



ENGINEER
NEXT

VIP2017

The logo features the words "ENGINEER" and "NEXT" in a bold, white, sans-serif font, stacked vertically. A yellow graphic element, resembling a stylized 'X' or a folded ribbon, is positioned between the two words. To the left of the text, the words "VIP2017" are enclosed in a white rectangular box. The entire logo is set against a blue background with diagonal stripes in various shades of blue, orange, and green.



Standardized Components of Web-based Solutions for Test Planning and Data Management

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Werum Software & Systems

- Based in Lueneburg, Germany
- Three business units:
 - Geo-Data Management
 - Individual Customer Solutions
 - Test & Measurement Process Management
- 120+ employees



The Process of Testing



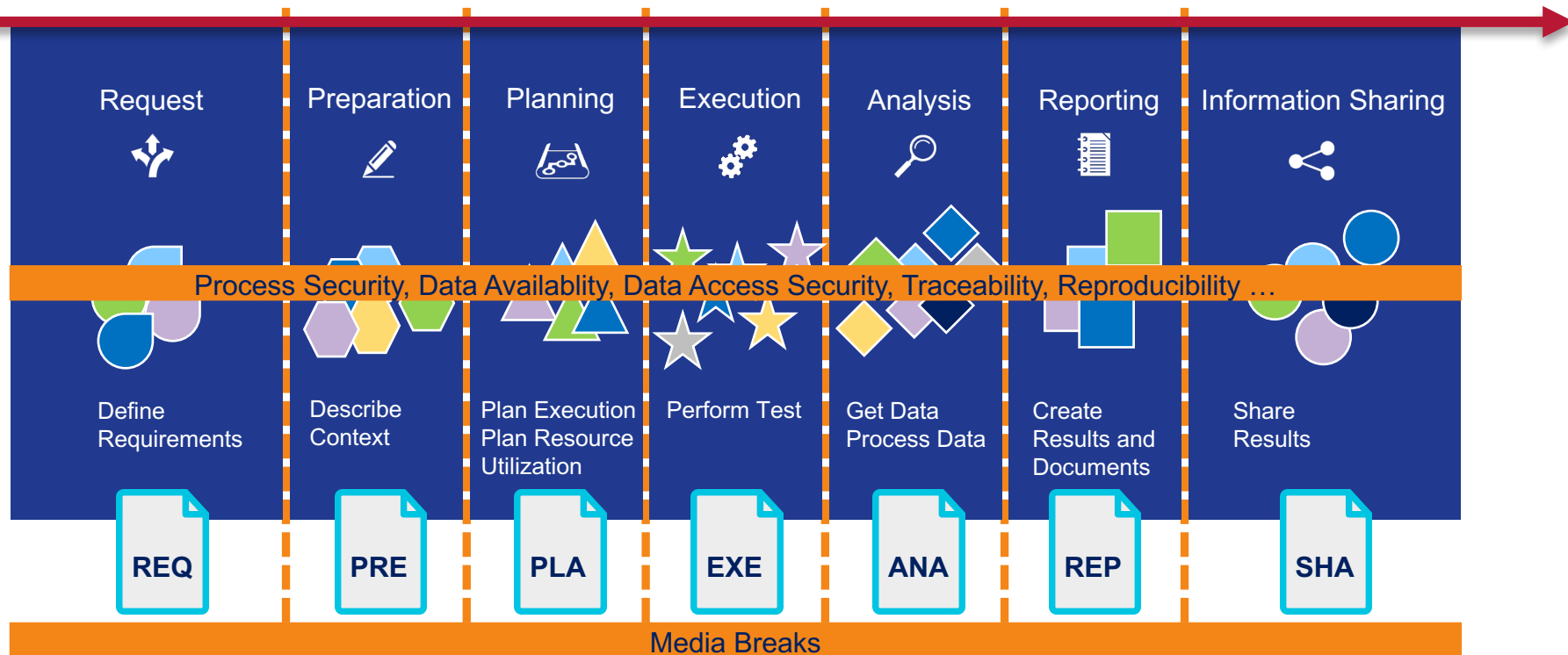
Challenge – Different Tools



Challenge – Different Tools



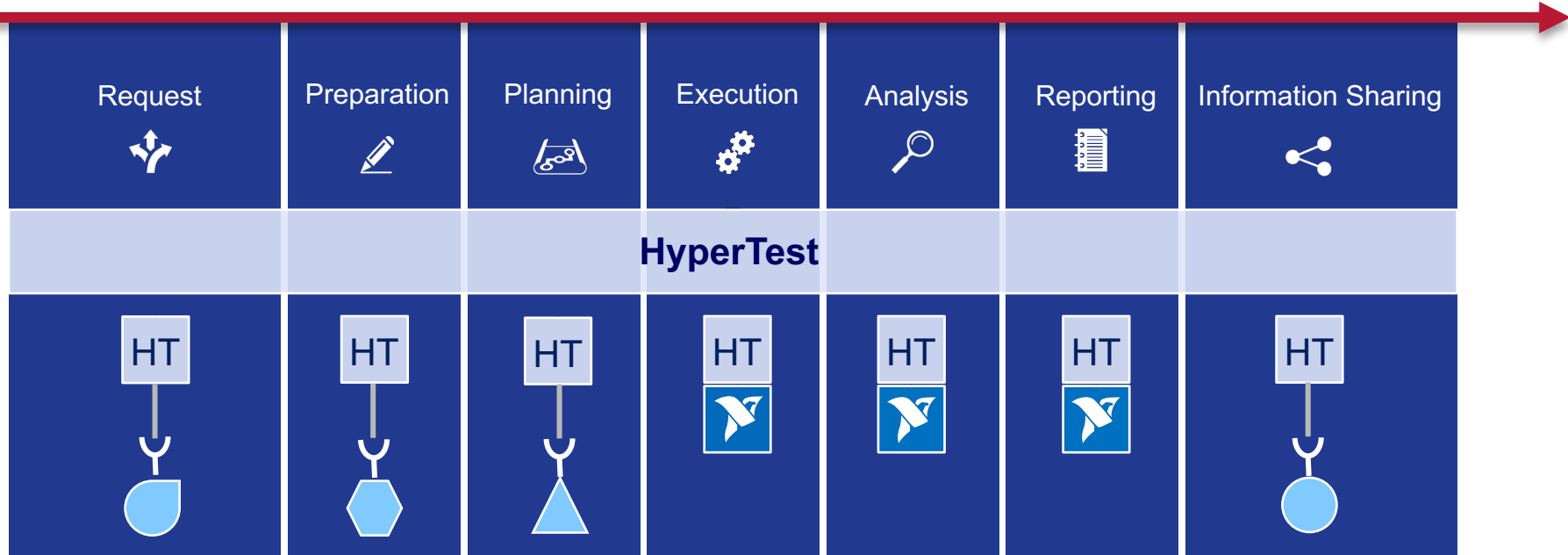
More Challenges...



Strategy: Monolithic System

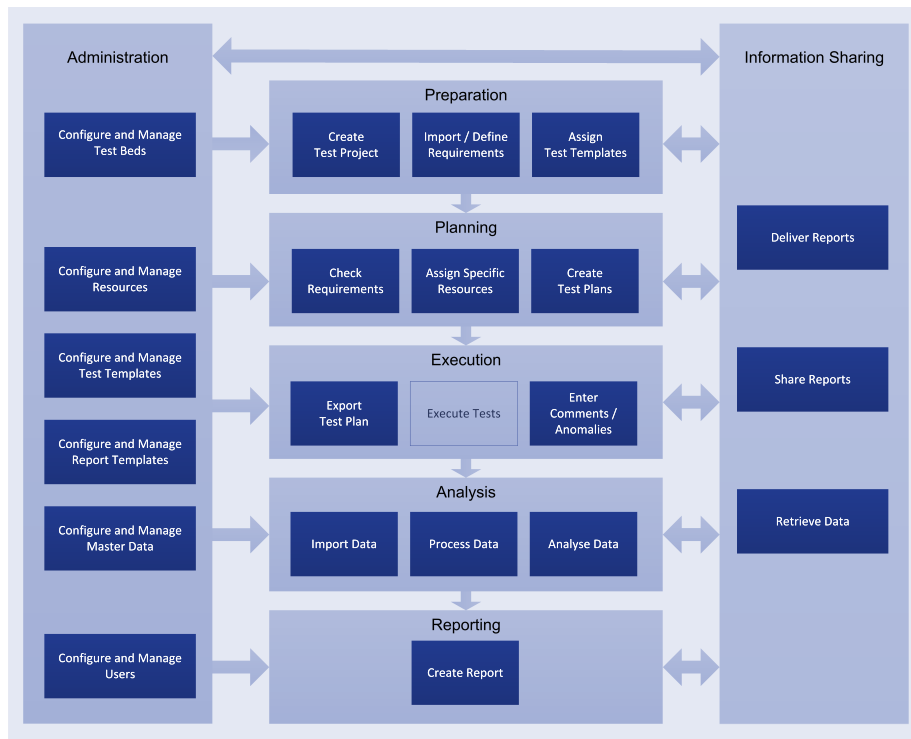


Strategy: Modular Components



- Common backbone with modular and configurable components
- Integration of third-party components into the solution
- Connection to and abstraction of external systems

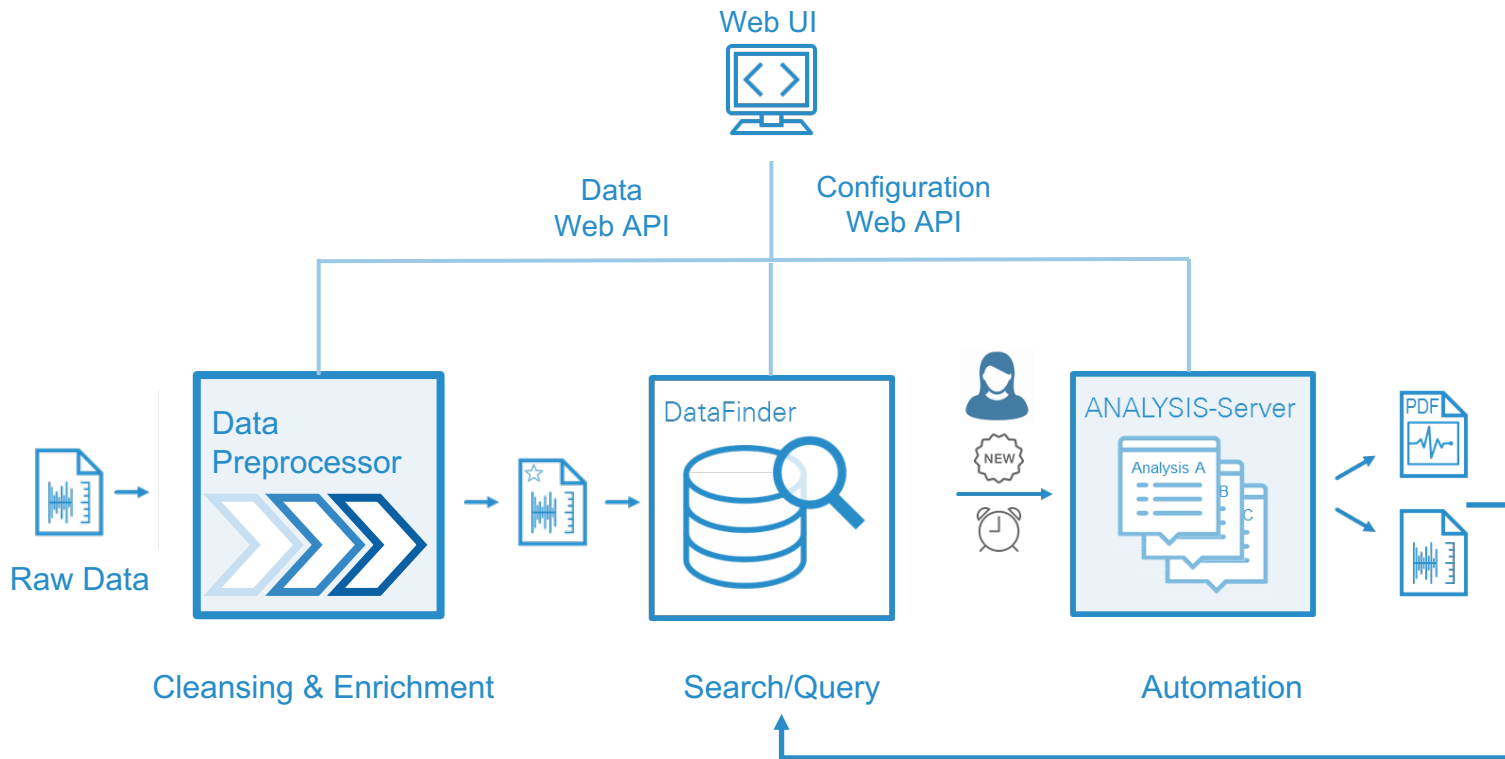
HyperTest



Main Components

- Requirements Management
- Test Definition / Planning
- Asset Management
- Scheduling
- Execution Management
- Data Management
- Analysis
- Reporting
- PDA and Maintenance Management
- Calibration Management

Data Management Software Suite



AnalysisServer WebServer API

The Analysis Server provides an environment so that procedures defined in DIAdem can be executed on a server.

AnalysisServers

[Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

AnalysisProcedures

[Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

GET	/analysisisservers/{as_uuid}/analysisprocedures	Lists all available Analysis Procedures
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POST	/analysisisservers/{as_uuid}/analysisprocedures	Registers a new Analysis Procedure. An Analysis Procedure is represented by a package which contains all relevant runtime files, including: the VBS script that is executed, report templates and all other additional files.
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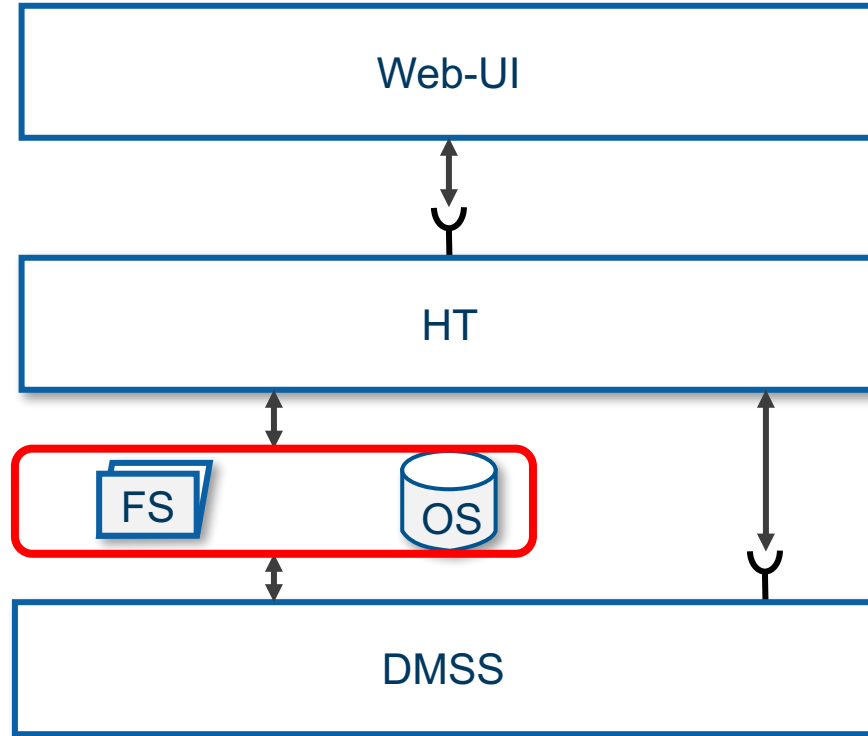
DELETE	/analysisisservers/{as_uuid}/analysisprocedures/{ap_uuid}	Deletes an Analysis Procedure
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GET	/analysisisservers/{as_uuid}/analysisprocedures/{ap_uuid}	Gets Analysis Procedure information
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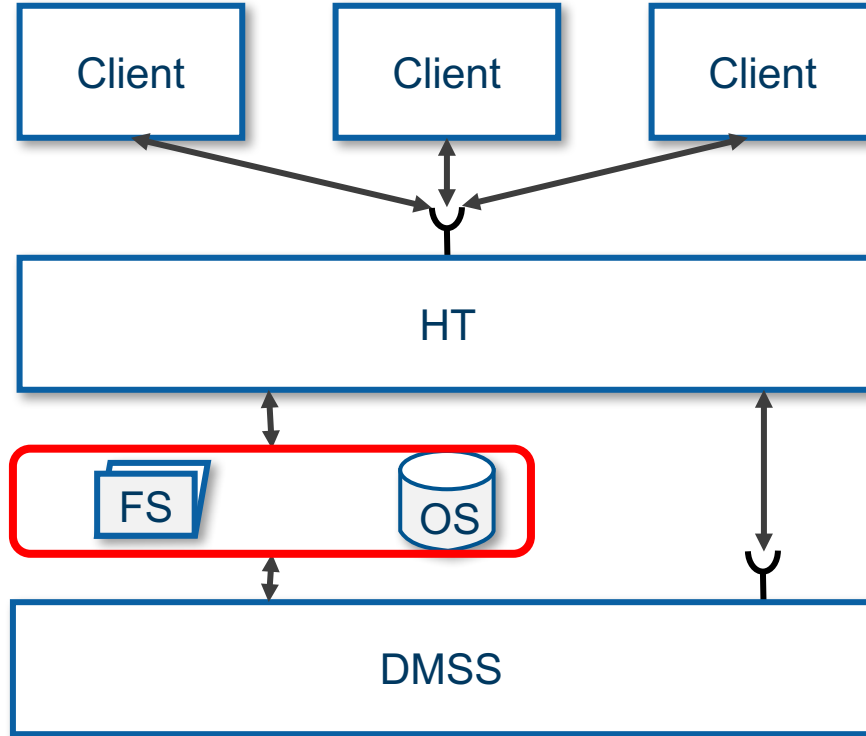
GET	/analysisisservers/{as_uuid}/analysisprocedures/{ap_uuid}/download	Returns the specified Analysis Procedure Package as octet-stream
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POST	/analysisisservers/{as_uuid}/analysisprocedures/{ap_uuid}/update	Updates the existing Analysis Procedure.
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Modular Concept

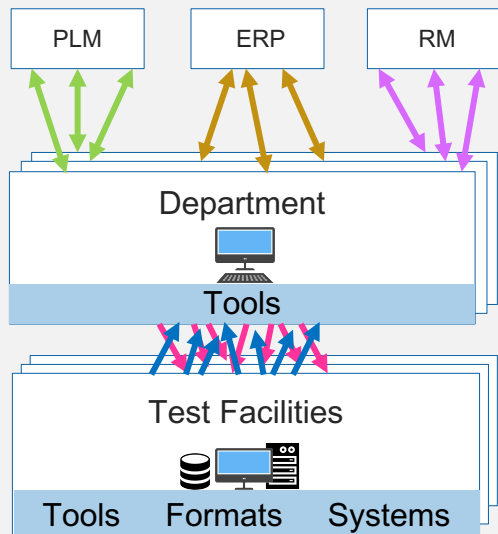


Modular Concept



IT Infrastructure Today

Company Organization

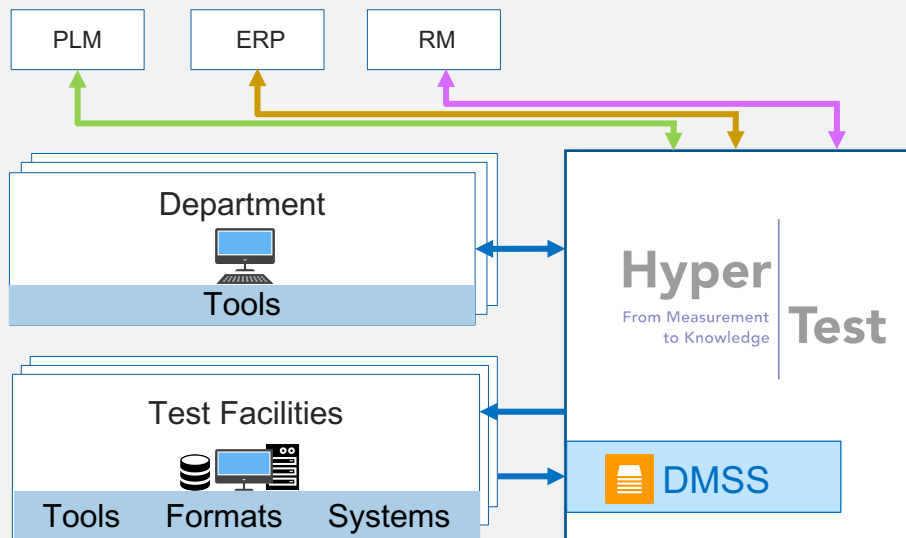


Data Challenges

- Inhomogeneous systems
- Incomplete processes
- Missing traceability
- Lacking reproducibility
- Uncertain process integrity
- Reduced data accessibility
- Low process security
- Long process times
- Tedious manual tasks

Sources: DMSS + HyperTest

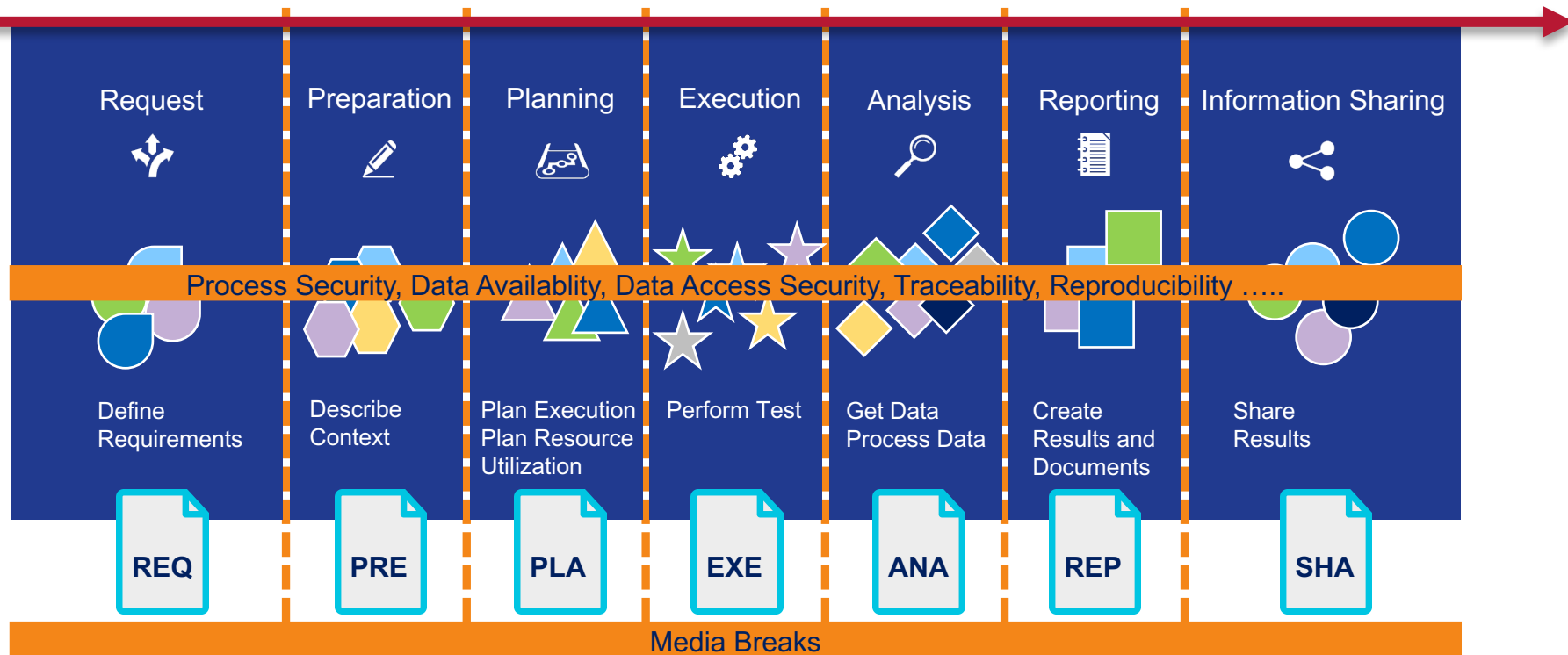
Company Organization



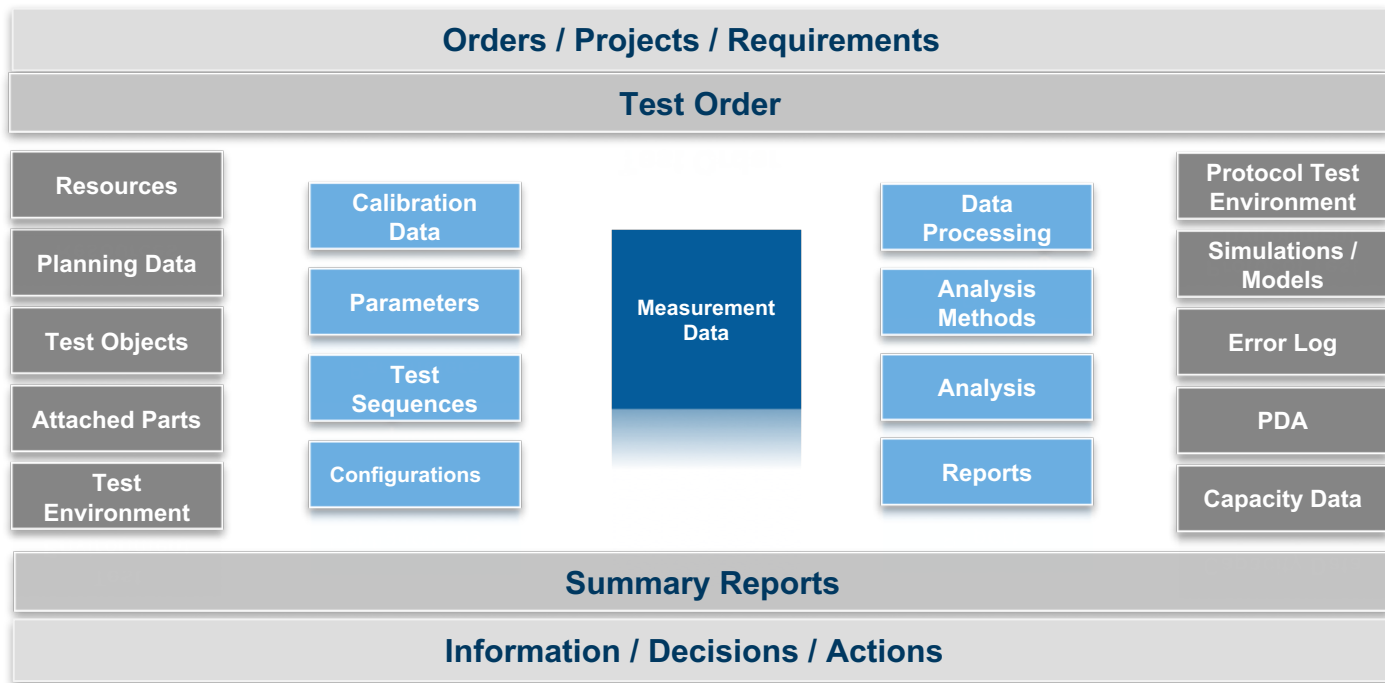
HyperTest

- Integration platform ✓
 - ~~Inhomogeneous system~~
 - ~~Incomplete process~~
 - ~~Uncertain process integrity~~
 - ~~Missing traceability~~
 - ~~Lacking reproducibility~~
- Tenancy ✓
 - ~~Reduced data accessibility~~
 - ~~Low process security~~
- Workflow management ✓
 - ~~Long process times~~
 - ~~Tedious manual tasks~~

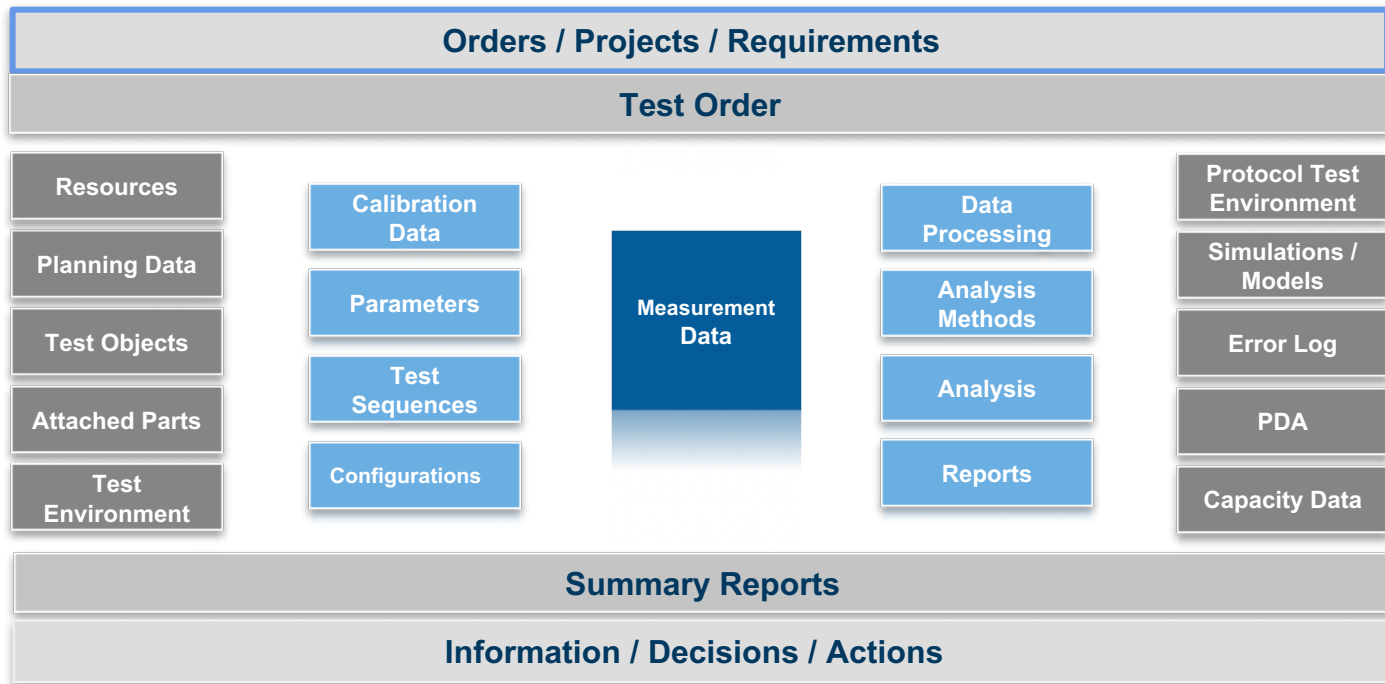
More Challenges...



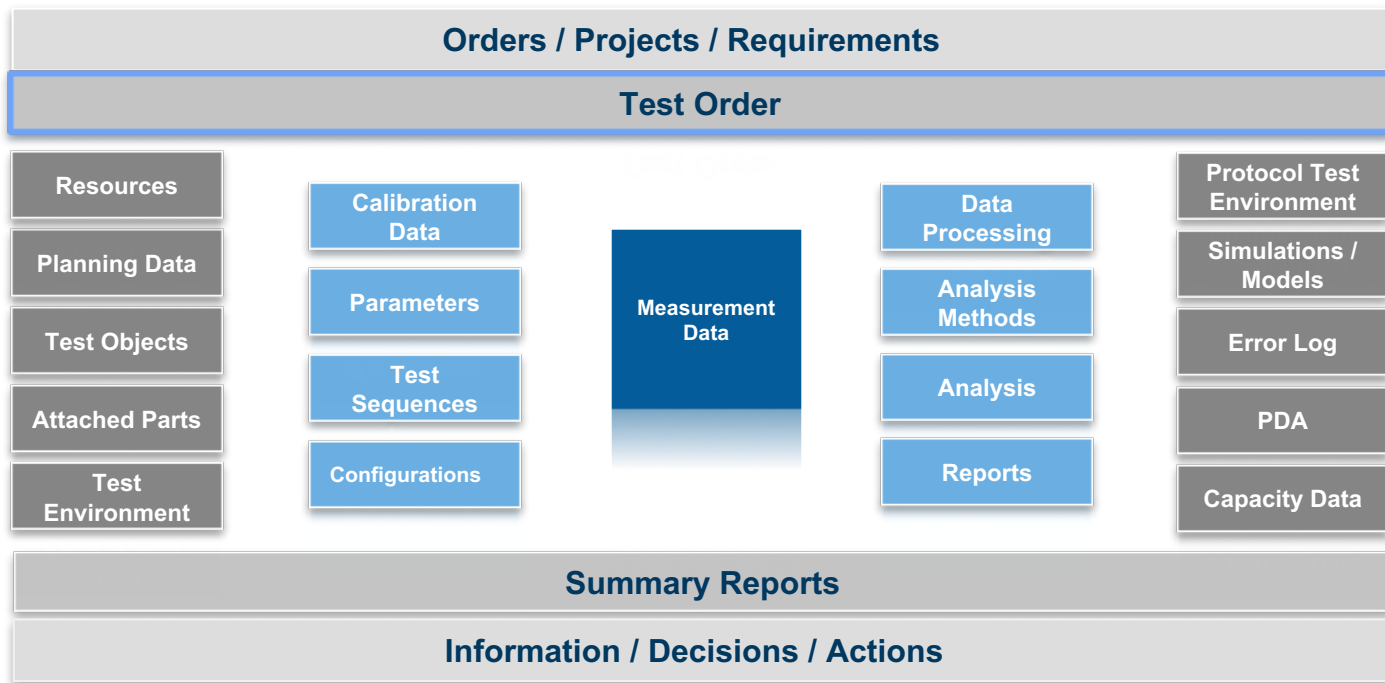
Content: Process Context



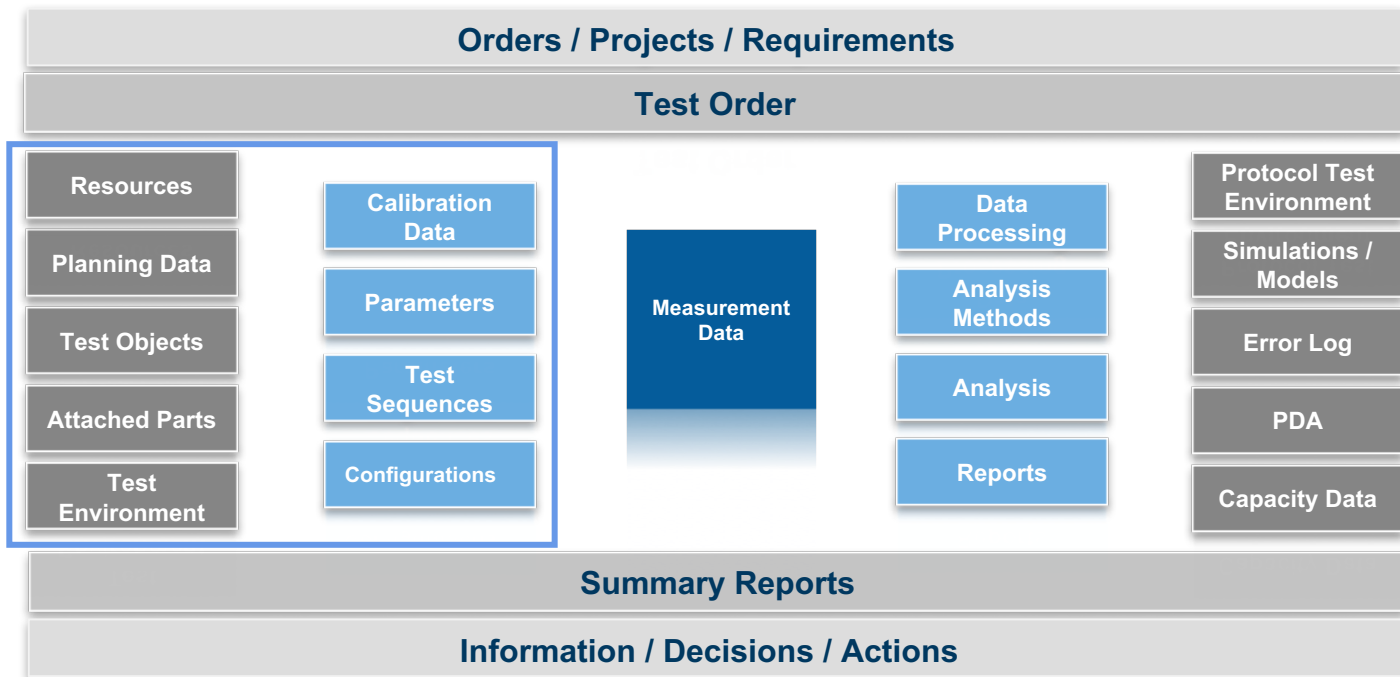
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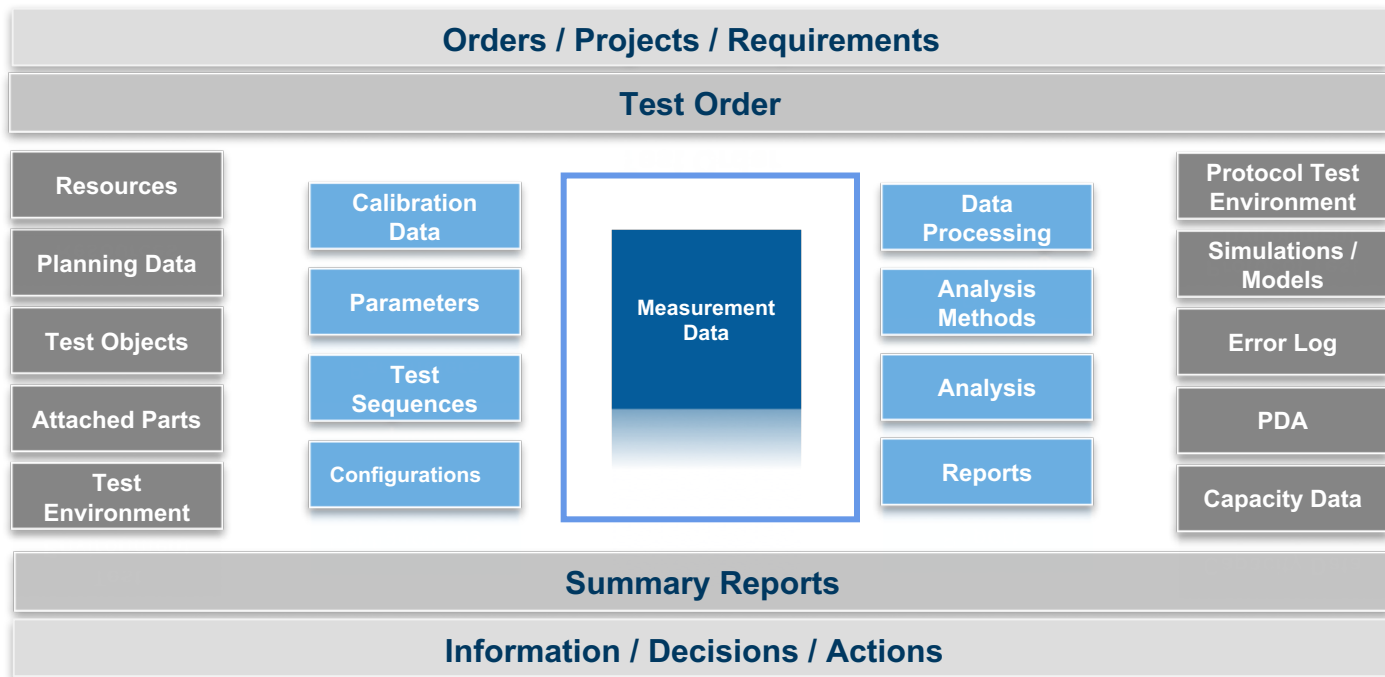
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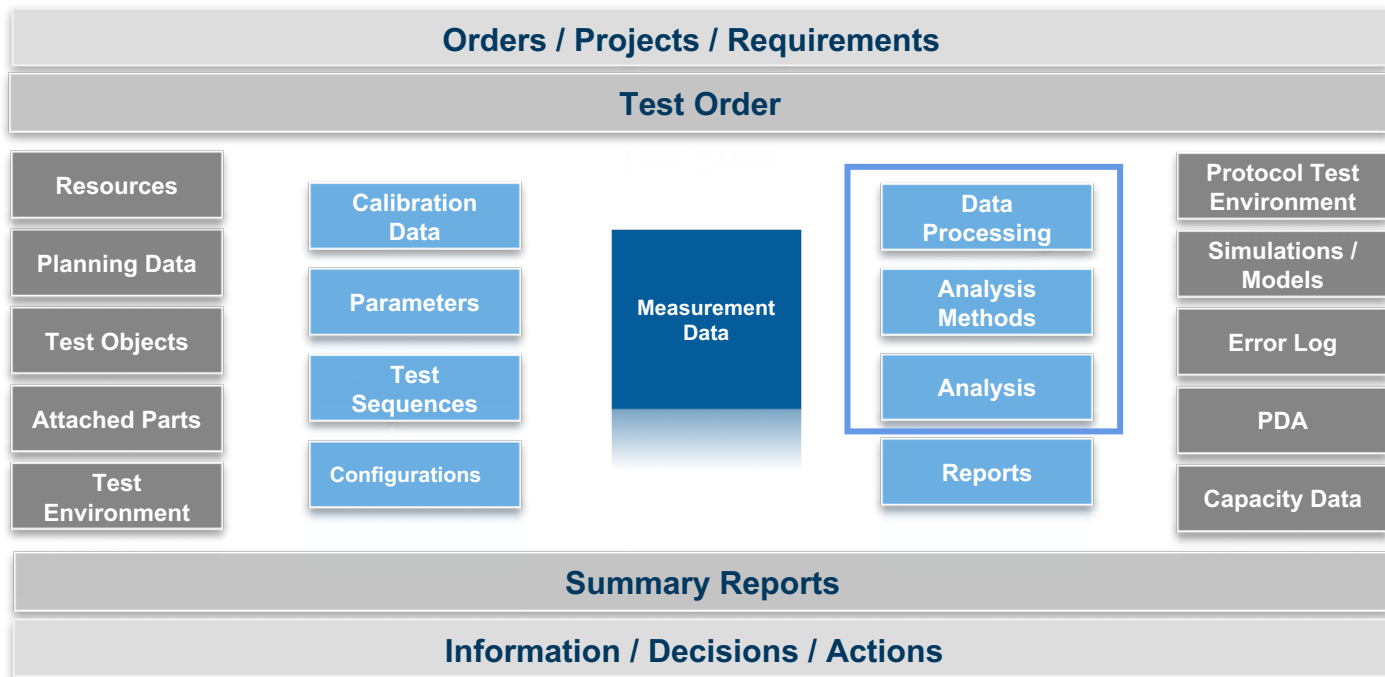
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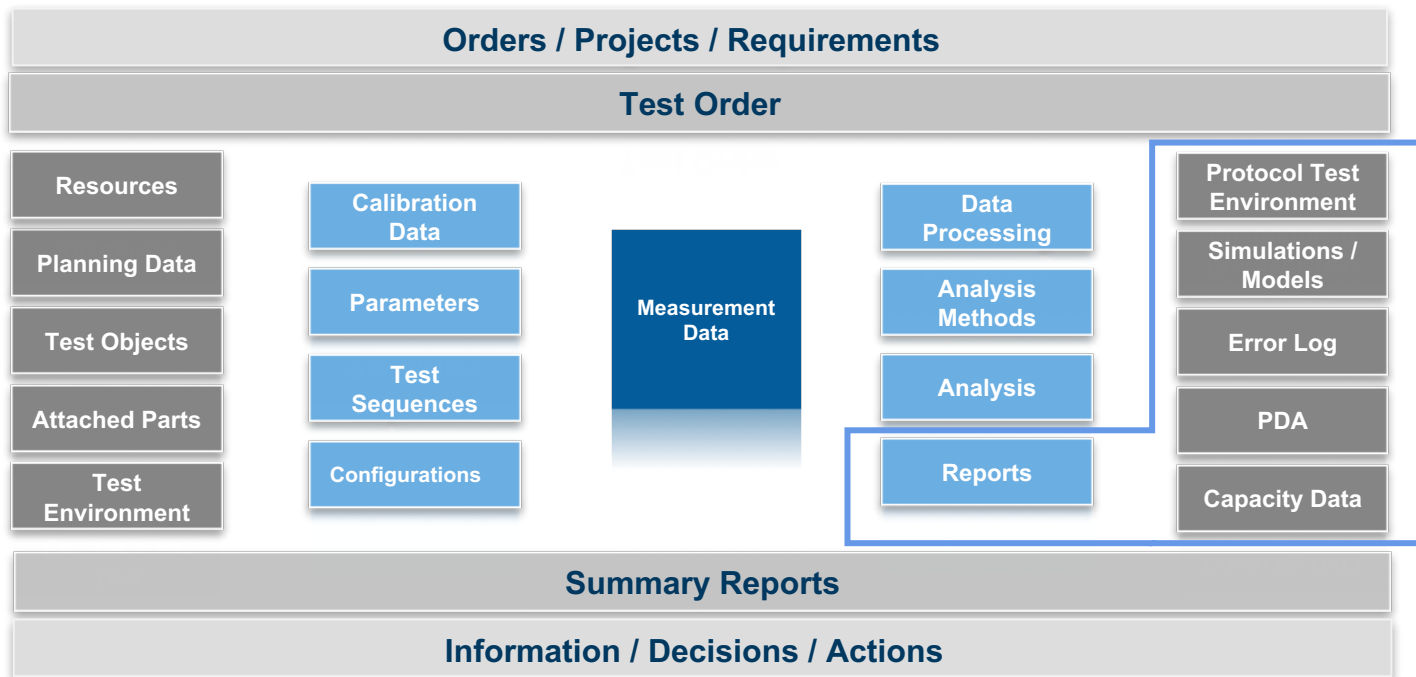
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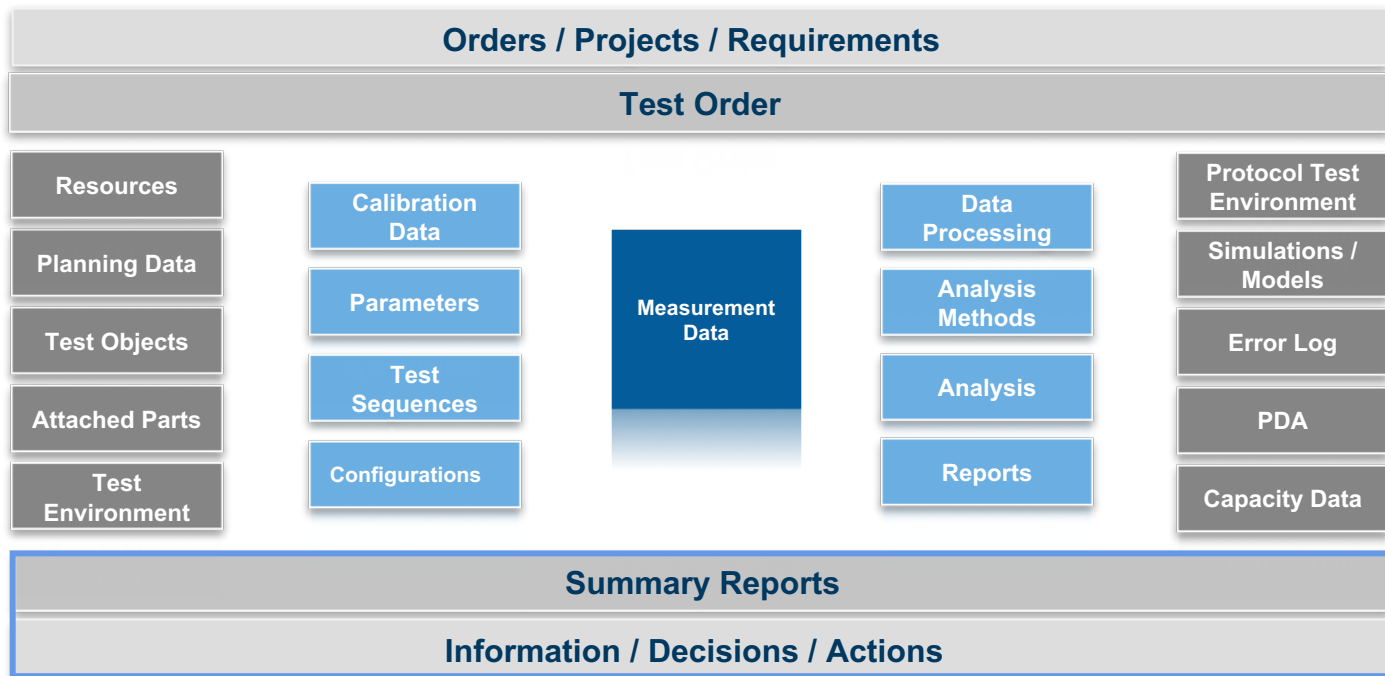
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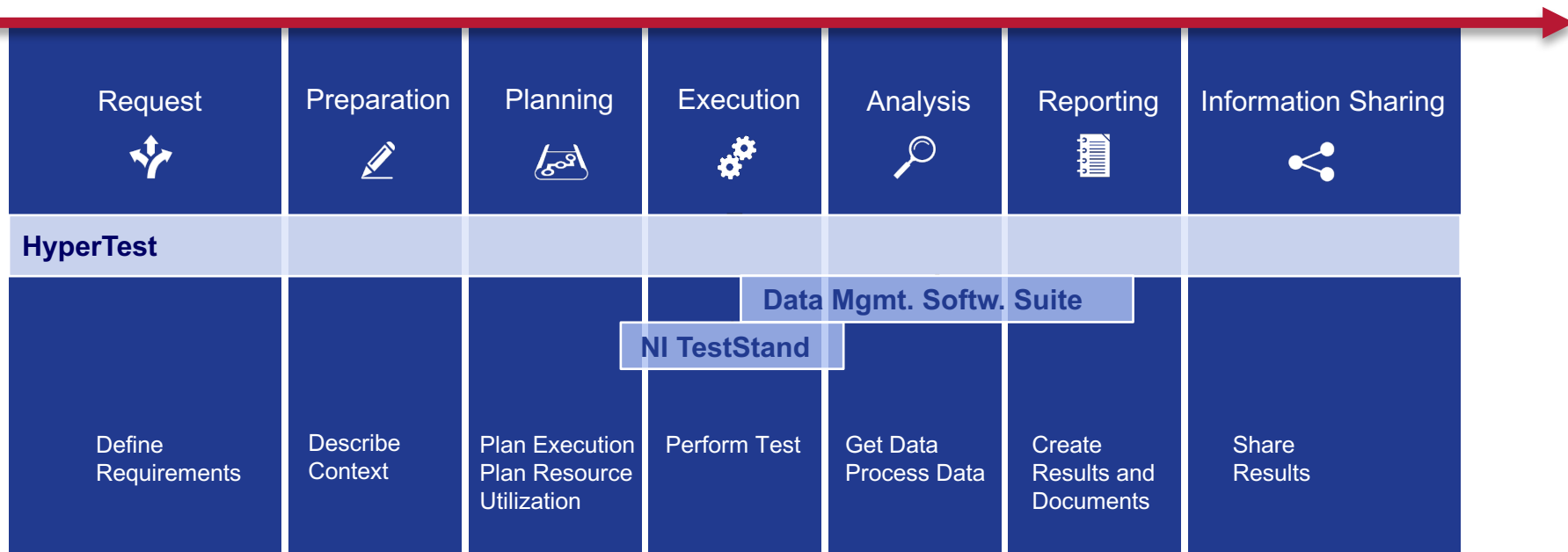
Content: Process Context



Content: Process Context



Strategy: Modular Components



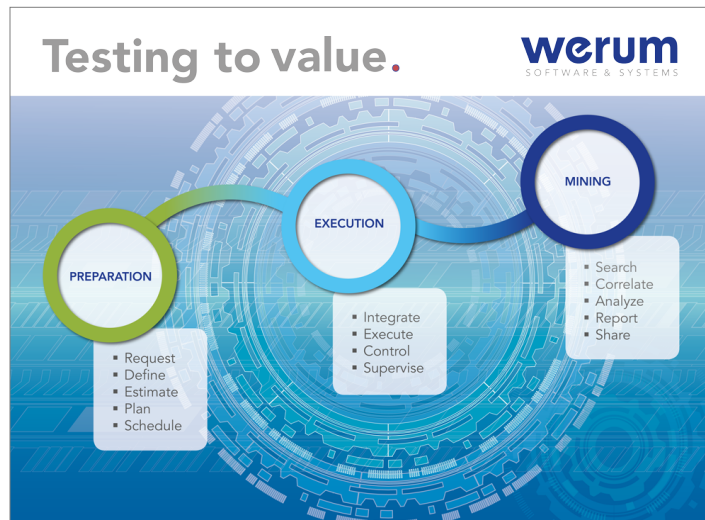
- Modular components with standardized interfaces forming a homogenous system
- HyperTest, Data Management Software Suite and NI Ecosystem work perfectly together forming solutions that meet customers' needs



Next Steps

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