



An Industrial IoT Analytics Platform

Humera Malik |

www.dat-uh.com



An Industrial IoT Analytics Platform

Converting data into intelligence

An advanced analytics platform with real-time predictions that improve asset utilization and optimize plant production for Industrial companies.



DATA
ANALYSIS

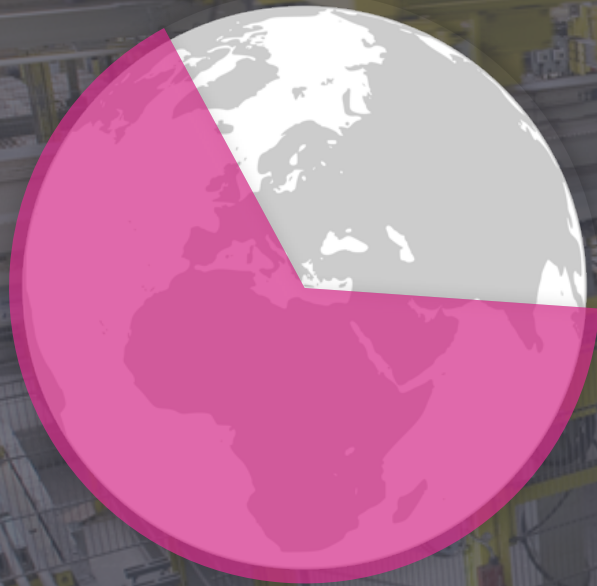


AUTOMATED
MODELING



REAL-TIME
PREDICTIONS

“The Industrial Evolution will generate \$14.2 trillion of global output by 2030.”



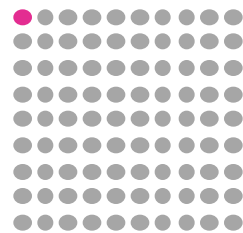
WEForum, 2016



Connecting Industrial Environments

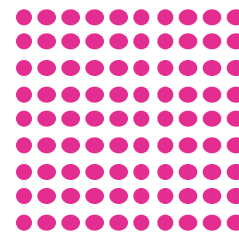
The U.S. Industrial market has invested \$6.8 trillions retrofitting legacy equipment with sensors to drive key insights.

CHALLENGE



Less than 1% of operational data is being used by Industrial companies to make business decisions

OPPORTUNITY



Automated analytics has the ability to help industrial companies monetize 100% of operational data



Future Importance of Advanced Manufacturing Technologies

Advanced Manufacturing Technologies	US	China	Europe
Predictive analytics	1	1	4
Smart, connected products (IoT)	2	7	2
Advanced materials	3	4	5
Smart factories (IoT)	4	2	1
Digital design, simulation, and integration	5	5	3
High performance computing	6	3	7
Advanced robotics	7	8	6
Additive manufacturing (3D printing)	8	11	9
Open-source design/Direct customer input	9	10	10
Augmented reality (to improve quality, training, expert knowledge)	10	6	8
Augmented reality (to increase customer service & experience)	11	9	11

Source: Deloitte Touche Tohmatsu Limited and US Council on Competitiveness, 2016 Global Manufacturing Competitiveness Index




Business Benefits *of* Automated Analytics



Drivers of Global Manufacturing Competitiveness



A person in a dark suit is pushing a large, multi-colored pie chart down a gravel road that stretches into the distance. The background shows rolling hills and a fence line under a hazy sky. The pie chart is divided into several segments of different colors: blue, red, yellow, green, and purple.

Barriers to Adoption

The challenge with traditional analytics

Data points are
looked at separately

Time to market
is too long

Resource intensive
(time, money, people)



HOW MANUFACTURERS SUCCEED

Embrace
Advanced
Technologies

Leverage
Ecosystem
Partnerships

Cultivate Public-
Private
Partnerships



Dat-uh helps industrial companies remove the complexity of data science

APPLICATION

**PREDICTIVE
MAINTENANCE**

**PROCESS
OPTIMIZATION**

RESULTS

Improved remaining useful life by 30% while reducing maintenance costs by >10%

Recovered lost production efficiency; further looking to optimize production by >5%





 *dat-uh*

THANK YOU

Humera.Malik@dat-uh.com

www.dat-uh.com | [@IOT_Datuh](https://twitter.com/IOT_Datuh)