

TURIN -19<sup>TH</sup> JUNE 2017 IIOT WORLD TOUR EVENT SERIES

### IIOT IN ACTION: A LIME INDUSTRY CASE STUDY









## DIGITAL TRANSFORMATION





Advanced Analytics



People at work









Availability



Quality



Config



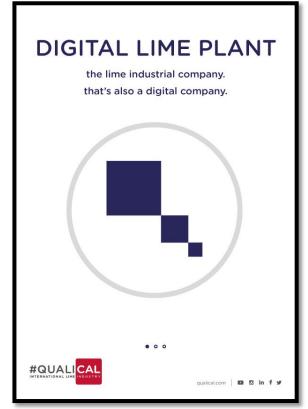
Fuel

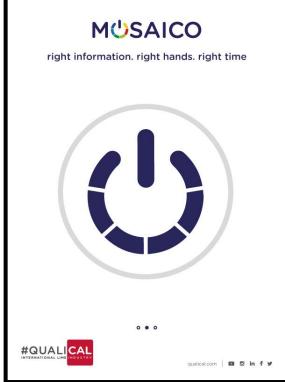


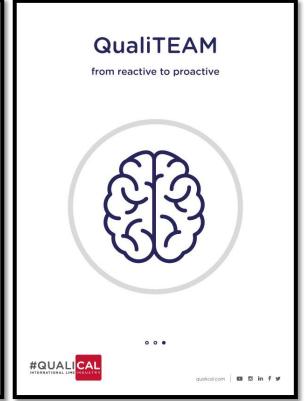
Power



# DIGITAL PRODUCTION EXPERIENCE



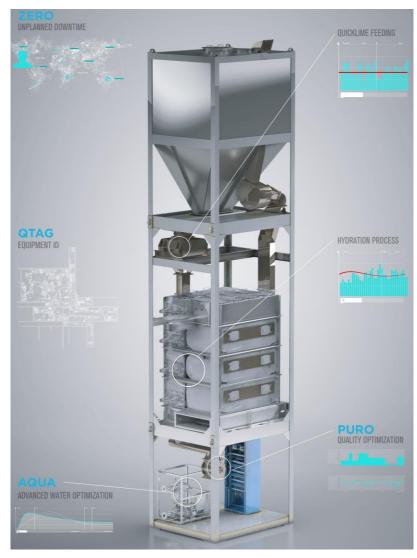






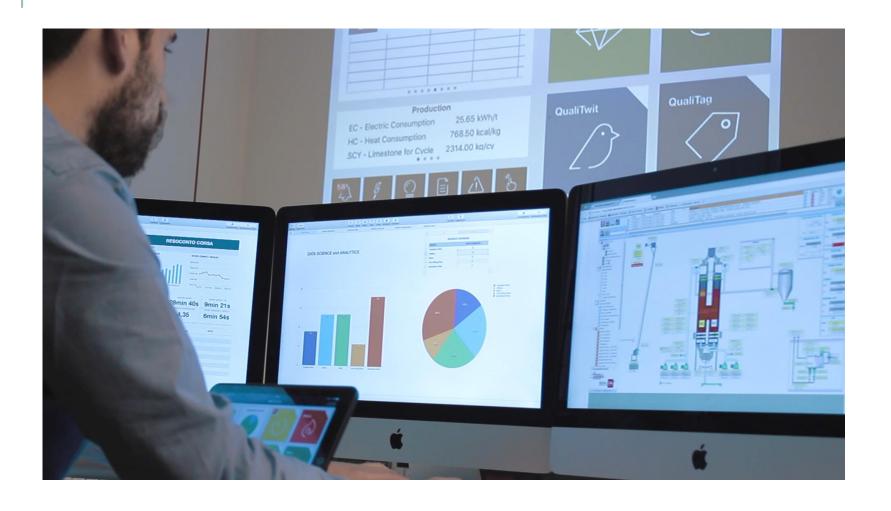
### DIGITAL PLANT







### DATA SCIENCE





### MOSAICO ... EN MARCHE!





### **CUSTOMER STORY MATTER**



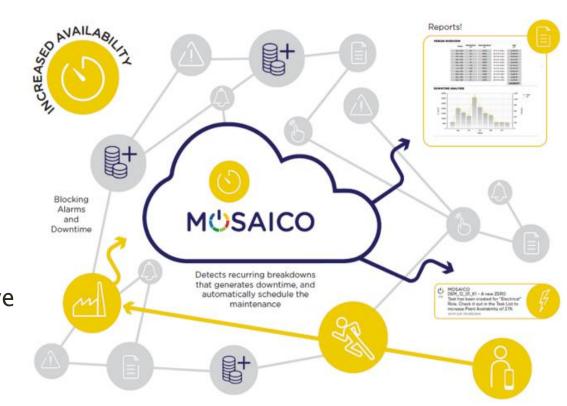




### "HOW MUCH DOWNTIME IS IDEA ZERO SOUNDS GOOD."

## MOSAICO ZERO\_app

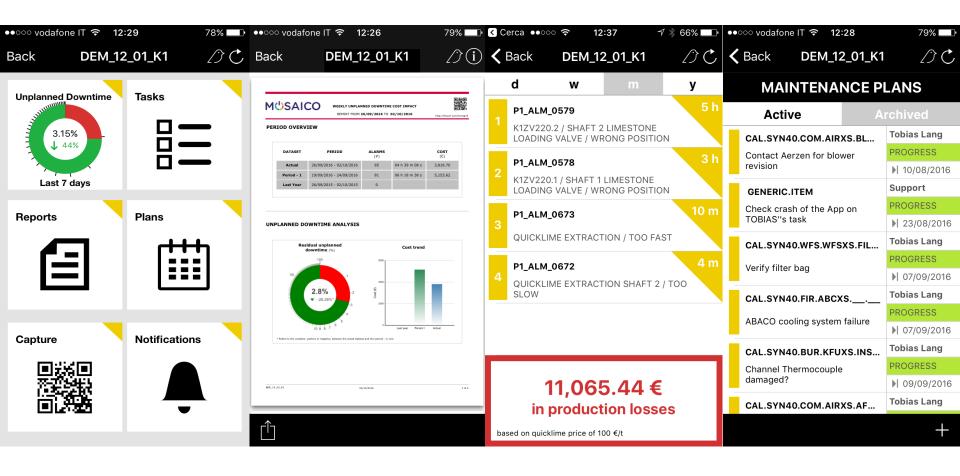
- Reduce unplanned downtime
- Optimize maintenance costs
- Smart pro-active maintenance plan





## ZERO APP UNPLANNED DOWNTIME







## ZERO APP UNPLANNED DOWNTIME



#### **OPERATIONAL OUTCOME**

- Minimized Unplanned Downtime
  - Reduced time to restart the plant



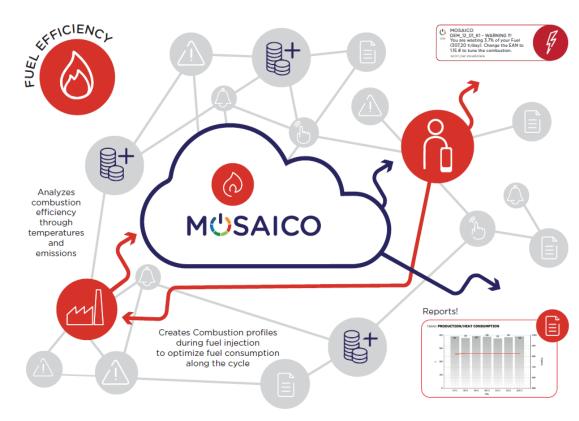
#### "HOW MUCH FUEL SHOULD I USE? JUST THE BARE ESSENTIAL."



#### MOSAICO ABACO\_app

Increase the burning and combustion:

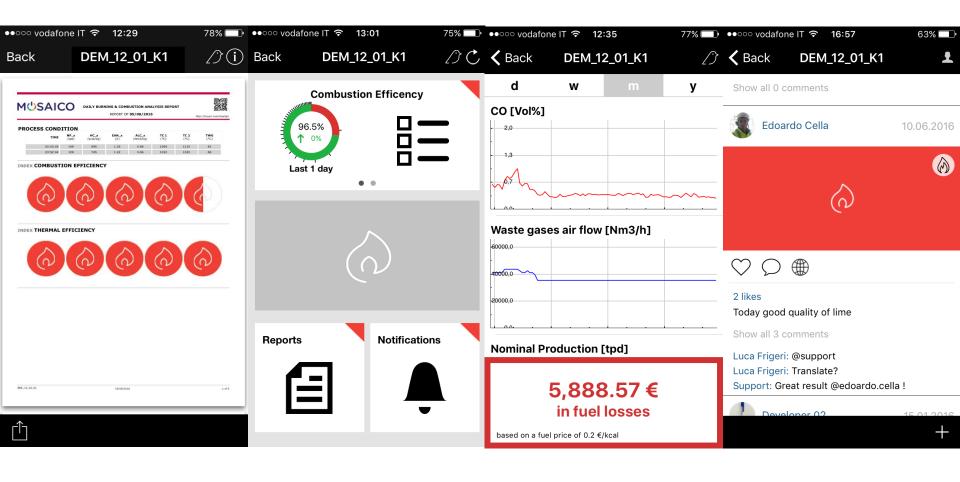
- Save fuel by reducing the unburned quantities
- Improve product quality
- Reduce thermal losses from the kiln
- Minimize environmental impact





## ABACO APP ADVANCED BURNING & COMBUSTION OPTIMIZATION







## ABACO APP ADVANCED BURNING & COMBUSTION OPTIMIZATION



#### **OPERATIONAL OUTCOME**

- •Combustion Efficiency: +2,5%
  - •Fuel Consumption : -6.000 €/month



## "ENERGY SAVED TODAY IS ASSET FOR FUTURE."



#### **MOSAICO**

#### AERO\_app

improvement in blower's reliability and electrical consumption of by:

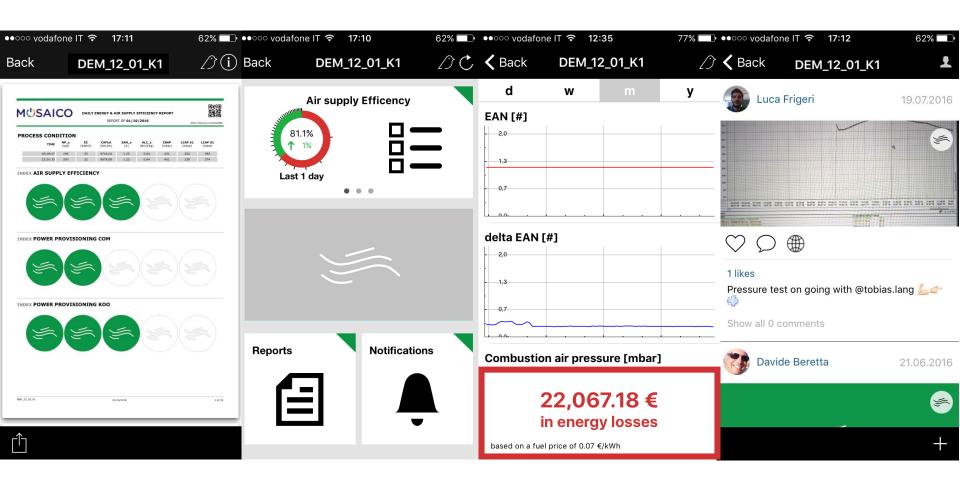
- Optimizing blowers operating conditions,
- increasing their lifespan
- Recognizing in advance sign of failures of the blowers
- Suggesting predictive fine – tuning to minimize electric consumption





## AERO APP ADVANCE PROCESS AIR MANAGEMENT







## AERO APP ADVANCE PROCESS AIR MANAGEMENT



#### **OPERATIONAL OUTCOME**

- •Air Supply Efficiency: +26%
- •Electrical Consumption: -500 €/day

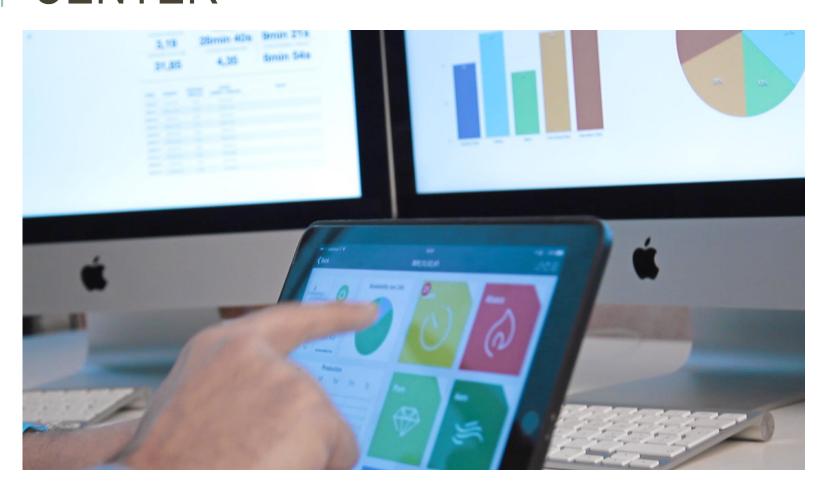


# ATENEO LIME QUALICAL ACADEMY



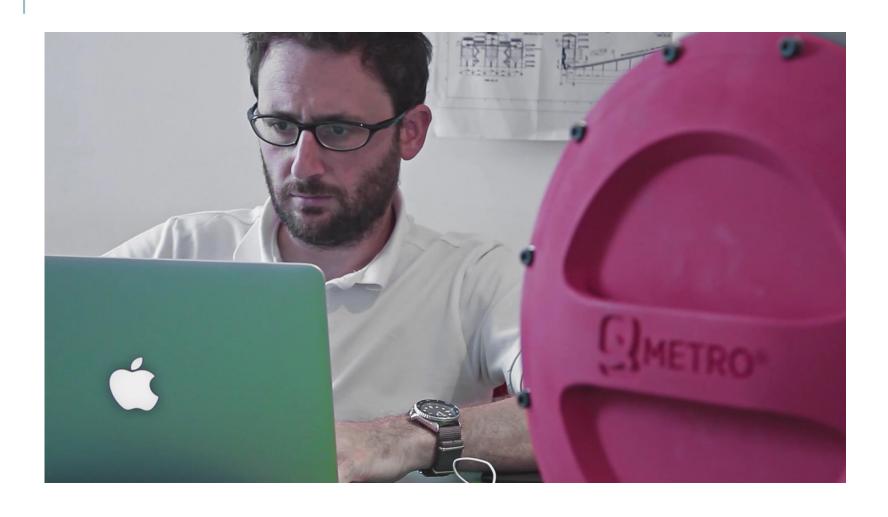


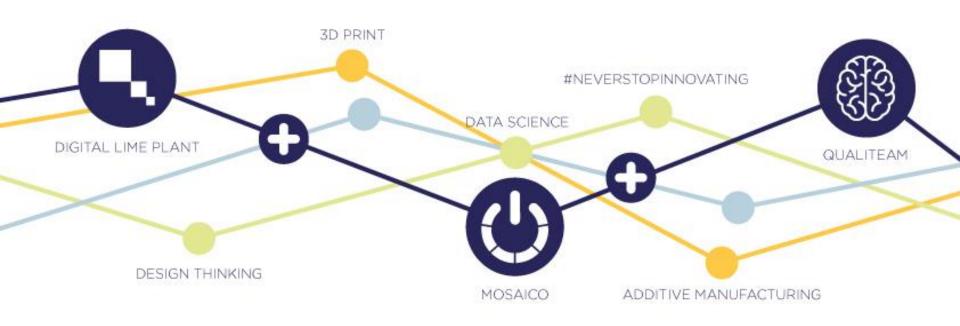
# PERFORMANCE & RELIABILITY CENTER





## QUALITEAM



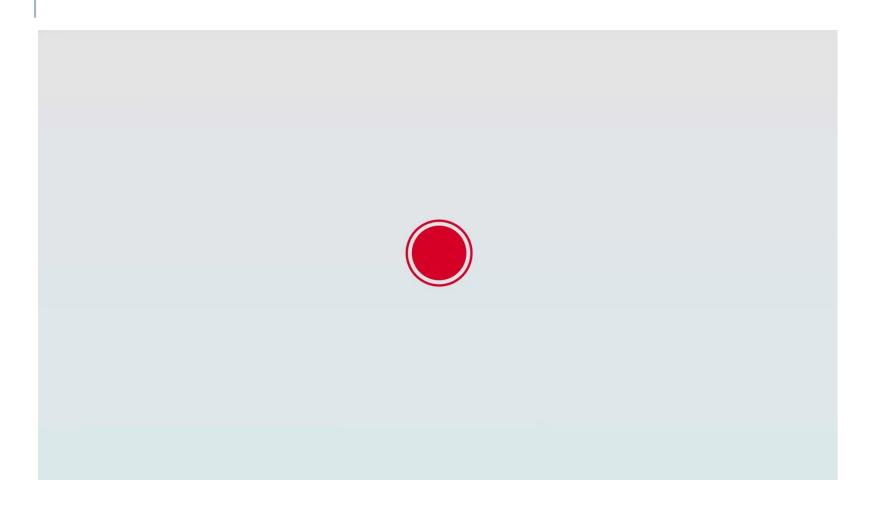


## CONCLUSION #QUALICAL





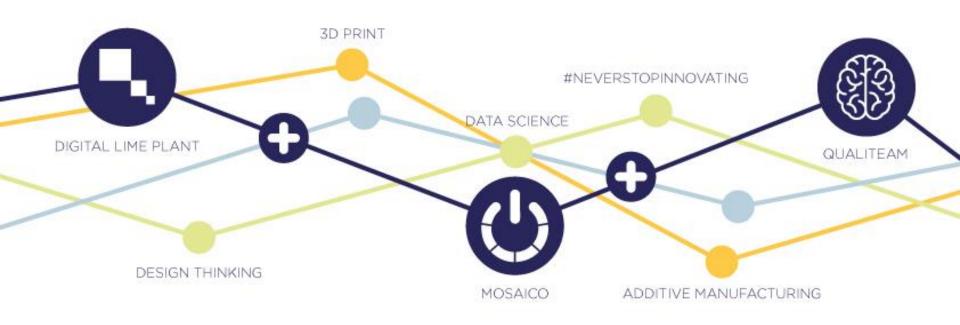
## #INNOVATION





## "THINK ABOUT THE FUTURE. IT WILL BE HERE SOON ENOUGH"





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