CATALYST

Dealing with data quality issues



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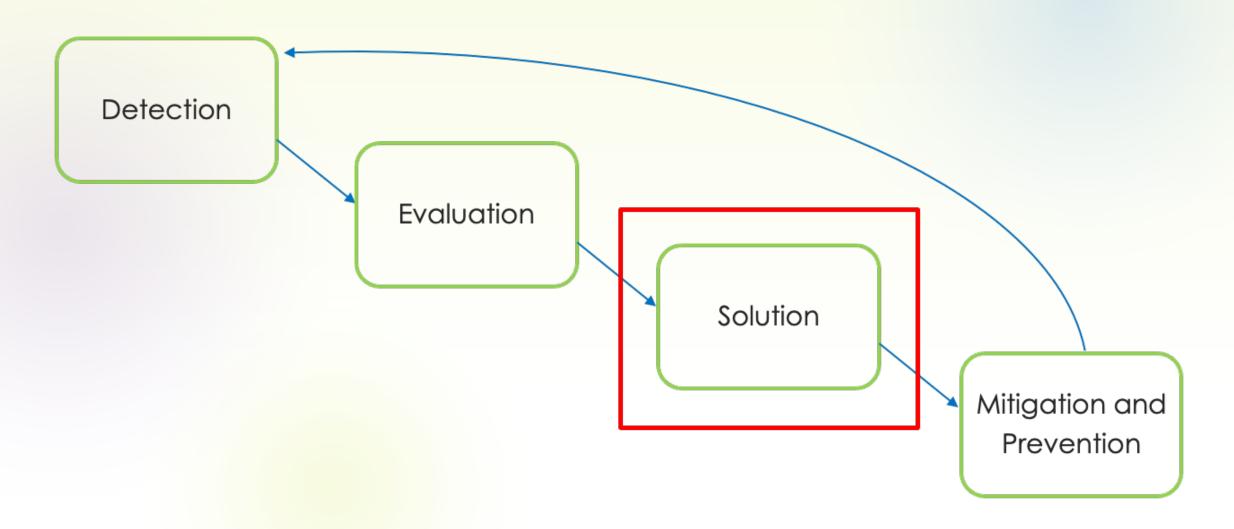




Data management:

- What is a data quality issue?
- Detection and diagnosis
- New Solutions!
- Mitigation and prevention

Our focus for today



What is a data quality issue?

Data processing

Data is good but looks bad

Incorrect data

Generates anomalies like spikes, zeros and more

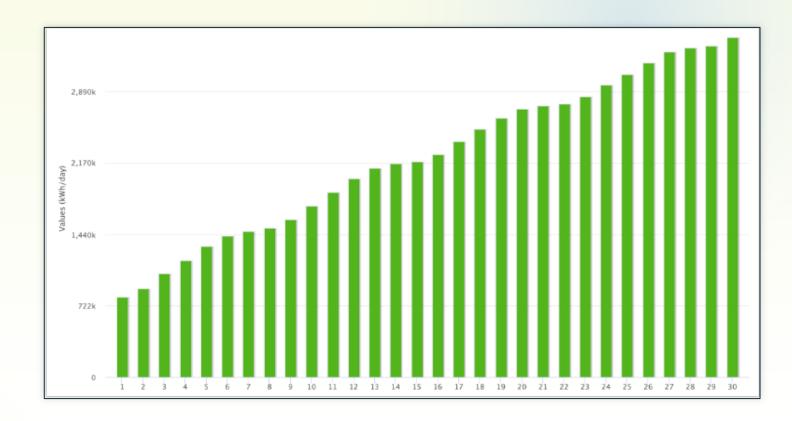
Missing data

Data gaps or errors in data collection/allocation

Detection and Evaluation

Data Processing

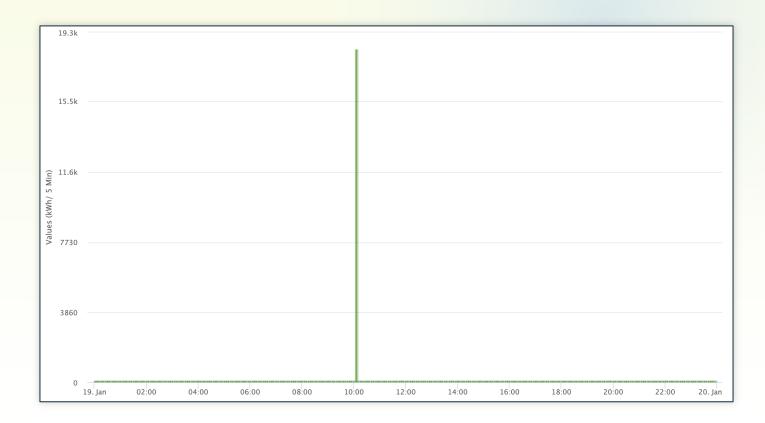
- Data issue spotted in breakdown or through alerts
- Checking on the data monitors, readings are in line with the expectations.
- Check that the data point configuration is correct.



Incorrect Data

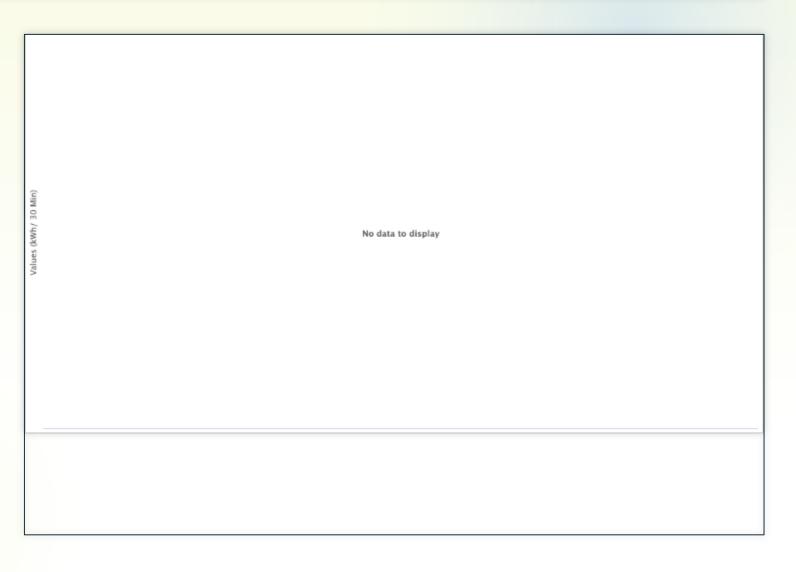
- Data issue spotted in breakdown or through alerts
- Checking on the data monitors, readings are NOT in line with the expectations, showing:
 - Random, null or zero readings
 - Inconsistent datasets
 - Negative powers

• ...



Missing Data

- Data issues can be spotted with any tools, alerts/webhooks in particular.
- Checking on the data monitors, readings are not there or are severely corrupted.
- Erroneous uploads or wrongful installations also fall in this category



Solutions

Good News!

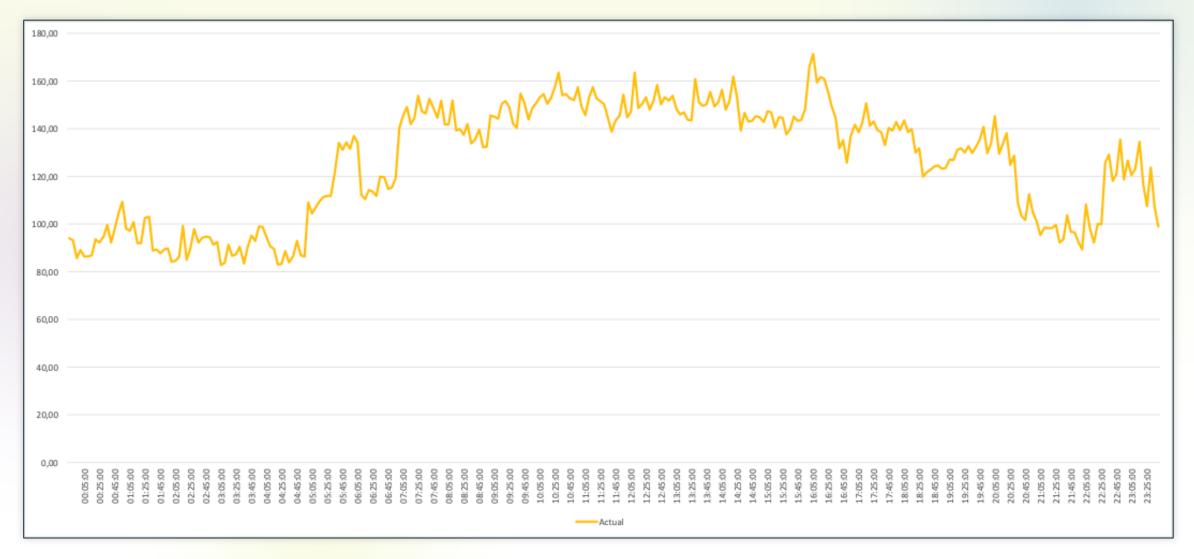
Introducing Data Actions

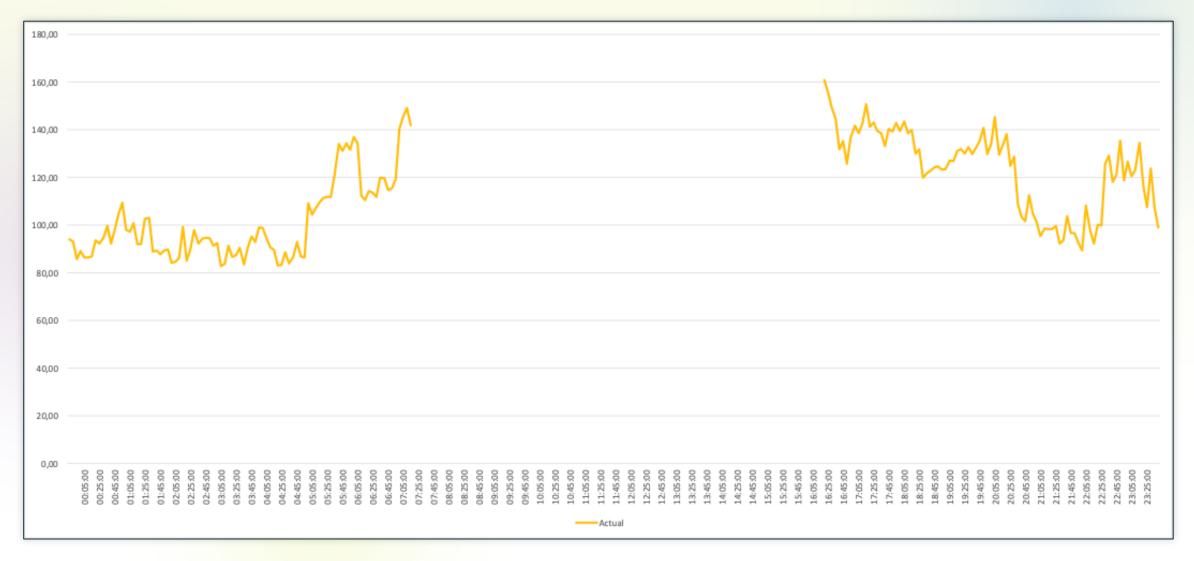
- Reactive solution
- Delete, update, reprocess
- Works in bulk!
- Your go-to-tool for a clean database

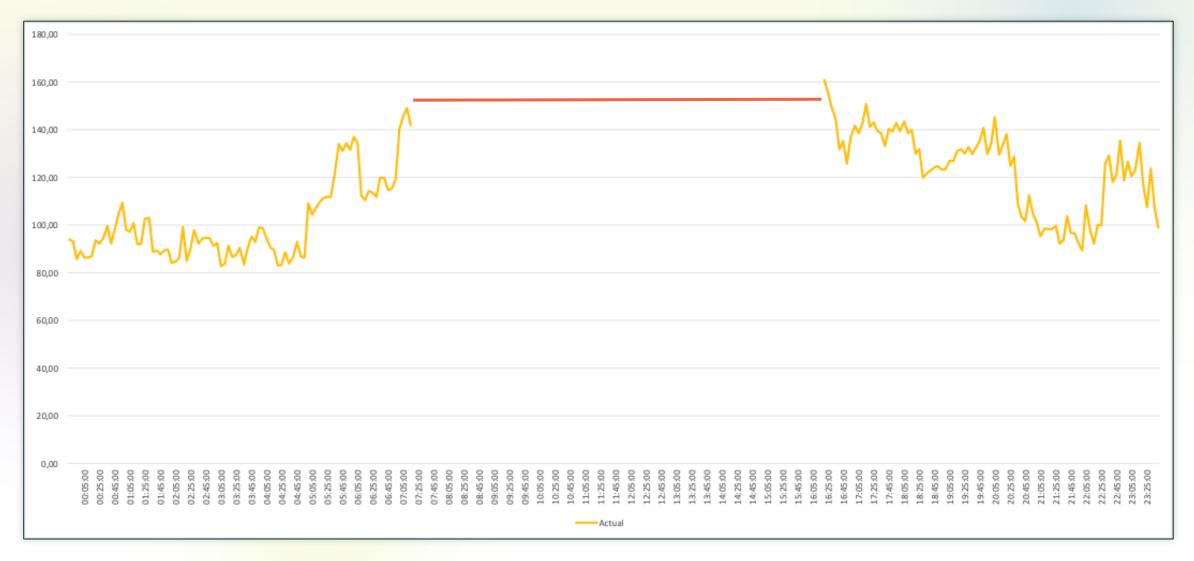
Let's see it on the platform!

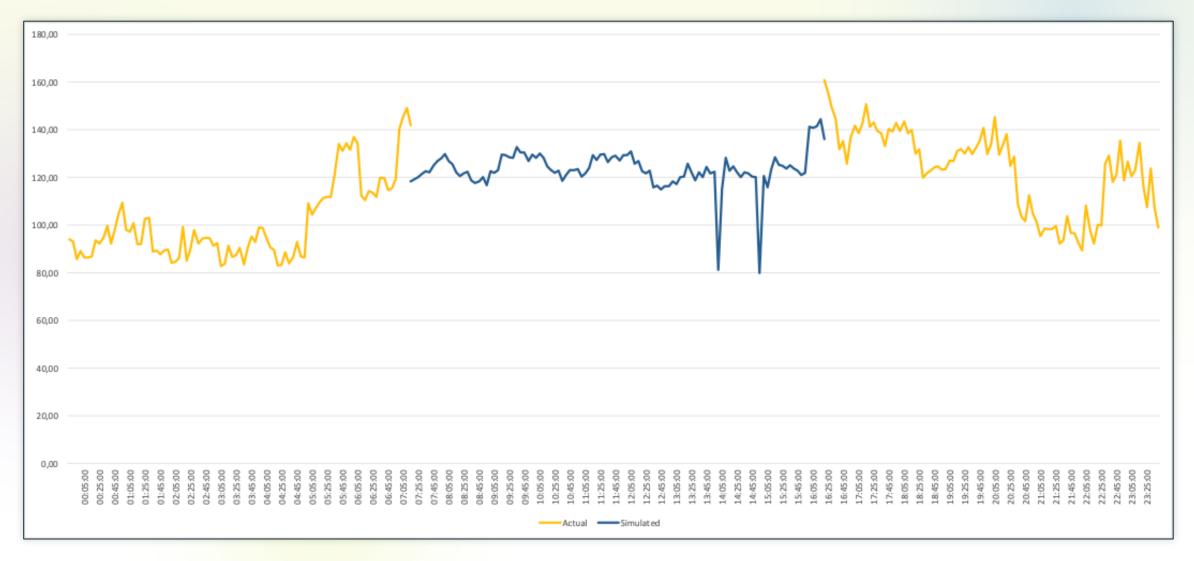
Introducing Data Doctor

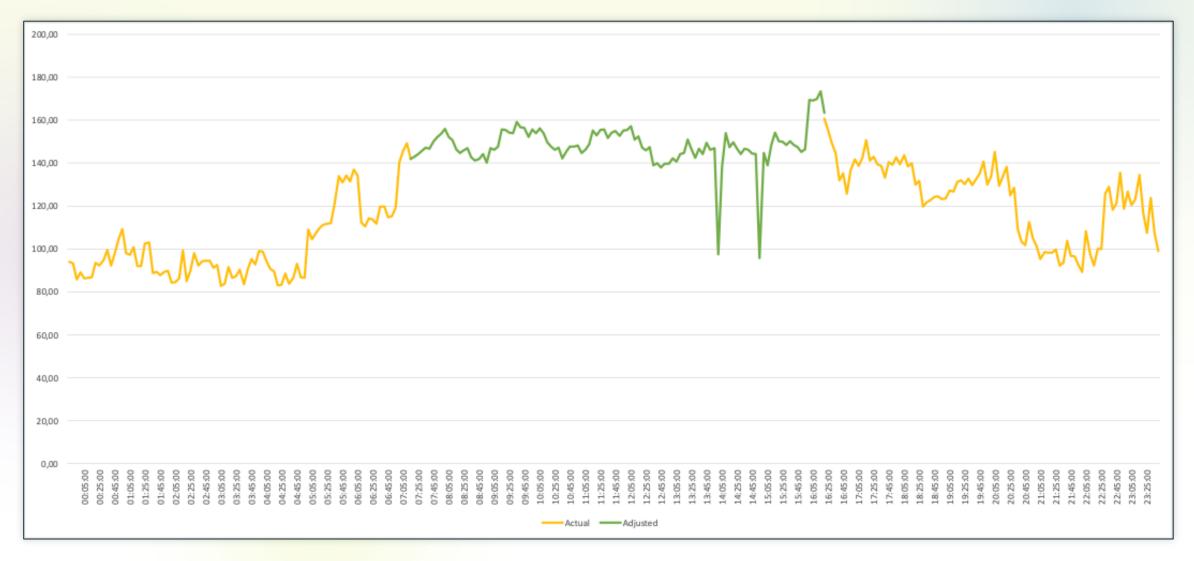
- Proactive solution
- Rebuilds the missing data
- Maintains a clean data visualisation

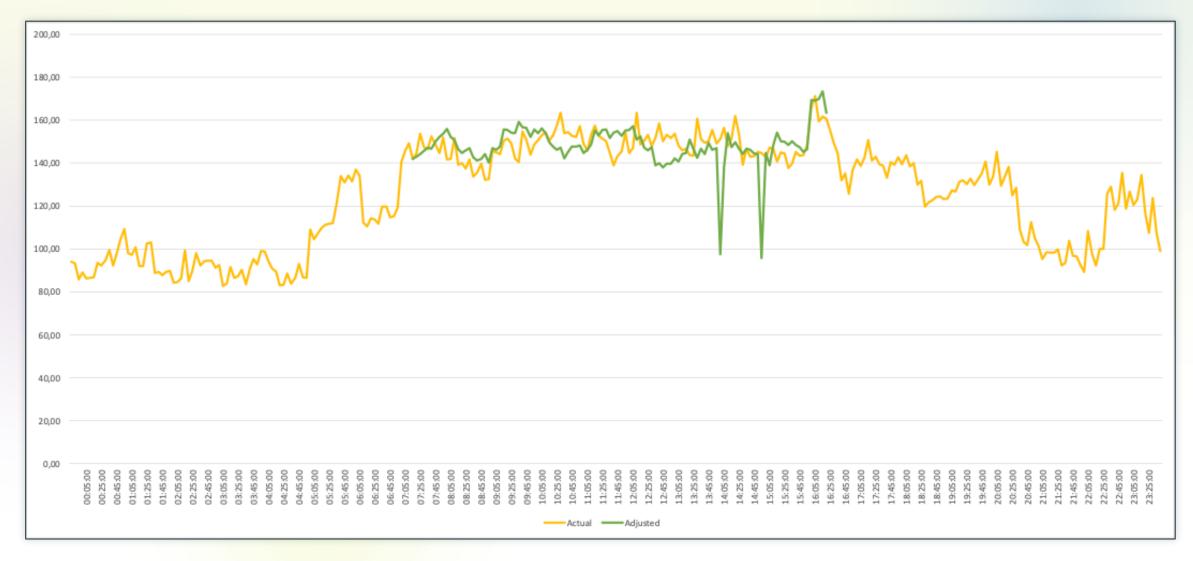












Data Doctor FAQs

- How to enable it?
- When/how will it jump into action?
- How to keep visibility on simulated data?
- ...?

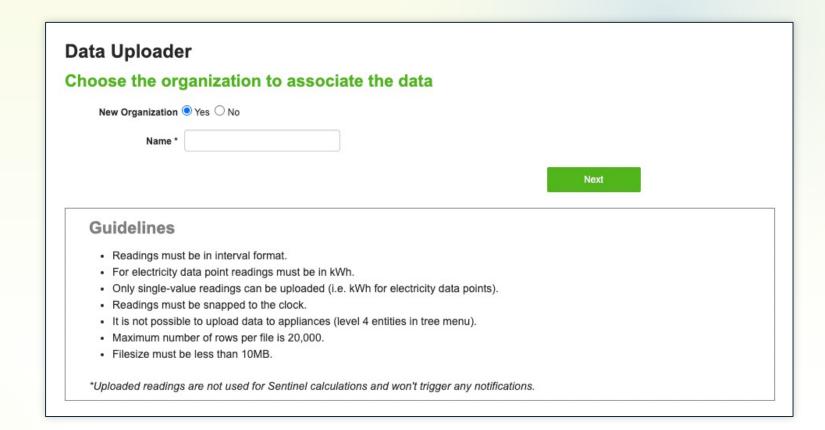


Don't forget the API!

Re-uploading data

When nothing else works...

- Embedded Data Uploader
- Manual (s)FTP pushes
- HTTPs pushes via API
- MQTT



Mitigation and Prevention

Mitigation and prevention tips

Mitigation

- Enable data doctor!
- Whenever possible, choose cumulative data
- CT/PT factors

Prevention

- Set up Alerts
- Investigate the option to enable webhooks
- Meter Rollovers



hook. v zapier IFTTT

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Thank you!