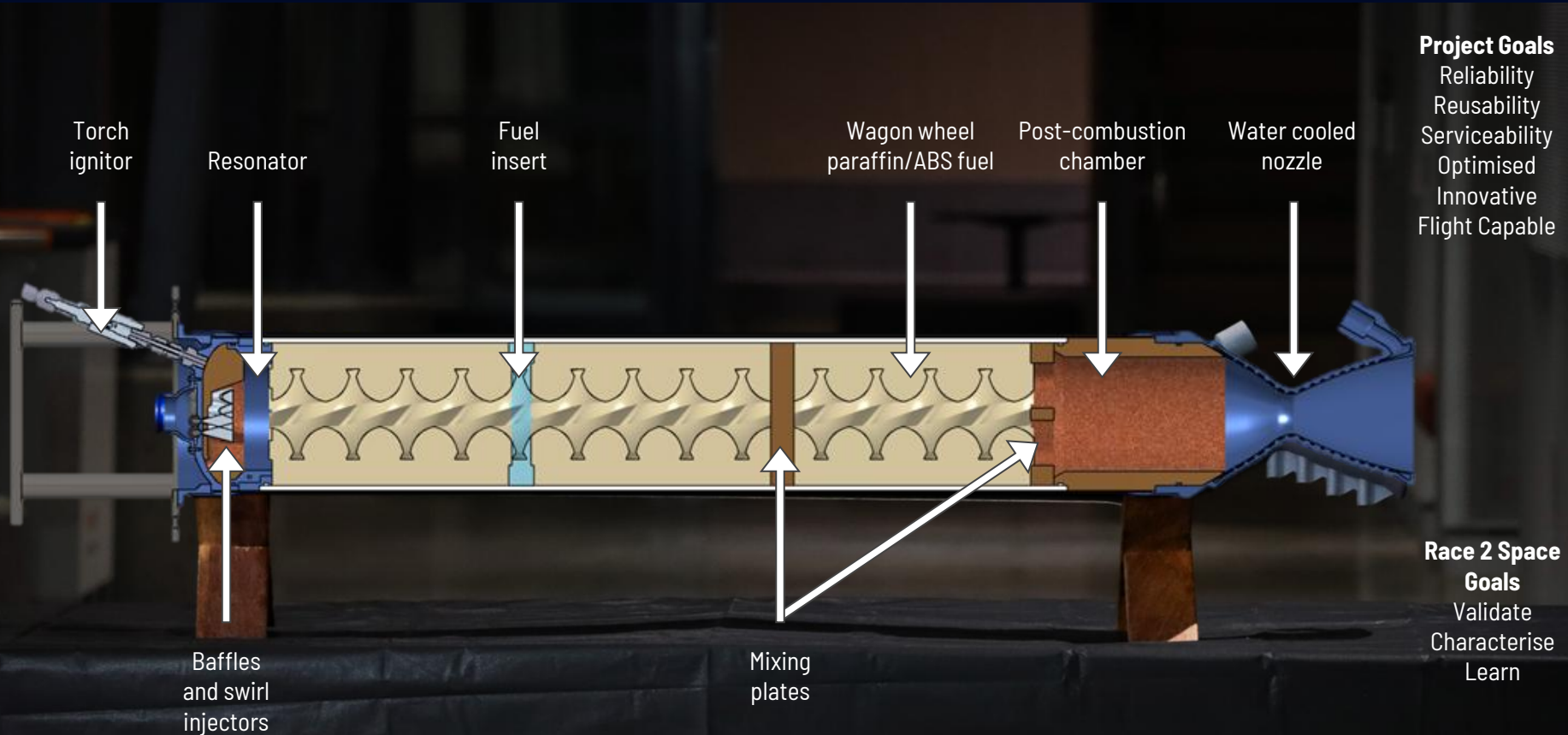


Solaris MkIII - Design and Goals



Solaris MkIII - Performance and Learnings



Aft closure thread failure

- The team does the entirety of its manufacturing in house

- Quality of the thread of the chamber coupler was below specification and thus sheared under load

- Future iterations will need thread micrometres or 3 pin method checks to ensure mating parts are within tolerance

(bar)

- The regression rate of the fuel grain was much higher than predicted in modelling

- The delivered oxidiser mass flow was 0.8 kg/s lower than targeted due to supply limitations

- The coupling of this caused the extremely low O/F ratio

- This data means the oxidiser mass flow can be lowered and the fuel grain length changed to achieve the target thrust

