N254-C04: Catapult Challenge: Modular Alternate Navigation Fusion Architecture for High Speed Systems

Information on notional block diagram:

The small business concern shall develop and promulgate a Testing Open System Architecture (TOSA) that will be representative for high-speed systems and sensor suites. The TOSA shall include:

1. TOSA Input from Technology [See input A on notional block diagram]: data interfaces for technologies to provide sensor navigation information to a notional flight computer;
2. TOSA input to technology [See input B on notional block diagram]: data interfaces to a navigation sensor from a representative flight computer
3. Sensor stimuli model to a sensor technology [See input C on notional block diagram]: publicly available data interface by sensor type (GPS, celestial, resident space objects, digital elevation map(s))