

Light This Candle!

Maiden Launch of Hylmpulse



Picture from Hylmpulse SR75 Maiden Launch

Paraffin based solid fuel

Photron 30 fps Start

1/30 sec frame : 1436 896 x 280 +47833.333 ms

Time: 12:07





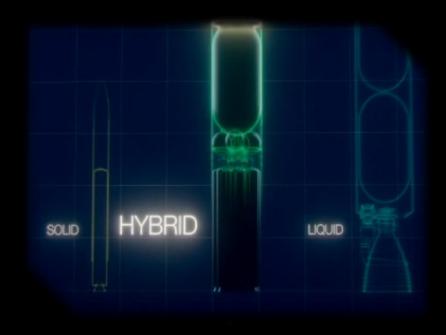
As high performance as LOX/RP1

Compact motor layout

Efficiency over 98%

Non-explosive

Sustainable





SR75 Sounding Rocket: Maiden Flight **Launch Campaign**

Launch vehicle: SR75 Hybrid sounding rocket

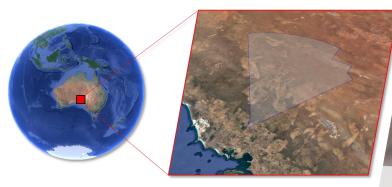
Launch campaign: 19th April – 09th May

Maiden Flight: 3rd May 2024

Launch site: Koonibba Test Center

31.90°S, 133.43°E







SR75: hybrid sounding rocket

Recovery module and Avionics

Helium tank - Composite pressure tank

Liquid Oxygen tank – Full composite

Parrafin-based Hybrid Motor

75 kN sea level thrust

Liquid Oxygen + Paraffin fuel

Same engine as orbital launcher SL1







Launch campaign: Integration starts in the assembly hall

T-15 Days Rocket arrives in the assembly hall



T-14 Days

Integration and testing START

Shipped in standard containers

Modules unloading, inspections and integration within days

Engine - LOX Tank - Helium tank - Recovery module - Payload bay & nose cone

System checkouts



HyImpulse

In Parallel, at the Launch Pad

T-14 Days Launch pad preparation

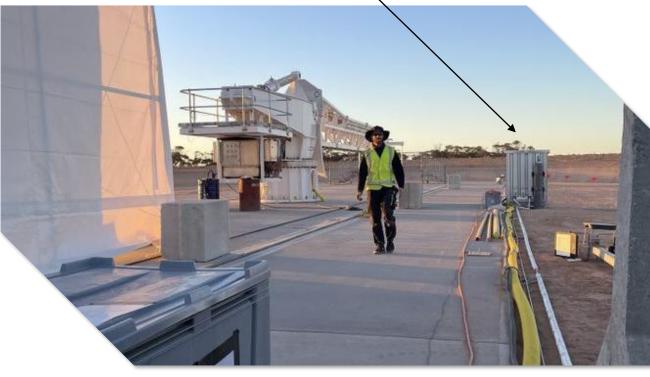


Piping and **cabling** – From GSE to launch rail interfaces

Preparation of the rail interfaces

Ground Support Equipment Container

Valves shelter





Leaving the assembly hall

T-8 Days Systems checkout completed

T-7 Days Rocket moved to the launch pad





Hylmpulse





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Systems testing at the launch pad

T-6 Days Rocket on rail - Systems checkout

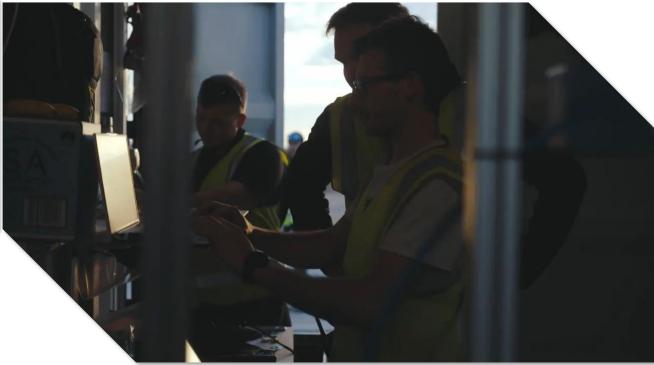


Rocket is connected to the launch rail interfaces

Connection of the umbilicals

Testing and systems checkouts from the GSE

Fluid lines preparation and checks





HyImpulse

Meanwhile at the Range Operations Center

T-6 Days Launch Control Center operations



Range Operations Center – 3.7 km from the launch pad

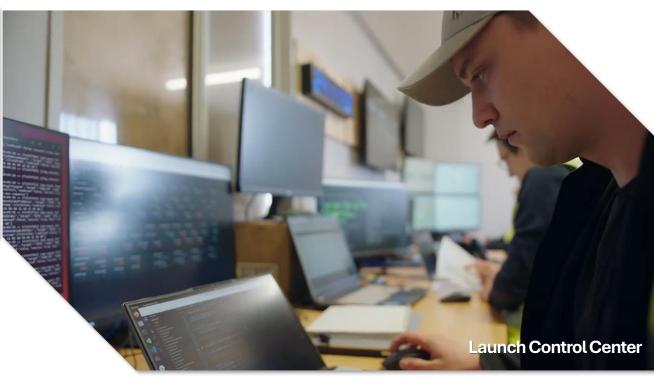
Here are located the **Launch Control** and **Mission Control centers**

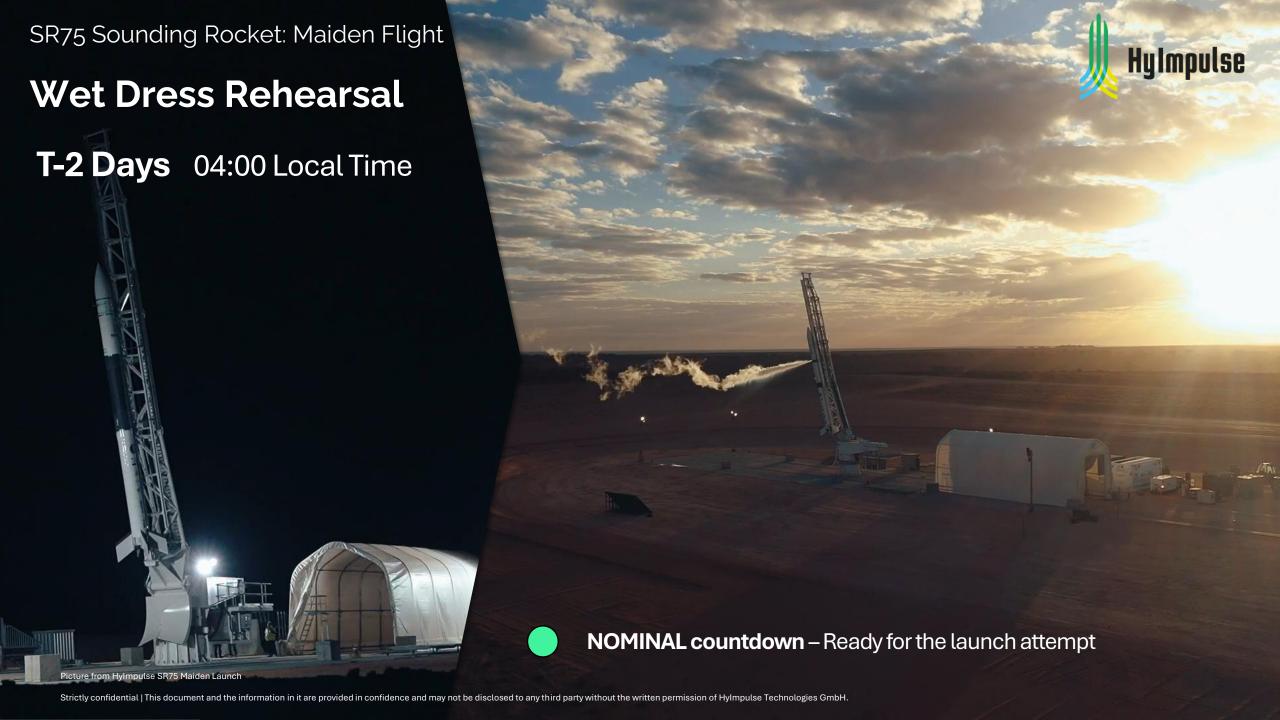
Remote checkouts start in the Launch Control Center

Telemetry setup

Close interactions with the launch pad team

The team is getting ready to perform a Wet Dress Rehearsal

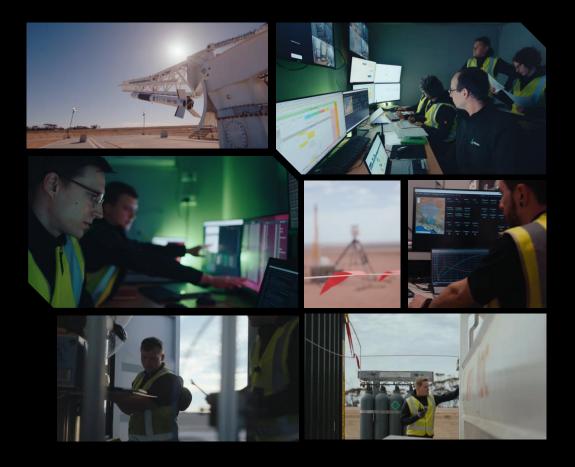




SR75 Sounding Rocket: Maiden Flight

Launch Day

Countdown START 10:00 Local Time





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SR75 Sounding Rocket: Maiden Flight

Post-Flight

Recovery operations





Recovery operations after the flight

Locator beacons and a Helicopter were used for recovery

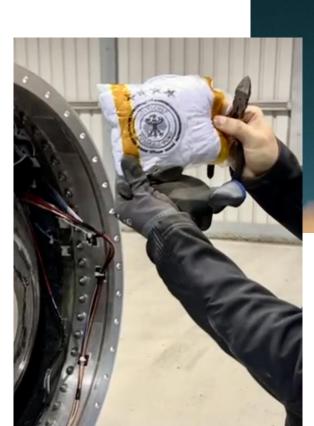
Post Flight Analysis on going with the recovered data



Post-Flight

Payload recovered









Onwards to SL1!



