

**CASE STUDY** 

## Transforming the TSA experience

Myrtle Beach International Airport is one of the busiest airports in South Carolina, with more than 2 million passengers served each year. The C Myrtle Beach, a city which accomodates mor

#### The Challenge

Myrtle Beach International Airport struggled with long lines for TSA screening during its busiest times of the year.

Travelers had grown frustrated with the wide variations in the length of wait times at the TSA screening checkpoint. Wait tim in the facility were wildly inconsistent due to a lack of staffing a TSA screening lanes for the amount of passengers in the facili especially during the summer.

Management in the facility tracked wait times by hand to gath data on the increased wait times, but sought a more compre sive solution using technology.



vrtle Beach

### **67%**

More than two-thirds of travelers say they would travel via airplane more often if the airport and pre-flight experience was significantly improved.

(Mobile Travel Technologies, 2015)

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#### **Our Solution**

Myrtle Beach International Airport approached Archetype SC about a solution to track TSA wait times for its their travelers. After discussing the challenges in tracking in the space and budgetary constraints, Archetype SC worked to develop and deploy A2 Analytics, a solution that would be affordable, accurate, and durable.

The technology combined sensors, machine learning algorithms, software, and

reporting capabilities into one package to deliver deep insights. The device is housed in a heavy plastic case, which is locked to prevent tampering, to track thousands of data points per second within inches of the signal source.

Through passive tracking of the data from mobile phones and hundreds of other electronics devices, A2 Analytics tracked the precise movement of nearly every individual passenger.

"From the time I first me with Archetype SC I was impressed. The team's expertise allowed them to develop and roll out A2 Analytics ahead of

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After deploying *H* Myrtle Beach Int during one of th

Airport staff user resulted in an in al screening mac and the allocatic

Going further wi Airport now has website, giving v TSA PreCheck ar

> 1.2 MILLION

Number of enplanemer at Myrtle Bea Internation Airport in 20



Location-based insig





# Bolstering baggage vendor services

Myrtle Beach International Airport serve Strand" — a tourism hub the sees more number of travelers arriving at its termi





At peak inefectiveness, visit experiencing baggage claim of 15-60 minutes for larger

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#### **Our Solution**

Having already seen positive effects of A2 Analytics on the customer experience in its TSA screening area — where our technology led to added infrastructure and staffing — Myrtle Beach International Airport once again relied on Archetype SC to provide a solution.

This time, our staff deployed A2 Analytics technology in the baggage claim area to track the movements of arriving passengers using passive data from electronic devices including mobile phones, fitness trackers, Bluetooth headphones and smart watches. Here, our robust system of reinforced, secure sensors monitored thousands of data points, while our patented software and machine-learning algorithms turned this data into knowledge.

In the end, Archetype SC's team of data experts was able to deliver in-depth reporting and analysis of how long passengers spent standing around waiting for their bags.

#### The Results

Following a review of wait time data gathered were not meeting the terms of their contracts service vendors were replaced, as they did not

Management also met with corporate represe for the companies to improve their efforts at the

With a better knowledge of the facility's baggage is now able to provide accurate analytics on ve and balances for holding vendors to their cont well time throughout the baggage area.



Location-based



IT REPRESE

information

Toilets

🖬 💼 Shops & Cafés



# Reinventing Retail with Big Data

Whether in an airport, at a mall or in a share many of the same issues. They whave limited information about what cu

#### The Challenge

Traditionally, without a reliable way to track cust in and around a retail space, it's been difficult fo know when to bolster staffing, where to allocate how to attract more business.

But recently, more and more retailers are embra location-based analytics as a way to transform the experience and create "click history" in the real v

By studying where a customer spent the longest in a store, a retailer can deploy a staff member t a conversion with the customer.

\$16.3

The location analytic expected to grow f in 2016 to \$16.3 bil

ocation-base





#### **Our Solution**

Archetype SC's approach to solving the retail problem is to provide our clients with as much data as possible about their customers.

By placing our inexpensive, yet robust system of sensors throughout a retail location, we can passive track devices such as phones, smart watches Bluetooth-connected tech. This safe and non-invasive tracking can pick up thousands of data points from each customer, providing a rich cache of data to be analyzed by our patented combination of software and machine-learning algorithms.

Using A2 Analytics, we can monitor the movement of individuals within a given space, showing where people are and how long it took them to get from Point A to Point B.

Our technology can also provide retailers with information including location heat mapping which can tell you what items are popular, what routes customers take inside a store and how long it takes them to find what they need.

You can also check on customer conversion rates with insight on where customers are coming from, how many individuals walked by the storefront without stopping and how many of those who enter end up converting to a sale.

> ailers can optimize a in a variety of ways.

made and compare it ore, as well as deliverncrease customer

can get in-depth duration to learn more hance the shopper's t customer loyalty.

82%

Percentage of smartphone users that use their phone to influence a purchase decision while in a store.



#### Tracking Advertising Effectiveness

In additon to tracking customers, A2 can also be used for tracking your adevrtising's effect on potential customers. With full heat mapping of a facility, retailers can find optimum placement for advertising to reach the most customers.

A2 Analytics dashboards allow for real-time analysis of a facility, showing if more customers enter beside a movie theater or food court, giving store owners information about where to place staff and marketing materials, how long customers spend in a given section of a facility and how many visitors view specific ads.

Location-based insights without limitations