



INFINITE WAYS TO AUTONOMY

Un ambiente virtuale
per simulare missioni
di avvicinamento orbitale
tra CubeSat

WE DEVELOP AUTOMATION SOLUTIONS FOR THE SPACE INDUSTRY, AND SUPPORT SPACE COMPANIES IN THE ADOPTION OF AI.

OUR TRACK RECORD



VALIDATED
TECHNOLOGY
AND PRODUCTS



PRODUCT SUITE
COMPREHENSIVE ECOSYSTEM FOR
OPERATIONS PIPELINE

INTERNATIONAL PRESENCE



ITALY
TURIN
HEADQUARTERS

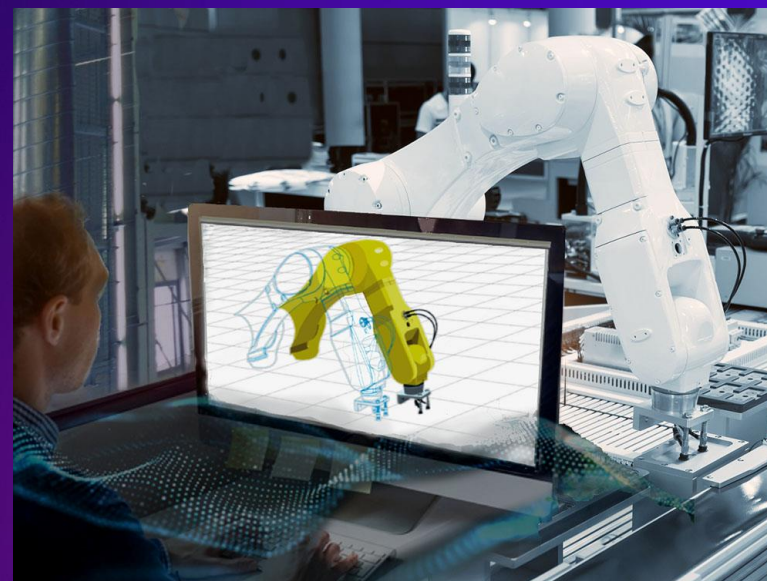


FRANCE
TOULOUSE
BRANCH OFFICE

TRUSTED BY



WE EXPLOIT VIRTUAL ENVIRONMENTS TO SUPPORT OUR PRODUCTS LIFECYCLE.



VENV EXPERTISE AND HERITAGE

2021

Video & VR demo for AI based lunar lander agent



2021

Data generator for asteroid proximity visual navigation



2022

Earth Observation payload generator



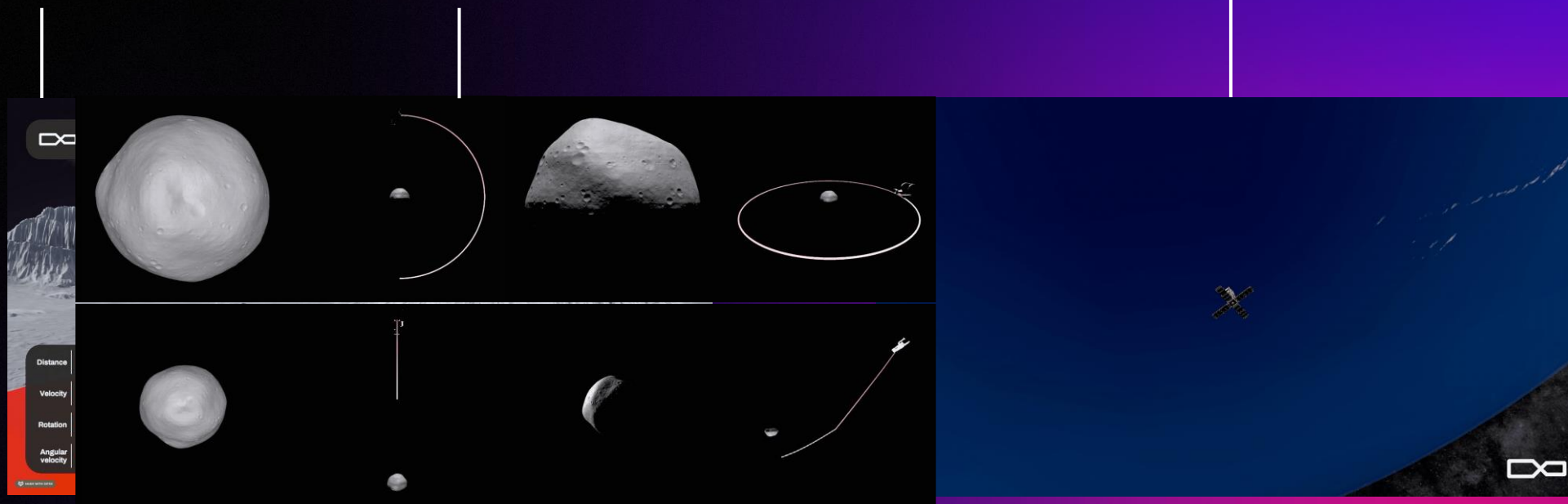
2022

orbital_OLIVER video promo



2023

Flight Dynamics Engine



VENV FOR IN ORBIT SERVICING MISSIONS



TOOLS

Orbital & attitude dynamics simulation

Optical payload simulation

Hardware subsystems simulation



OBJECTIVES

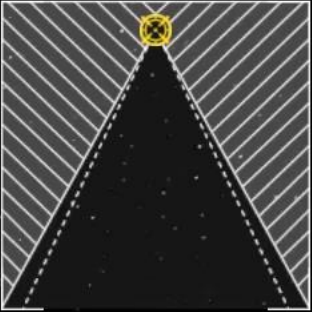
Closed loop simulator for AI based GNC algorithms

Data generation for AI based Visual Navigation algorithms

Realtime and intuitive UI to control and debug simulation

PRESS space TO PAUSE

ELAPSED TIME (TS)
01h 22m 05s (10x)



L ←

LAT
x: 0.0000m 0.000m/s

→ R

DOCK HERE

5.000 m

LB

ROLL
0.0° 0.000°/s

RB

↑ (R)

PITCH
0.0° 0.000°/s

↓ (R)

VER
z: 0.0000m 0.000m/s

RB

LB

R ←

YAW
0.0° 0.000°/s

→ R

L

FOR
y: -5.0000m 0.000m/s

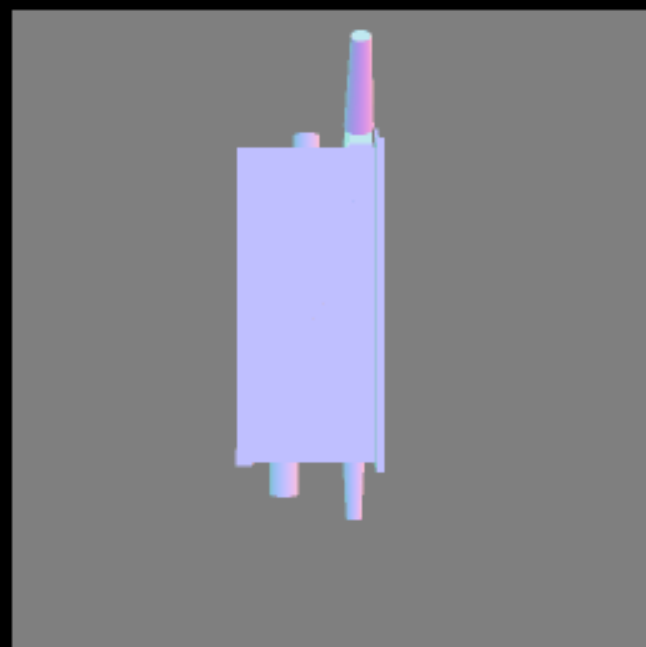
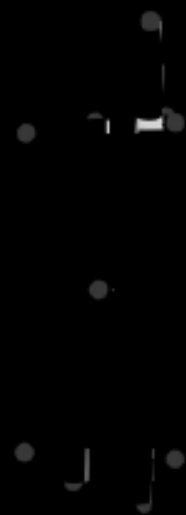
↑ L



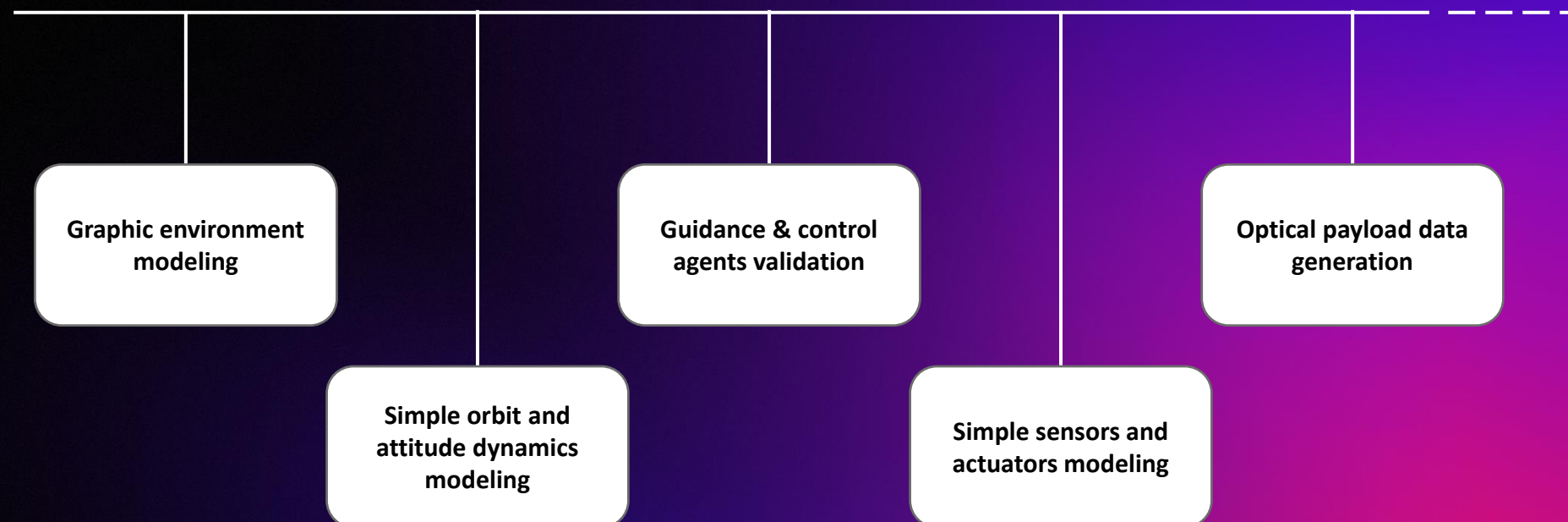
F

≡

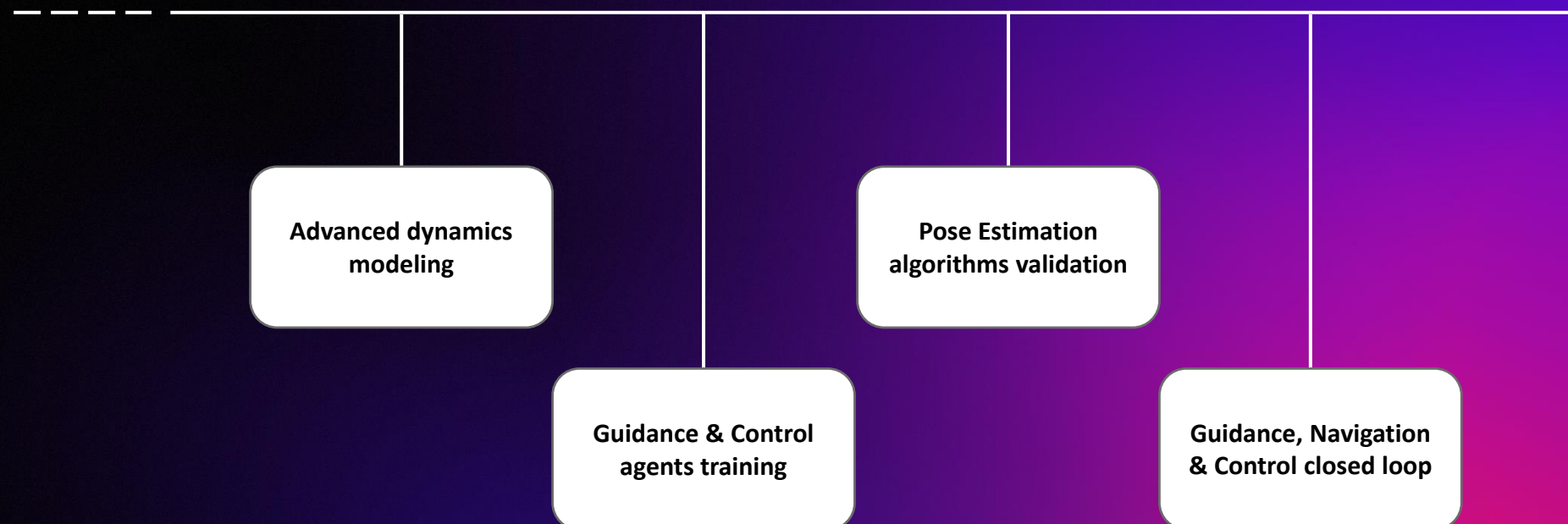




BUZZ: AIKO'S IOS SIMULATOR



BUZZ: NEXT STEPS





BUZZ

To dock or not to dock, that is the question.
Right now you should try to dock a CubeSat
and experience a space simulation.
Let's start!

ENOUGH THEORY, TIME FOR ACTION!

CHALLENGE OUR AGENT IN THE SIMULATOR
ARE YOU READY?



Thanks for your attention!



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