THE DESIGN AND OPERATION OF SUBORBITAL LOW COST AND LOW RISK VEHICLE TO THE EDGE OF SPACE (S.O.L.V.E.S.)
INTER-CONTINENTAL SUBORBITAL FLIGHT

SUBORBITAL FLIGHT

SATELLITE LAUNCH

ZERO-G FLIGHT

SPACEPORT MALAYSIA

STRATEGIC FLIGHT SERVICES
SOLVES ready for launch.

TYPE: Low Cost & Low Risk VTOL Small Suborbital Vehicle
A 12 inches wooden ruler with airfoil cross section.
SOLVES ready for launch, side view.

Height: 1050cm
Diameter: 300cm (lower)
120cm (upper)
Passengers: 4
Engines: 4 Solid Propellants
Plan of SOLVES showing 4 seats.
Ascending SOLVES.
Ascending SOLVES, side view.
Descending SOLVES with rotating wing extended.
Descending SOLVES with rotating wing extended, side view.
Electrical propulsion of SOLVES.

Lighter
Smaller
Quieter
Greener
Descending SOLVES with electrical propulsion visible.
Descending SOLVES with electrical propulsion visible, side view.
-LES (negative launch escape system):
A pair of ignitable malfunctioned propulsions are released and accelerated away from the fuselage, while the other pair of functioning propulsions attached to the fuselage is turned-off.
OTHER SAFETY FEATURES OF SOLVES

- External Propulsions
- Low Profile Cabin
- Emergency Parachute
- Passenger – Friendly Landing capability.
Solid rocket propulsion is suitable for naval operation, as it is ready-pack, last longer in storage & does not require fuelling prior to launch, resulting in simpler & safer naval launch pad that does not require fuel storage & management facility.
Sequence of proposed SOLVES operation from a superyacht.
Sequence of proposed SOLVES operation from a superyacht.
Sequence of proposed SOLVES operation from a superyacht.
A reusable booster with 2 levels rotating wings in ascending mode (left) and descending mode (right).
The EGG suborbiter with a reusable booster. Both the upper and lower part of EGG rotates naturally.
“Uncrashable” fixed-wing aircraft.
“Uncrashable” fixed-wing aircraft.
“Uncrashable” Single-Electric-Engined Light Airplane
Thank You

SOLVES