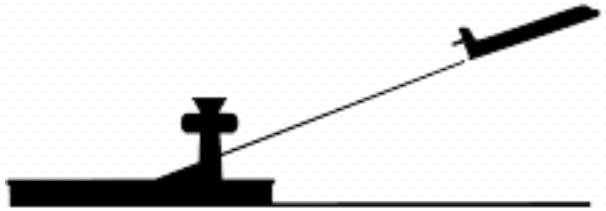

SOLAKONFERANSEN 2019:

Intelligent Connectivity:
Communication & Being Online During Flight

SKYTRAC
GREATER VISION
BETTER DECISIONS

What does **intelligent connectivity** mean to you?

We believe intelligent connectivity can enhance the safety and efficiency of aviation operations.

NETFLIX

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BETTER DECISIONS

Agenda

- Introduction
- Air-to-Ground
- Ground-to-Air
- The Future

Ruben Stepin

Manager, Advanced Systems Group

Senior Expert on:

- Electronic Flight Bags
- ICAO GADSS
- Real-time Intelligent Connectivity

APPROACH:

Creating Customer Value Through Intelligent Connectivity

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1 AIR TO GROUND

Real-time Monitoring &
Real-time Communications

2 GROUND TO AIR

Real-time Automation &
Real-time Situational Awareness

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How many man-hours are required to manually offload Flight Data for one aircraft each year?

A

Five (5)

B

Ten (10)

C

Twenty-five (25)

D

Fifty+ (50+)

Air to Ground

Real-time Monitoring &
Real-time Communications

How many of you currently conduct:

1. Real-time Tracking

2. Real-time SATCOM Communications

3. Real-time EFBs

4. Real-time Monitoring

Real-time Monitoring

- Real-time HUMS, FDM, Engines, Aircraft Tracking
- Increase safety oversight & operational efficiencies

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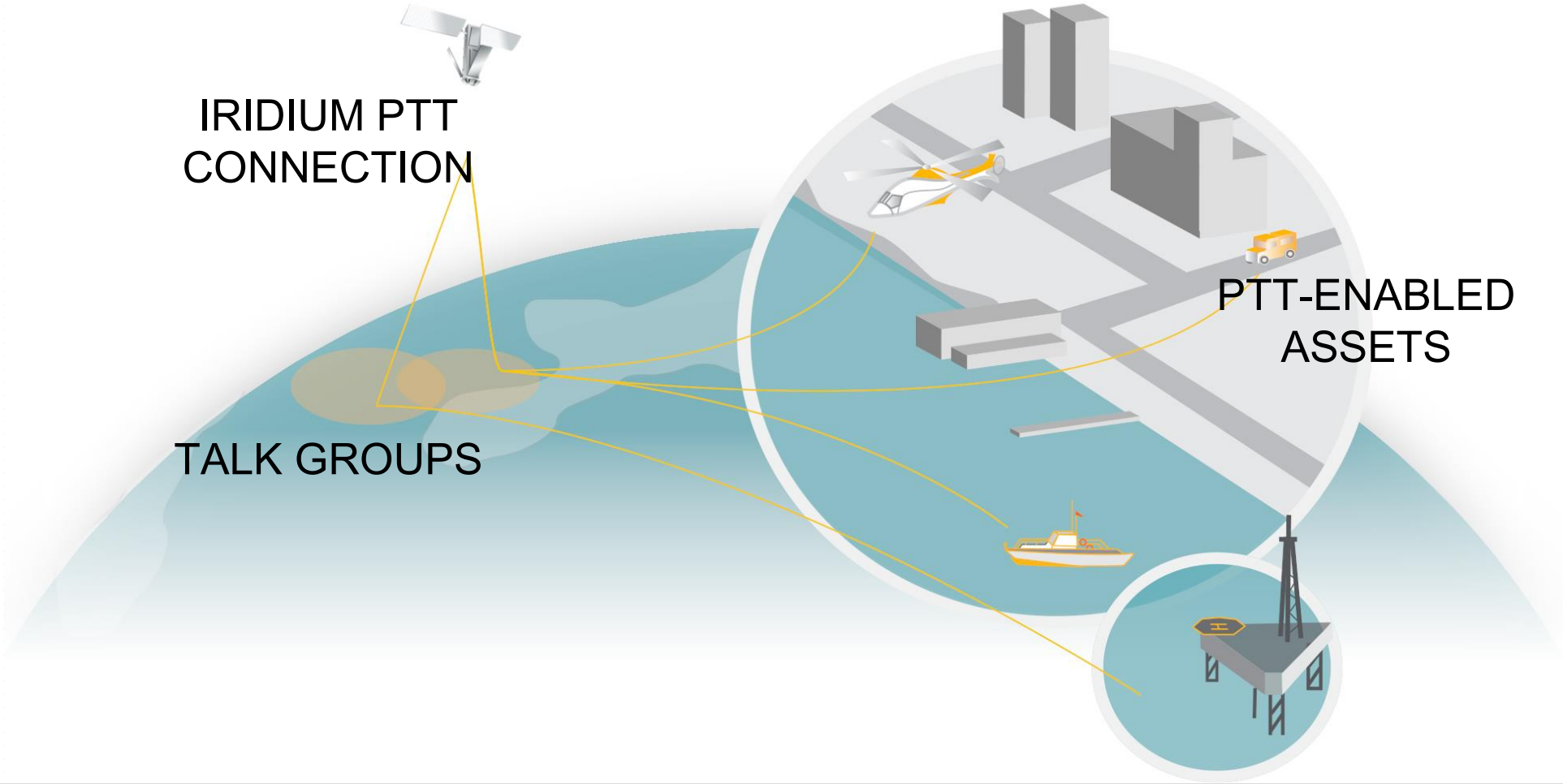
Real-time Communications

- SATCOM
- Push-to-Talk



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Ground to Air

Real-time Automation &
Real-time Situational Awareness

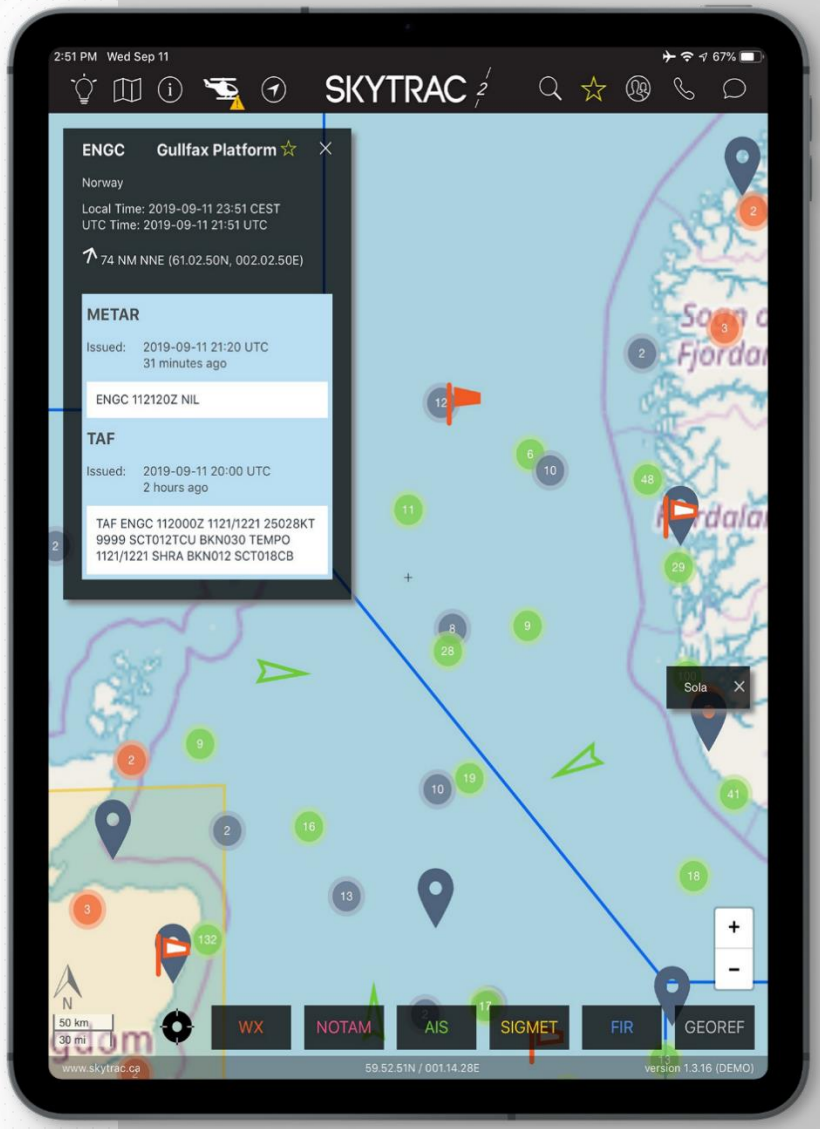
Real-time Automation

Current technology allows for:

- PAX Manifests
- Fuel Uplift Forms
- Risk Assessment Forms
- Journey Logs & Flight Reports
- TechLogs
- Charting Map Updates

Real-time Situational Awareness

- Weather
- Sea State
- ADS-B, Marine-, Drone-AIS
- Oil Rig & Wind Farm
- 4D Trajectory Operations



IoT: Traveling at the Speed of Knowledge

Increased Bandwidth and
Connected devices

Increasing Bandwidth

- The age of connectivity will bring more data
- Advanced, real-time analytics
- Revolutionary applications

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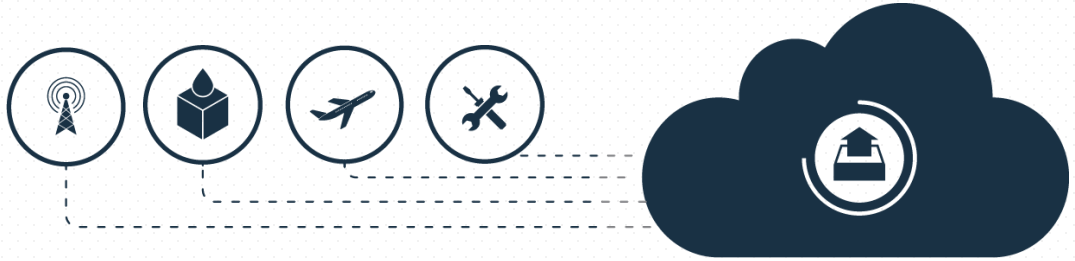
Connecting Multiple Devices

- Real-time connections of avionics, EFBs, maintenance, OCC, and more
- Improve safety and passenger experience

Future Connected Maintenance

- Real-time Communication
- 3D Printing
- Aircraft Supply
- Installation



Future Connected Passenger

- Passenger “First” Principle
- Real-time Communication Flow
- Social Media Feedback
- Operator Differentiator

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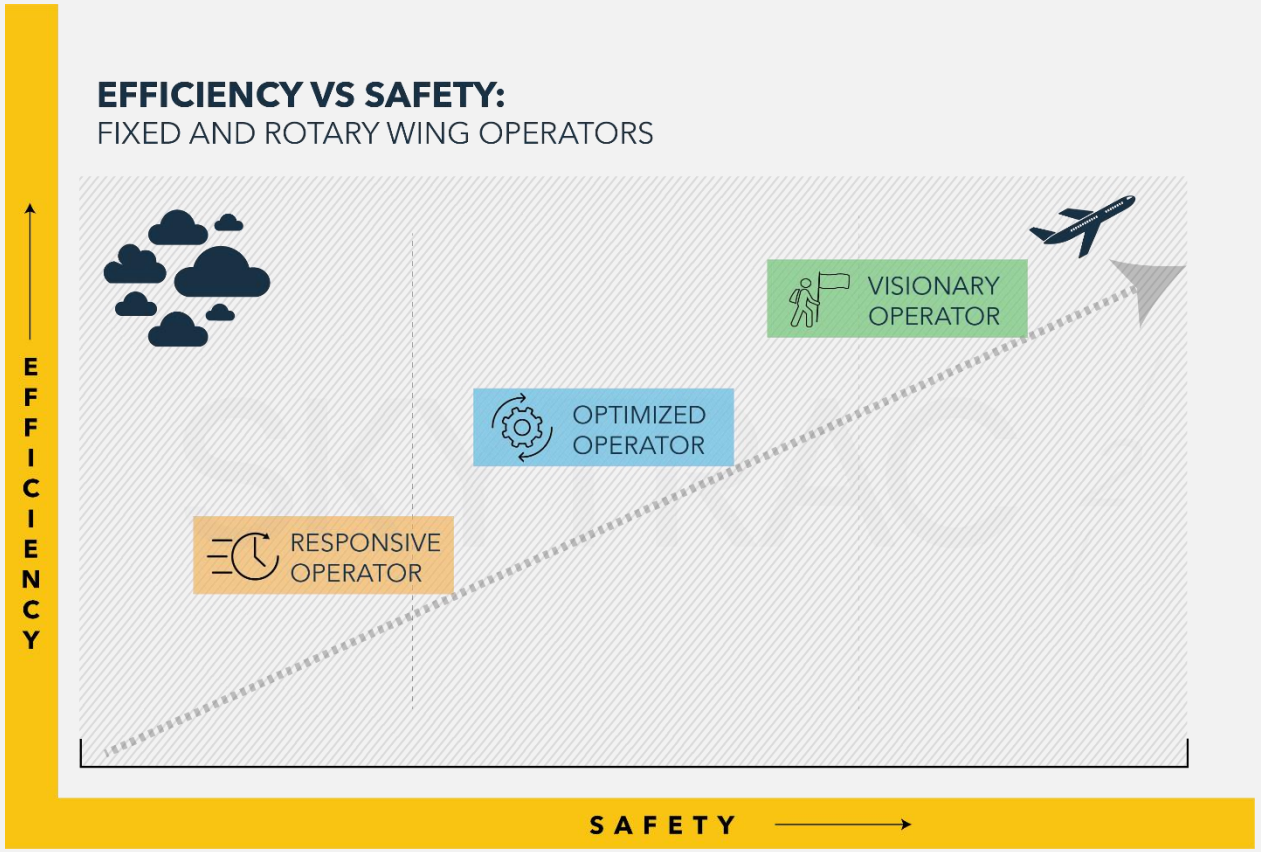
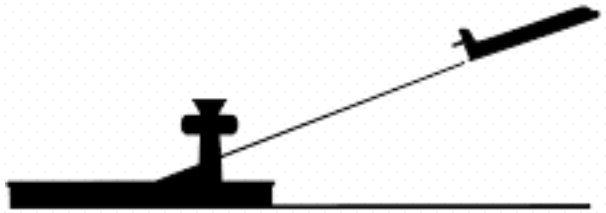
Enabling Growth

- Iridium speeds have increased 625-fold to 1.5 Mbps
- GigSky provides over 25+ Mbps data transfer rates





THANK YOU!

Ruben Stepin
Manager, Advanced Systems Group,
SKYTRAC
rstepin@skytrac.ca

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