

*APC 2017 Fall Seminar*

# The Internet of Things, the Next Frontier in Drone Technology





# Basics of Drones



FLIGHT  
PLANNING



DATA  
CAPTURE



DATA  
PROCESSING



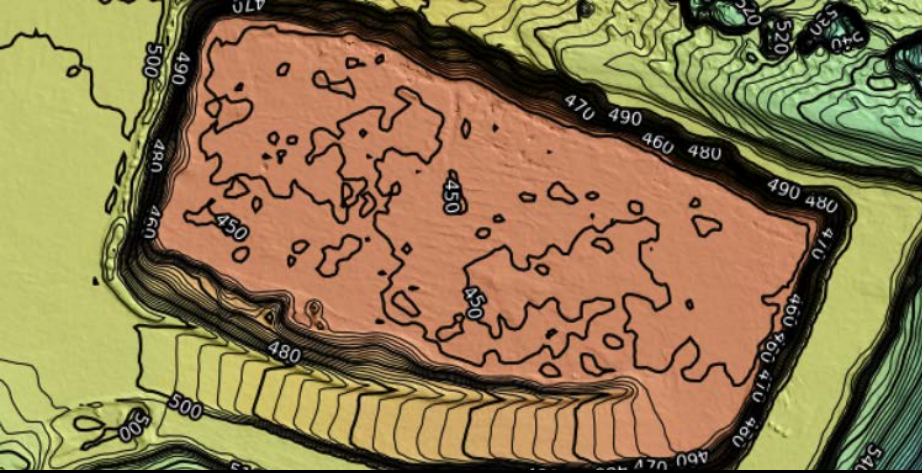
DATA  
CONSUMPTION  
AND ANALYSIS

"Make adjustments in real time, not a month or two down the road." - Kokosing Excavation Case Study

[https://www.youtube.com/watch?v=ra6l\\_hpjIPM](https://www.youtube.com/watch?v=ra6l_hpjIPM)







# Why Drones

Area: 27,908.5 ft<sup>2</sup>

Baseplane Used:  
Best fit

Color:

Cut: 6,329 yd<sup>3</sup> **Fill: 3 yd<sup>3</sup>** **Net: 6,324 yd<sup>3</sup>**

Product Density: 1.2,461 tons/yd<sup>3</sup> **Tonnage: 7,880.34 (US Tons)**



02 Fine Screenings ✎ ✕

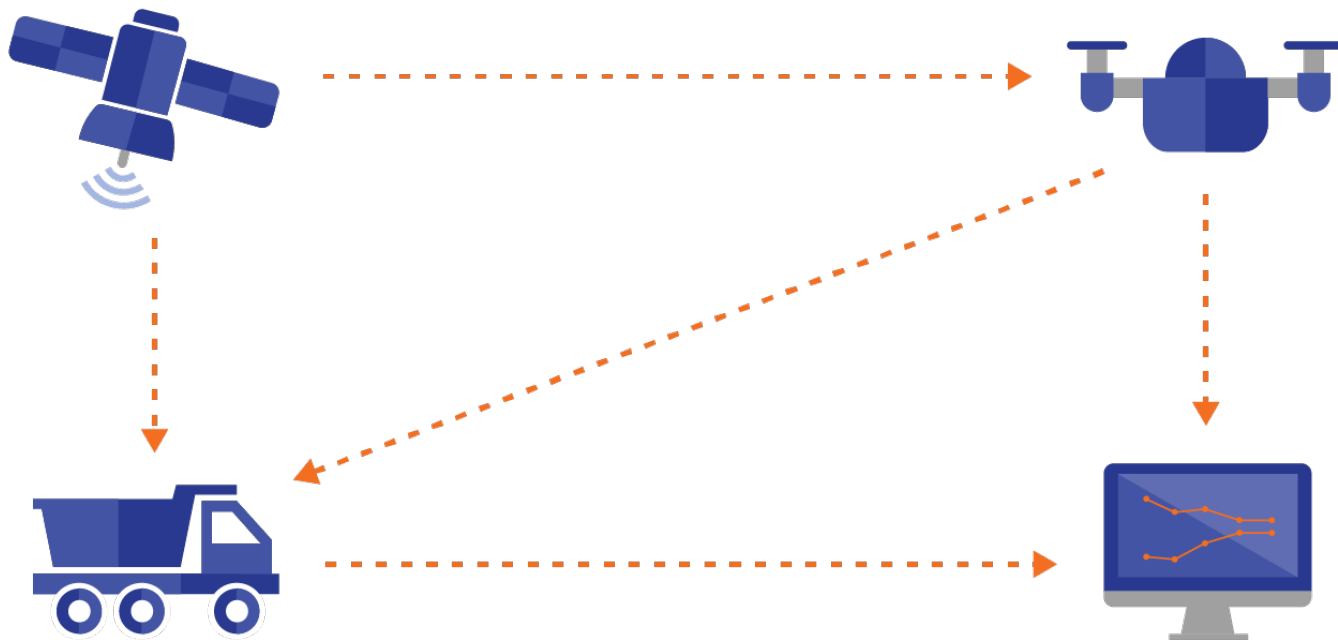
Area: 62,184.8 ft<sup>2</sup>

Baseplane Used:  
Best fit

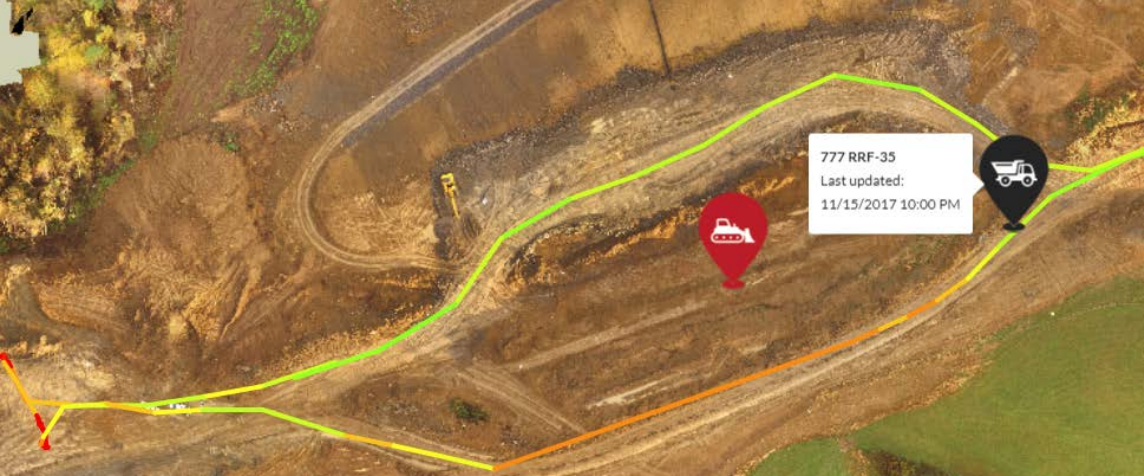
Color:



# Basics of IoT







# Why IoT

## 777 RRF-35

Timestamp:  
10/25/2017, 11:19:06 PM

Cycle Time:  
14m 52s

Load Time:  
6m 5s

Haul Time:  
8m 46s

Type  
dump-truck

Make  
CAT

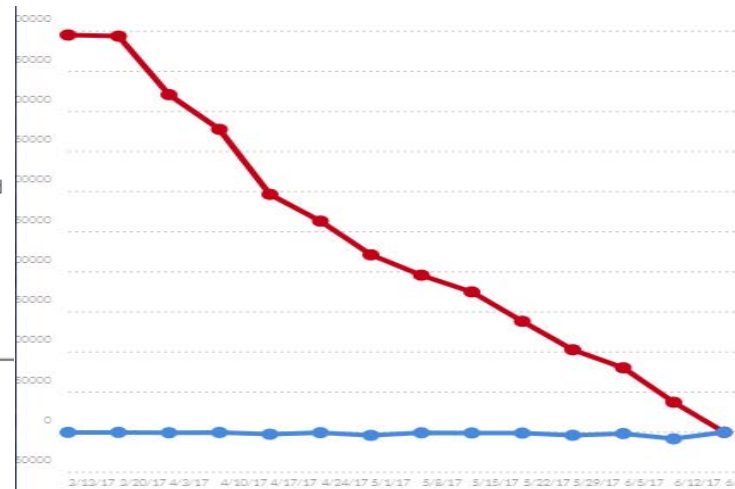
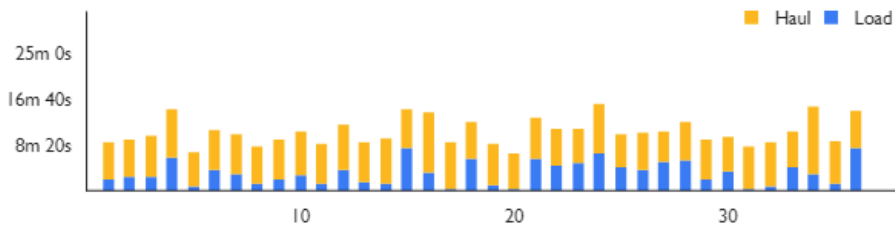
Model  
777 RRF-35

Start date & time:

10/25/2017 10:06 PM

1 HR 4 HRS 8 HRS 24 HRS 2 DAYS

Click on a metrics bar to see its path on the map, and other information to the left.





# Thank You

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CEO

Identified Technologies

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