Passenger Flow and Queue Monitoring System

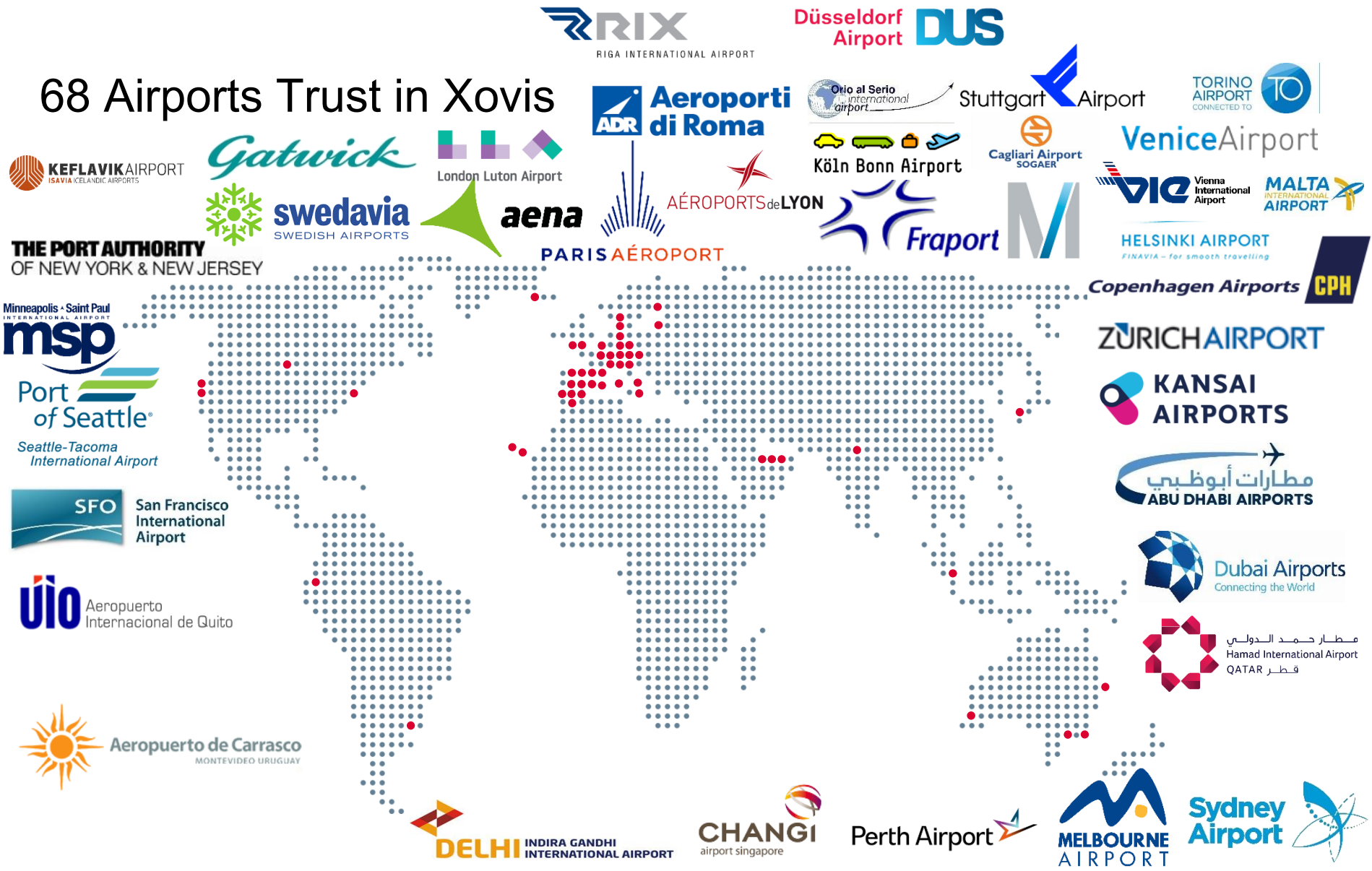
Xovis Company Profile

- Founded in 2008, currently 85+ employees
- Reliable partner: steady growth and financially stable
- Products are engineered, designed, and made by Xovis
- Offices in Berne (Switzerland's capital) and Boston, MA

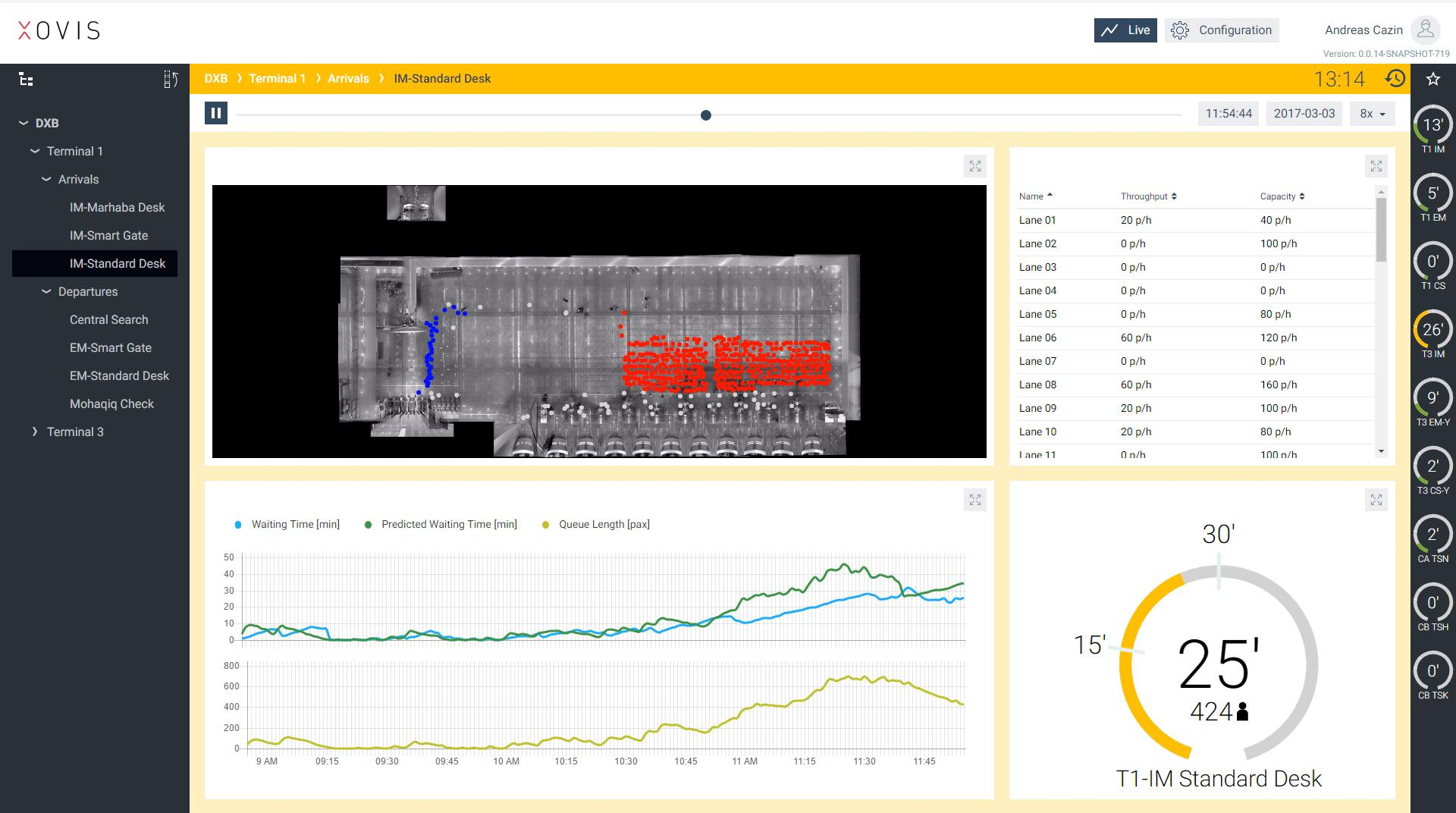
SWISS MADE

> 85,000 sensors sold

68 Airports Trust in Xovis



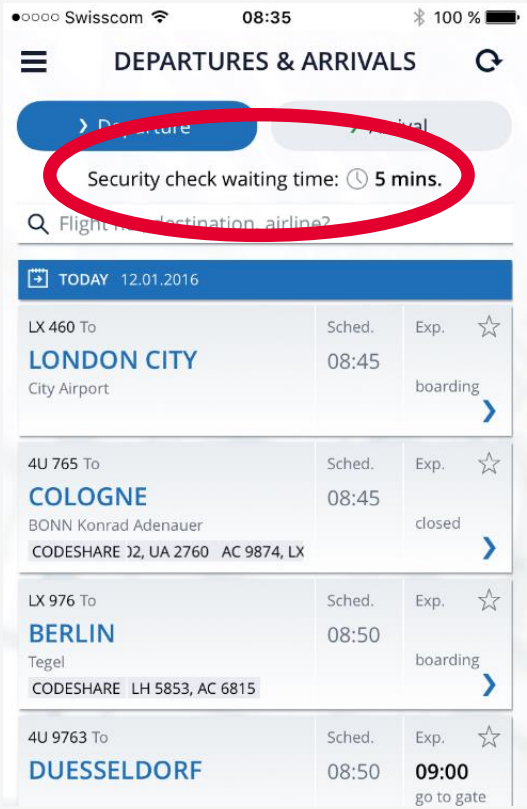
Improve Daily Operations: Live Dashboard



Enhance Passenger Satisfaction: Expected Waiting Times

DFW

ZÜRICH AIRPORT

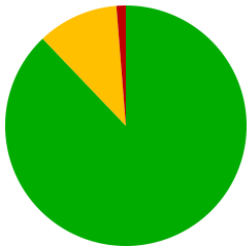


Make Strategic Decisions: Reports for Management

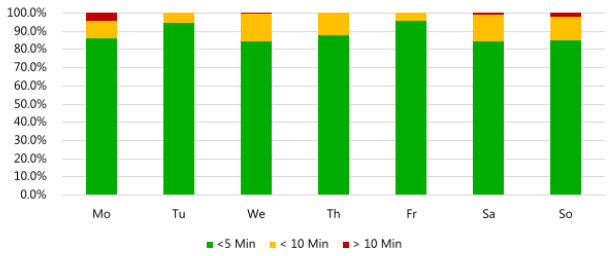
Date 07/04/2014 XOVIS Week 15

Weekly Waiting Times Statistics

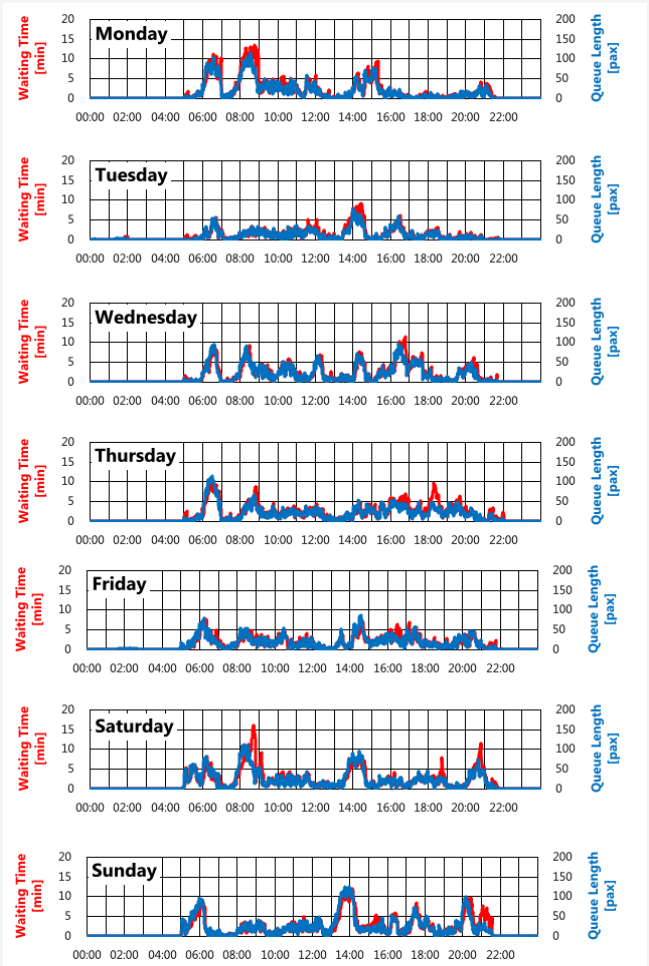
Waiting Time	Target	Actual	PAX
< 5 Min	85%	88%	52223
< 10 Min	95%	99%	58672
Total			59416



Daily Waiting Times Statistics

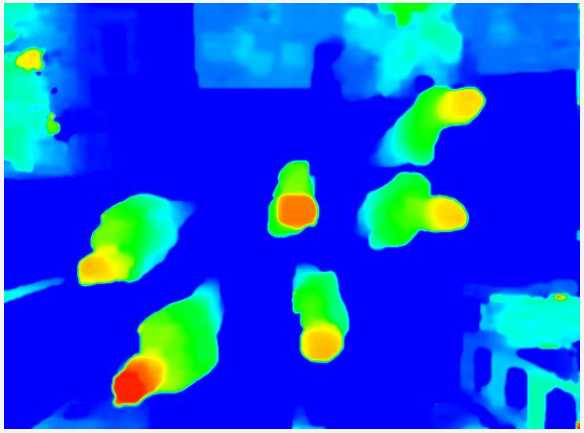


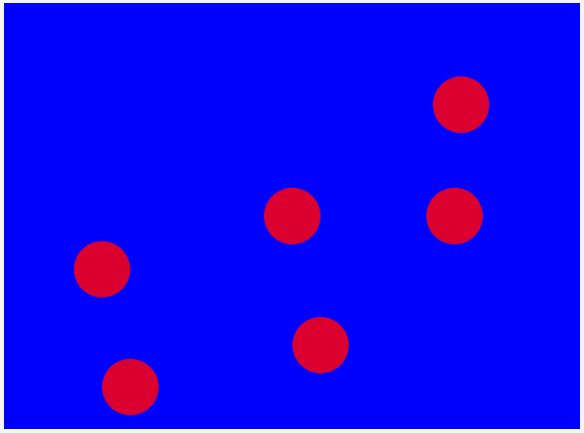
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
< 5 Min	86%	94%	84%	88%	95%	84%	85%
< 10 Min	95%	100%	99%	100%	100%	99%	98%
PAX	8007	7294	8240	8130	9089	9185	9471
Max. Waiting Time	14	9	12	10	8	16	12
Max. Queue Length	115	79	97	114	86	112	124



Working Principle

Working Principle

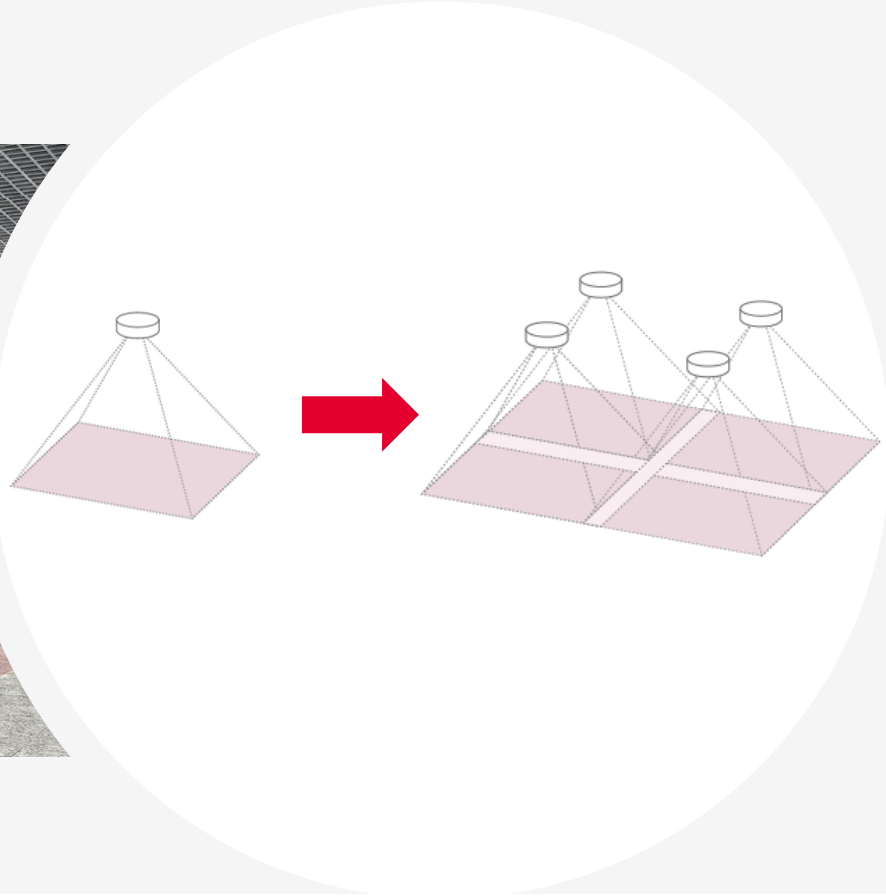




- Purpose built for people flow monitoring
- Hardware and software is fully integrated
- Highly accurate and reliable data

Xovis Multisensor Technology

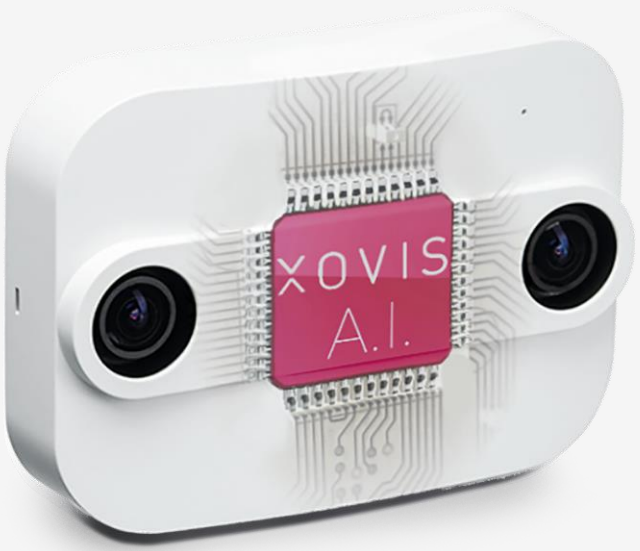
- Multisensor array for the seamless coverage of large areas
- Mounting heights up to 100 ft with area coverage of up to 1,100 ft^2 per sensor



Artificial Intelligence (AI) – Foundation for the Future

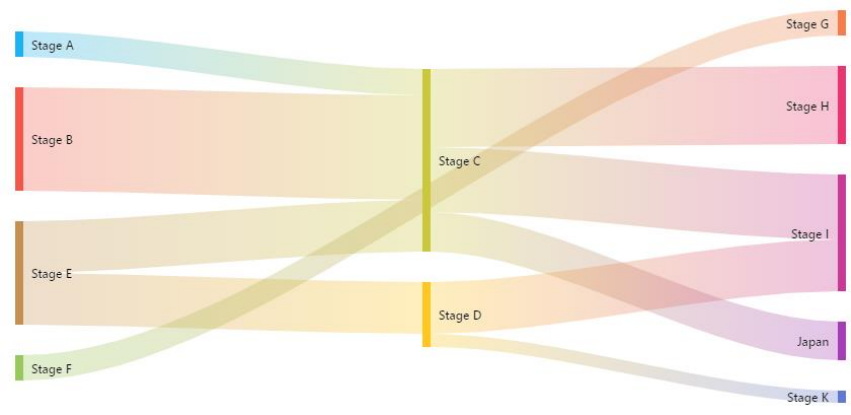
Enhancing Sensor Firmware with Artificial Intelligence Capabilities

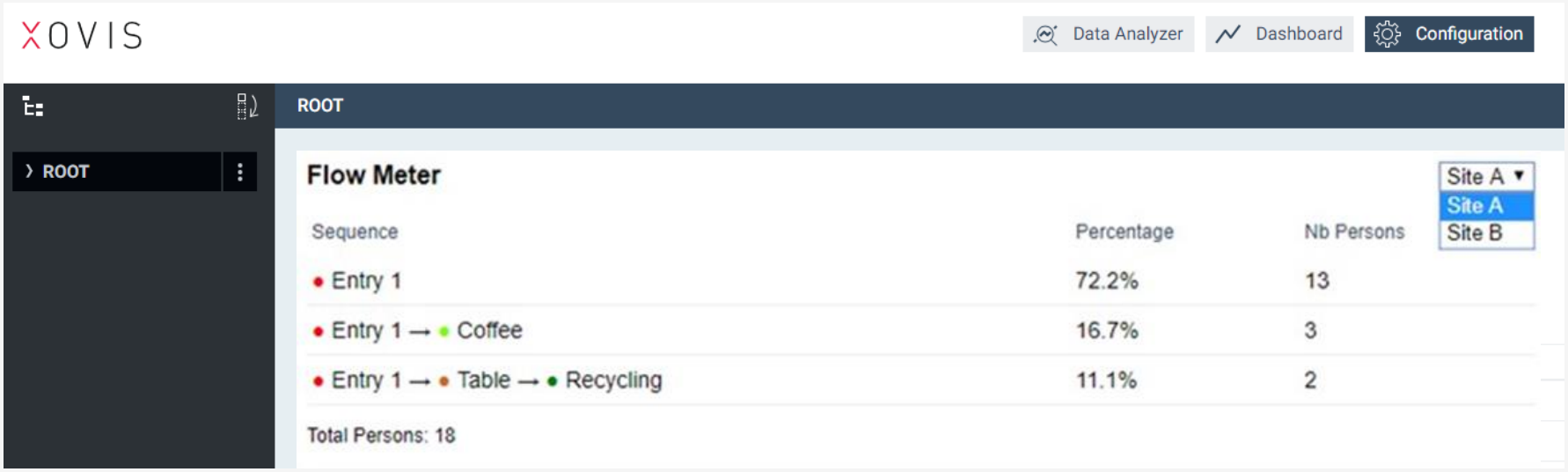
- On-sensor Deep-Net
- Used to improve detection and tracking quality
- Available since Q2/2018



Product Roadmap – PAX Flow App

- Measurement of path distribution:
  How many passenger took which path?
- Currently being integrated
  to Xovis' software
- Available in Q3/19

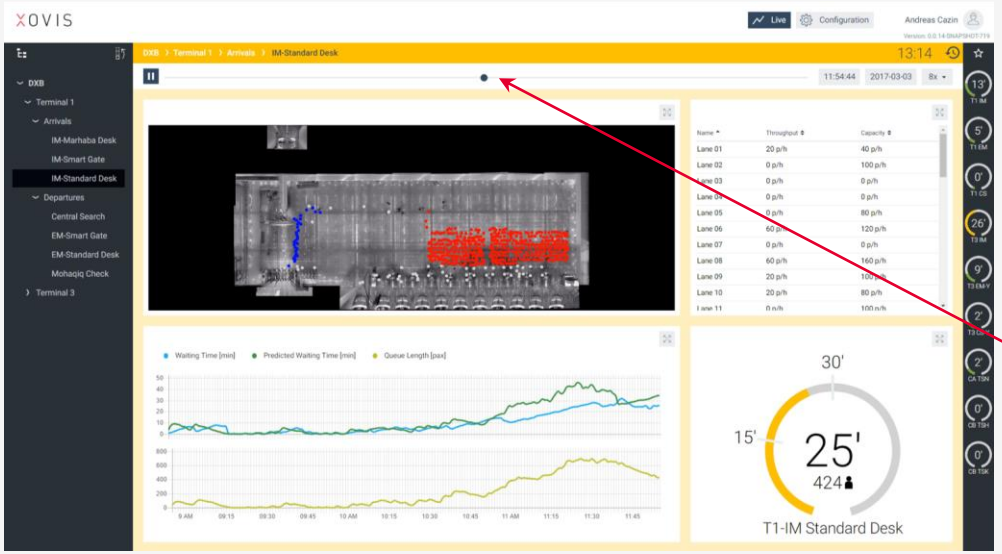




Product Roadmap – Forecasting or „Xonar“

Forecasting

- 30-minute forecasting is already available:
  - Forecasting pax inflow and queue length in 5 min intervals
  - Advise on how many lanes to have opened to achieve SLA goals
  - "What-if" mode to change the number of used lanes
- 24-hour forecast with same functionality and more



- Prototype ready, field tests in summer 2019

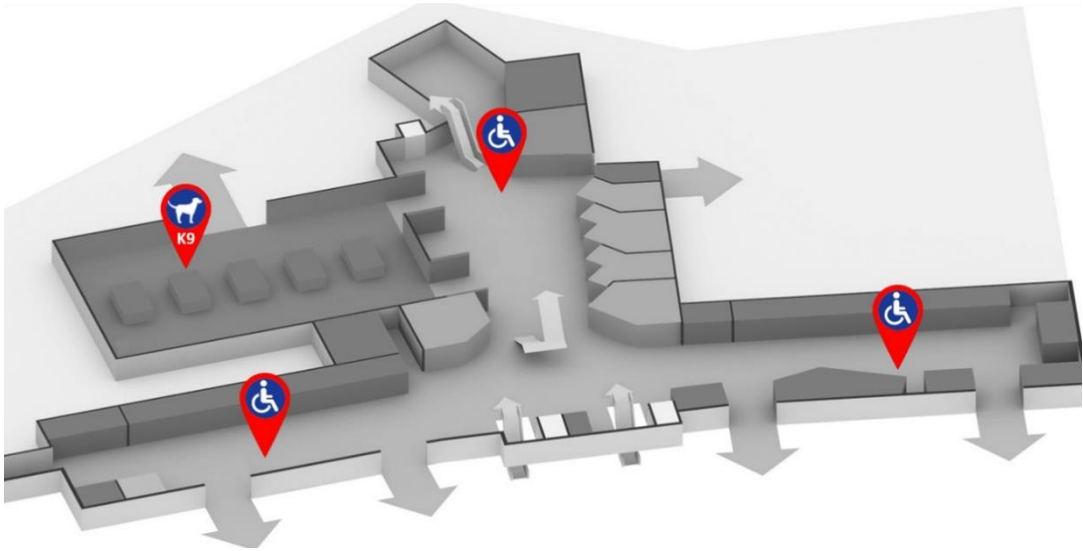
Slider will allow to “travel to the future”

Product Roadmap – LC-Series

Radio Frequency Localization (RFL)

- Real time location system
- Radio-frequency based system, consisting of «Beacons» and «Localizers» (base stations)
- Tracking and distribution analysis assets (wheel chairs, electric carts, staff, K9 dog, etc.)
- Accuracy less than 1ft
- Launched at PTE 2019 in March, available by end of 2019

LC-Series wearable beacon



Xovis Technology Helps Airports Become Better

Improve Daily Operations

Enhance Passenger Satisfaction

Make Strategic Decisions

Reliable and Highly Accurate Data

Cutting Edge Technology

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