

Australian Space Industry Review: Update

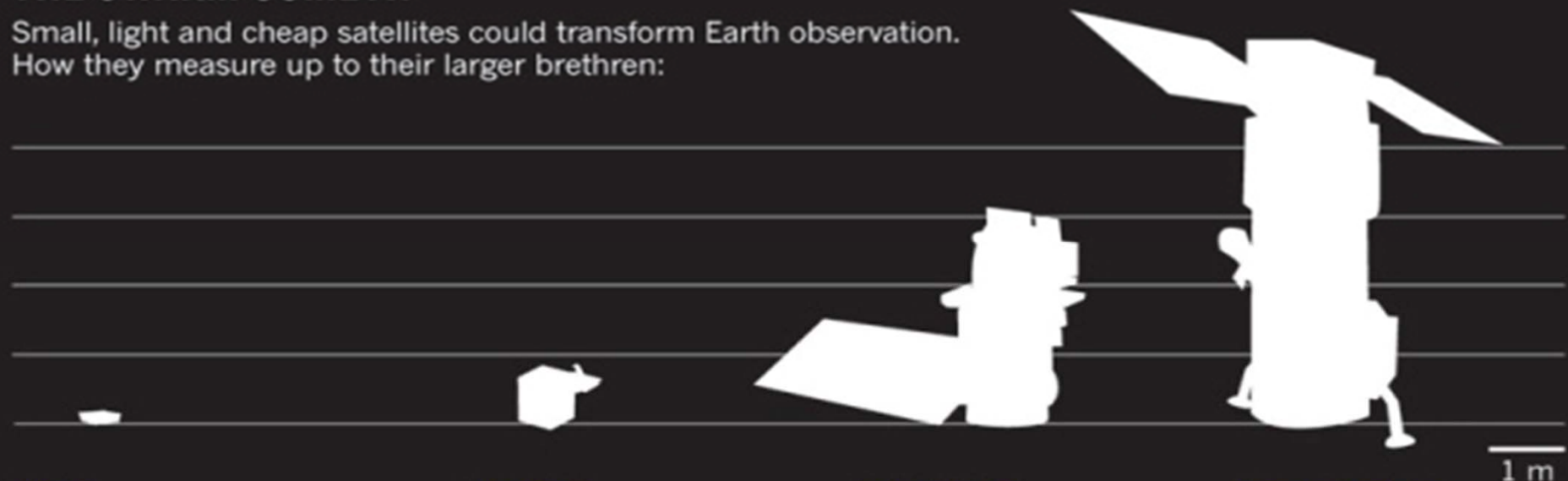
Dr Stuart Minchin, Geoscience Australia





THE SWARM COMETH

Small, light and cheap satellites could transform Earth observation.
How they measure up to their larger brethren:



DOVE

Operator: Planet Labs

Number of satellites*: 32

Weight: ~5 kg

Instruments: Optical and near-infrared spectral bands

Spatial resolution: 3–5 m

SKYSAT

Operator: Skybox Imaging

Number of satellites*: 24

Weight: ~100 kg

Instruments: Optical and near-infrared spectral bands

Spatial resolution: ~1 m

LANDSAT 8

Operator: NASA

Number of satellites*: N/A

Weight: 2,071 kg[†]

Instruments: Multiple spectral bands

Spatial resolution: 15–100 m[‡]

WORLDVIEW-3

Operator: DigitalGlobe

Number of satellites*: N/A

Weight: 2,800 kg

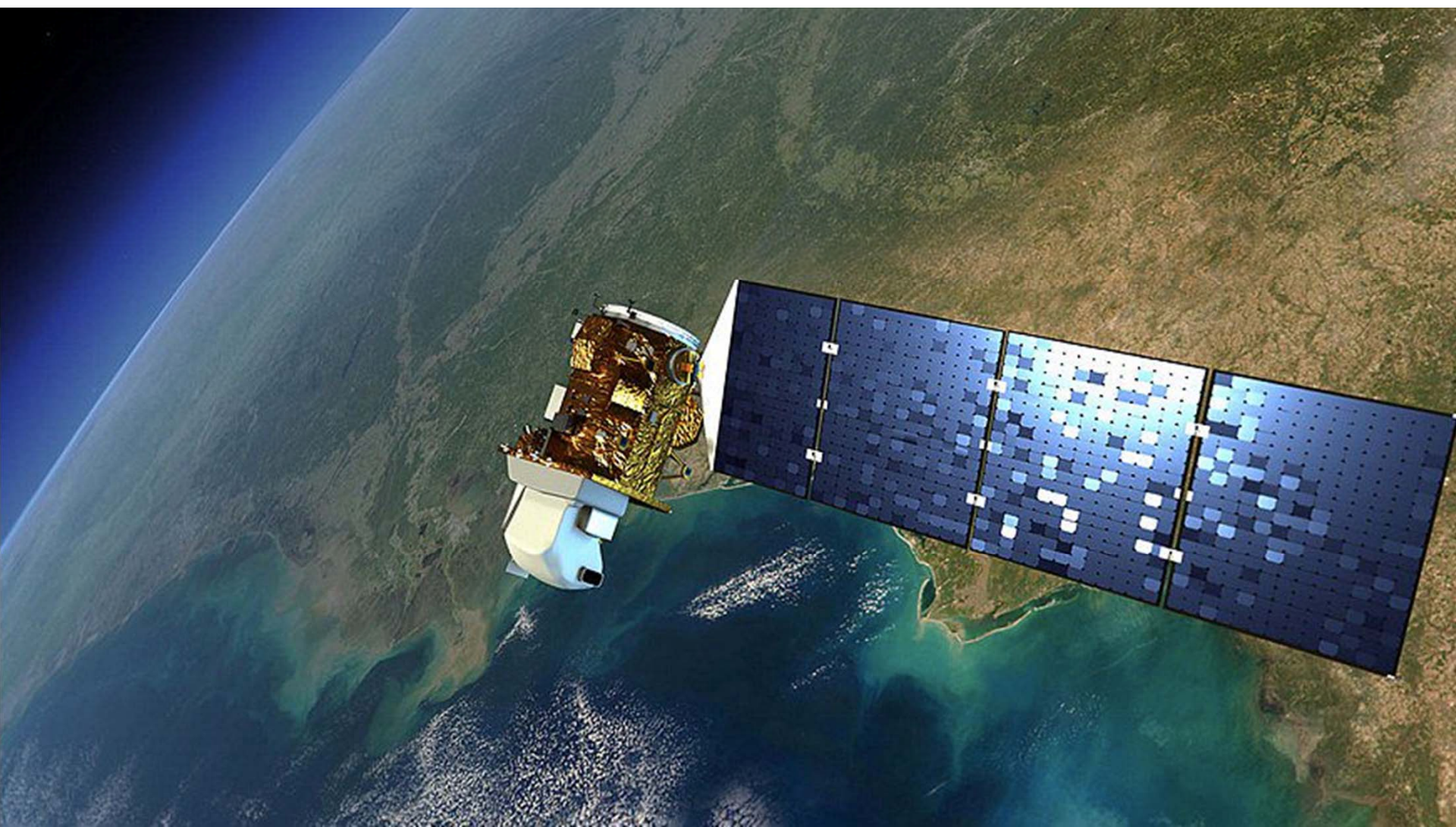
Instruments: Multiple spectral bands

Spatial resolution: 0.3–30 m[‡]

*When fully operational [†] Without instruments [‡] Depending on spectral frequency

Image: Nature.com

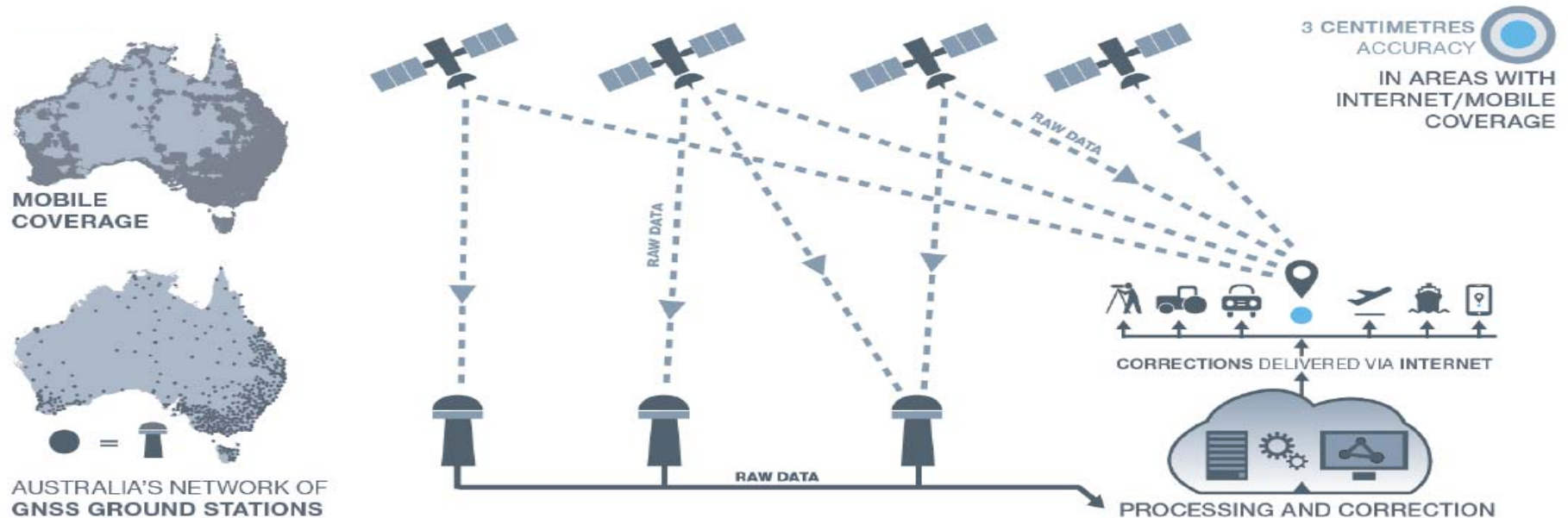




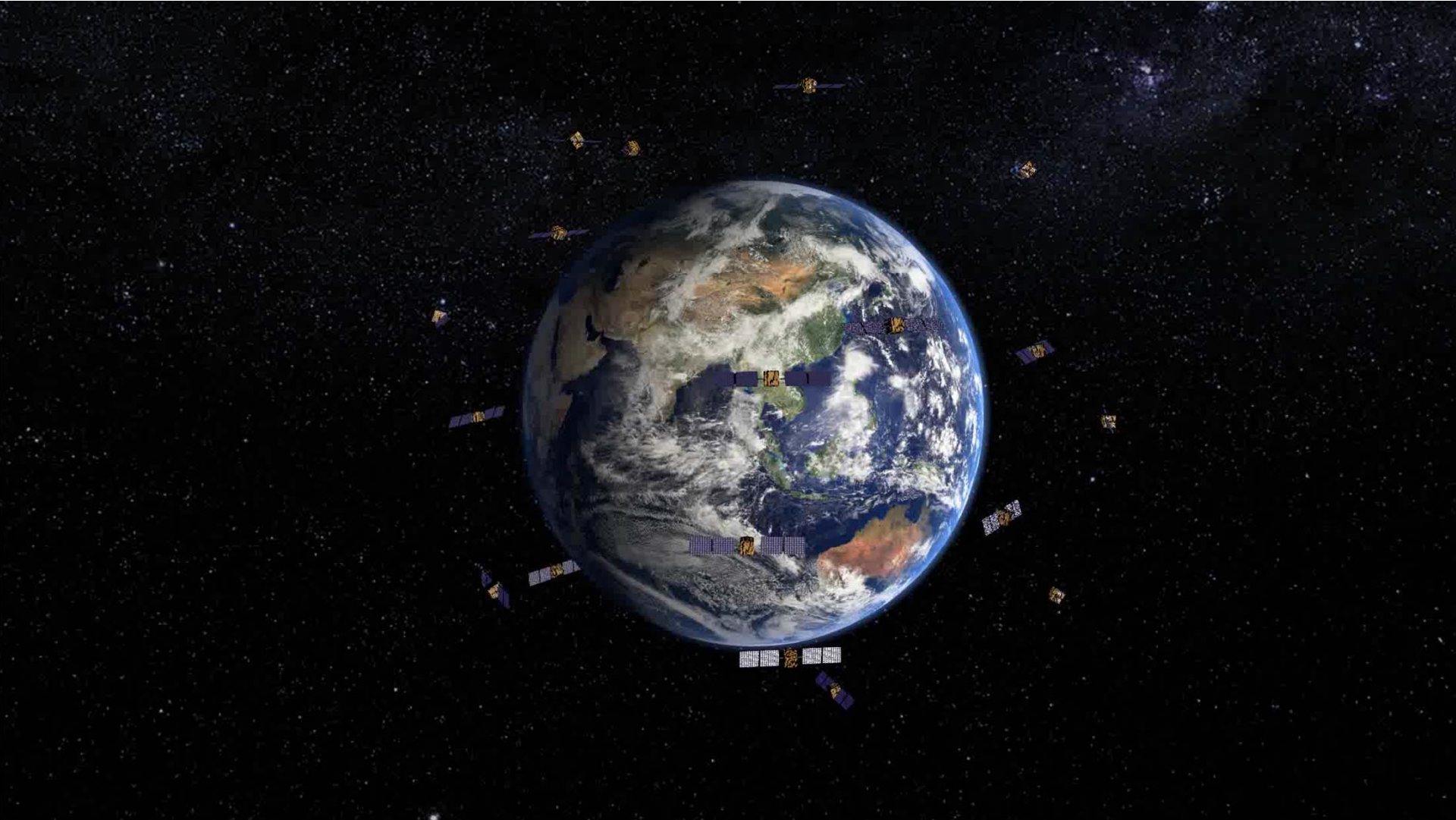




High accuracy position, navigation and timing













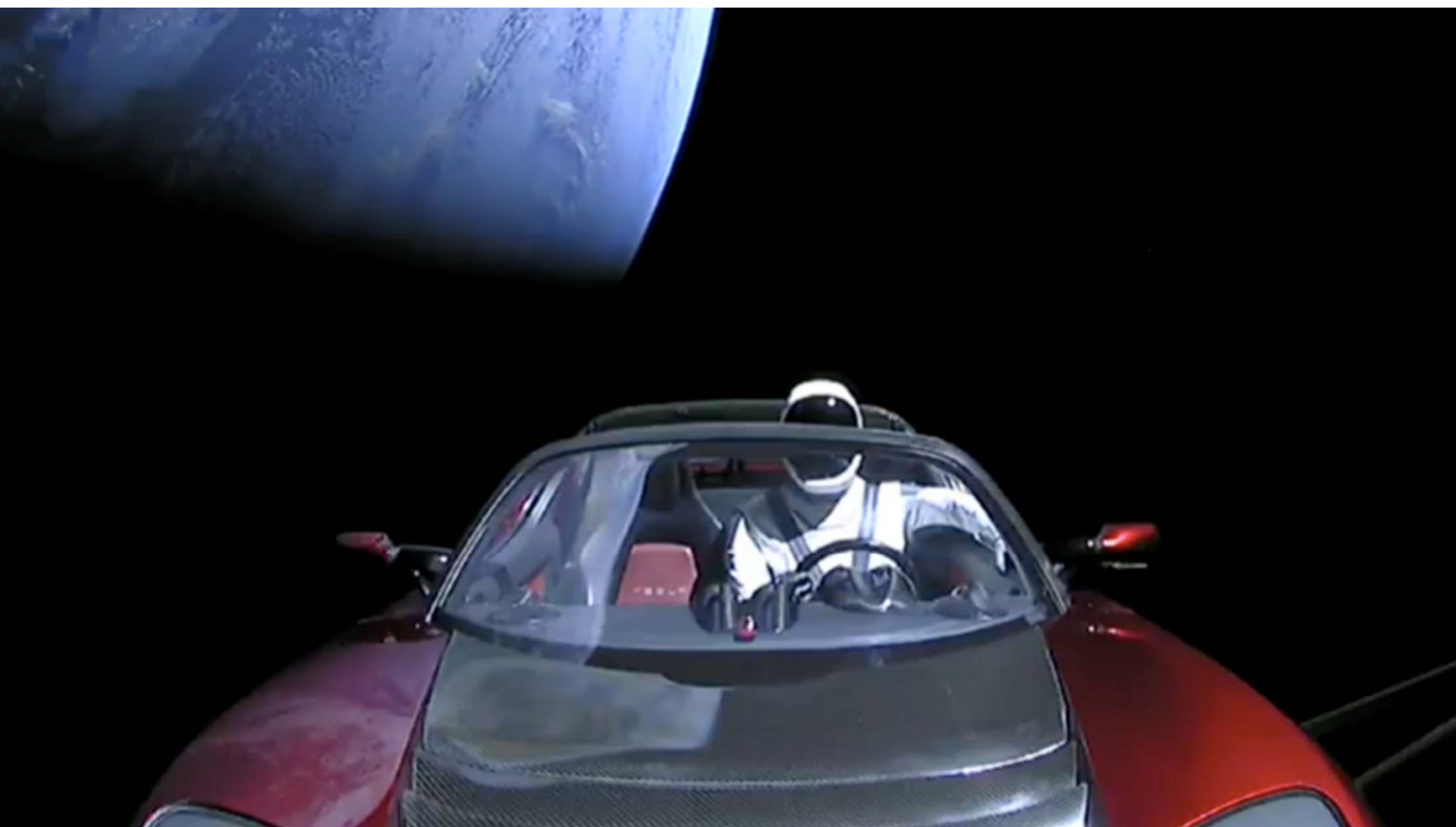


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Questions?

