

EAN BENEFITS AT A GLANCE –

FACTS SPEAK FOR THEMSELVES

BANDWIDTH & CAPACITY

European Aviation Network

- highest possible Bandwidth/Capacity as focus is on aircraft only
- > 75 Mbit/s peak rate to aircraft

SCALING

- ACGC ground network **easily scales** with increasing traffic needs
- Easy **densification & sectorization of ground cell-sites**

LATENCY

- short signal latency, typically **<100ms (20-70ms)**
- **all internet use-cases** possible (incl. gaming, VR, etc.)

SYSTEM AVAILABILITY

- Integrated hybrid network provides **seamless availability over land & water**
- less complex equipment **less prone to mechanical issues**

INSTALLATION

- **fast & low-impact** installation **during overnight breaks**
- **fleet installation** turnaround **within a few months**

WEIGHT & DRAG

- small & light-weight antennas for both MSS and ACGC radio links with **minimal impact on kerosene consumption**

AVIATION EXCLUSIVITY

- **Airlines on EAN do not share network capacity** with any other industry or user-type and receive full capacity.

Best Satellite-only based Solutions (Europe regional)

- **Bandwidth/Capacity shared with other users** (non-aviation related like maritime and ground-based, e.g. rural customers)

- satellite capacity **can only be scaled by adding satellites**
- **only minor tweaks** by re-arranging spot-beams possible

- ultra-long signal latency, typically **>500ms¹⁾**
- only **limited internet use-cases** feasible

- complex antenna technology with **vulnerable moving parts** **lead to availability of usually not higher than 90%**

- installation **only possible during c-checks**
- **fleet installation** turnaround measured in **years**

- typically large, cumbersome, heavy/prone to wear antennas with **significant knock-on for kerosene consumption**

- **Capacity is shared with many non aviation customers** and user groups like maritime, agriculture or rural residential internet

