Live Airport

Travelling can be a stressful experience. From getting to the airport, queueing, possible delays from malfunctions with the plane itself. A lot of waiting is involved. A stressed traveller is a dissatisfied traveller. So, how to improve the experience? What can airports do to get rid of delays and improve the whole stay at an airport and in the end benefiting from this happy traveler?

Experience a live airport scenario covering different scenarios of the traveller interaction points influencing the traveller directly and indirectly. With sensors long waiting lines are detected and directly send a suggestion to the airport management to send security staff to the security check or opening a new security area. The system not only detects the long lines; it immediately calculates and suggests the number of staff the airport will need to send. All this data can be viewed and tracked on a digital dashboard. You can also see who is coming to the airport with ridesharing software SAP TwoGo or also learn from Concur data that travelers use to plan, book and expense their trips. All the data can be stored and analyzed from the SAP Cloud Platform visualized on a digital dashboard.

After successfully mastering the security check the traveler will be searching their way to their gate. When walking there, they will be passing by a lot of shops. Shops that offer various and diverse items from food and beverage to designer clothes. Key for the shops will be to motivate their travelers to offer them the things they want – basically like all retailers are challenged with. Therefore, they need to know their travelers and offer a personalized experience. They can use the information of flights and other data to come up with profiles and customize their advertisement real-time to offer certain products to different audiences. Shops can then also measure the increase of sales based on advertisement positioned at certain areas within the airport.

At the gate it is all about meeting the actual departure time. Airlines are trying to find new ways of boarding a plane intelligently. There are interesting concepts of grouping people by seat location – window first, aisle seat last, rather than boarding by rows as many airlines are doing. As a side note, I don`t know if there is an optimum way as we are still humans entering the plane that try to secure a spot for their luggage in the overhead bin. I did both and still I cannot see which way is faster.

At the airport the plane needs to be loaded with luggage, catering, and deal with technical checks before they can clear the plane for departure. In these processes, many vehicles are involved, getting people and items to the plane. Like with other machines, these vehicles might have problems like a broken engine or low battery that needs to be fixed before an incident happens that leads to downtimes. With IoT SAP Leonardo software Vehicle Insights, Assets Intelligence Network and Predictive Maintenance you can see where the vehicles are, how long they have been running and if there is any issue with engine or battery. This way you can immediately react to failures or plan the exchange of certain vehicles to prevent downtime.

On top, the user has the option to use augmented reality with a tablet to see what the current performance data looks like. These functionalities are an exciting glimpse on what the very near future of airports could look like.

Blockhouse:
Blockhouse is a new physical model that walks you through how physical assets (houses) can be stored on a simple blockchain. The demo provides you an opportunity to show how SAP is embracing Blockchain technologies and how these technologies can be leveraged to offer innovative solutions to emerging business trends.

Chatbot
Recast.AI provides a development environment – software, technology and applications – that uses natural language, for example, chatbots. Recast.AI's technology matches the requirements of conversational chatbots and allows high-performance natural language processing that supports more than 20 languages.

Fashion Recognition:
A whole new way to shop! This SAP cloud platform application scans shoppers and makes intelligent advertising recommendations based on what they are wearing and their emotions, uing the Leonardo image recognition & machine learning services

Predictive Engineering Insights

SAP Predictive Engineering Insights powered by SAP Leonardo is a solution to monitor and analyze in real-time the behavior of structures and mechanical systems under the influence of complex and dynamic loads. This information can be used in applications built for a wide range of purposes ad be applied across industry segments and asset types, be it a wind turbine, an industrial robot, a crane or a building. It is used for monitoring, inspection and operational planning by providing a high-fidelity cloud based virtual model connected to edge-based sensor packages.