

Lennunduskaardid – kas keegi neid veel kasutab?



Aigar Tarre
Lennunduskaartide koostaja
Lennuliiklusteeninduse AS

VISUAL
APPROACH
CHART - ICAO

58°18'27"N
026°41'13"E

ELEV 220 FT
HEIGHTS RELATED
TO AD ELEV

INFORMATION 133.905
ATIS 123.130 / TEL: +372 730 9212

TARTU



LEGEND



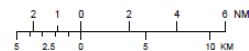
Holding

INSTR APCH area



Exercise and training zones

SCALE 1:370 000



ALT and ELEV in FT

OFF DATA

THR RWY 08 210 FT

THR RWY 26 193 FT

NOTE

*EER25 - The flight restrictions
do not extend to the take-off and
landing of an aircraft.

Topography © Estonian Land Board

18 APR 2024 (AIRAC AMDT 03/2024)

EANS

AD 2.EETU-VAC

AIP LATVIA

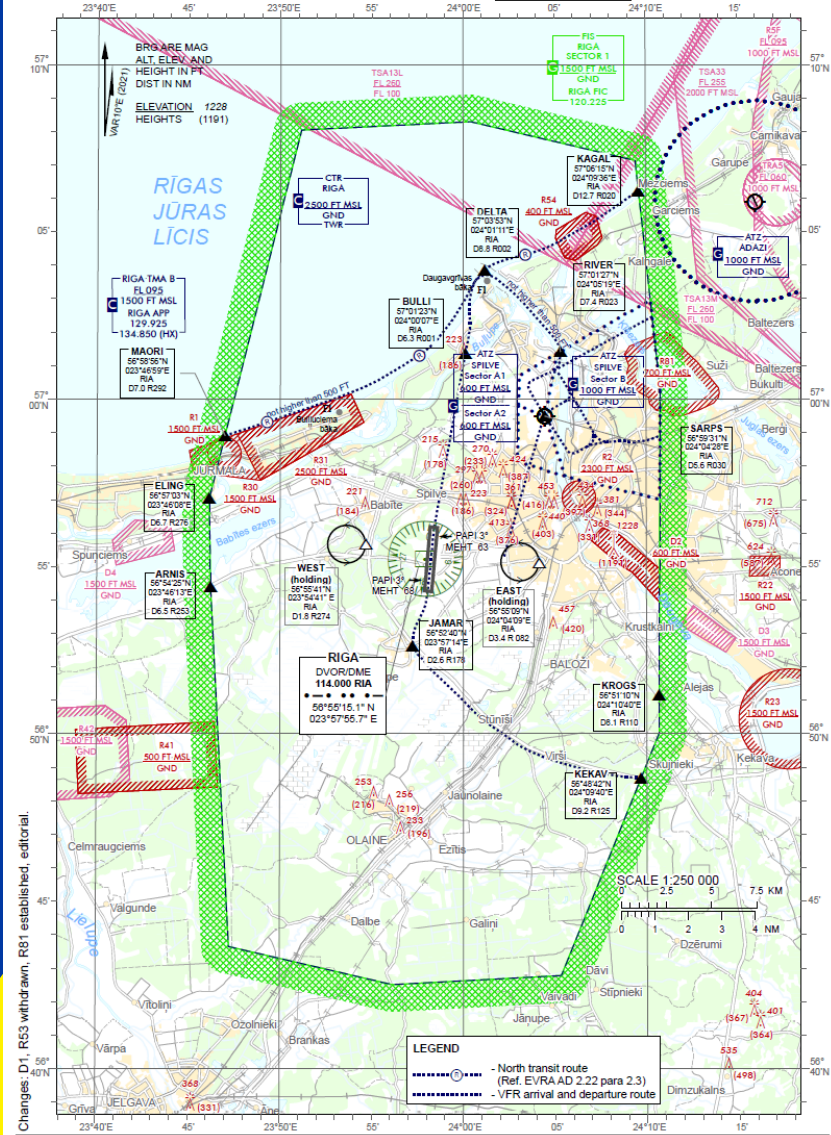
EVRA AD 2.24.14 - 1
10 JUL 2025

VISUAL
APPROACH
CHART - ICAO

AERODROME ELEV 37 FT
HEIGHTS RELATED TO
AD ELEV

APP 129.925
TWR 134.850(HX)
ATIS 118.105
FIC 120.225

RIGA



LEGEND

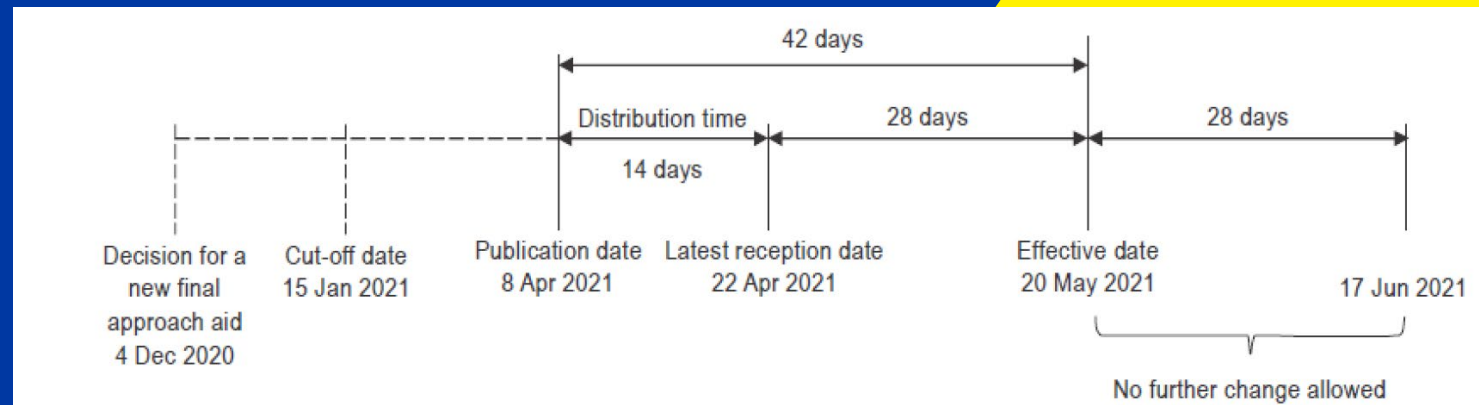
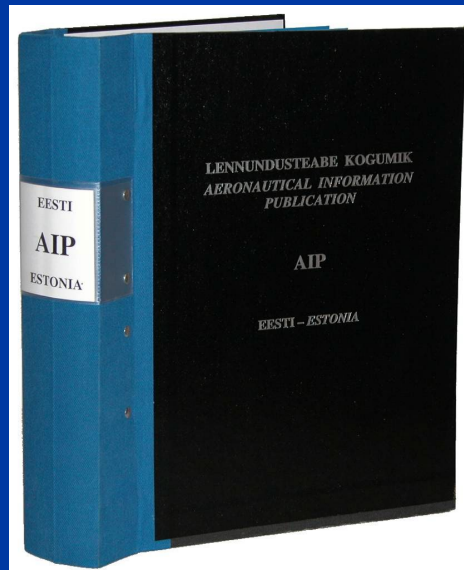
- North transit route
(Ref. EVRA AD 2.22 para 2.3)
- VFR arrival and departure route

Changes: D1, R53 withdrawn, R81 established, editorial.

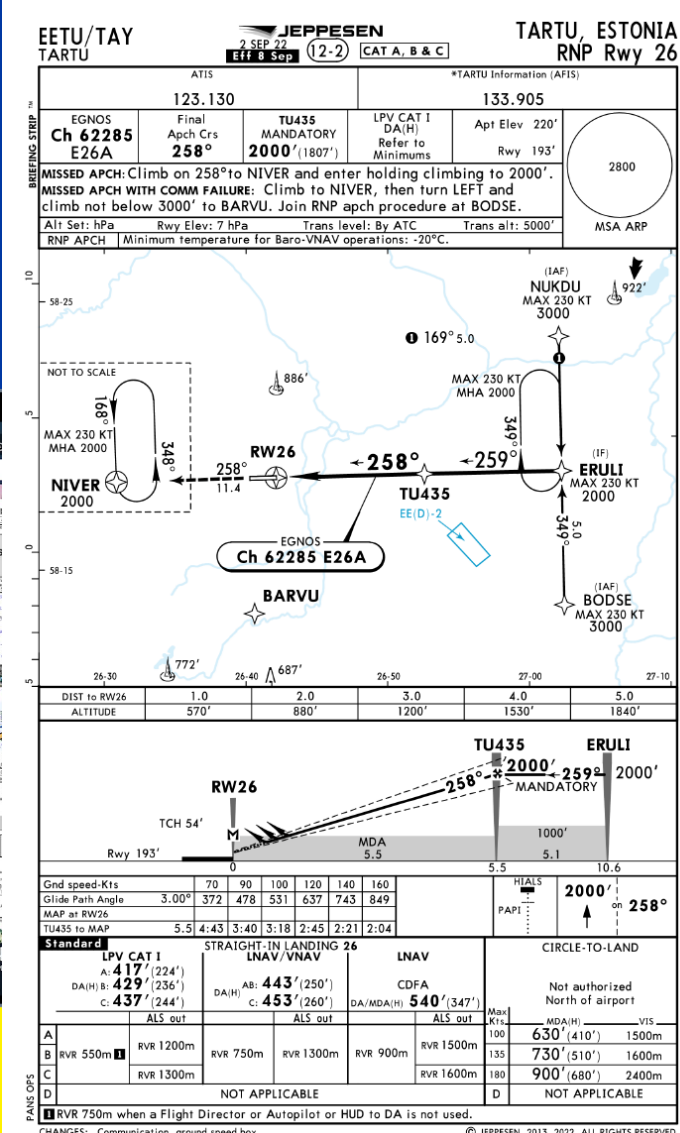
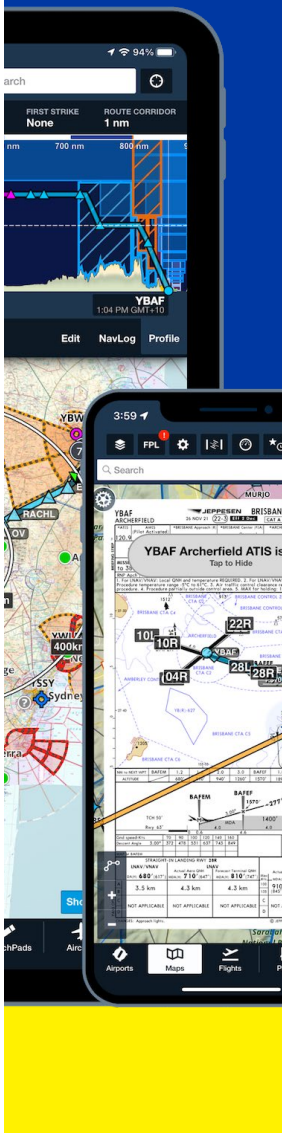
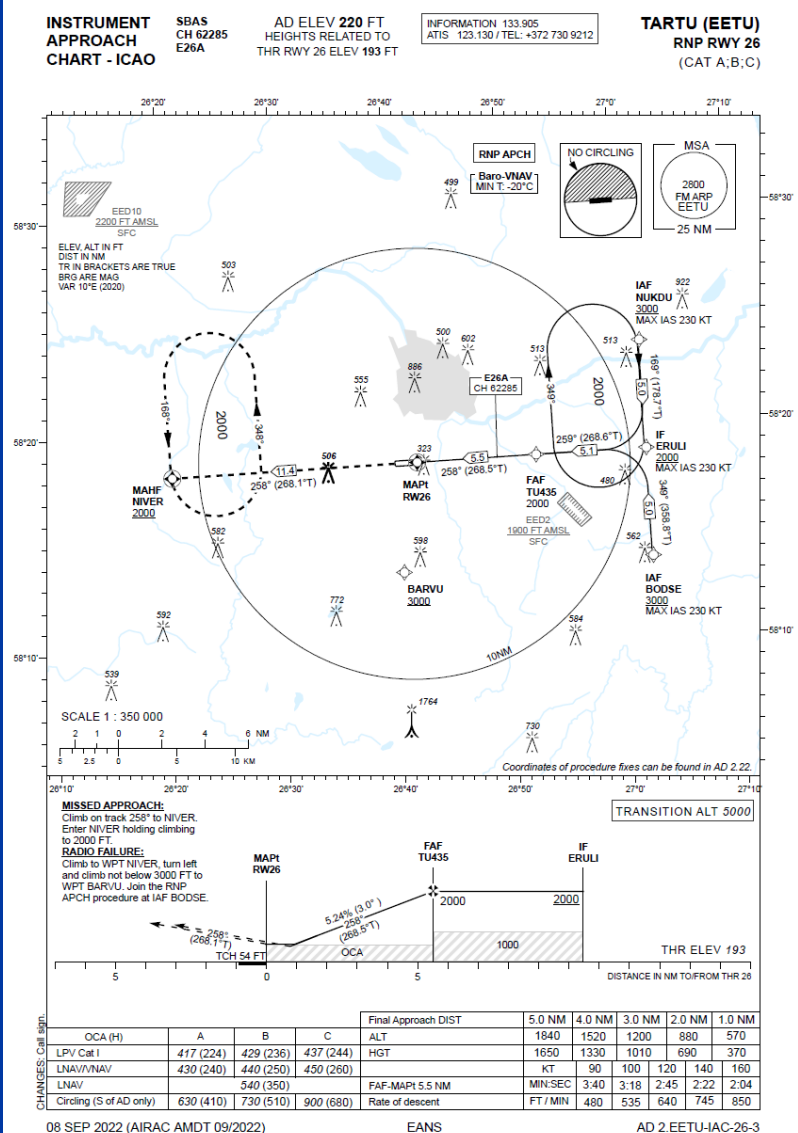
AIS Latvijas gaisa satiksmē

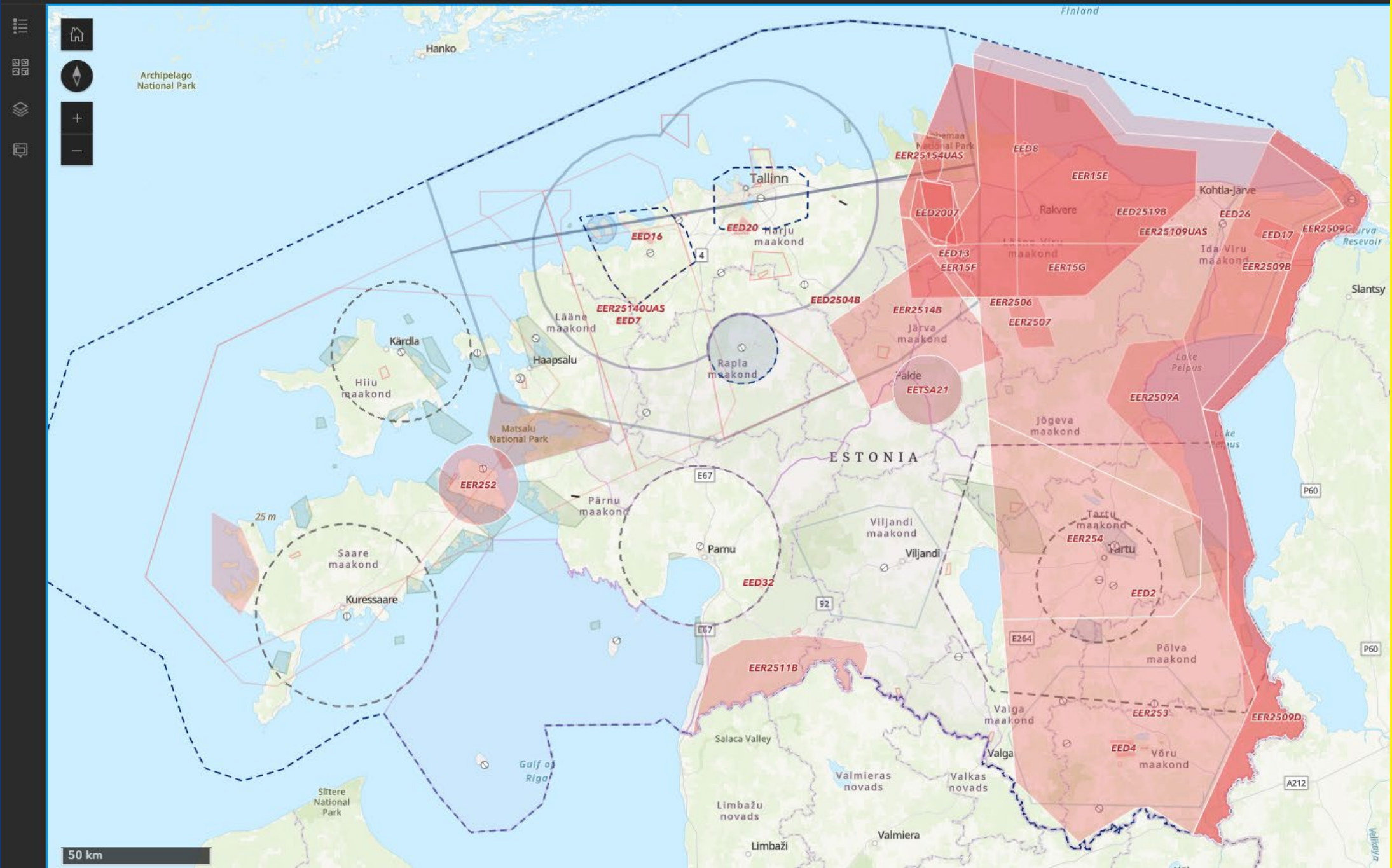
AIRAC AMDT 005/2025

Traditsiooniline lennunduskaartide avaldamine AIP-s (Lennundusteabe kogumik)



Lennunduskaardid andmeteenusena





CHANGING USER REQUIREMENTS

Today



AIP, Charts, NOTAMs, etc
human readable products

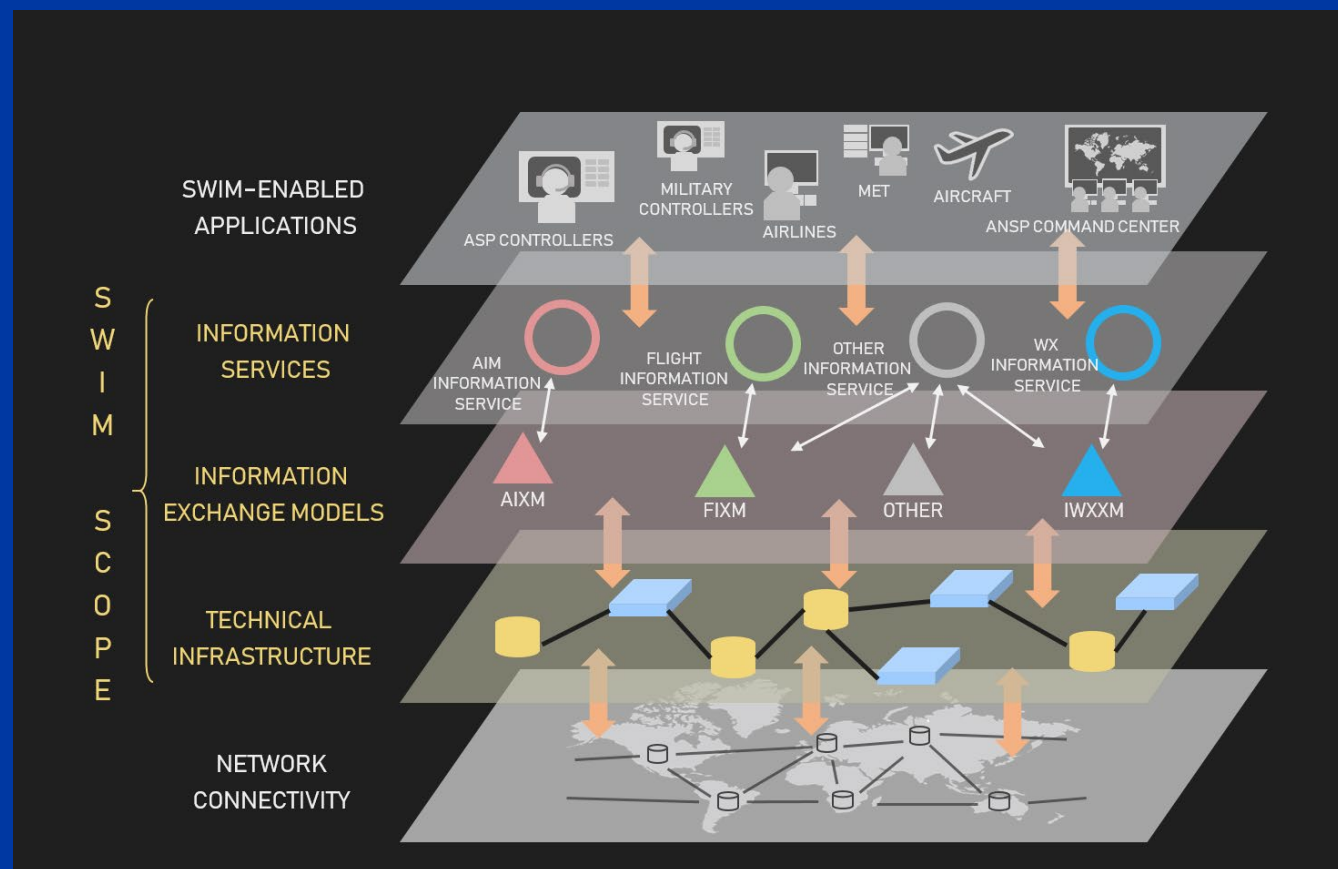
Tomorrow



Apps
*integrating machine readable
data / information*

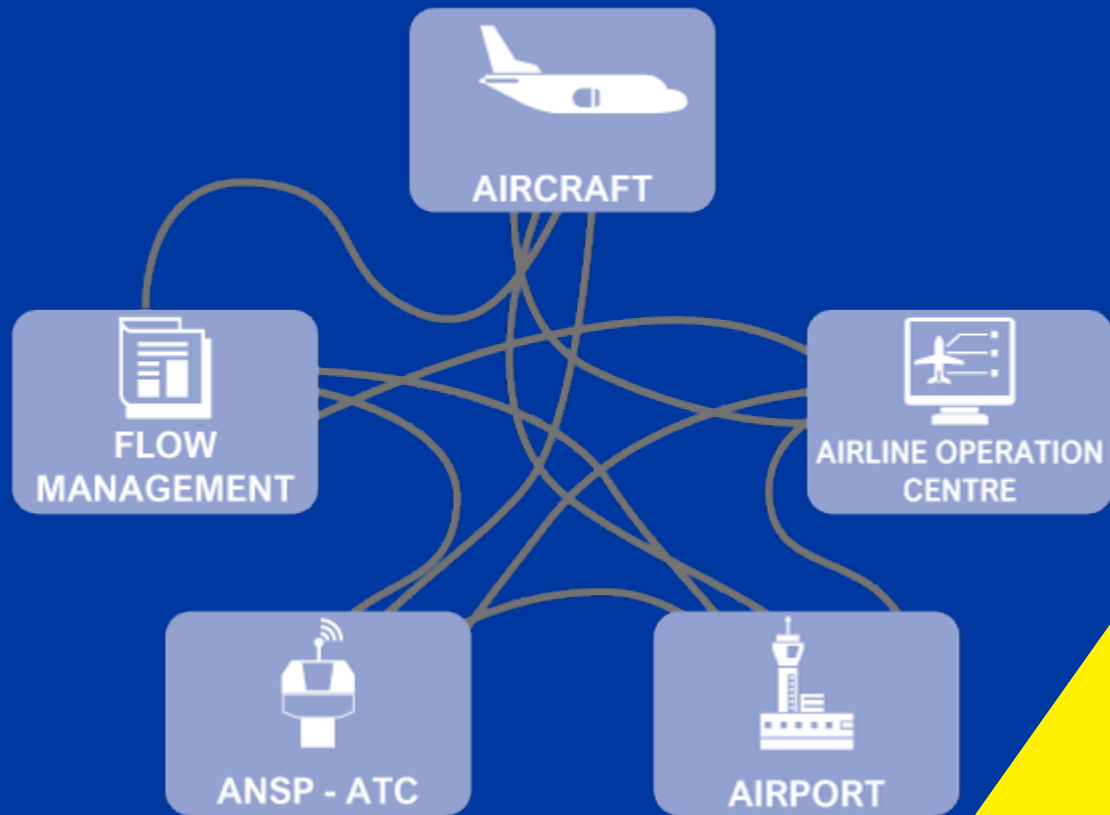
SWIM (**S**ystem **W**ide **I**nformation **M**anagement) ehk süsteemidevaheline teabehaldus

- Teabeteenused
 - Lennundusteave (AIM)
 - Meteoroloogiline teave (MET)
 - Lennuinfo (ATM)
 - Muud teenused
- Teabe mudelid
 - AIXM (AIM)
 - IWXXM (MET)
 - FIXM (ATM)
 - AIRM (üldine referents mudel)
- Tehniline Infrastruktuur
 - OGC WFS 2.0
 - AMQP 1.0
 - ...



SWIM põhineb teenustele orienteeritud arhitektuuril (Service Oriente Architecture – SOA)

FROM THIS...



TO THIS...



AERONAUTICAL DATA QUALITY



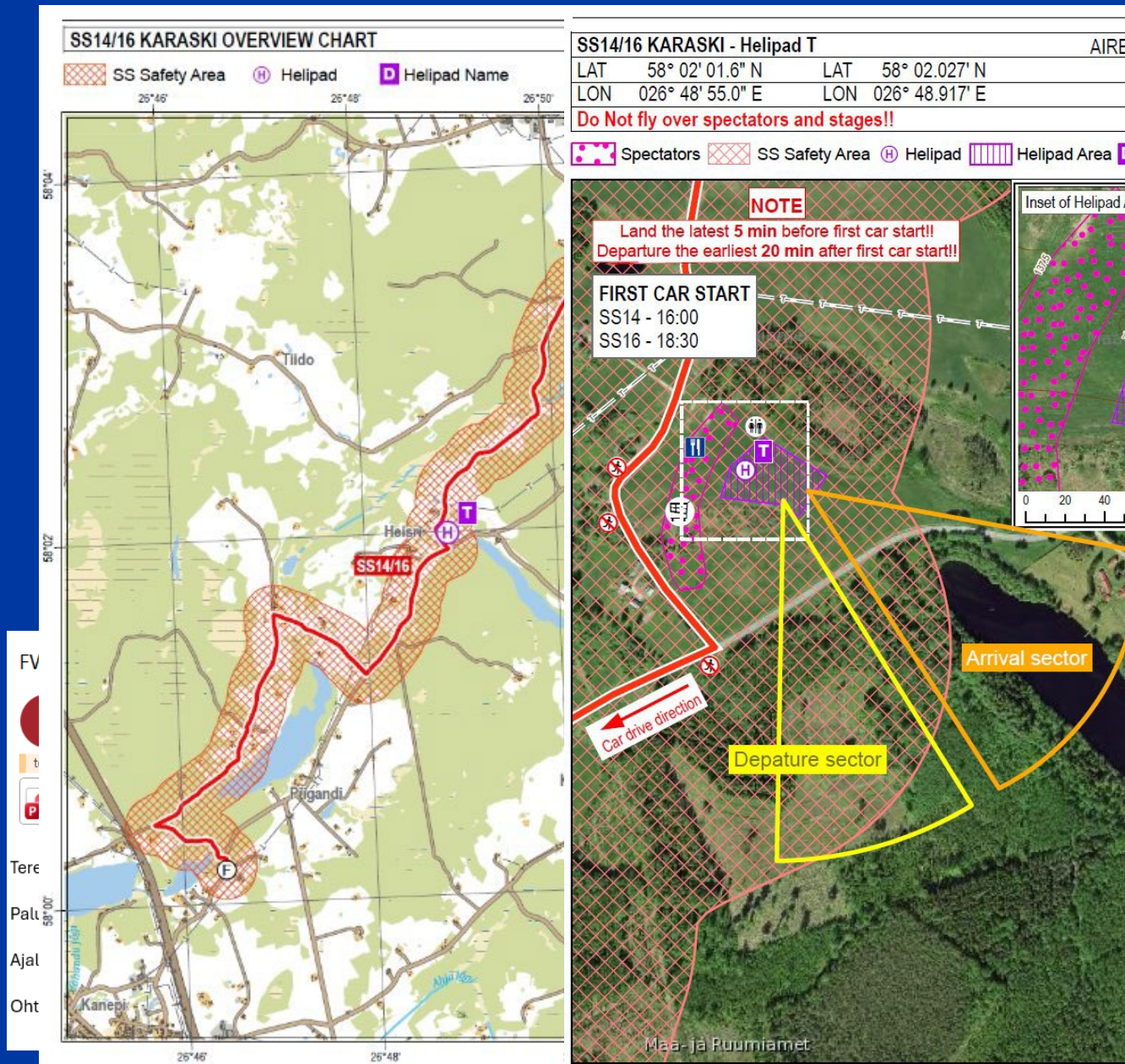
Corrupt or Erroneous
aeronautical
information/data
can potentially affect
the safety of Air
Navigation.

KATHMANDU INCIDENT₁



RUNWAY EXCURSION ACCIDENT OF
TURKISH AIRLINES TC-JOC, A330-303,
AT TIA, KATHMANDU, NEPAL ON 4th
MARCH 2015





WRC
FIA WORLD RALLY CHAMPIONSHIP

HELICOPTER GUIDE

Delfi

RALLY 13 ESTONIA
17-20 JULY 2025

visit estonia

A rally car is shown driving on a dirt road, kicking up dust. A helicopter is visible in the background, flying over the car. The scene is set in a rural area with trees and a cloudy sky.

WRC DELFI RALLY ESTONIA 2025

RALLYESTONIA.COM

visit estonia
visitestonia.com
#visitestonia

EA NS Estonian Air Navigation Services



Aitäh!

~~EA~~NS

