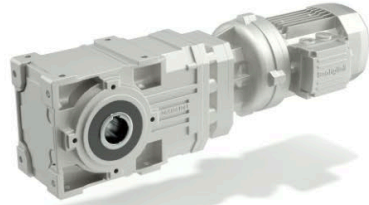# Bonfiglioli Riduttori

17th september 2019   Montreal
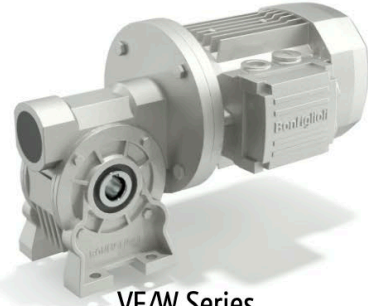
Enrico Andrini

Chief Digital Officer

Bonfiglioli Riduttori (Gearboxes)
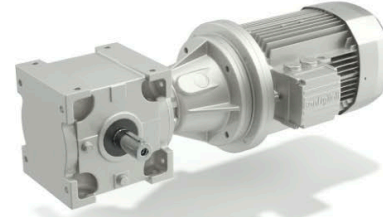

A Series
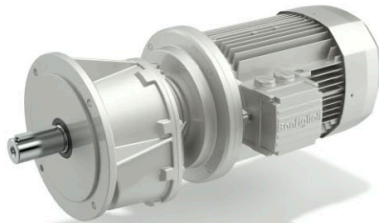
100 ... 14,000 Nm

VF/W Series
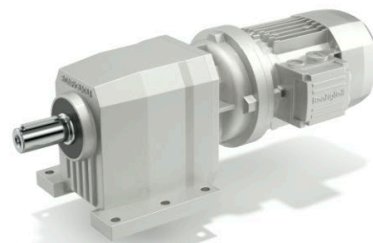
13 ... 7,100 Nm

RAN Series

Right Angle Gear Units

TA Series

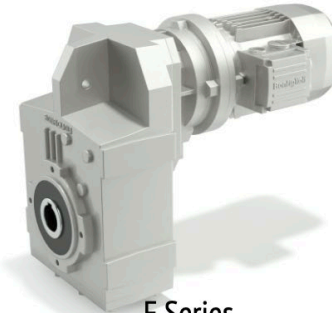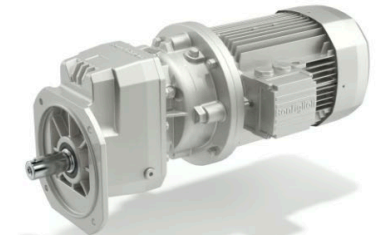150 ... 16,000 Nm

AS Series

50 ... 12,000 Nm

C Series

45 ... 12,000 Nm

F Series

140 ... 14,000 Nm

S Series

21 ... 200 Nm

Bonfiglioli
Forever Forward

Bonfiglioli Riduttori

3700 EMPLOYEES

21 BRANCHES

14 PLANTS

550 DISTRIBUTORS

80 COUNTRIES

1 Billion Euro turnover

Bonfiglioli
Forever Forward

Bonfiglioli Riduttori: markets and applications

Industry 4.0 in Bonfiglioli

Digital Manufacturing

Connected products

Bonfiglioli
Forever Forward

The first AI achievement in Bonfiglioli

190 millions records of user transaction records
Using unsupervised machine learning techniques, we clustered the users with similar behaviour.

Using the graph model, we identified **communities of users** connected to each other through the transactions they executed: two users are connected if both used the same transaction
(red dots are the users, green dots are the transactions)

Within nearly 2000 users, we identified 142 communities with an **average utilization percentage of 49,5% (from previous percentage of 11%)**

Bonfiglioli
Forever Forward
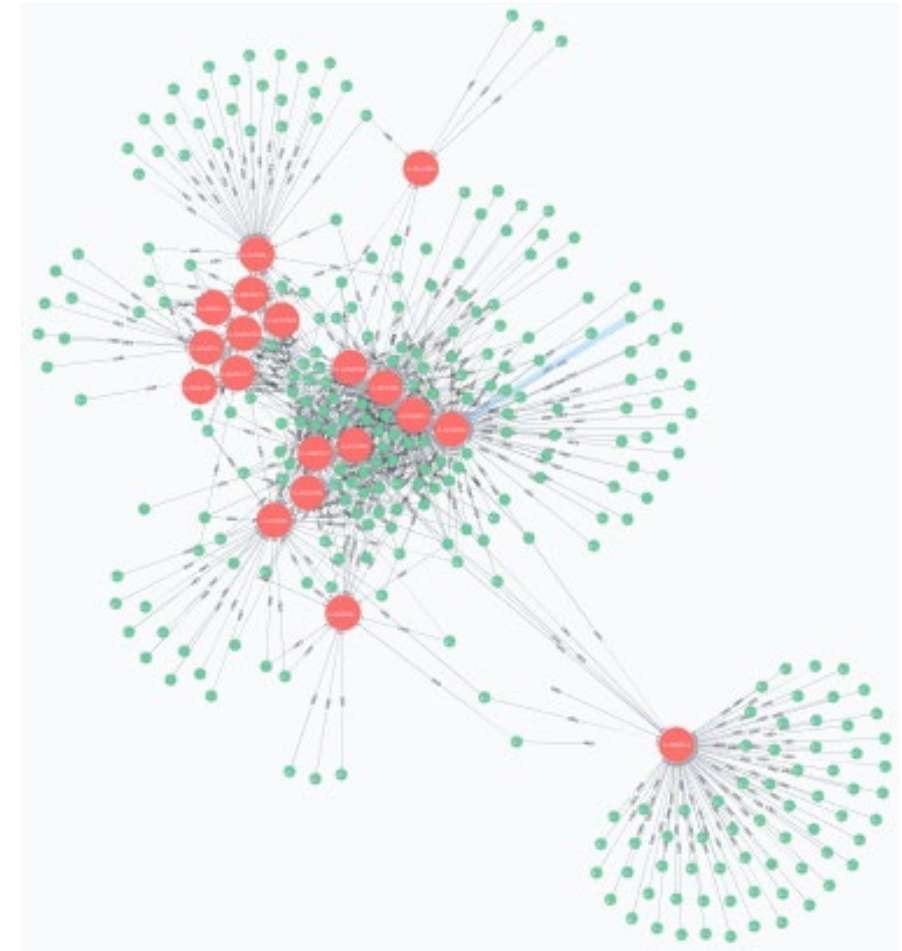
The AI Challenge for Bonfiglioli
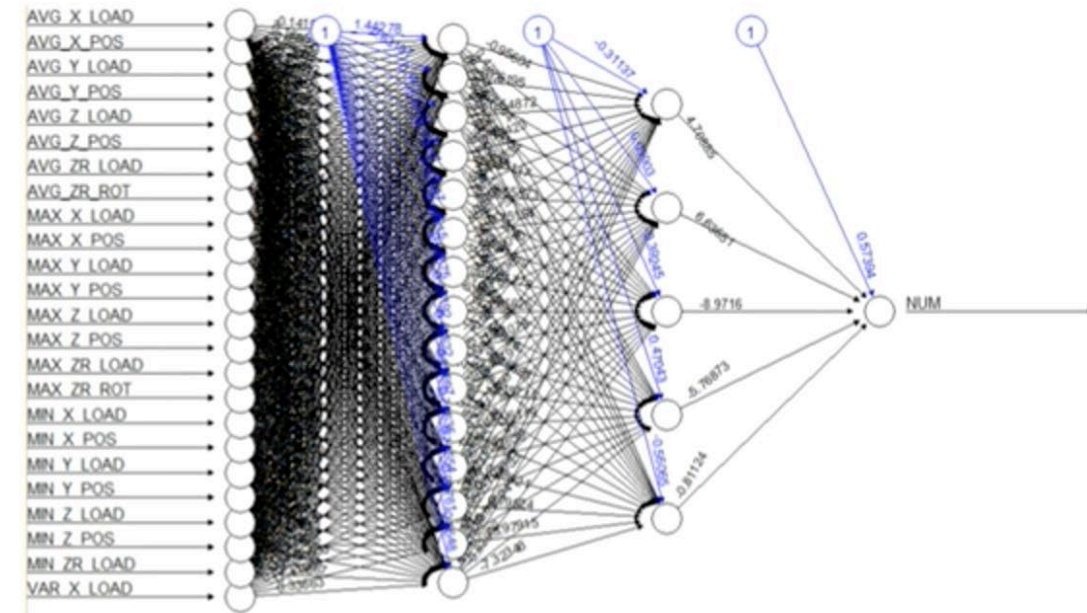
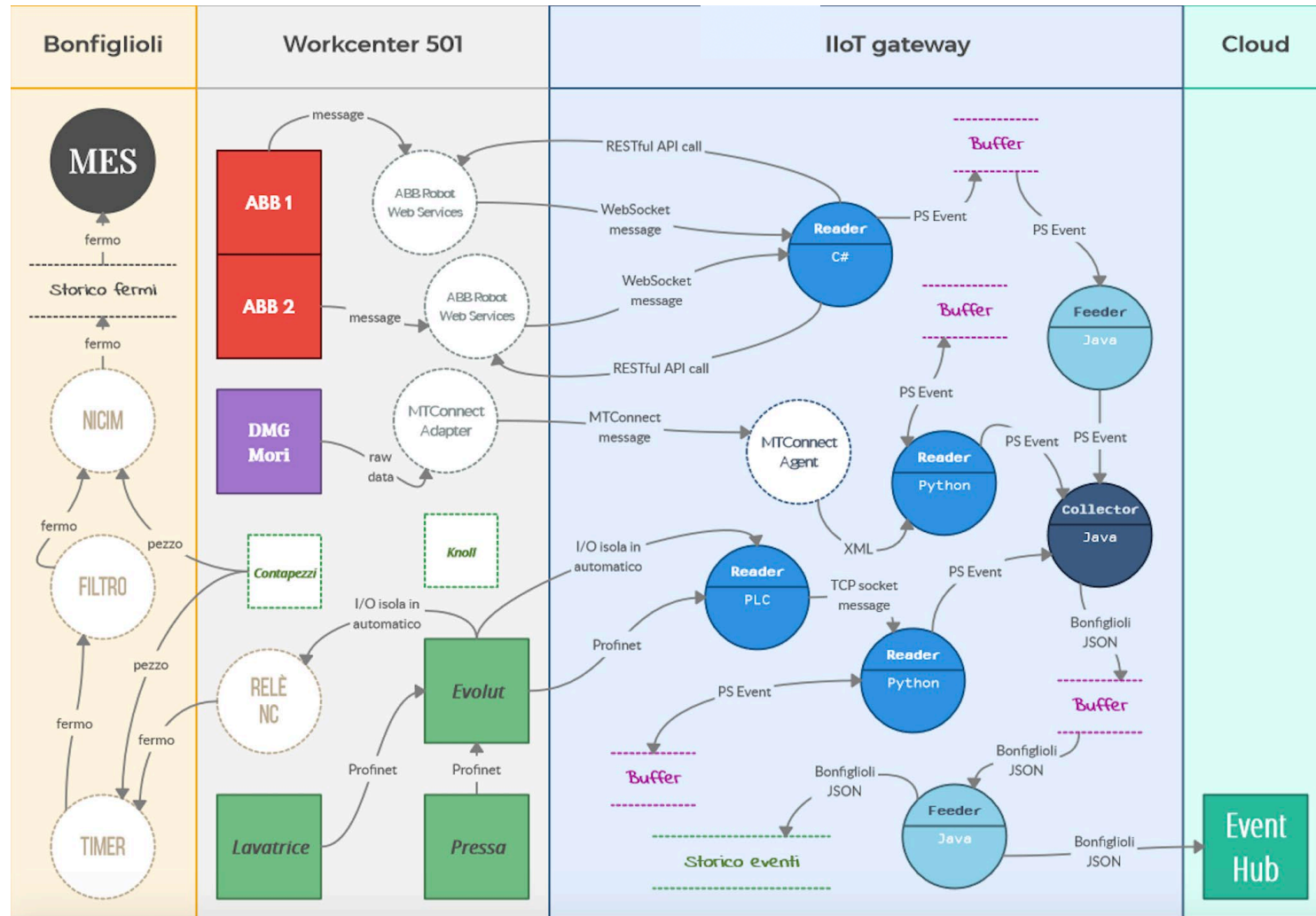Predictive maintenance in our factories

Visual quality inspection

Connected products

Increasing complexity

The current main challenge

«*We can only see a short distance ahead, but we can see plenty there that needs to be done*»

Alan Turing
Computing machinery and intelligence (1950)

Bonfiglioli
Forever Forward