

B/S/H/



Skalierbare Datenharmonisierung in der Cloud für Self-Service Analysen

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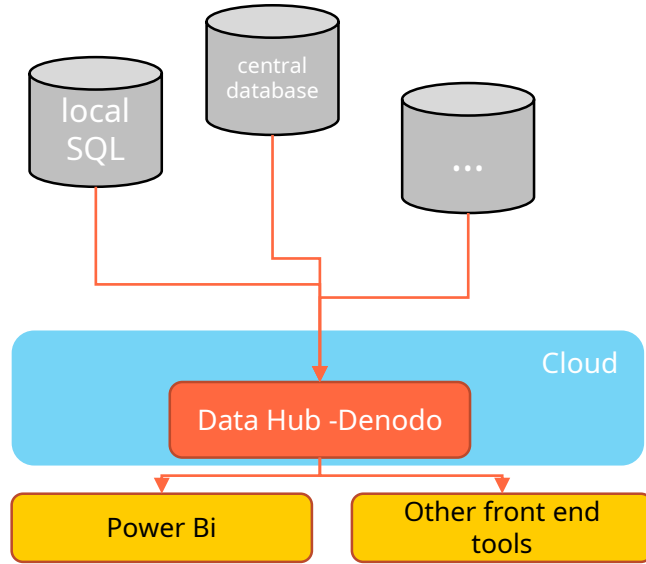
i4.0@BSH



Was ist am wichtigsten um datenunterstützte
Entscheidungen und Optimierungen in ihren Werken
zu ermöglichen?

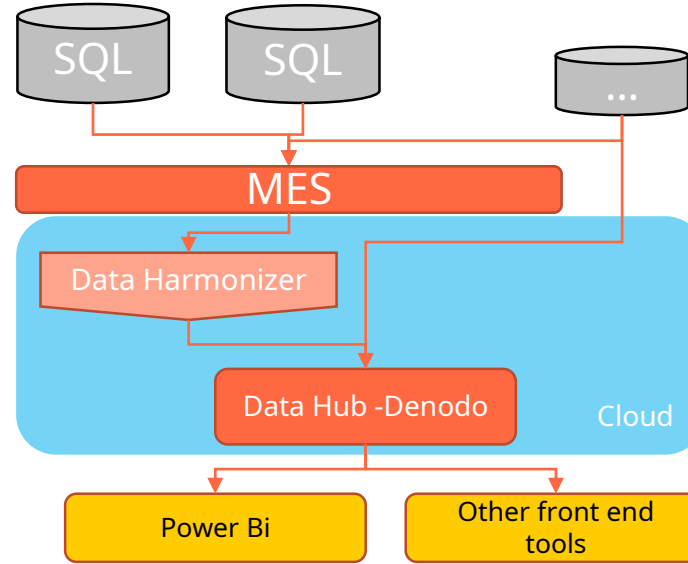


Iterative Steps in Data Analytics



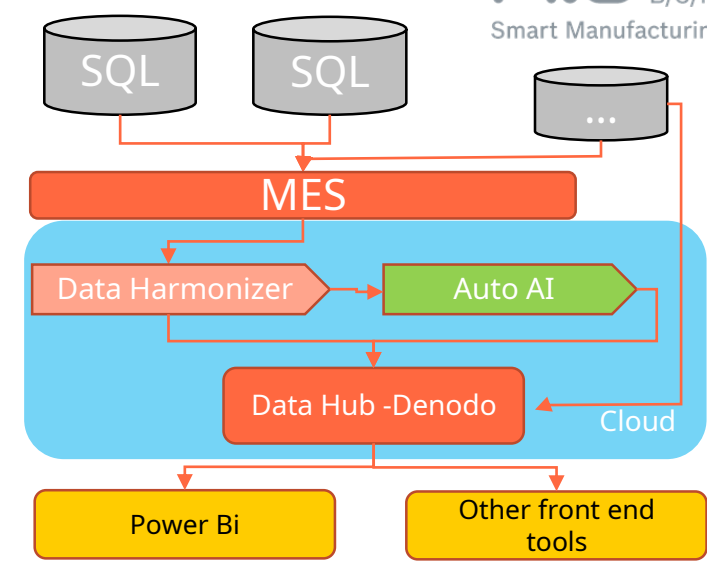
Independent transparent usage of local & global data:

- Data hub to local data bases
- Merge with standard global data sources
- Get experience about data, and performance of sourcing



Data prep as continues service

- Optimize performance by generic pipeline
- Support for visualization of existing data
- Based on more precise requirements



Advanced analytics projects

- Reuse or extension of existing pipelines
- Include expertise for Data Science & AI
- Bring results back to Data hub for common usage



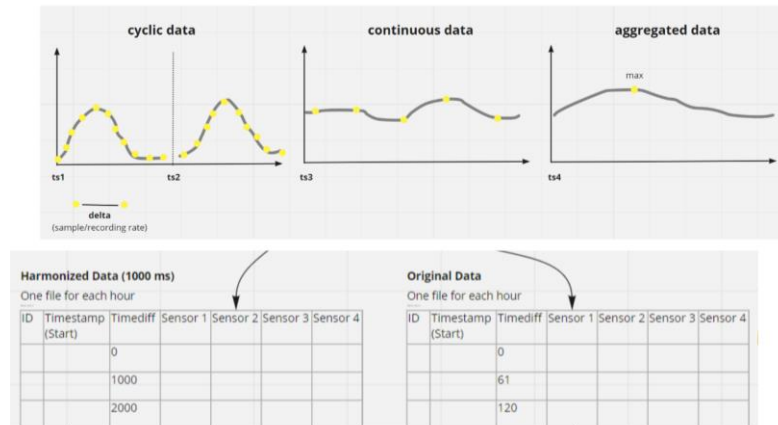
Wie arbeiten Sie mit Datenharmonisierung in Ihrem Unternehmen?

- Lokal für einzelne Projekte
 - Zentral mit einem generischen Tool
 - Gar nicht
 - Ich weiß es nicht
-
- Single Select



The Data Harmonizer

- Process incoming data by standard software in an AWS environment
- Result:
 - Harmonized on common timestamp data is available
 - Single pipelines to maintain and scalable for multiple use cases



JSON Generator for CDL

Select Bucket Name :
i40-cloudgateway-inbox-cdl

Select Factory ID :
Select Factory ID

Select Line ID :
Select Line ID

Select Process Name :
Select Process Name

Select Layer Type :
Select Layer Type

IsHistoric ?
☒ FALSE
☐ TRUE

Select Date :
mm/dd/yyyy

Select Frequency Type :
Select Frequency Type

Input Data Format :
Select Input

Output Data Format :
Select Output

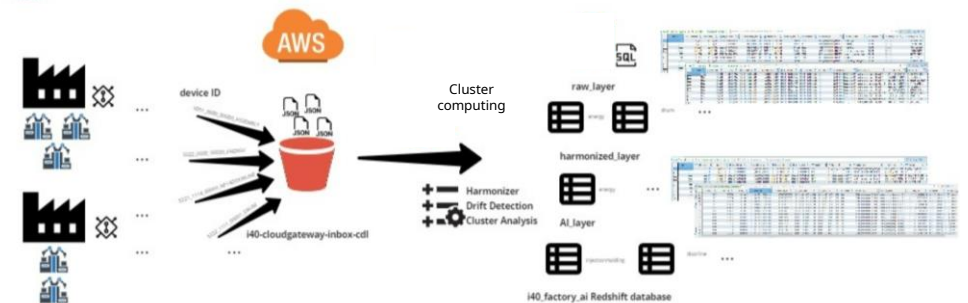
S3 Output File Format :
Select File Format

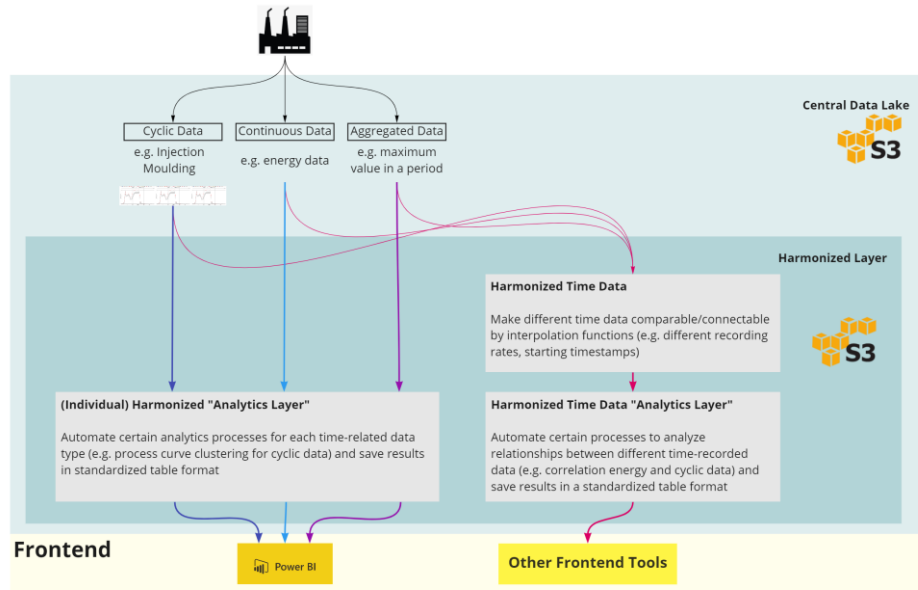
Select Interval :
Select Interval

Enter Red Shift Table :
table ID

Enter EndPoints :
custom end point

Generate Config File





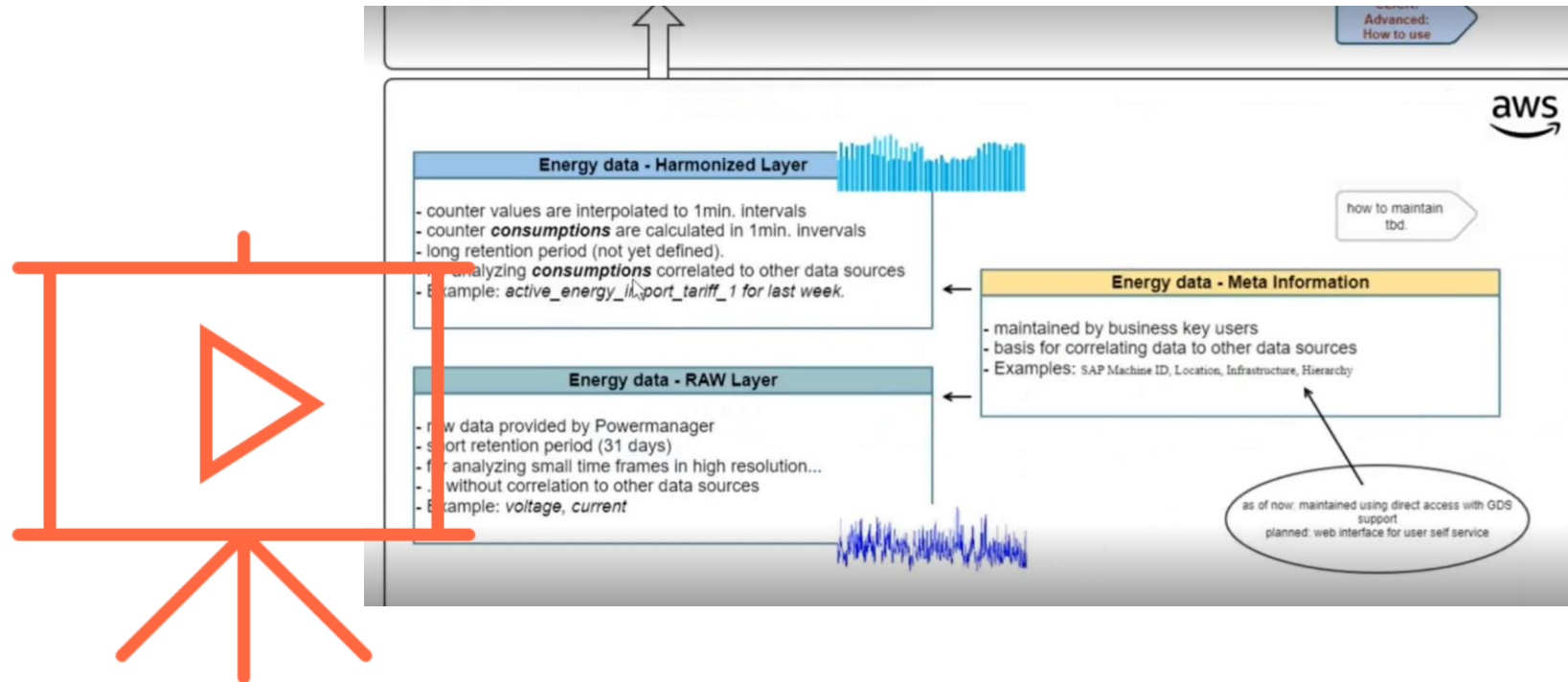
Next steps:

- Adjustment of generic function of the harmonizer to serve even more data
- Build on scalable AI function like drift detection

Summary:

- Incremental steps to enable for data analytics as close as possible to the user
- Rather run in performance issues and have a measureable target to achieve than having no clear requirements or too sophisticated requirements

Video example Energy Mgmt.



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Thank you for your attention

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