

In-orbit servicing (IOS) is a **key enabler** for the future of the space industry. **We build the roadmap for sustainable space**.



### In-orbit servicing, the backbone of the space economy

Overview of ClearSpace's current in-orbit services



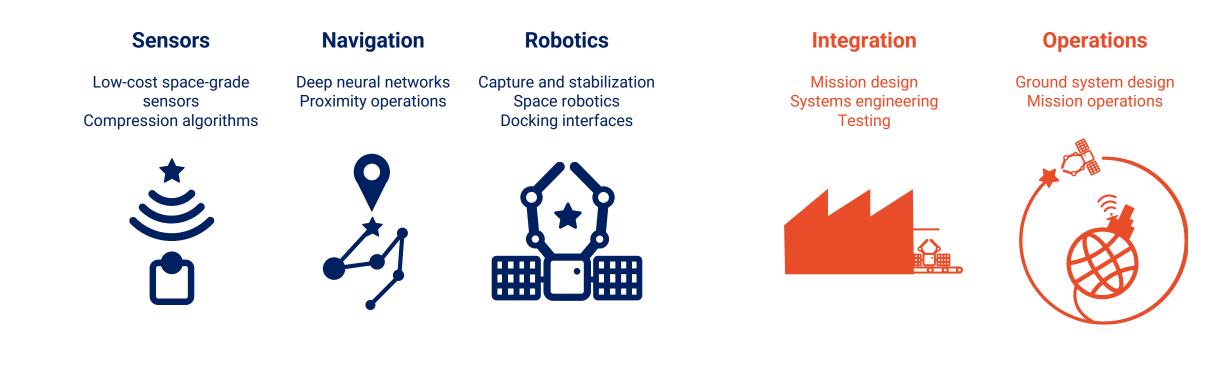
#### In-orbit servicing is a rapidly growing market with projected revenue of \$14.3 Billion by 2031\*

\*NSR In-Orbit Services Report 2022: Satellite Servicing, ADR, and SSA, 5th Edition (IoSM5)

# Unique proprietary technologies to deliver services in orbit



ClearSpace capability focus: technology, systems engineering and operations



#### ClearSpace's Enabling Core Technologies (IPR)

**ClearSpace's System-Level Capabilities** 



5

2019

2020

2018

A Swiss-based company quickly expanding globally



Q3 '22

2021



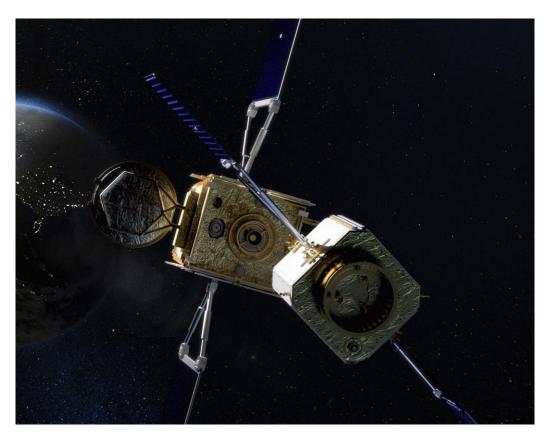
#### ENCORE =

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### A refuellable servicer extending satellites' life



- **Commercial mission** to extend the life of a GEO telecommunication satellites
- First step towards a **fleet of in-orbit servicers** catering to GEO operators' needs
- Development of an in-orbit servicing product line composed of **refuellable servicers**
- Based on an existing market demand and providing a healthy business model



The ENCORE servicer can provide the following services: Longitude relocation — station-keeping — inclination reduction — attitude control — disposal

#### The GEO In-Orbit Servicing Market



# of satellites reaching EoL ■ ASIA ■ Americas ■ Future Satellites EMEA

# of satellites at the end of life per year

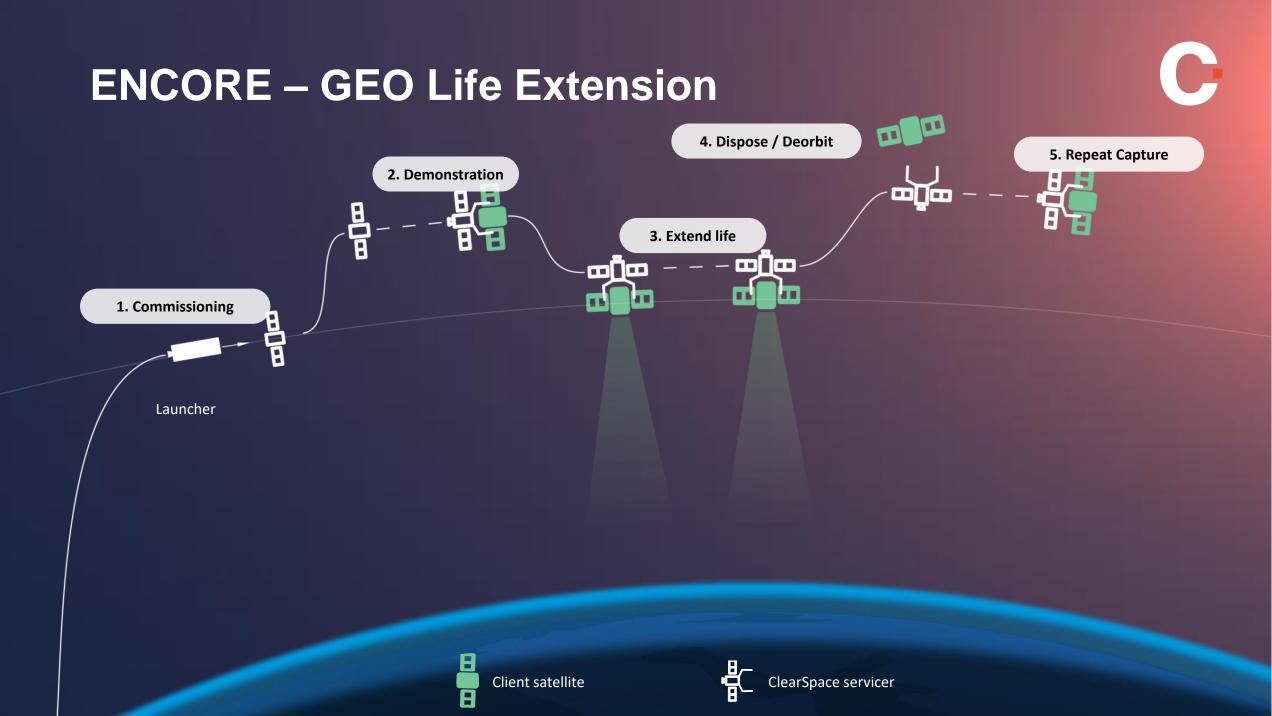
# **Customer Interest**

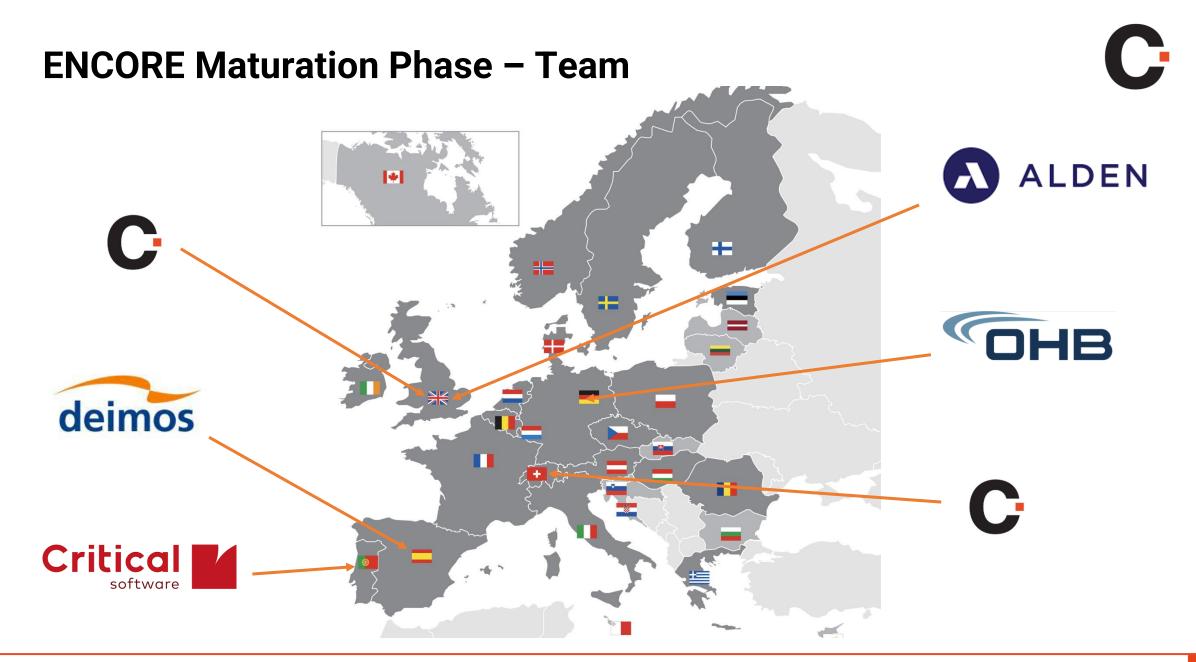
What are the main motivators for potential customers?

- Continue to utilize revenue generating assets
- Protect slot and frequencies filings
- To defer CAPEX on new satellite programs
- Allows to sell satellites to third parties

Market value expect to \$5 billion (2022 to 2044)\*

\*Space Logistics market, Euroconsult report (2022)





#### **ENCORE Maturation Phase – Status**



**Overview of ENCORE Maturation Phase** 

- ClearSpace has been working closely with ESA, the ENCORE consortium, potential customers and the wider industry to advance the ENCORE mission development
- Activities have included:
  - Customer engagement
  - Technical development: overall mission, servicer and key subsystems
  - Programmatic development: cost, schedule and geographical distribution
- Next steps:
  - Preparation for the ESA Council of Ministers 2022
  - Conclusion to the maturation phase activities

## Thank you!

#### **Key Contacts**

Luc Piguet | CEO | <u>luc.piguet@clearspace.today</u> Gayatri Patel | ENCORE Project Manager | <u>gayatri.patel@clearspace.today</u> Pierre Crucis | ENCORE Technical Lead | <u>pierre.crucis@clearspace.today</u>

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