# AVIATION INNOVATIONS

## Ground Handling ecosystem

September 2020

THE iNNOVATION JOURNEY

# GH Ecosystem : Key initiatives leading to better readiness to face adversity and deal with market disruption

## IT- Legacy Applications

Maintaining legacy application **is very costly and counter-productive.**
The migration to SaaS and cloud applications must be accelerated to transition to a sustainable IT Ecosystem

## Innovation and Business Transformation

Innovation is more important than ever , there is no coming back to normal. **A new world getting built** for post-covid19 pandemic operation. Empower your teams to embrace a changing environment and accelerate innovation

## Value Proposition

GHers EBIDTA suffers from a vicious circle of continuous pricing reduction imposed by the market dynamic: GHers has to review their value proposition and pricing strategy and reshape their offer

## IT- Coexisting redundant solutions

The complexity of aviation sometimes made GHers use systems with more than **80% overlapping** functionalities.
Building a sustainable IT ecosystem architecture is essential to avoid duplicated solutions and a high maintenance cost

## Rethinking the future

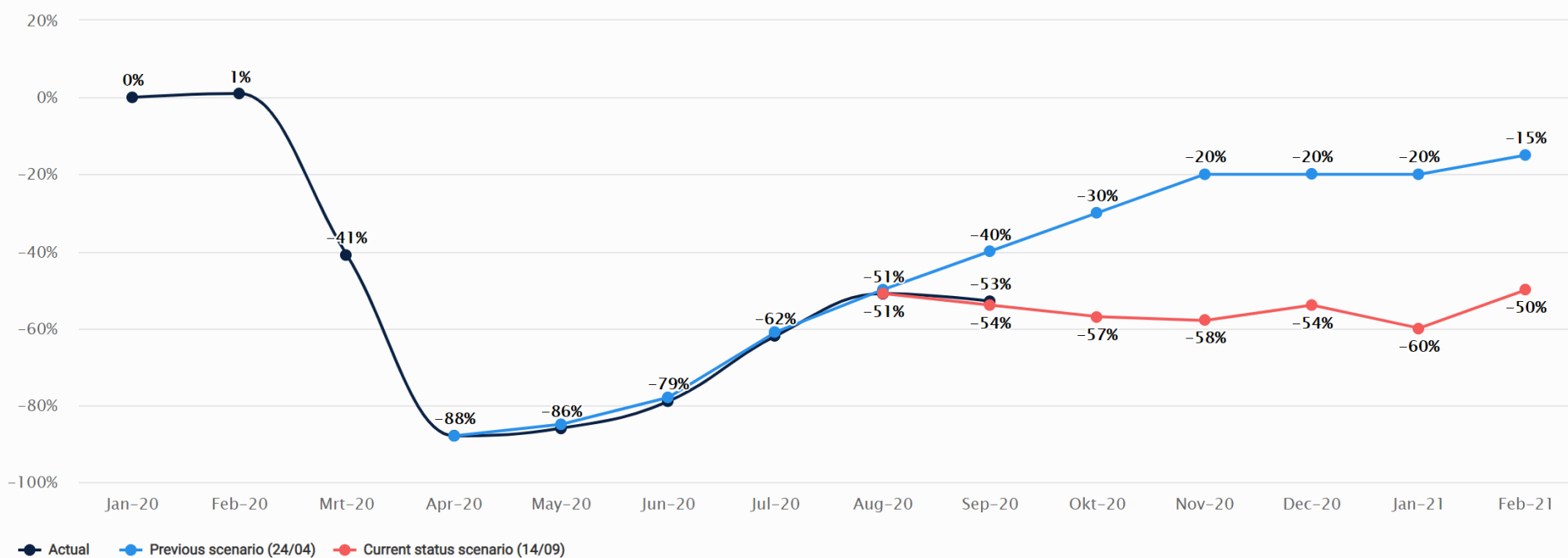Ground handlers must invest in building an innovation culture.
COVID 19 pandemic showed **the fragility of the GH sector** and imposed the necessity to rethink the business model and introduce an innovation mindset to guaranty a quick adaptation to changes

# Aviation Traffic registered In April 2020 represents

# 12 %

## Of 2019 traffic

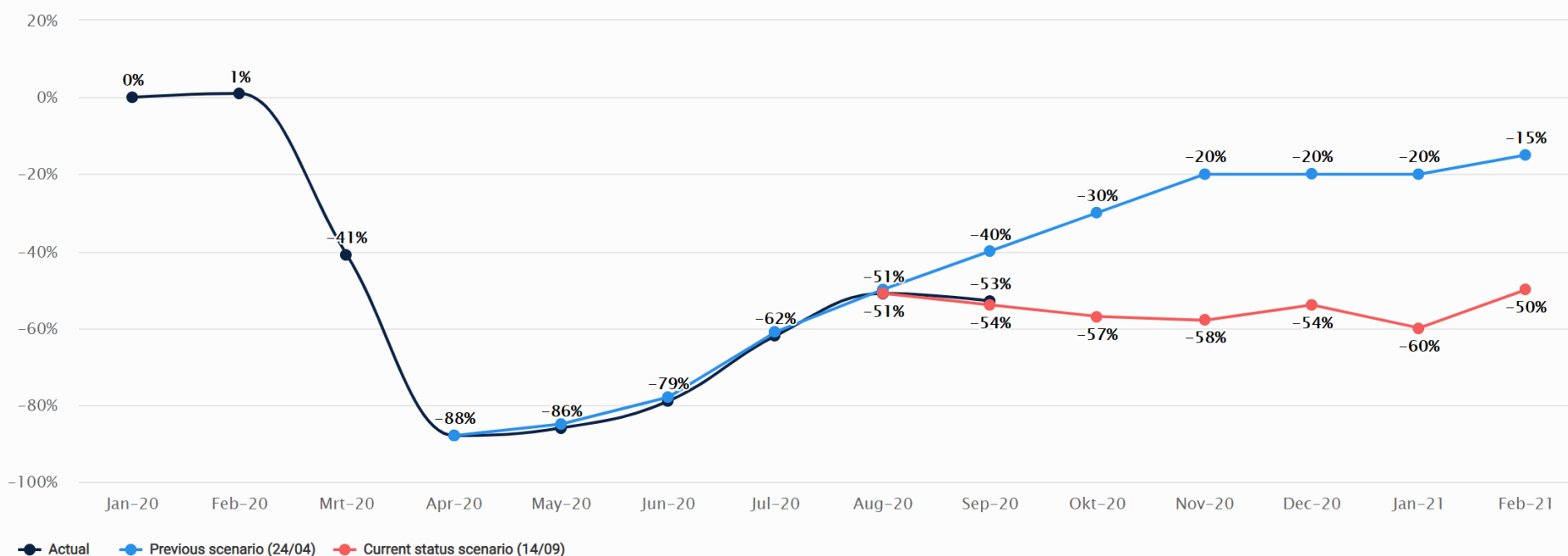EUROCONTROL Draft Traffic Scenarios - 14 September 2020 (base year 2019/2020)



Legend: Actual · Previous scenario (24/04) · Current status scenario (14/09)

# Aviation Industry lost
# $84 billion in 2020

# Flights expected in Europe is anticipated to be

# 55 %

# lower than in 2019

**EUROCONTROL Draft Traffic Scenarios - 14 September 2020 (base year 2019/2020)**



Legend:
- **Actual**
- **Previous scenario (24/04)**
- **Current status scenario (14/09)**

Data points (Actual, dark): Jan-20: 0%, Feb-20: 1%, Mrt-20: −41%, Apr-20: −88%, May-20: −86%, Jun-20: −79%, Jul-20: −62%, Aug-20: −51%, Sep-20: −53%

Data points (Previous scenario, blue): Apr-20, May-20, Jun-20, Jul-20: −62%, Aug-20: −51%, Sep-20: −40%, Okt-20: −30%, Nov-20: −20%, Dec-20: −20%, Jan-21: −20%, Feb-21: −15%

Data points (Current status scenario, red): Aug-20: −51%, Sep-20: −54%, Okt-20: −57%, Nov-20: −58%, Dec-20: −54%, Jan-21: −60%, Feb-21: −50%

# 6 million fewer flights in Europe during 2020 vs 2019

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# Key innovations in the Aviation Sector



## Autonomous shuttle

### Company: Navya

ADP has launched a trial of two fully electric driverless shuttles operating in Charles de Gaulle Airport's with the aim to test how autonomous vehicles behave on a high-traffic roadway.

## Uber like service in Ramp for employees shuttle

### Company: Oxbotica

Gatwick airport announced that it is launching a trial of electric-powered autonomous vehicles to shuttle its employees between various locations on the airfield using a technology similar to UBER .





## Baggage Handling with autonomous vehicle technology

### Company: Vanderlande

Rotterdam Airport (RTHA) and Vanderlande commenced a joint innovation project to improve the baggage handling process at the airport by implementing FLEET – a baggage handling system (BHS) based on autonomous vehicle technology

# Key innovations in the Aviation Sector



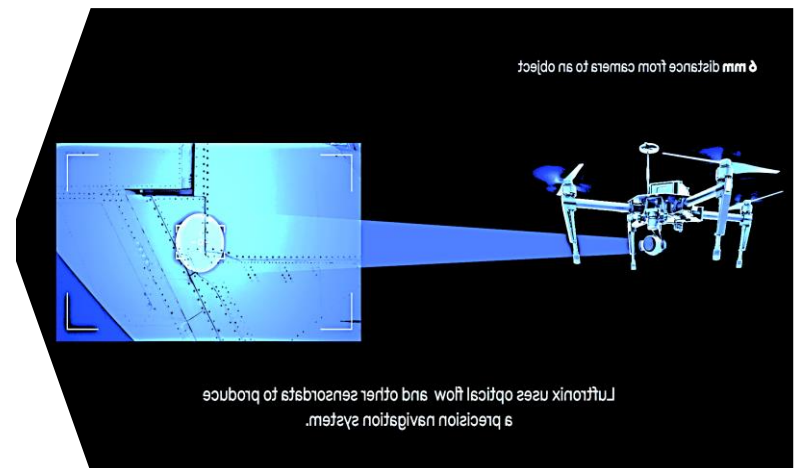## Drones for warehouse inventory management

Dnata Dubai recently tested a new application of drone technology for inventory management in its facilities at Dubai World Central Airport (DWC). Remote-controlled drones were guided to fly up and scan the barcodes of cargo on shelves in dnata's warehouses using a conventional barcode scanner attached to the drone.

## Drone-powered inspections

**Company: Luftronix**

**Luftronix** delivers precision scanning solutions for commercial aircraft - both in the hangar and outdoors.

Drones can be launched in an autonomous mode and are equips with 3D Camera , gyroscope ,data collections cameras





## Apron Management AI

**Company: ASSAIA**

APRON AI is an Artificial Intelligence solution that watches turnarounds in real time to understand what is happening and offers predictive analysis to better manage operations.

The solution uses cameras installed in aerobridges

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