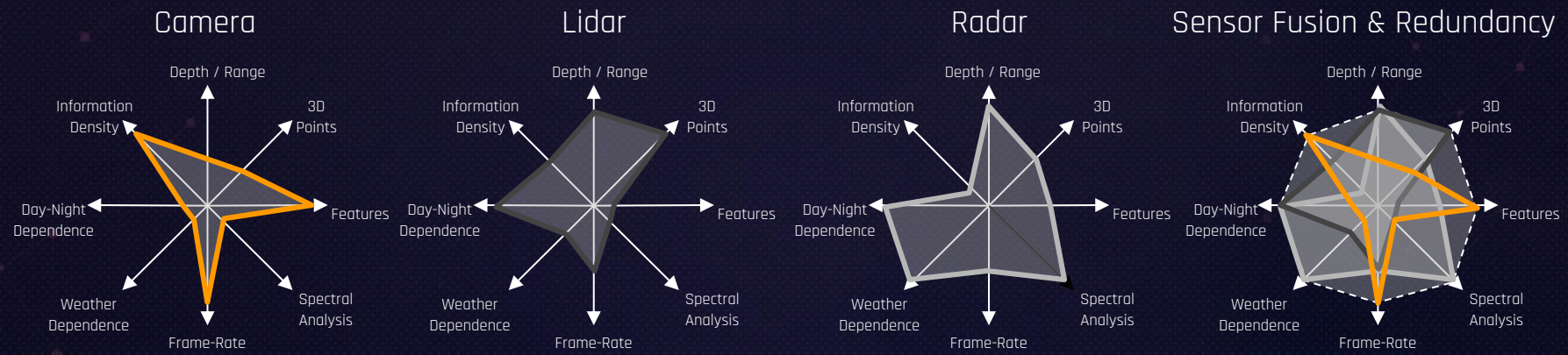


SENSOR REDUNDANCY ENABLES SAFETY

High Machine Learning Performance & Safety for various kinds of autonomy functions



Different Sensors have different strengths and disadvantages.

Over-Engineering of Sensor Modalities using Deep-Learning is not always useful from a functional point of view (e.g. Depth estimation on Camera, Classification on Lidar).

VISIONAIR CUBE (1.5Kg, 100W)

Drone Agnostic / Real-time Autonomy / SAFE AI



LIDAR

OS-1 64
455 grams

10Hz

1.2 Mill. Points/s
> 100m range

3 * 74 GHz Radars

AWR1843B00ST
32 grams each

360° Perception
10Hz / Dynamics
2D FFT
> 100m Range

2 * 220° Dual Fisheye Cams

Alvium 1500 C-500c
(Allied)
67 grams each

360° Perception
30Hz / RGB
2,5k*2k Res.

1 NIR

Alvium 1800 U-500c
47 grams

Camera
> High Range

AI Heart Computer

Jetson AGX 32 Modul
300 grams

VISIONAIR CUBE (1.5Kg, 100W)

Drone Agnostic / Real-time Autonomy / SAFE AI

