



SLUDGEtreat 

**ELECTRODEWATERING “2.0”:
A NEW FRONTIER IN SLUDGE TREATMENT TECHNOLOGY**

Friday 8th of February 2019 at 9:00 am
Aula Rogers at Politecnico di Milano
Via Andrea Maria Ampère, 10, 20133 Milano (MI)

**Per quale motivo questa macchina
innovativa non funzionerà?**

Why will this innovative machine not work?

Relatori: Daniele Renzi , Claudio Modena

08 febbraio 2019

L'idea, la creazione, l'installazione...

The idea, the creation, the installation...



Operation & Maintenance

Limits Control

Report

WWTP Cleaning



...and...new EDW machine...

First days...



...ed iniziano i problemi...

...and problems start..



START & RUN



+ POLY



**+ Process Problems
+ Money**

+ SLUDGE



What's the problem?

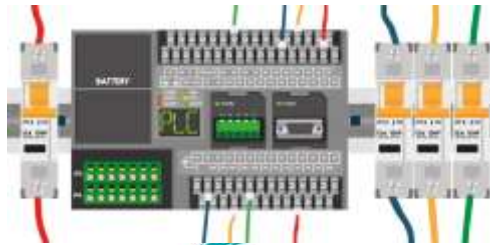
- ? Worker
- ? New Machine
- ? Sludge characteristics
- ? ...

La vera soluzione è l'automazione? 2 casi a confronto

(Is automation the real solution? 2 wwtp cases)



+



Is it enough?

EDW Machine

Process control

2 wwtp

Same Dewatering Machine

Same Process Control

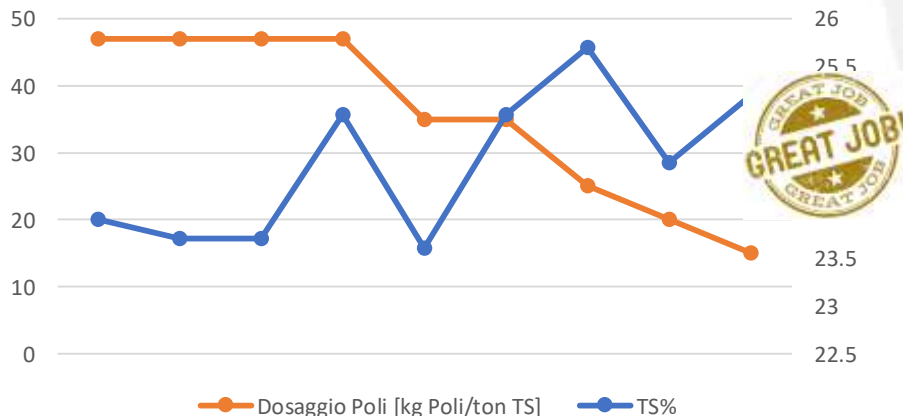
1st wwtp

+ 1,5% TS & - 68% Poly

2nd wwtp

First period
no TS% increase
no Poly reduction...

TS% & POLY DOSAGE with automation



What's the problem?

? Worker

? New Machine

? Sludge

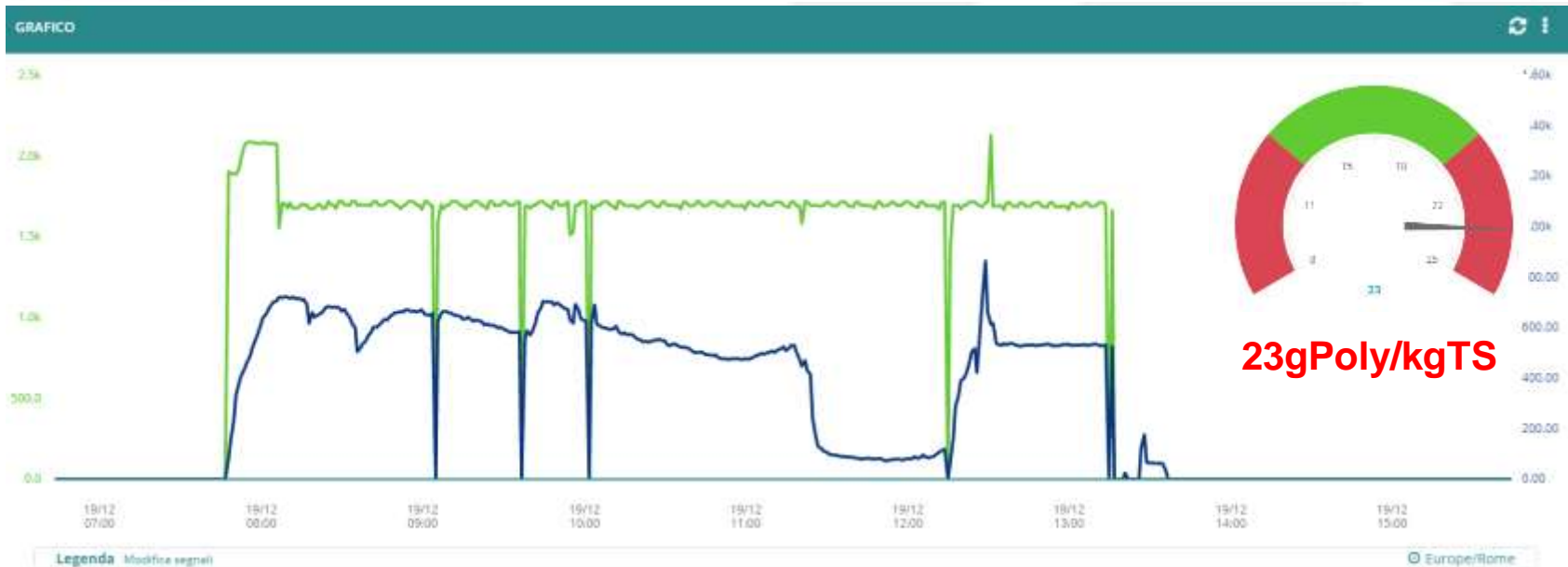
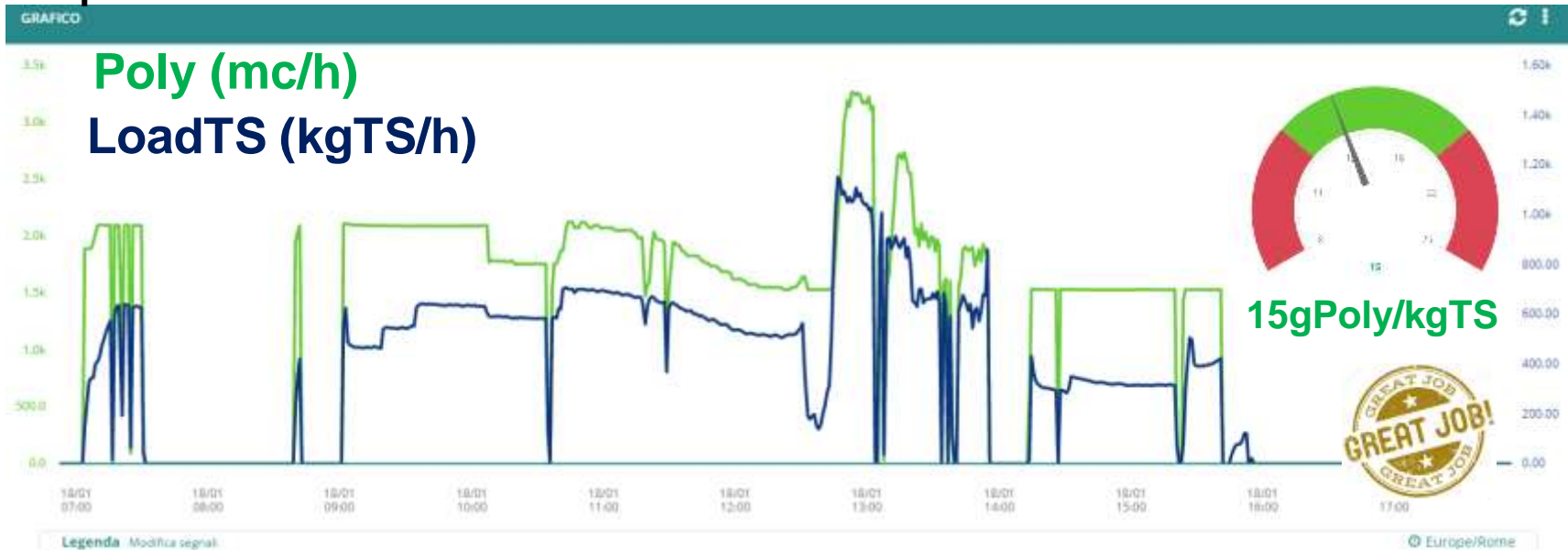
characteristics

? Automatic Control

Gestione del dato: KPI e Decision Support System

(Data management: KPI & DSS)

Same
plant



Quando questa macchina innovativa funzionerà? When will this innovative machine work?

What's the problem?

- ? Worker
- ? New Machine
- ? Sludge characteristics
- ? Automatic Control



NO KPI
NO
DSS



NO DATA CONTROL
NO CORRECT
DECISION

How to manage all
our PROBLEMS?

DATA MANAGEMENT
COLLECT ELABORATE KPI





YOUR PARTNER IN PROCESS CONTROL

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THANKS FOR YOUR ATTENTION