

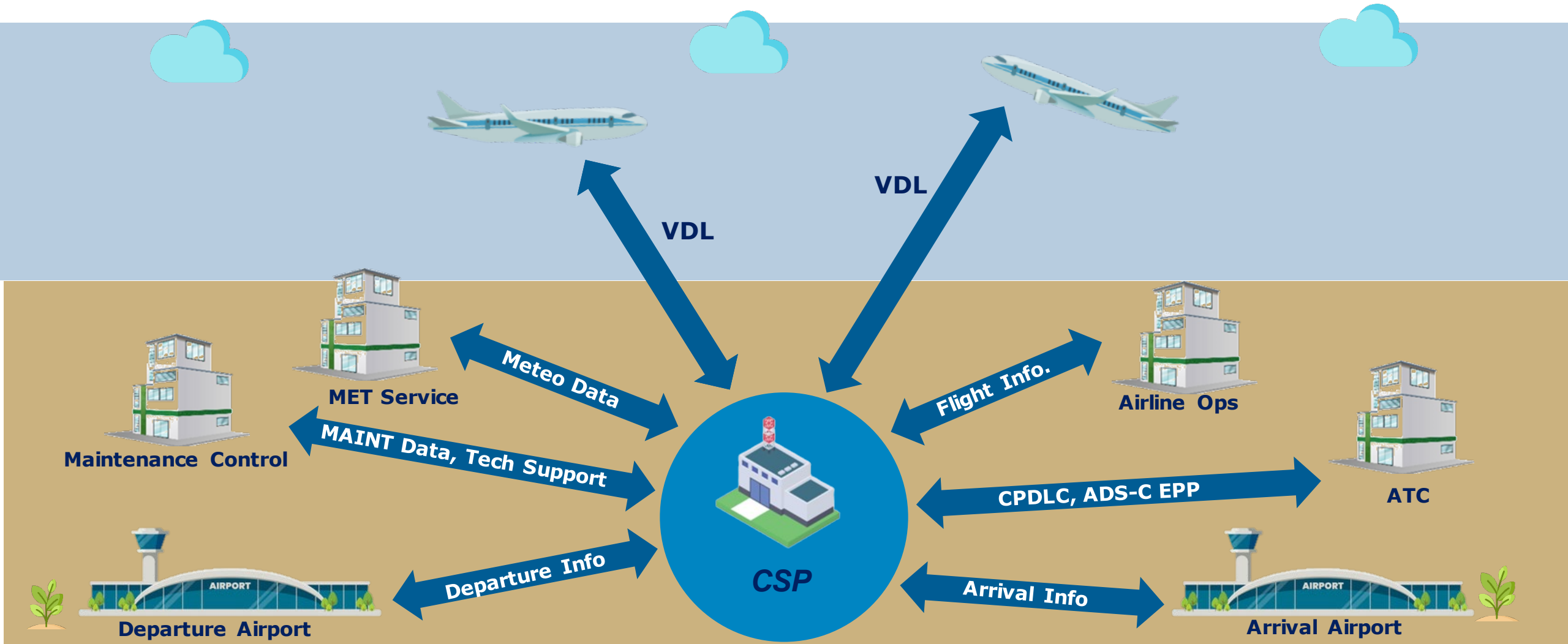


Future & Long-terms Comm Infrastructure

***Thomas Koerber – SESAR Deployment Manager, Datalink
Expert***

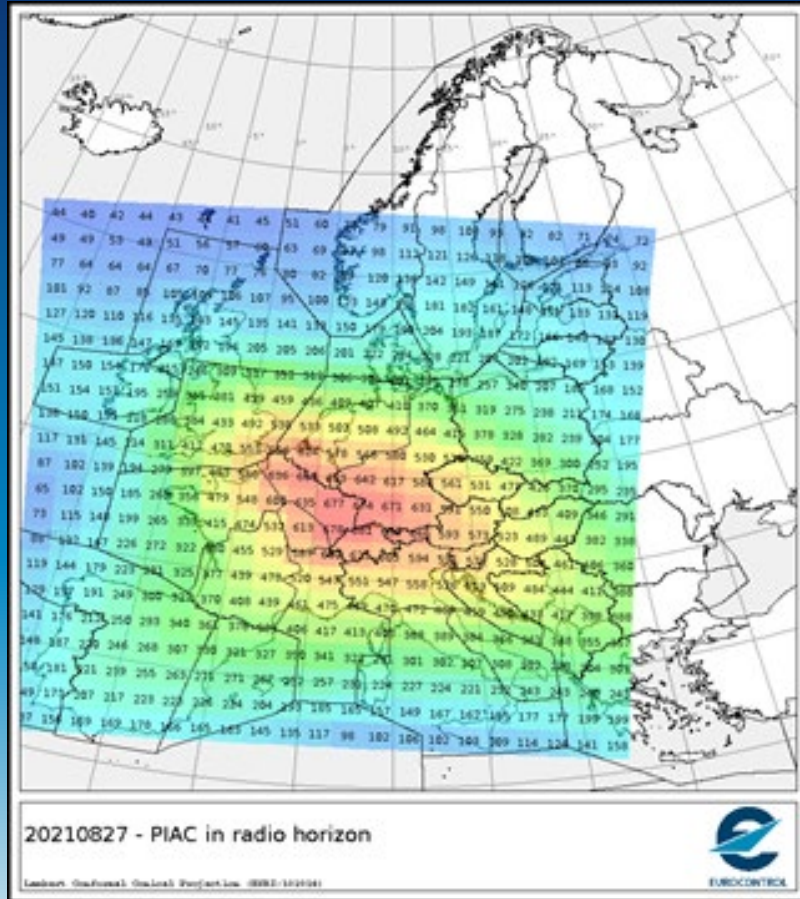


Air/Ground Communication today

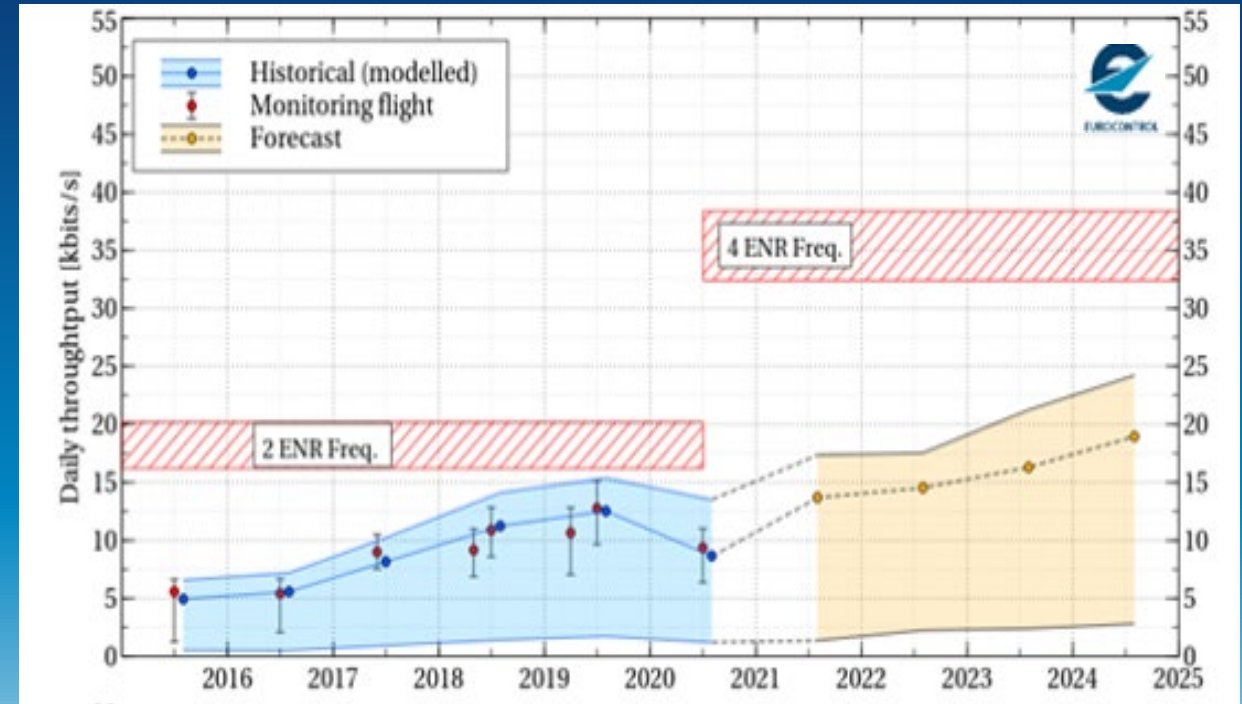




VDL Link Saturation

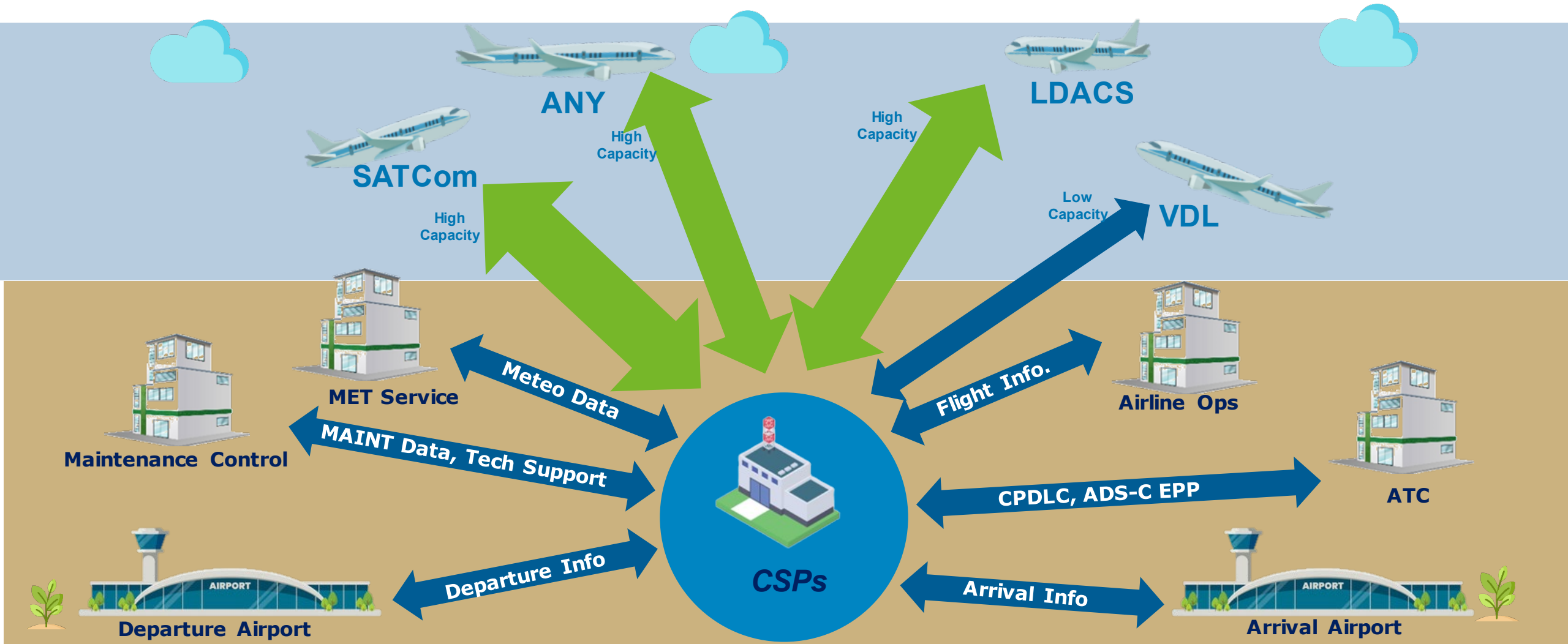


Local VDL traffic distribution



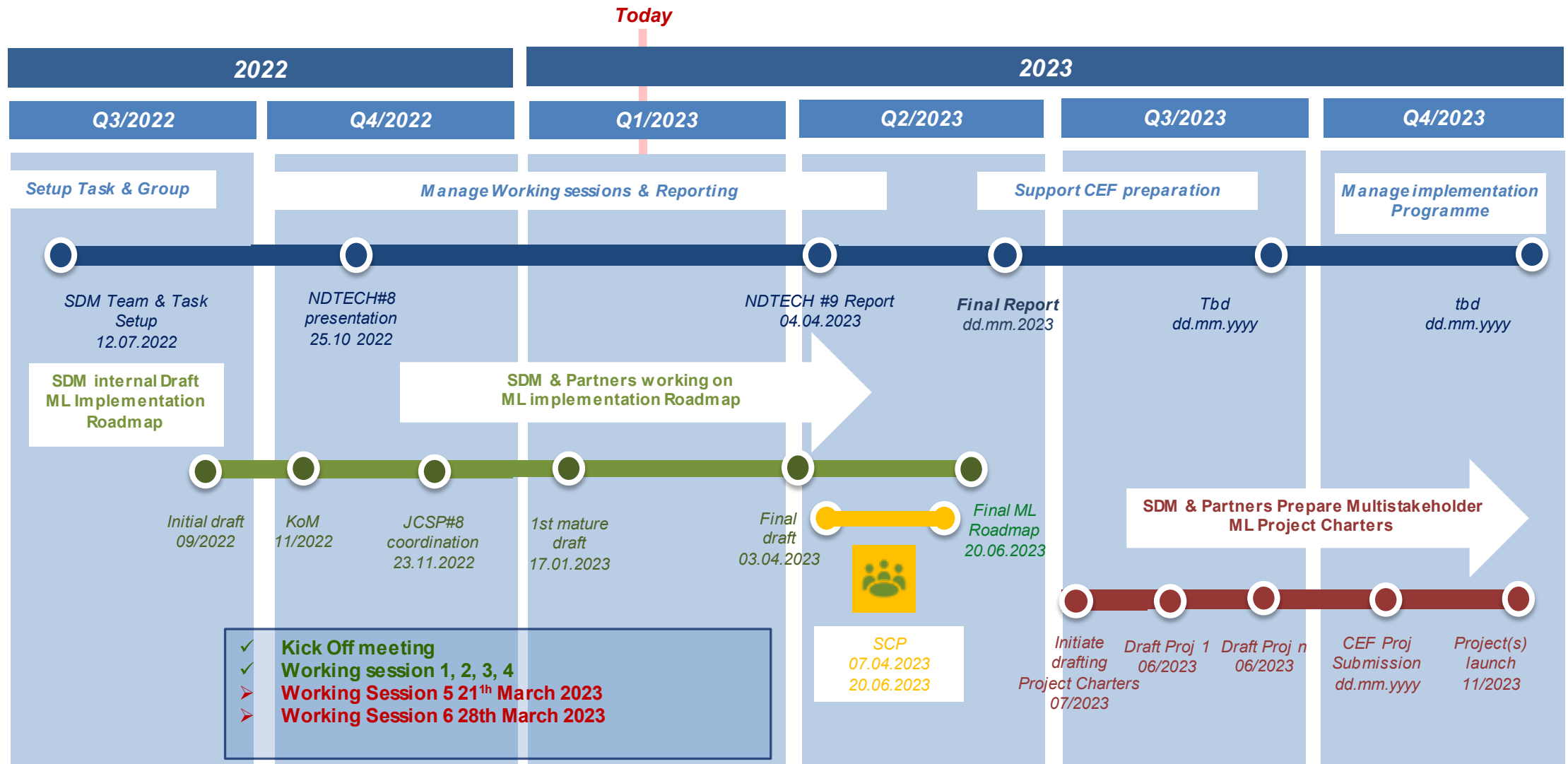
VDL Traffic evolution in the red area

Multilink

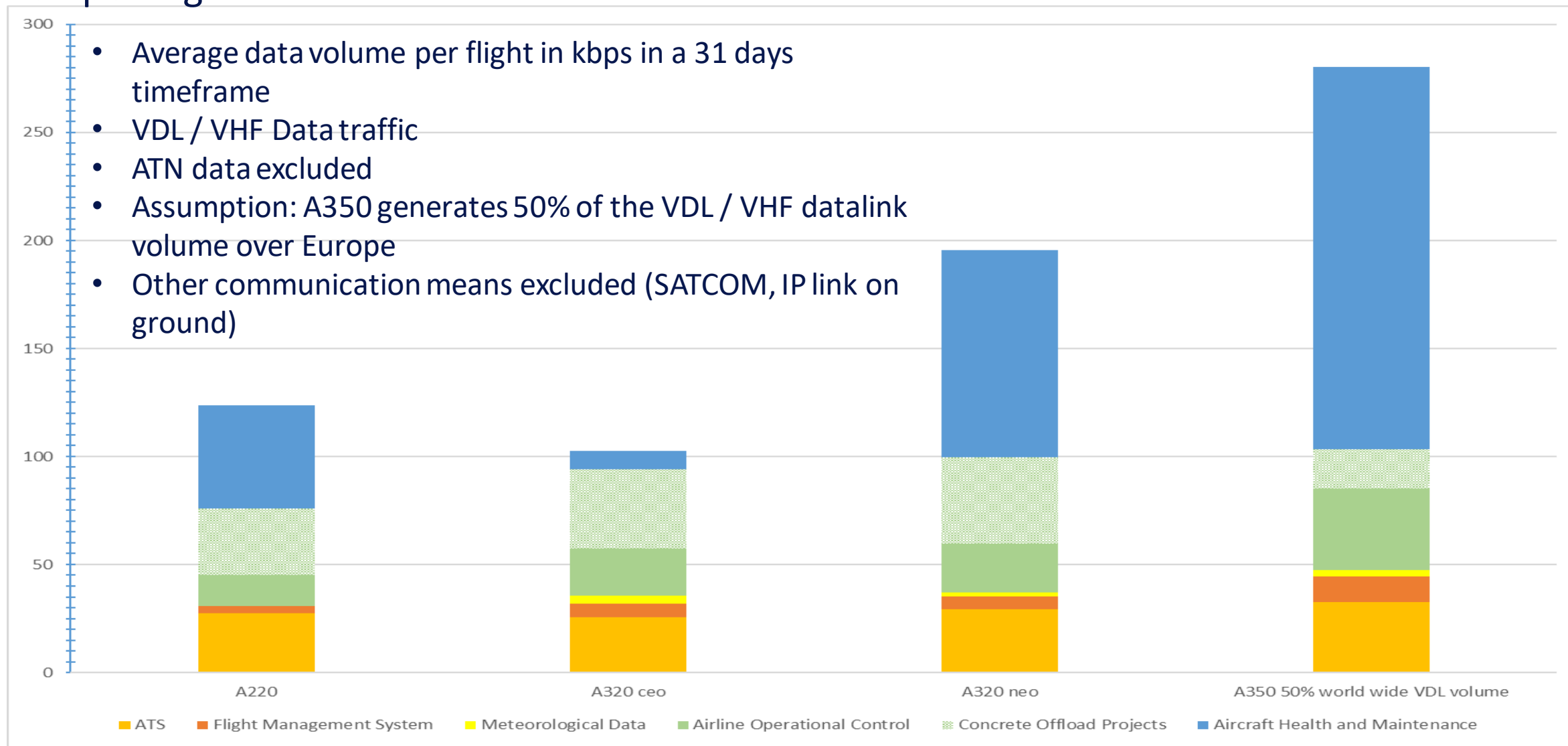




Multilink Roadmap Workgroup Timeline



Lufthansa Group Datalink Volume per service category A220 / A320ceo / A320neo / A350 in kbit per flight



Service Cluster

- **ATS Orange/Yellow/Red**
 - ATS: ATIS, TAF, METAR, SIGMET via A623 or company; Clearances (PDC, DCL); TOBT; Slot; FANS and Oceanic Clearance (A350)
 - Flight Management System: automated Flight Plan uplinks into Avionics; Wind information
 - Meteorological data: sensor data to weather services (AMDAR)
- **AOC Green**
 - Free Text Flight Deck
 - Re- and Defueling and Carbondioxid emission trading information
 - Load sheet
 - Flight Crew information
 - Position Reporting acc. to mandated aircraft tracking requirements
 - Hatched area represents data volume for which concrete projects to offload in the near future are in place (other link, compression, ...)
- **Aircraft Health and Maintenance Blue**
 - Engine/Airframe Condition
 - Engine/Airframe Trend
 - Maintenance messages
 - Real-time Failure/Warnings