



Ambient assisted living for elderly people

Here for you today



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Challenge



Vision

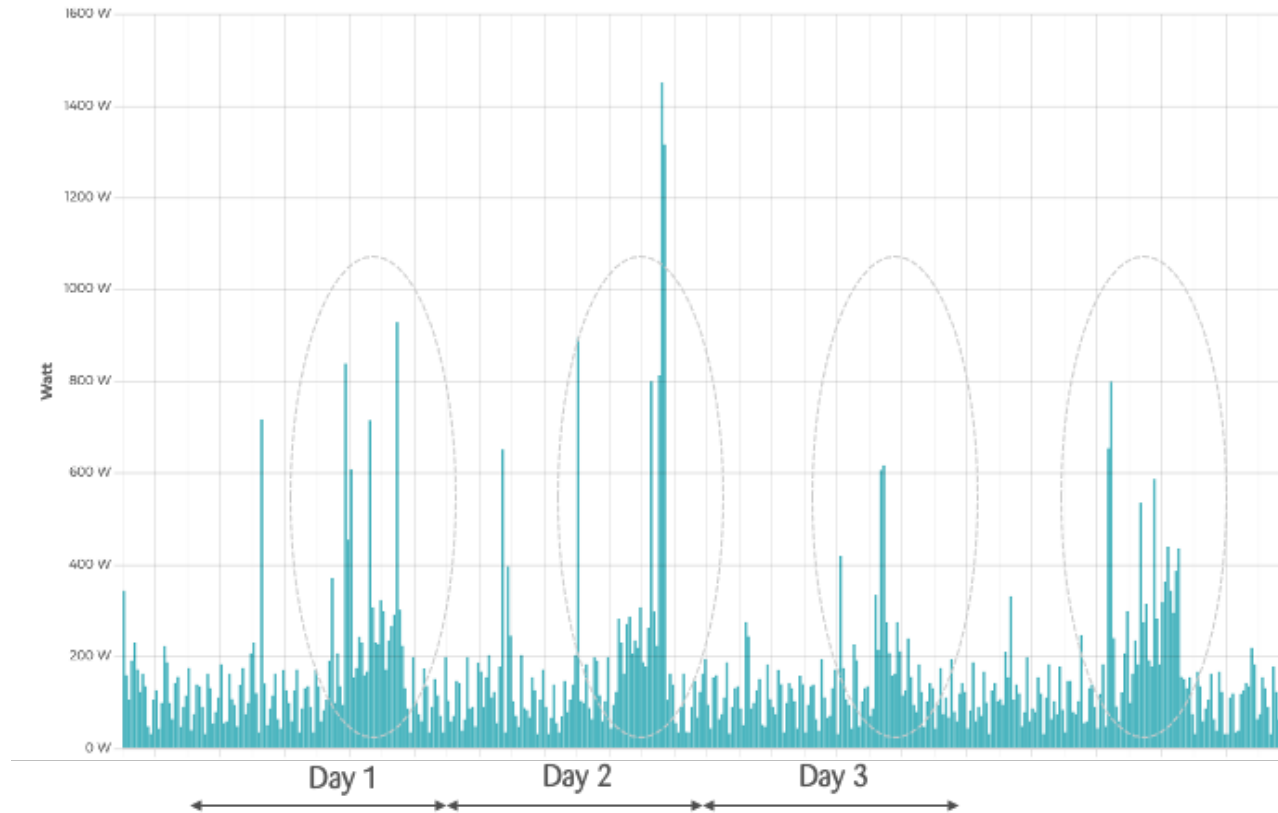
Siima - Sicherheit im Alltag – Safety at home



- Satisfy needs of both sides
 - Enable independent & safe life at home
- Provide additional safety net at home, via ambient assisted living system
 - Passive
 - Invisible

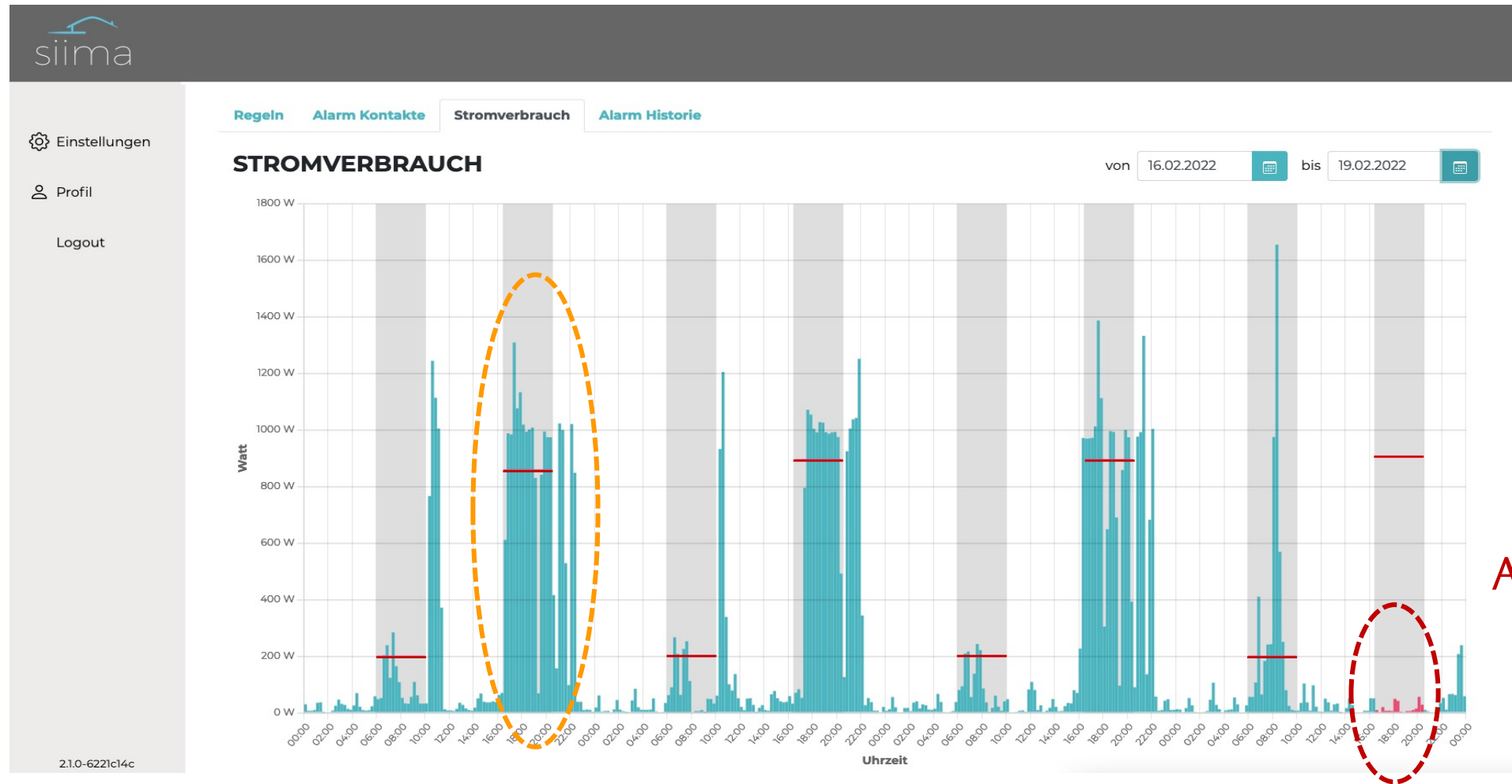
Idea

Siima



- Use power consumption data (smart meter)
- Detect patterns in daily behaviour
 - Coffee in the morning
 - Preparing lunch
 - TV after dinner
- When pattern is not met -> notify

SIIMA Application



Rule = Time Window + Threshold

SIIMA Application

The screenshot displays the SIIMA application interface. At the top left is the 'siima' logo. A sidebar on the left contains navigation options: 'Bewohner', 'Installationen', 'Alarmer', 'Einstellungen', 'Profil', and 'Logout'. The main content area features a tabbed interface with 'Regeln' selected, alongside 'Alarm Kontakte', 'Stromverbrauch', and 'Alarm Historie'. Below the tabs, the 'REGELN' section is visible, including a 'Regel erstellen' button and a table of active rules. The table has columns for 'Bezeichnung', 'Zeitraum', 'Alarmierung', 'Regel aktiv', and 'Regel optimieren'. Two rules are listed: 'Abendaktivität' and 'Aufstehen', both with active status indicators and edit/delete icons. A legend at the bottom right shows a checked toggle for 'Alle Regeln aktiv'.

siima

Bewohner

Installationen

Alarmer

Einstellungen

Profil

Logout

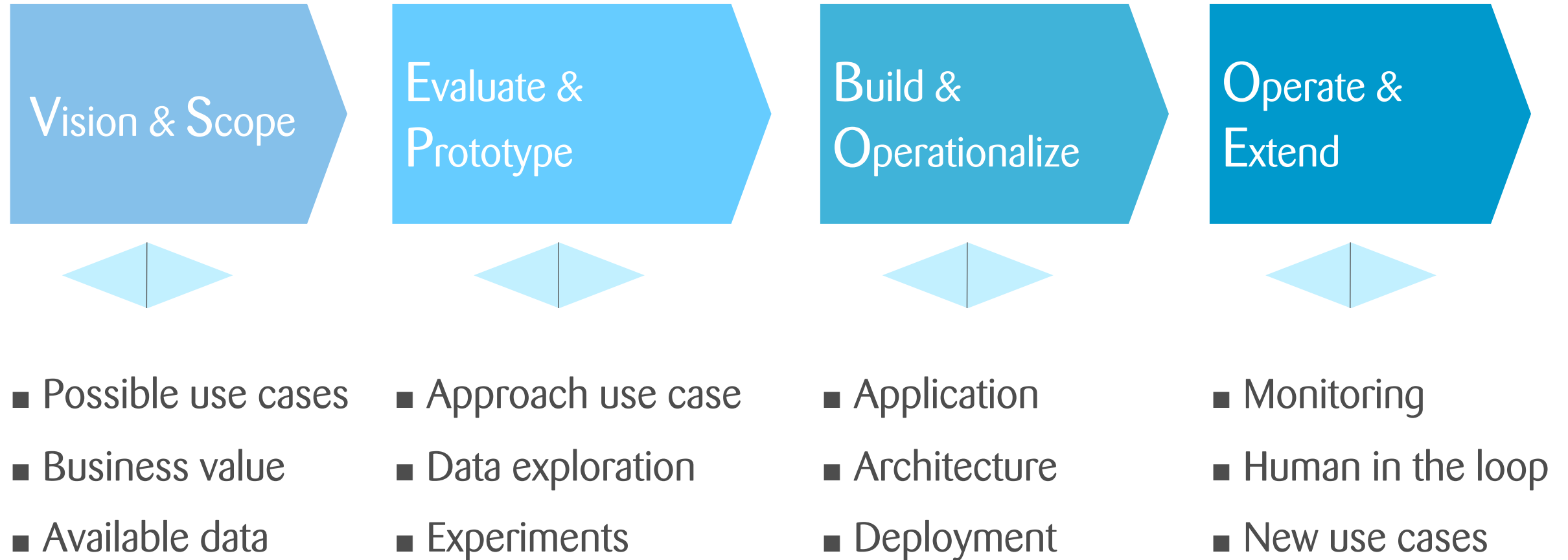
Regeln Alarm Kontakte Stromverbrauch Alarm Historie

REGELN Regel erstellen

Bezeichnung	Zeitraum	Alarmierung	Regel aktiv	Regel optimieren
Abendaktivität	Mo, Di, Mi, Do, Fr, Sa, So 19:00 - 22:00	Alarm bei Inaktivität (Wert 205 Watt)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aufstehen	Mo, Di, Mi, Do, Fr, Sa, So 05:00 - 09:00	Alarm bei Inaktivität (Wert 195 Watt)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

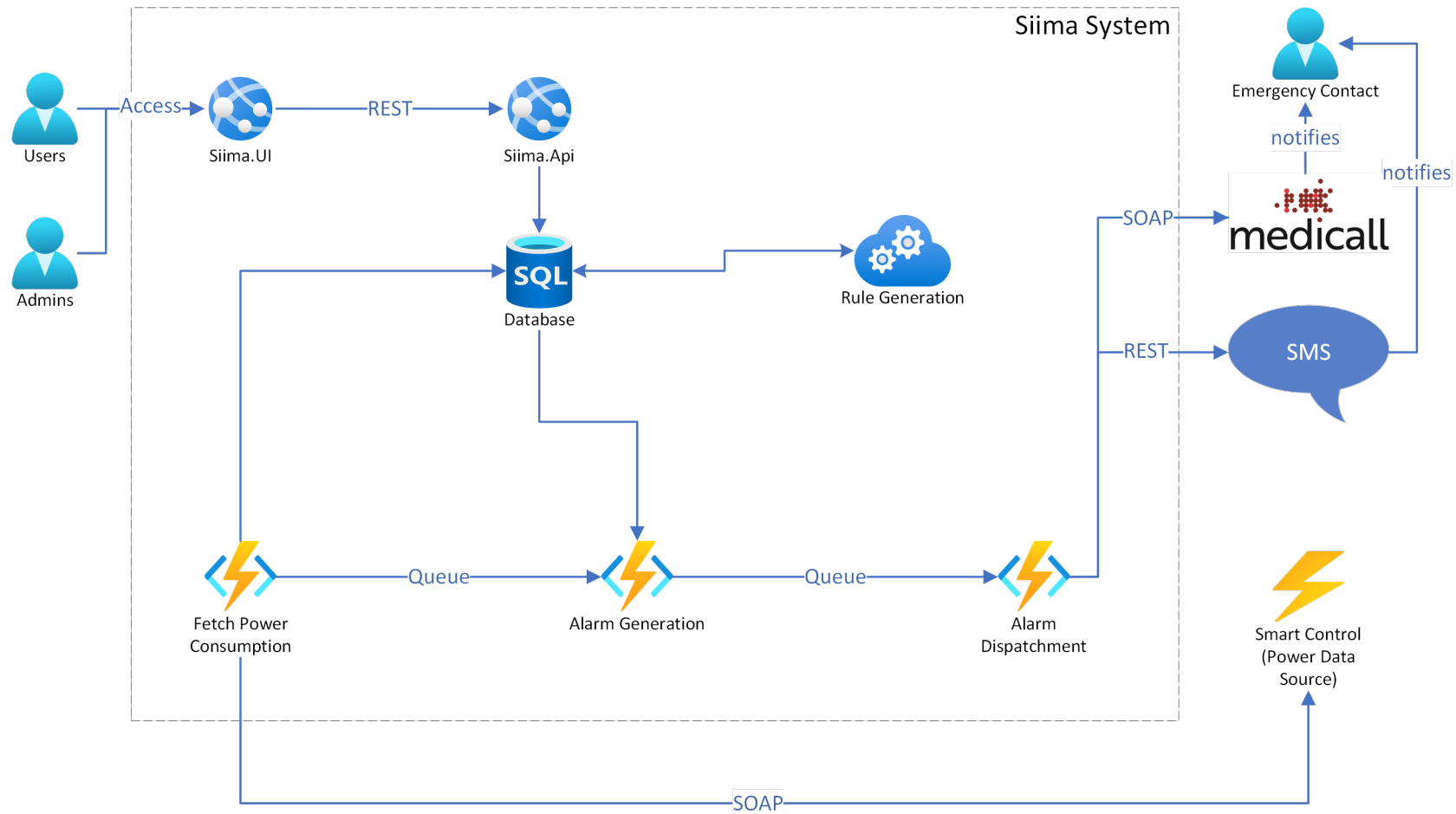
Alle Regeln aktiv

Zühlke Machine Learning Process

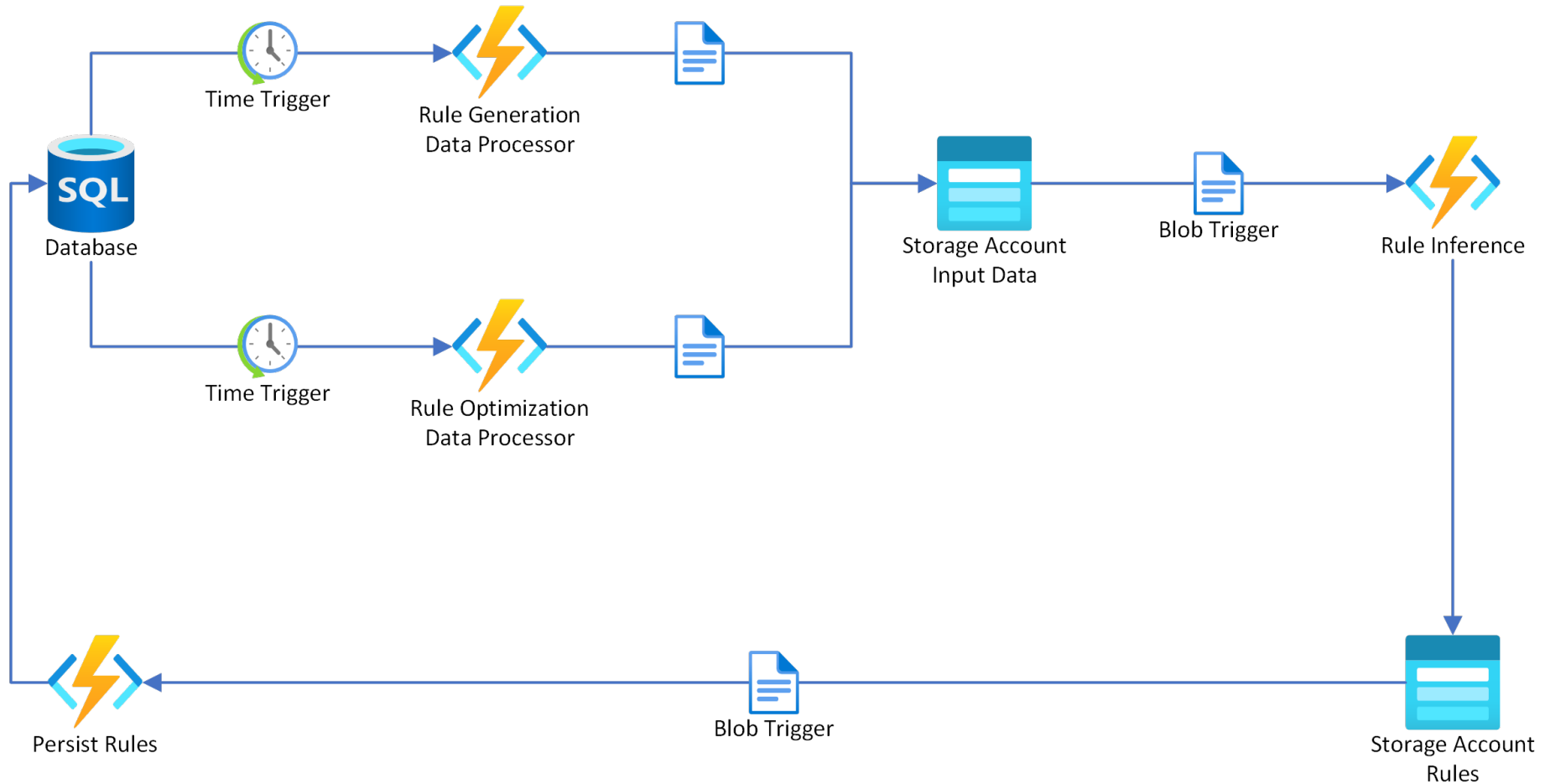


Siima Architecture Overview

A Cloud Native Azure Architecture



Siima ML and Preprocessing Overview



Let's use AI for good

Do you have any questions about SIIMA?



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Do you have a challenge we can help you with?



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Visit us at the Zühlke booth

We are at your disposal



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