

HENSOLDT Services

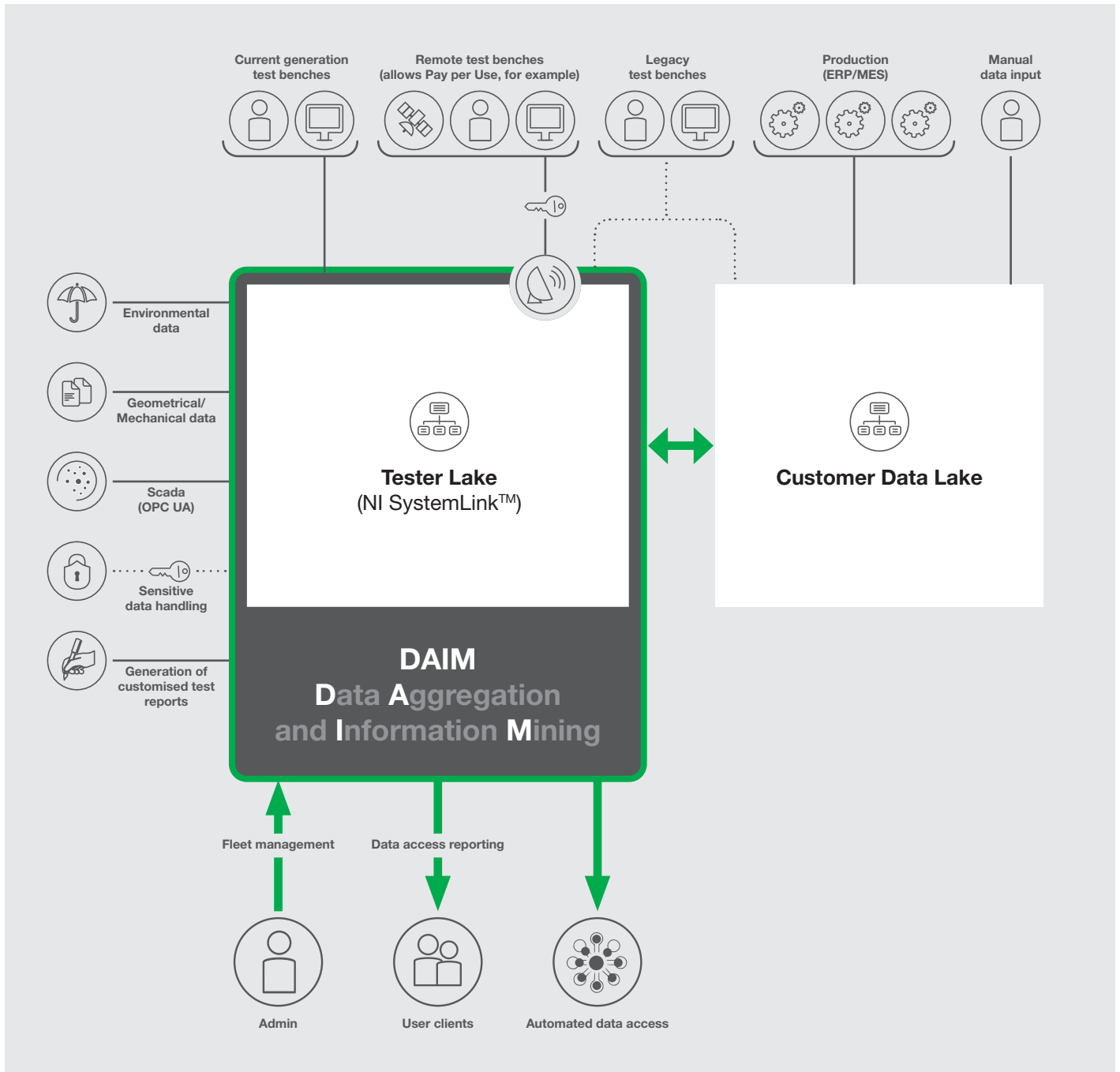
Data Aggregation and Information Mining (DAIM) for Testing Solutions

Data driven decisions throughout the company

Industrial Internet of Things (IIoT) in a testing environment

Features:

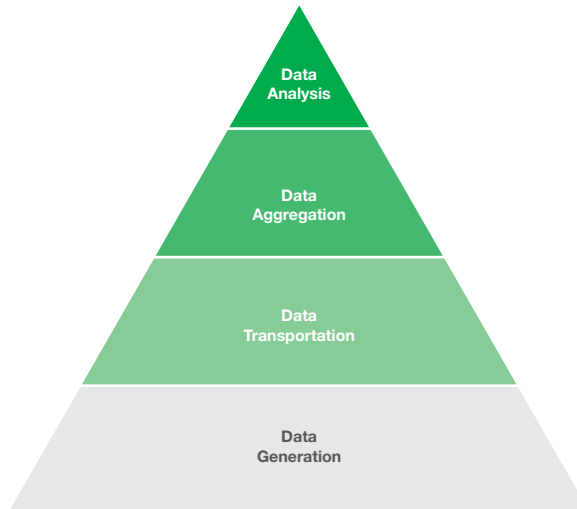
- Test system fleet management
- Live monitoring & reporting
- Remote test system support
- Traceability of test system configurations
- Traceability of test results for qualification and certification
- Standard architecture fully extendable depending on customer needs
- Legacy tester support
- Conversion of legacy test data & reports



Extending the COTS base functionality with custom software components to offer an IIoT Testing Solution – moving from a “gut feeling” to a data driven process.

Value proposition

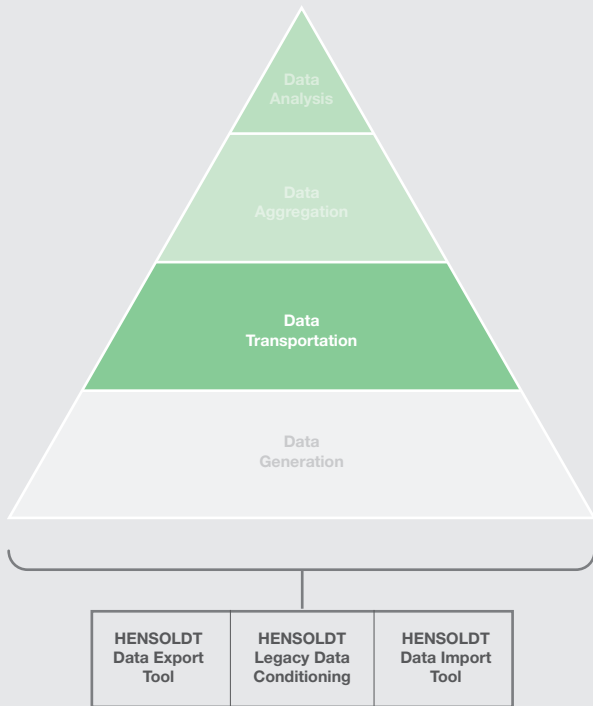
DAIM is the implementation of the top three components of the pyramid. Within the HTP (Hensoldt Tester Platform) the TAC framework covers the data generation layer. Please do not hesitate to request more information and discuss how HENSOLDT Testing Solutions can meet your needs.



Concurrent Engineering		<ul style="list-style-type: none"> • Statistical verification of testing parameters during production ramp-up using limit simulation • Real-time monitoring of test data and process stability
Business		<ul style="list-style-type: none"> • Improved engineering using acquired real data • Reduced cost of non-quality • Optimisation of resource planning (operators, test benches) • Faster response time due to real-time analysis reduces unplanned production interruptions
Operational	Process	<ul style="list-style-type: none"> • Continuous monitoring (SPC) • Process stability can be monitored • Support in planning obsolescence removal and preventive maintenance
	Digitalisation	<ul style="list-style-type: none"> • Standard platform for data driven decisions throughout the entire company • Evolution of isolated data pools to a secure test data infrastructure • Standardised tool to store, handle and analyse huge datasets • GDPR conformity
	IT Security	<ul style="list-style-type: none"> • Data handling of different security levels in the same ecosystem • Optional, custom implementation of project-based sanitisation procedures • Centralised, role-based access to data

DAIM implementations across product and data life-cycle

Data Transportation



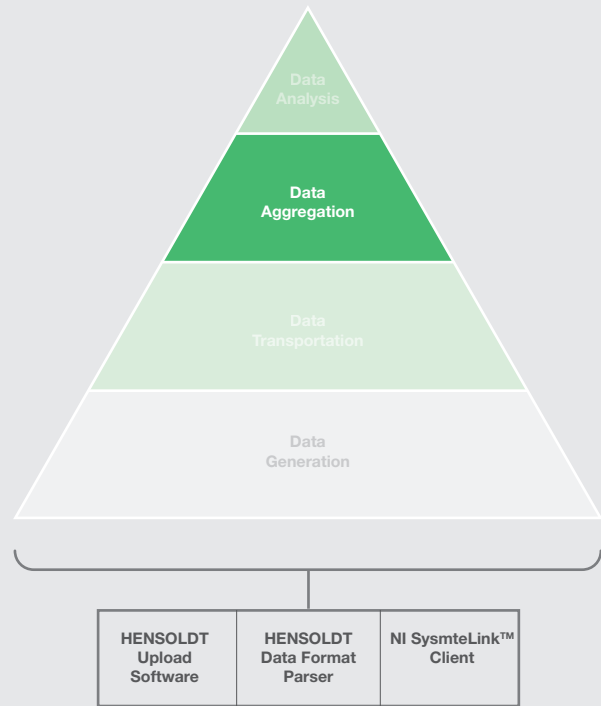
Transportation of data generated on test benches (current generation; legacy tester) or other data sources such as legacy databases and customer data lakes.

Data Transportation includes:

- Tools for collecting asset and configuration-relevant data on data generation level
- Connection to the DAIM server
- Infrastructure to facilitate the transfer of data from the data source to the server in areas without direct network access or sensitive data handling areas including export, sanitisation and upload tools

We look forward to developing a customised solution based on your ecosystem's needs.

Data Aggregation

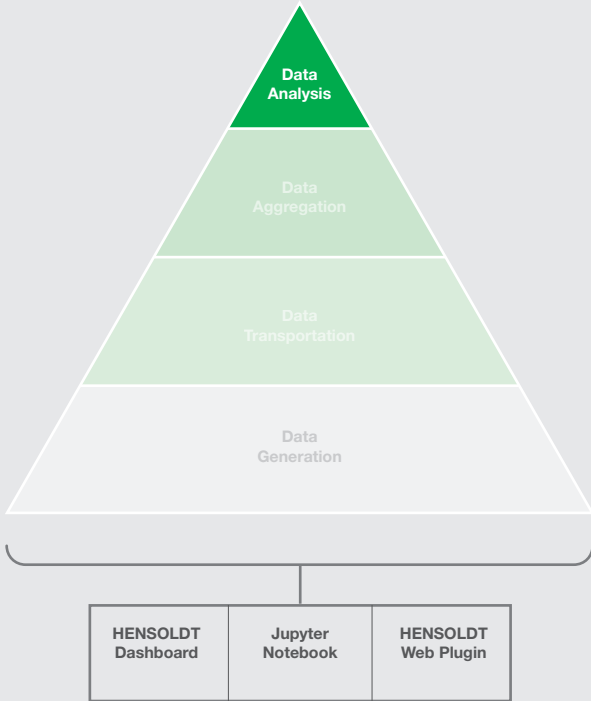


Aggregation of data on a centralised, secure test data infrastructure. This is the precondition that has to be satisfied to enable data correlation.

Data Aggregation allows for:

- Traceability of test system configurations
- Data correlation feasibility across multiple product hierarchies
- Separation of data into workspaces with role-based access and rights management to comply with the need-to-know principle
- Asset management
- Single data format

Data Analysis

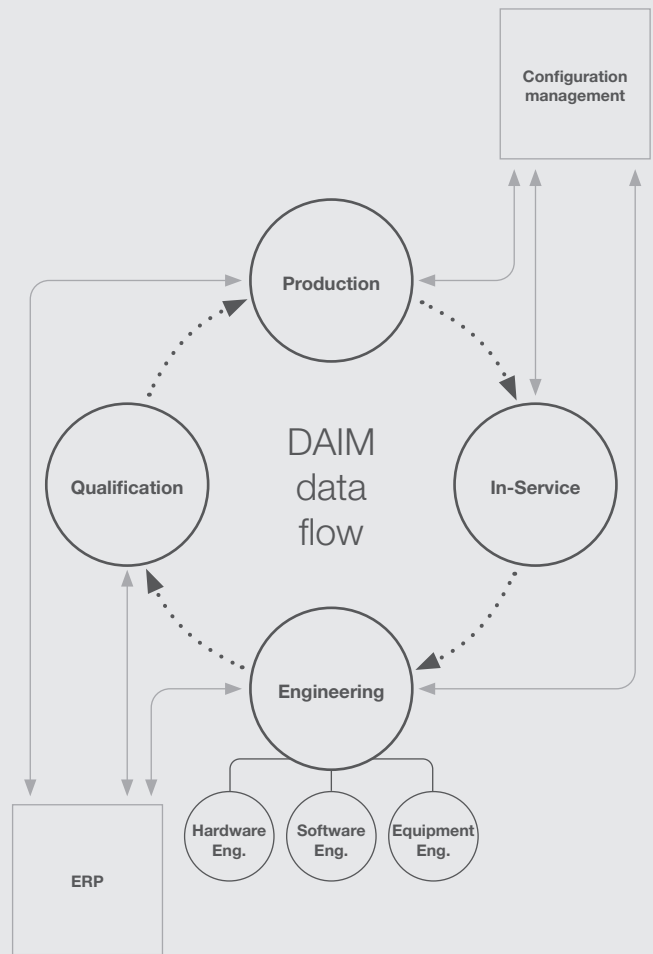
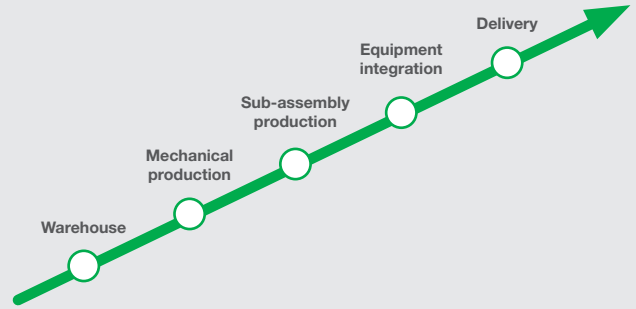


Data analysis routines that extend the shipped functionalities with NI SystemLink™ e.g., automated tester verification, limit prediction and verification, and detection of failure clusters.

Individual analysis features specifically developed for the customer within the DAIM Enterprise layer are available on request.

Data analysis covering the entire product and data life-cycle allow for:

- Real-time monitoring and reporting of test data
- Statistical verification of testing parameters during production ramp-up using limit simulation
- Improved engineering using acquired real data
- Reduced cost of non-quality
- Process stability monitoring (SPC)
- Support in planning obsolescence removal and preventive maintenance
- Transparency for all involved instances

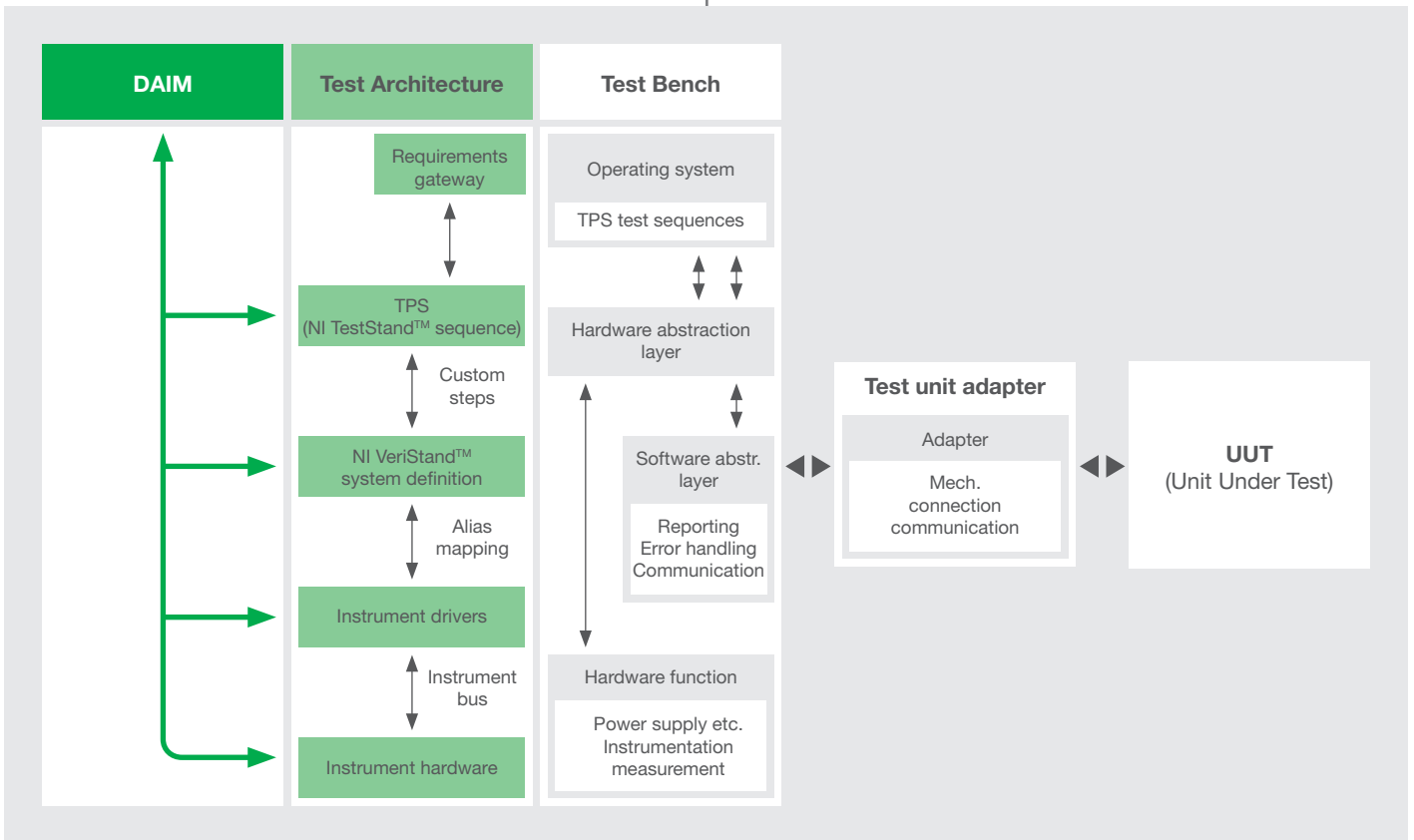
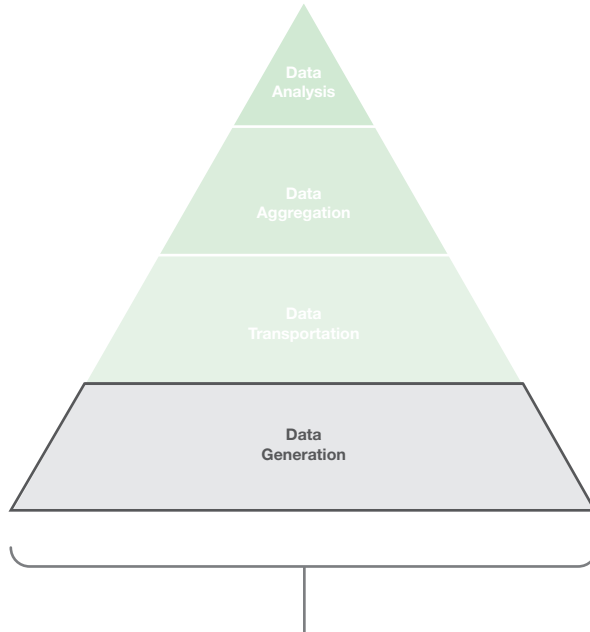


Extending DAIM with testing solutions

Test Automation Centre (TAC)

Design & Integration of test systems:

- 30+ years of experience in designing test systems
- Internal and external customers in the ADG market
- NI TestStand™ framework with tight integration into DAIM
- NI certified staff (CLA, CLD, CTA, CTD)



HENSOLDT Services

Staying operational!

Product support over the whole life-cycle:

- **Integration**
- **Ramp-up**
- **Update**
- **Technical assistance**

Standard services from the HENSOLDT Services portfolio compatible with DAIM. Additional services available and configurable upon request!



Contact us to discuss your individual services and contract types:
services@hensoldt.net
+49 731 / 3923920



Setup and Commissioning



Sustainment Services



Software Maintenance



Training Services



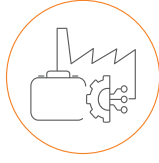
Technical Assistance



Technical Publications

HENSOLDT Services

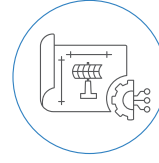
Staying operational!



Maintenance, Repair and Overhaul



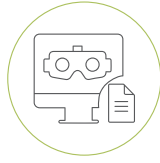
Material Supply



Setup and Commissioning



Technical Assistance



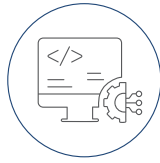
Technical Publications



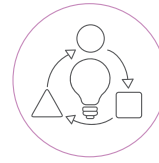
Training Services



Supportability Engineering



Software Maintenance



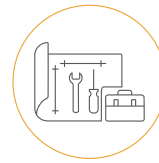
Sustainment Services



Performance Monitoring



Logistics Support Consulting



Special Tooling



Testing Solutions



Simsphere® Simulation Solutions



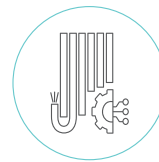
Certification Support



Antenna Services



Shelter Solutions



Cabling Services