

# ZERO TO ORBIT

Accelerating Chemical Propulsion Innovation



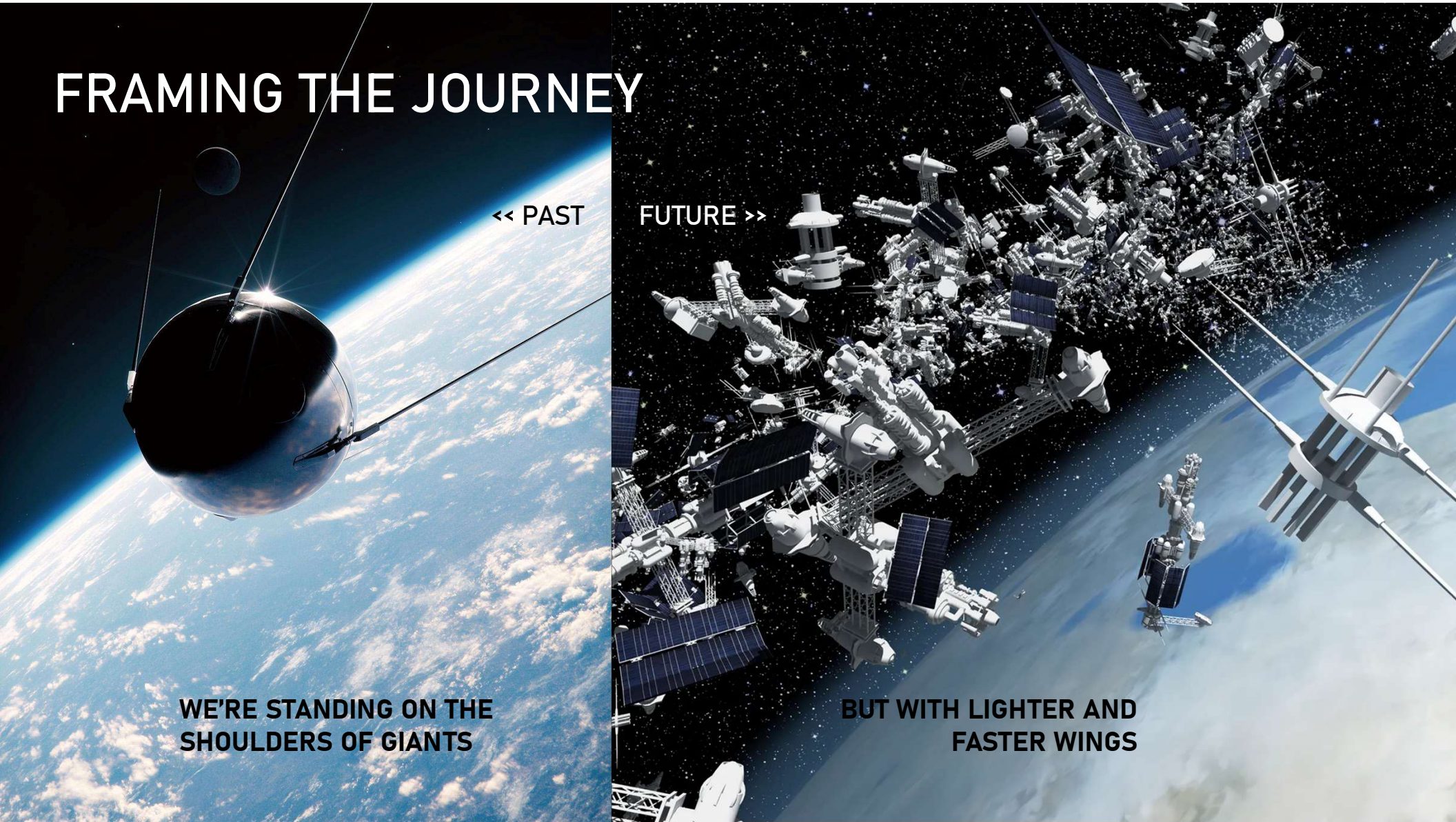
# FRAMING THE JOURNEY

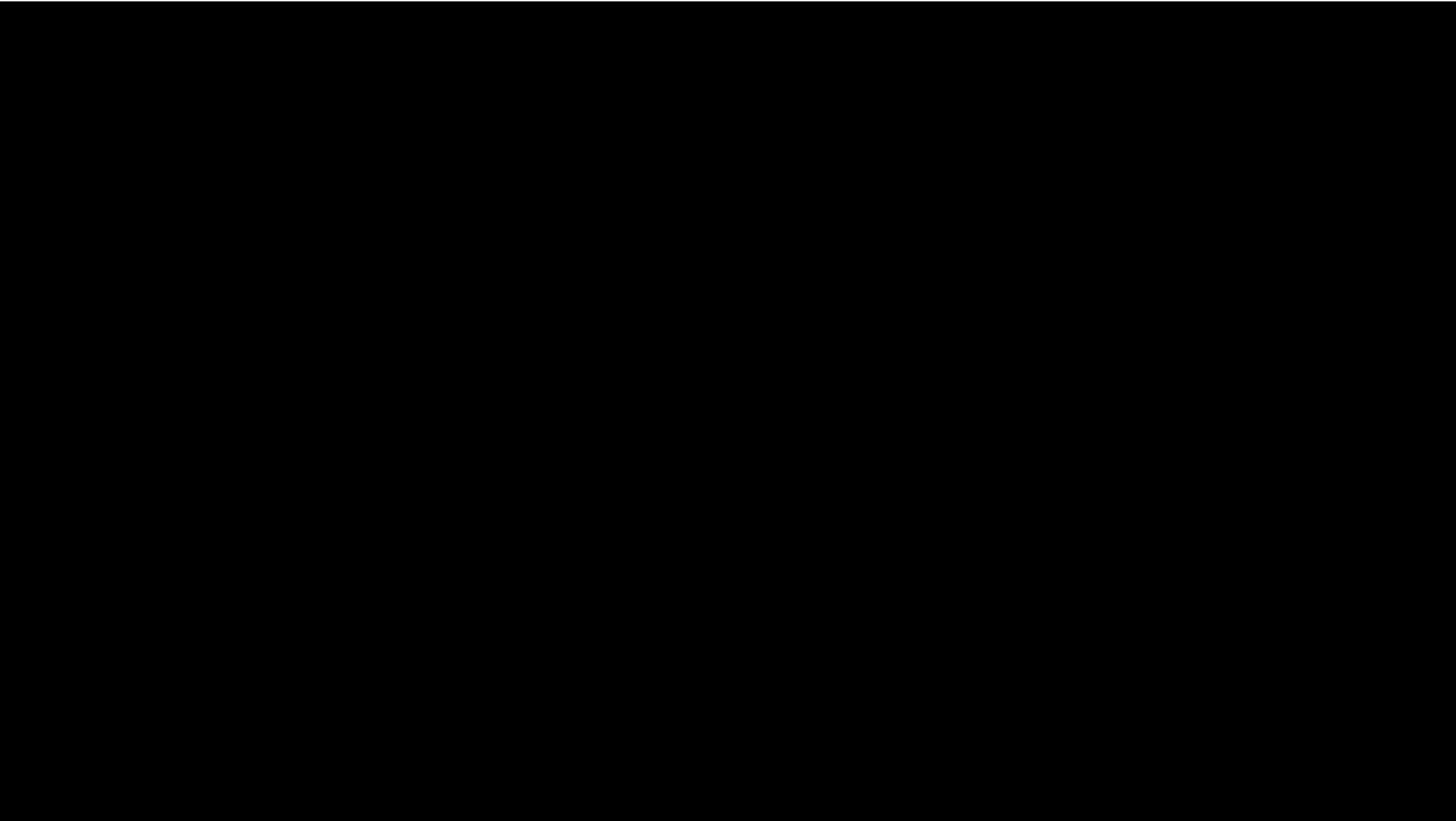
<< PAST

**WE'RE STANDING ON THE  
SHOULDERS OF GIANTS**

FUTURE >>

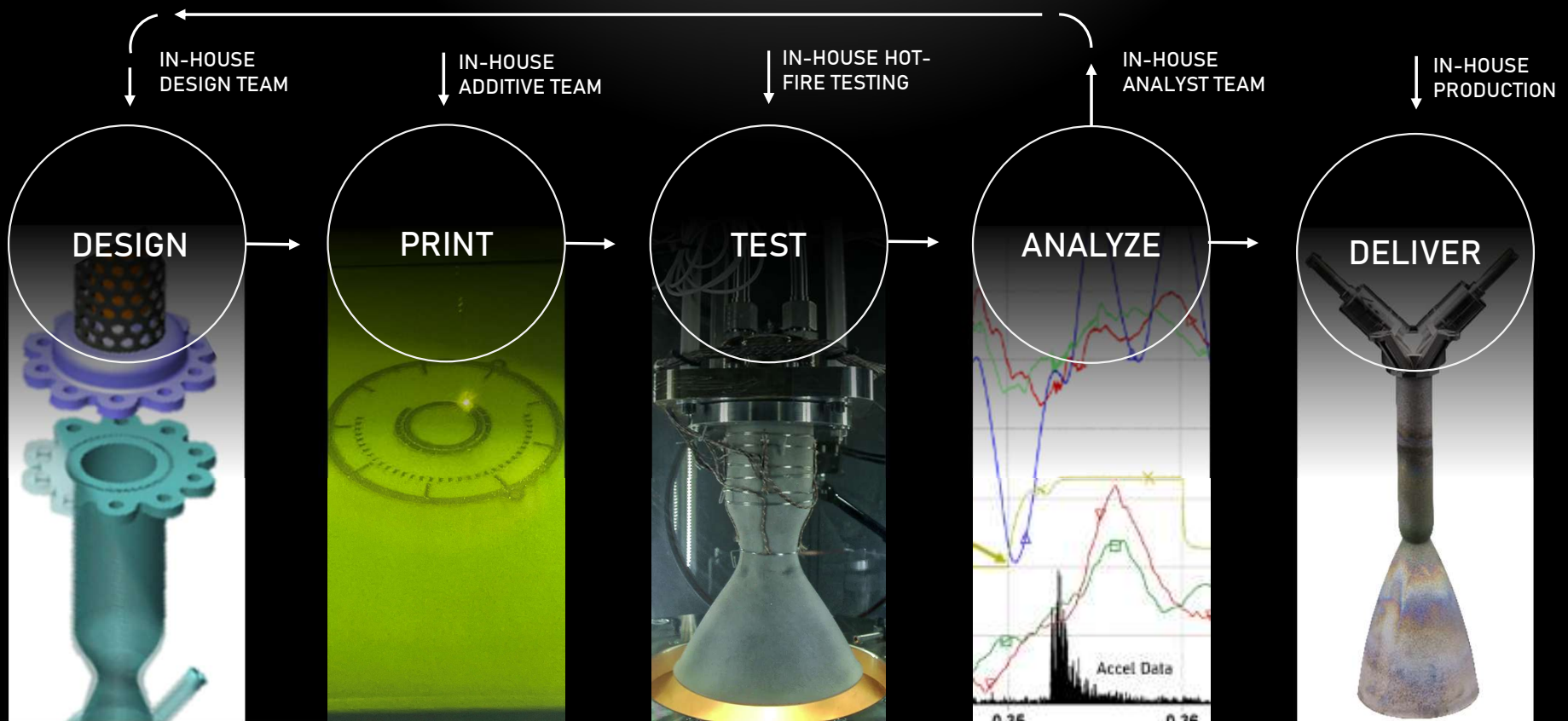
**BUT WITH LIGHTER AND  
FASTER WINGS**





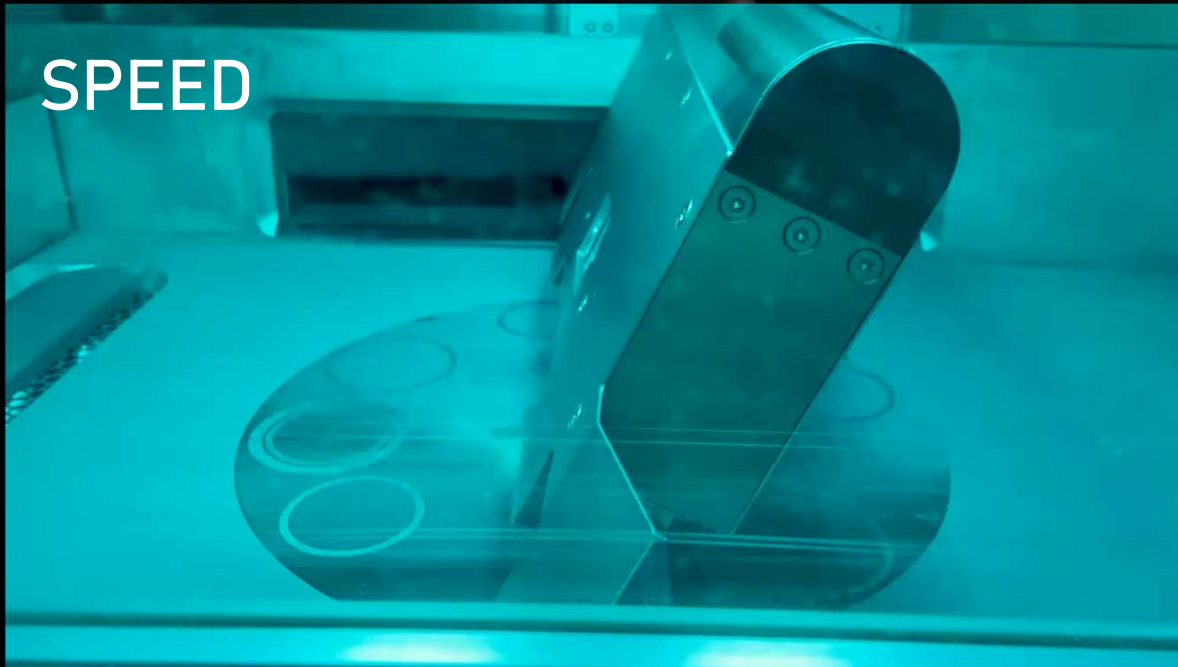
# AGILE SPACE DELIVERY CYCLE

18 MONTHS INSTEAD OF THE STANDARD 15 YEARS



# MANUFACTURING GAME CHANGERS

SPEED



COMPLEXITY



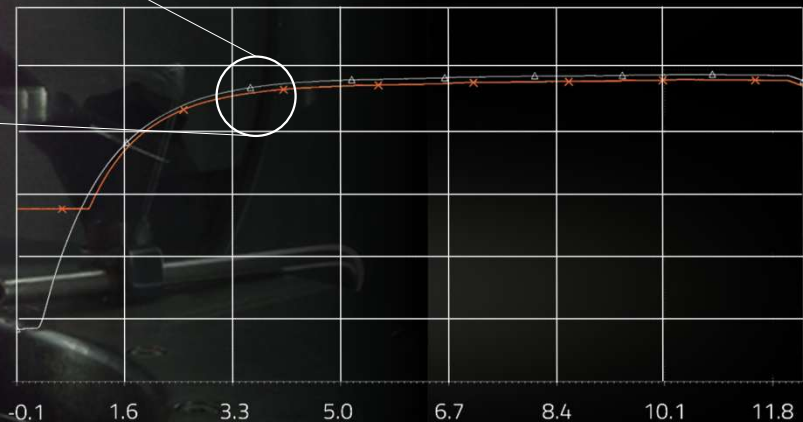
# TEST GAME CHANGERS

## SPEED

Development testing  
within days instead of  
months

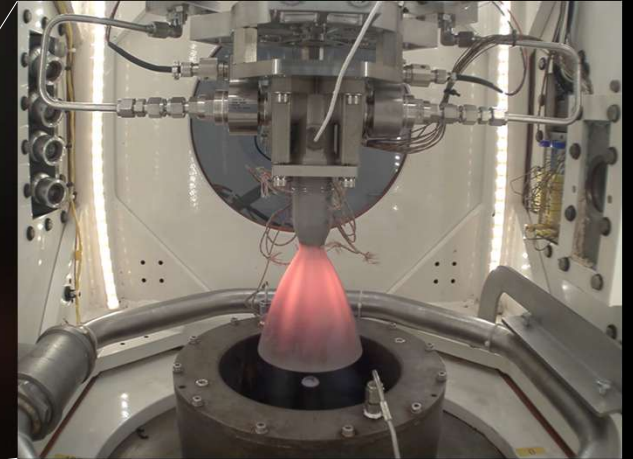
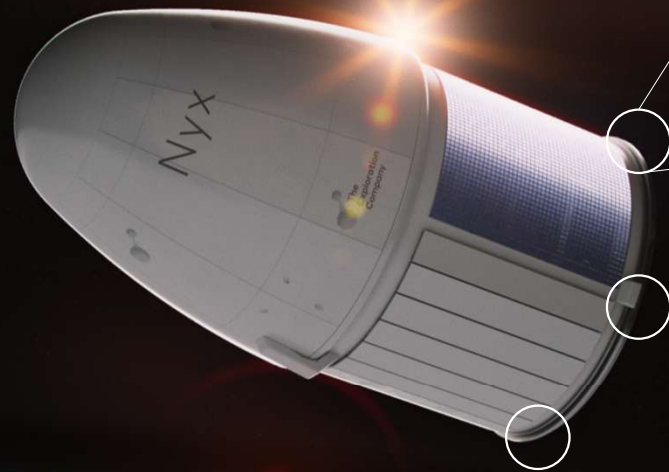
## BENEFITS

- Development feedback loop
- Model anchoring & early sims
- Verification & validation



# CASE STUDY #1

STORY OF "SHOW ME YOU CAN DO IT"



# CASE STUDY #2

## STORY OF "THE TEST STAND CAN'T DO THAT"



# CASE STUDY #3

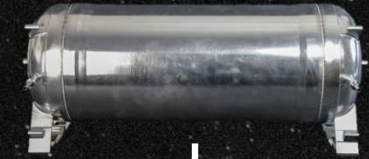
## STORY OF "ZERO SLOSH"



CONCEPT



IRAD



PRODUCTS

### TANKS

#### ZERO SLOSH PISTON

Zero Slosh Piston Tanks are designed for maximum efficiency and precision in space. These tanks eliminate propellant slosh during maneuvers, using a rigid piston to separate propellant from pressurizing gas. This innovative design ensures over 99% explosion efficiency and a stable center of gravity, essential for demanding multi-axis operations. These tanks offer superior durability compared to traditional bladder or diaphragm systems. Their simplicity reduces manufacturing complexity and cost, while their cylindrical shape enables rapid production, with delivery times of less than six months. The absence of flexible diaphragms and PIDs further streamlines usability.

HYDRAZINE/NTO PROPELLANT COMPATIBILITY
ALUMINUM
FLIGHT QUALIFIED MID 2024
FIRST FLIGHT Q2 2026
CUSTOM SIZES AVAILABLE UP TO 48" LONG

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# CASE STUDY #4

## STORY OF "INDUSTRY GAP"







AGILE  
SPACE INDUSTRIES