

Delivering Quality of Service

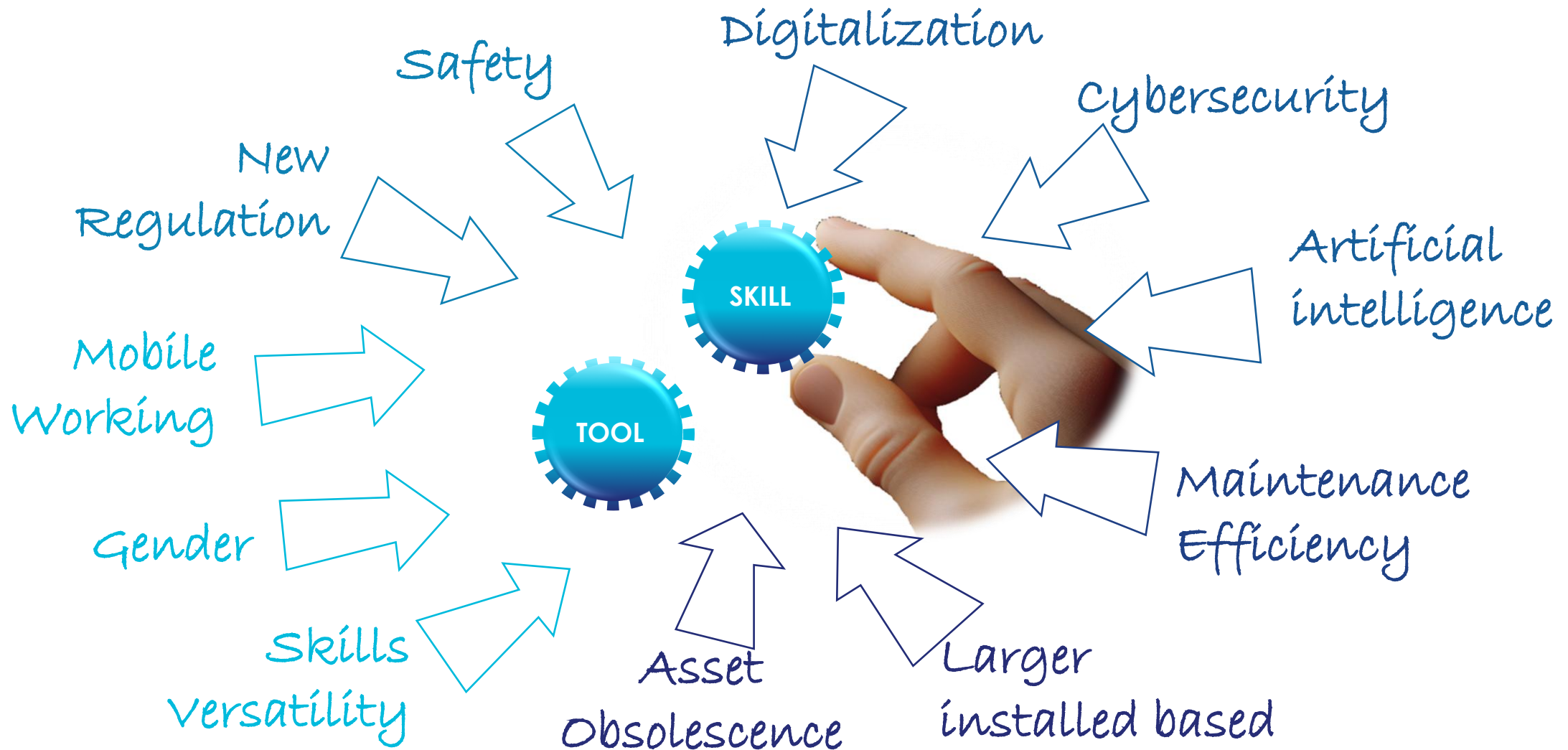
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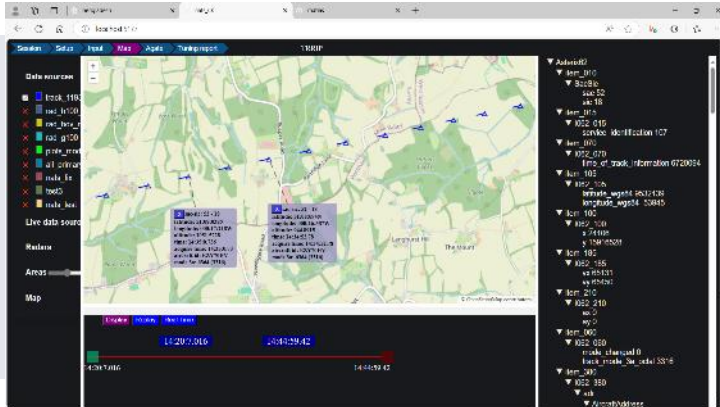
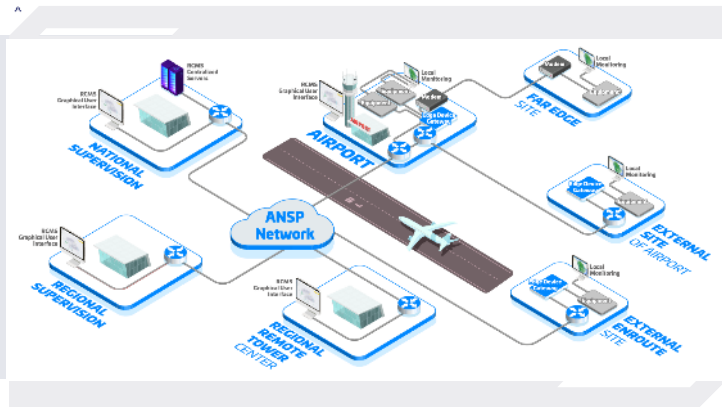


ATSEP landscape

Transforming maintenance skills / tools to adapt to new generation



Transforming maintenance skills / tools to adapt to new generation



Centralized Hypervision

Quickly alerting and smartly diagnosing any abnormal situation, with a very high level of precision

-  Real time visualization
-  Support harmonization
-  Improved procedures
-  Optimized maintenance

Tracker Recording Replay Interface for Performance

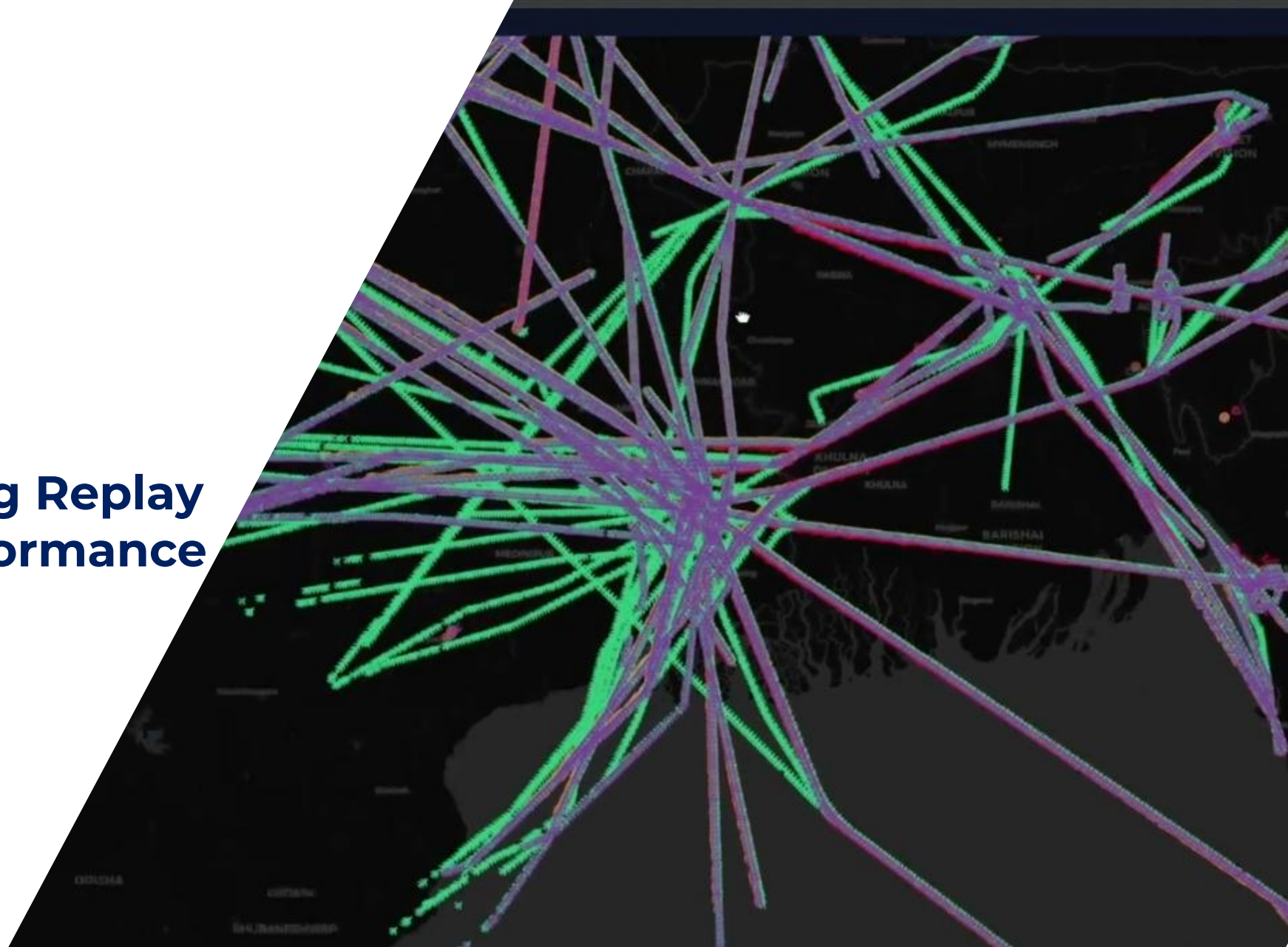
- ☐ Real-time QoS analysis
- ☐ Decision support for surveillance
- ☐ Sensor, radar, track data recording/replay
- ☐ Automatic report generation
- ☐ Trajectory reference visualization
- ☐ Multiple data source integration

Datalink Performance Monitoring Service

- ☐ Automated Monitoring and Reporting of Datalink QoS
- ☐ Troubleshooting and anomaly detection
- ☐ Automatic report generation
- ☐ Multiple data source integration
- ☐ Predictive trends
- ☐ EC Regulation 2029/29

Ensuring maintenance efficiency while delivering quality of services

Tracker Recording Replay Interface for Performance



Tracker Recording Replay and Reporting of Surveillance Quality of Service

TRRIP provides ATSEPs with a performance-driven view of surveillance systems by transforming raw tracking, sensors and radar data into actionable operational insights

Key message

TRRIP is an “all in one” digital tool allowing to analyze and detect sensor/tracking issues and monitor QoS in Real-Time via dashboard.

Acquire

Collect ADS-B, WAM, Radar and system track data.

Visualise

Provide visualization of raw data and mapping capabilities to enable in-depth analysis

Performance ESASSP

Evaluate tracking and sensor performance while generating ESASSP compliance results for system tracking

ESASSP = Eurocontrol Specification for ATM Surveillance System Performance

QoS monitoring

Offers QoS online monitoring through a near real-time dashboard, highlighting tracker quality degradation.

From surveillance data to operational analysis and quality of service monitoring

TRRIP helps ATSEPs transition from reactive troubleshooting to proactive, KPI-driven monitoring of surveillance system performance

Outcome

Transforming raw data into actionable insights in online or offline mode

Unified Geospatial View

Consolidate radar tracks, ADS-B feeds, WAM data, and system reports on one interactive map.

Contextual Root-Cause Analysis

Geospatial correlation of problematic tracks with the data sensors sources

Real-Time ESASSP KPIs & Compliance

Monitor performance against ESASSP thresholds
No manual calculations required

Automated QoS Reports & Dashboards

Customizable dashboards for ATSEPs, managers, and auditors

PAGODA

Automated Monitoring and Reporting of Quality of Datalink Services

-CS-SOFT

7

Total Flights

9

VDL Message Counts

CPDLC

173 Other

14 VDL2

25



Active Alerts

- Active Session PA Rate Above Target (> 1 PA/100h)
Firing for 7d 10h 57m 21s
> 1 Instance
- ANSP Availability Critical (< 99.95%)
Firing for 7d 10h 57m 21s
> 1 Instance
- ANSP Availability Degraded (< 99.98%)
Firing for 7d 10h 57m 21s
> 1 Instance
- CSR Success Rate Degraded (< 95%)
Firing for 7d 10h 57m 21s
> 1 Instance

Automated Monitoring and Reporting of Datalink Quality of Service

PAGODA gives ATSEPs a service-oriented view of datalink performance by transforming raw communication, radio and flight data into actionable operational insight.

Key message

PAGODA turns fragmented datalink feeds into an ATSEP decision-support service focused on quality of service.

Acquire

Secure on-premises collection of BIS router, VDL2/SDR, track or ADS-B, and optional OLDI data.

Correlate

Flight, provider, message and position data are aligned by timestamp and aircraft identity for coherent analysis.

Visualise

Dashboards, maps, filtering and KPI views provide near real-time monitoring, replay-style investigation and reporting.

Act

ATSEPs can detect degradation faster, localise anomalies and support quality-of-service improvement with evidence.

From datalink data to operational insight and service assurance

PAGODA helps ATSEPs move from reactive troubleshooting to proactive, KPI-driven monitoring of datalink service performance.

Outcome

better visibility, faster investigation, stronger compliance support and more efficient datalink service assurance.

Operational visibility

Correlates CPDLC, VDL2 and aircraft position data to show where, when and with whom communication quality degrades.

Faster troubleshooting

Powerful filtering by ICAO address, callsign, frequency, CSP, time range and geography speeds up root-cause analysis.

Performance & compliance

Dashboards for continuity, availability, abort rates and exportable evidence support reporting and regulatory follow-up.

ATSEP efficiency

Reduces manual consolidation, enables alarms and trend review, and supports data-driven maintenance decisions.

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