AIQA

Ready your data

The AI Quality Assistant

AIQA

- AIQA is a machine learning based data quality tool.

- Helps to automate repetitive corrections

- Retain your expert knowledge

- Audit trail and full control over your data

- Budget friendly, scalable solution

Example Use Cases:

1. Correction of incompatible data
Data is received from a foreign subsidiary. The customer data in the database is Arabic. During the ETL process it could not be interpreted and has become an invisible character. The system would not be able to process the character and any further processing could cause a crash. The character is invisible to the naked eye.

AIQA detects deviations from allowed patterns even when they are invisible.

2. Correction of input from legacy and external systems
A legacy inventory system from an automotive supplier contains outdated classifications for its parts. The parts are part of a longer inventory chain. As a result, the whole chain is becoming corrupted.
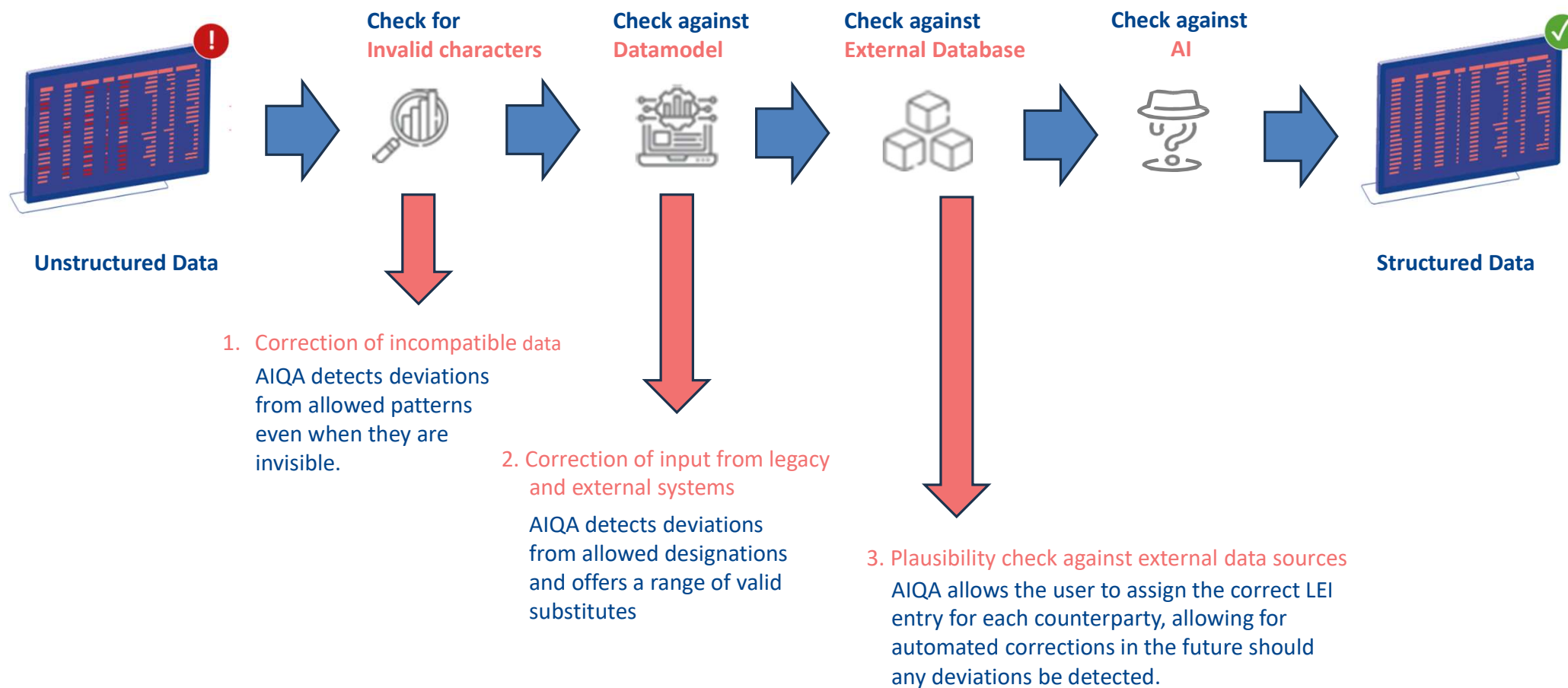
AIQA detects deviations from allowed designations and offers a range of valid substitutes. Once the choice has been made , AIQA learns and applies the correct value independently in the future.

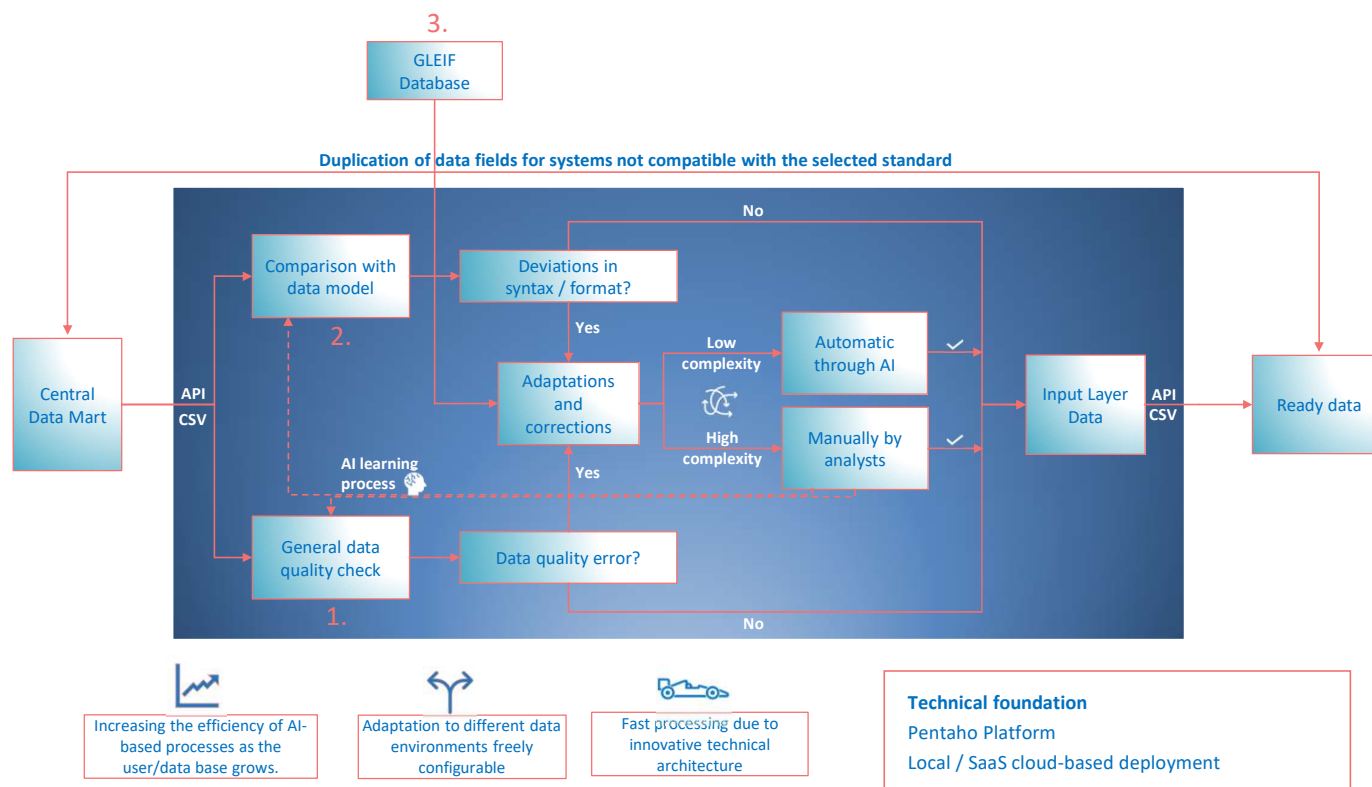**3. Plausibility check against external data sources**
A counterparty of a trade is registered with outdated data. Reporting the trade like that would be registered as a compliance violation.

AIQA allows the user to assign the correct LEI entry for each counterparty, allowing for automated corrections in the future should any deviations be detected.

Automated Data Quality in 3 Easy Steps

AIQA

Unstructured Data

Check for Invalid characters

Check against Datamodel

Check against External Database

Check against AI

Structured Data

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AIQA flow – how it works

AIQA

3.

GLEIF Database

Duplication of data fields for systems not compatible with the selected standard

Comparison with data model

Deviations in syntax / format?

No

2.

Central Data Mart

API CSV

Yes

Adaptations and corrections

Low complexity

Automatic through AI

High complexity

Manually by analysts

Input Layer Data

API CSV

Ready data

AI learning process

Yes

General data quality check

Data quality error?

No

1.

Increasing the efficiency of AI-based processes as the user/data base grows.

Adaptation to different data environments freely configurable

Fast processing due to innovative technical architecture

Technical foundation
Pentaho Platform
Local / SaaS cloud-based deployment

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