

DSAG Jahreskongress 2005



Verbesserung von Performance und
Stabilität im SAP BW

Intelligentes Stammdatenmanagement und
innovative Backend-Konzepte

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Agenda

- Company Henkel KGaA / cundus AG
- Project Scope and Starting Situation
- Solution with Enterprise Data Warehousing and cundus *DataService*
- Lessons Learned
- Discussion



cundus AG

cundus is the expert for integration of analytical information as well as business conception and implementation of Business Intelligence solutions.

Our target is to connect business and IT.



cundus AG

Founded:	2000
Board:	Peter Neisius Gotthard Tischner Prof. Dr. Peter Chamoni
Employees:	50
Core competence:	Business Intelligence und Business Integration
Range of products:	SAP® NetWeaver™, SAP® BW, SAP® Enterprise Portal, SAP SEM®, Microsoft® BI, arcplan, MIS DecisionWare



Henkel KGaA

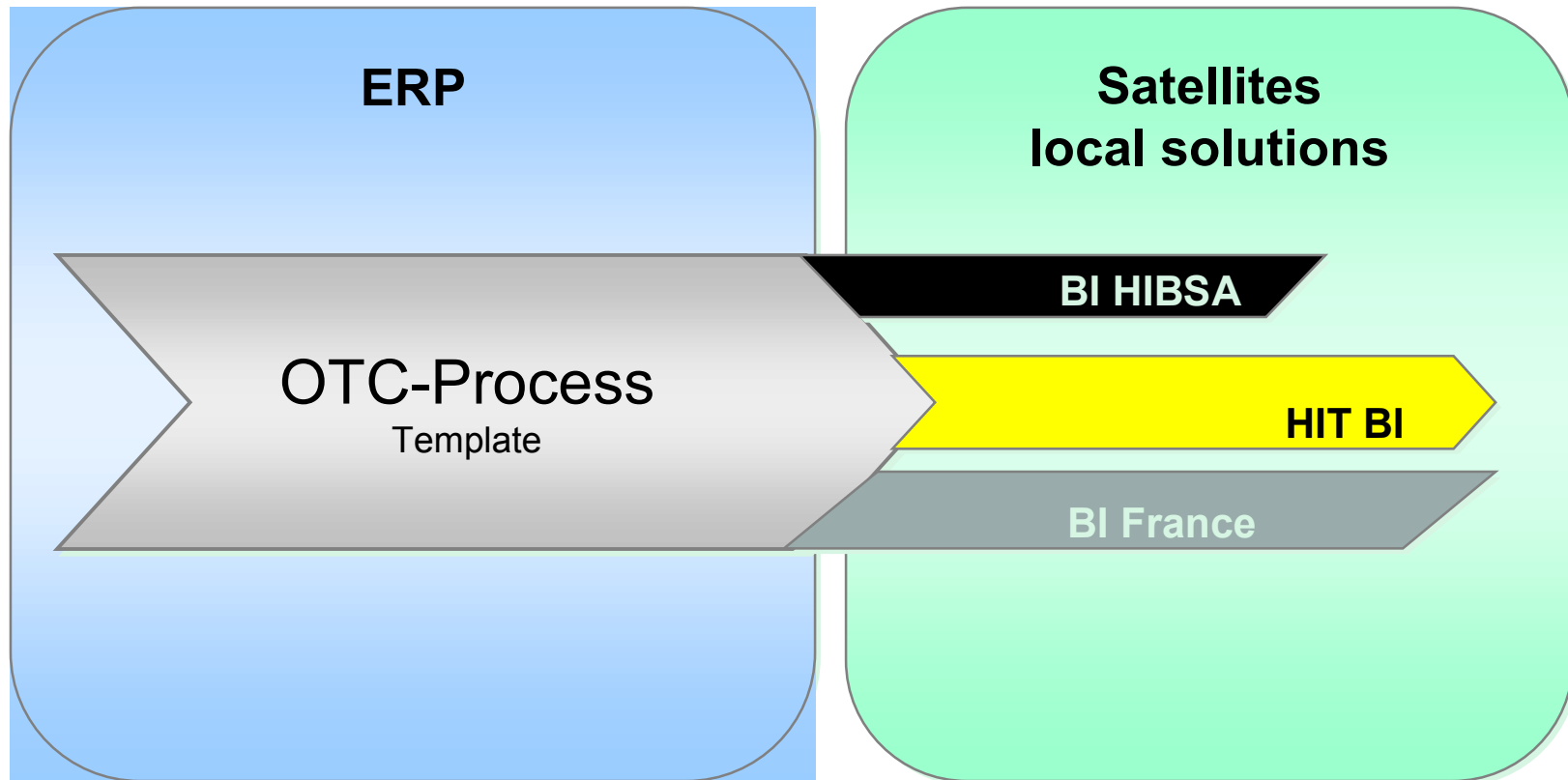
- Henkel is a global brand name manufacturer of
 - Laundry and home care detergents
 - Cosmetics
 - Adhesives
 - Surface technology
- Henkel employs around 51000 people and achieved sales of 10,6 billion Euro in 2004
 - Running subsidiaries in 75 countries
 - Sells products in 125 countries



Business Intelligence at Henkel

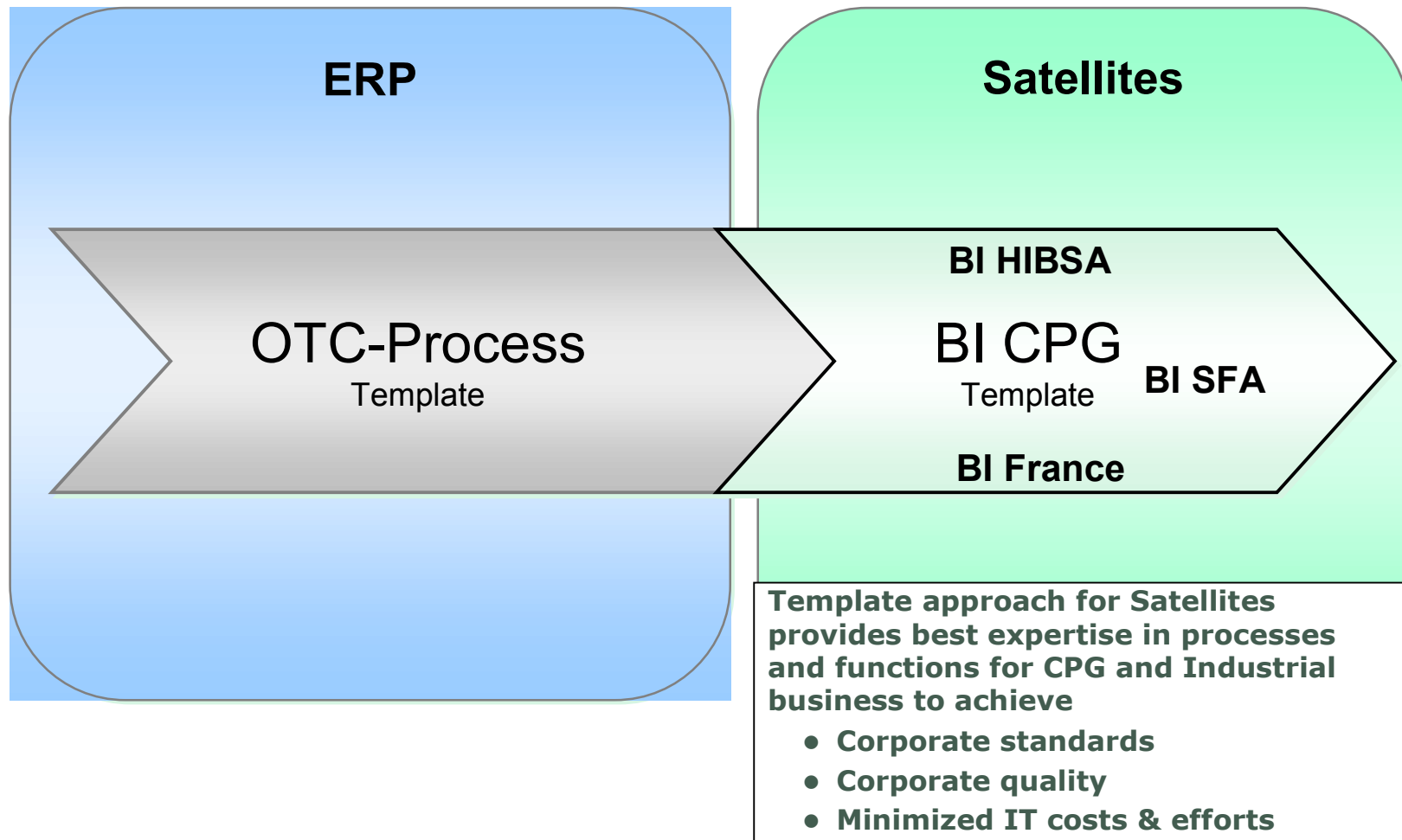
- Henkel's international corporate structure was reflected in its heterogeneous system landscape. Business intelligence applications from several large vendors were used in different areas.
- Henkel decided to consolidate its IT landscape in order to create a strategic business intelligence platform. Its objective was to standardize important business processes and to be in a position to provide rapid and reliable answers to all fundamental business questions using standardized reporting procedures.
- SAP® Business Warehouse was the solution of choice.

Extending Processes with different Satellites

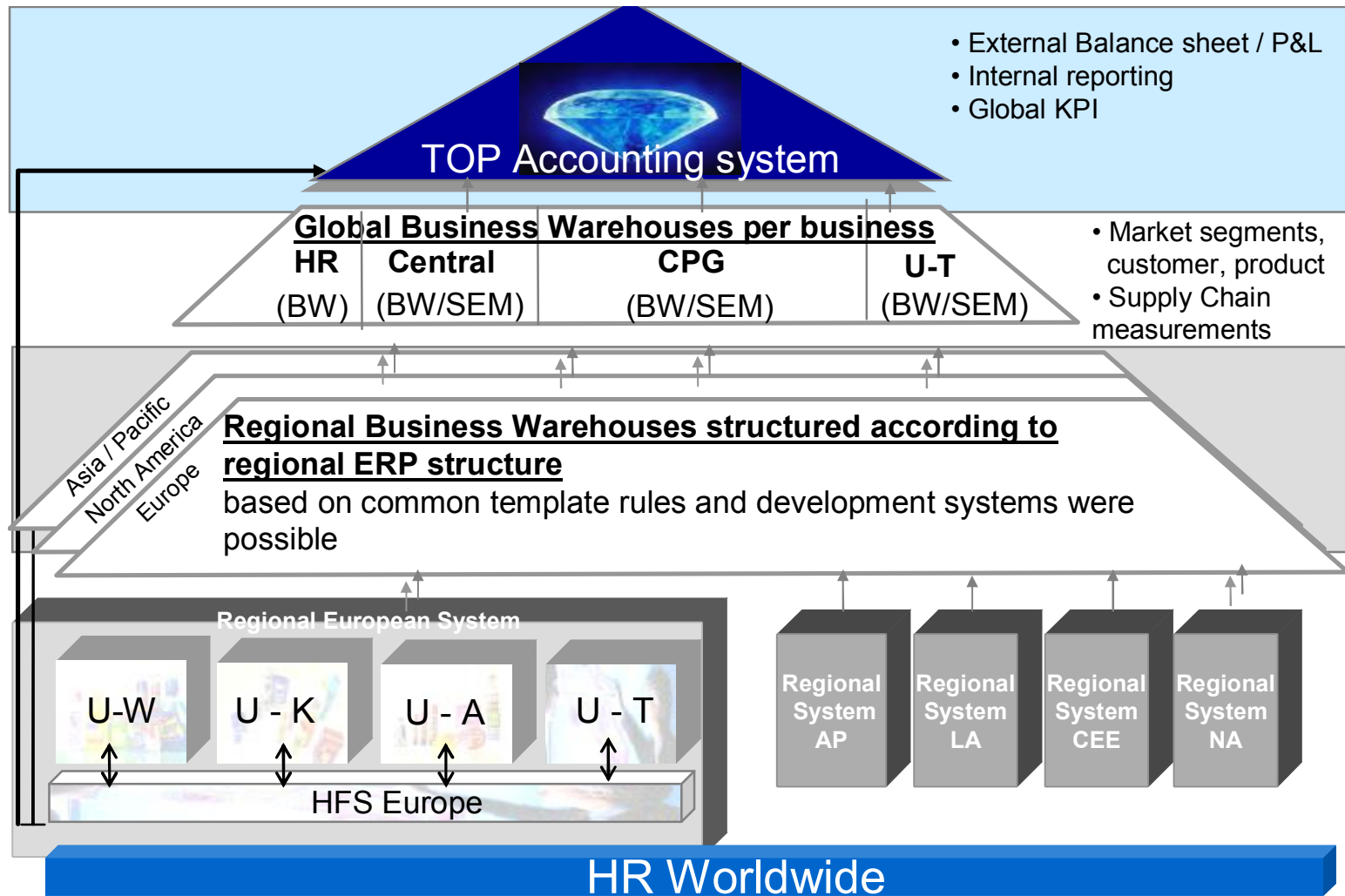


Extending processes beyond ERP

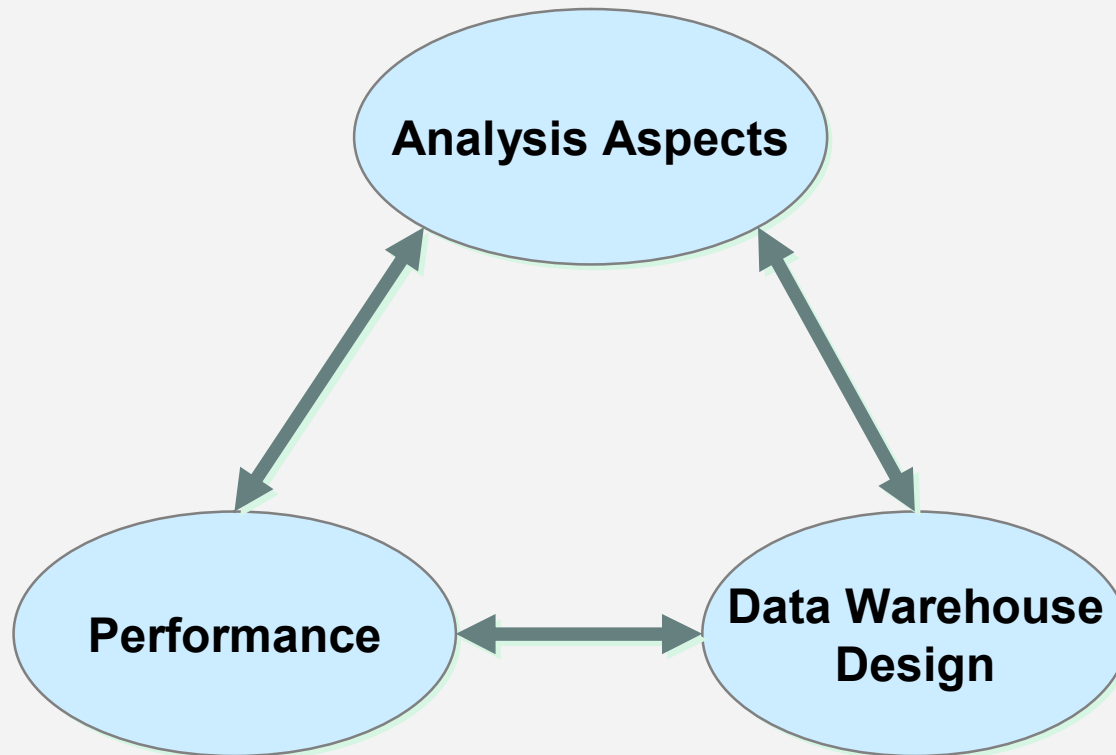
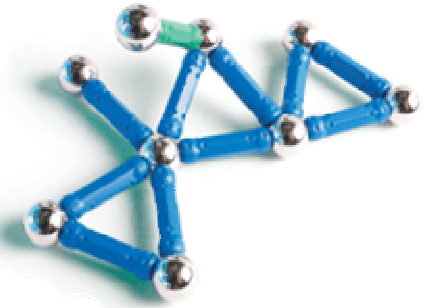
End-to-end processes



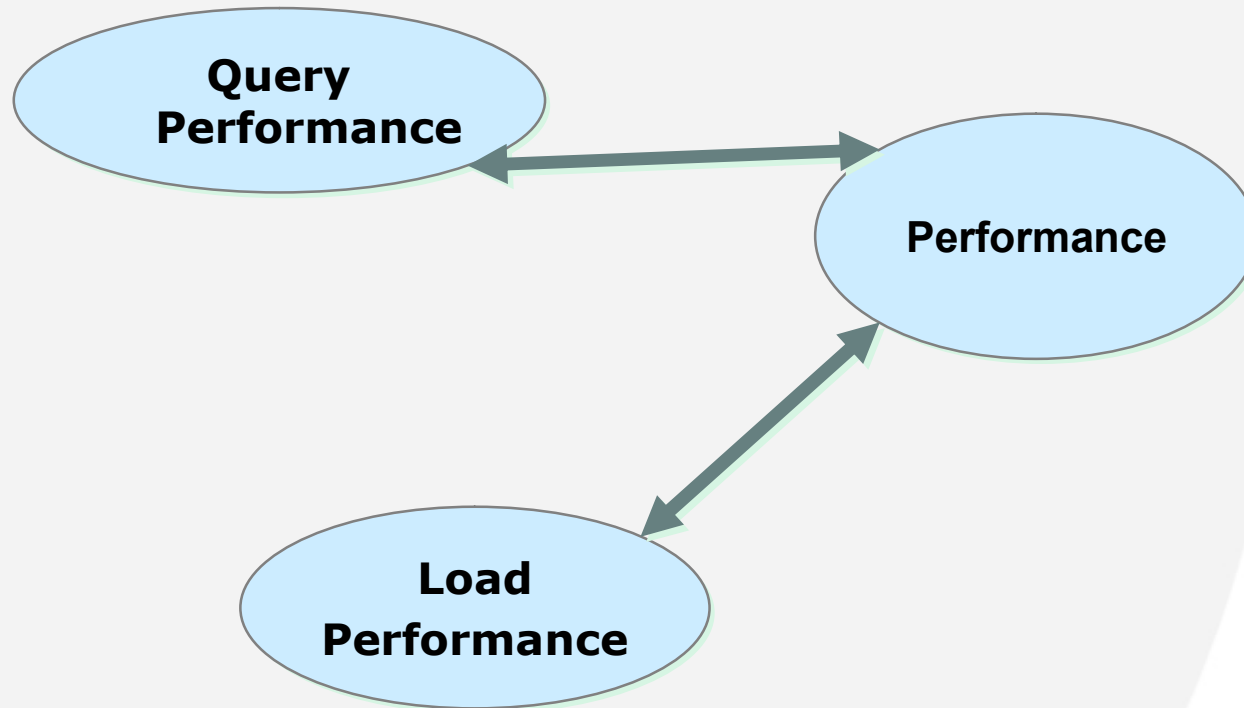
BI-Landscape@Henkel: Target Architecture



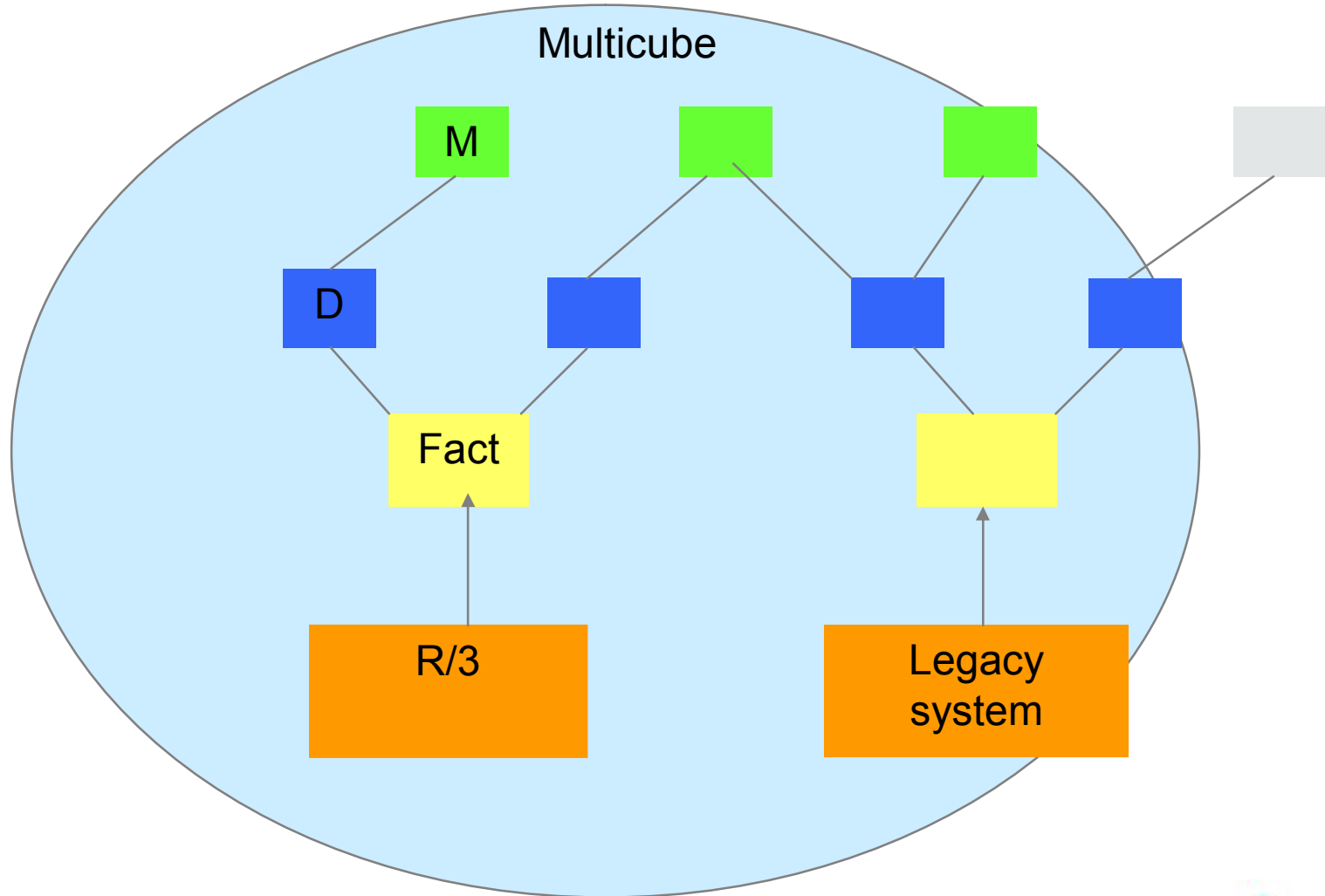
Model consequences



Performance Areas



Load performance



Performance and Loading

- Parallel independent load into different cubes
- Time slot before transactional data load is used for master data load and change run
- Biggest cube defines needed time slot for change run
- Change run blocks all related cubes from data load



cundus *DataService* at a glance

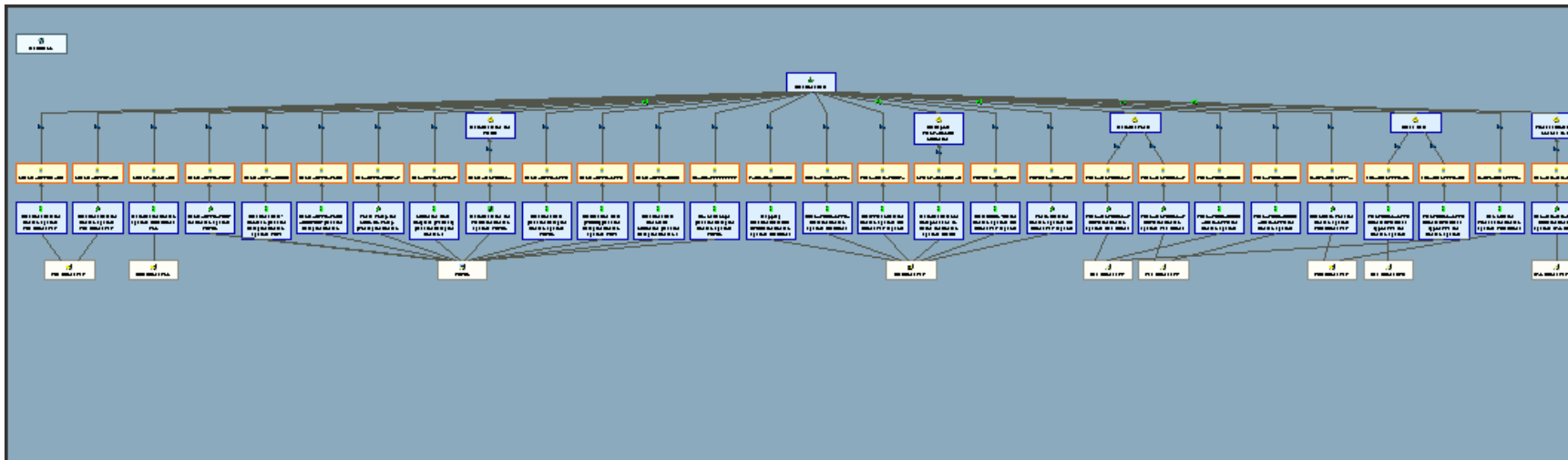
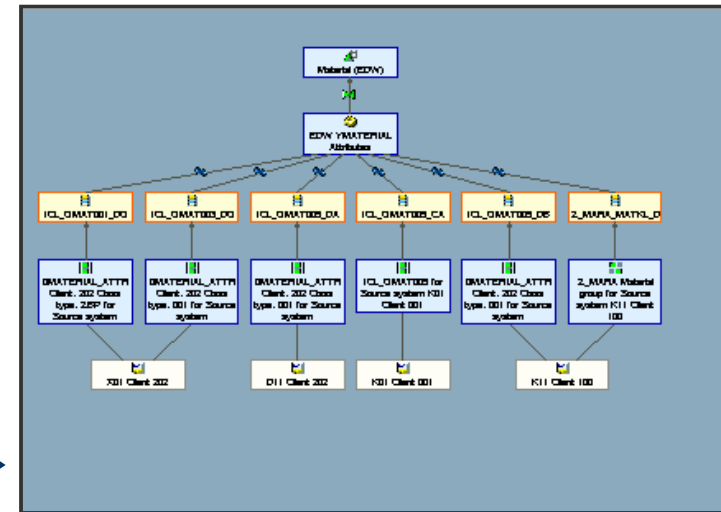
- Focused on Enterprise Data Warehouse (EDW)
- Reduction of redundancy: Single point of truth
- Better performance by lean load processes
- Optimized data distribution in the system
- Ensuring data quality
- Reducing complexity
- Improving flexibility and performance
- Easy to maintain
- Historical data in EDW-layer



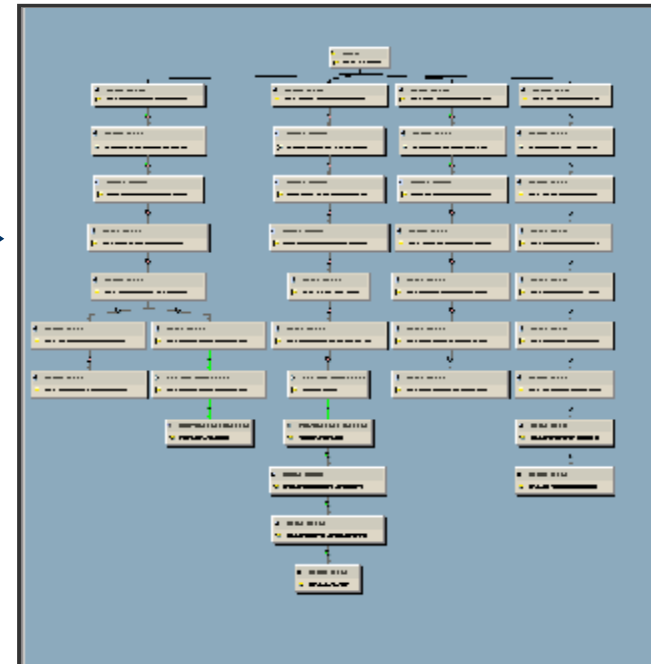
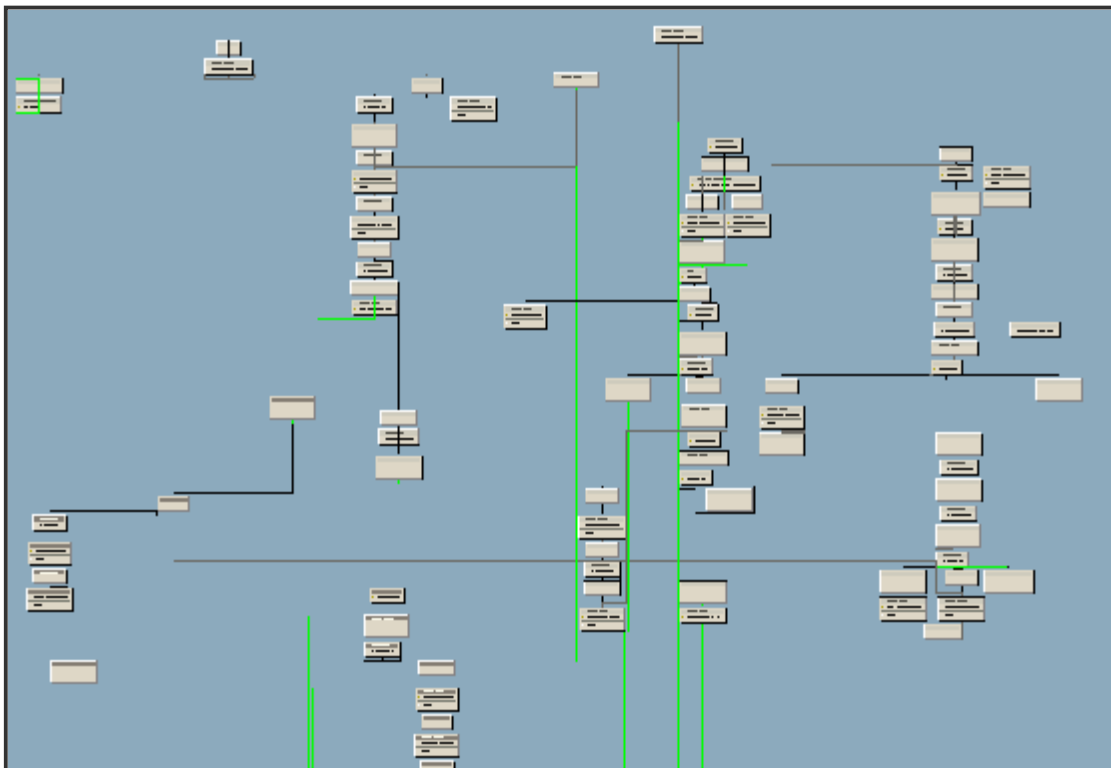
Example: Loading of Customer Master Data

Lean load processes

- efficient ACR (attribute change run)
- more stability
- better performance

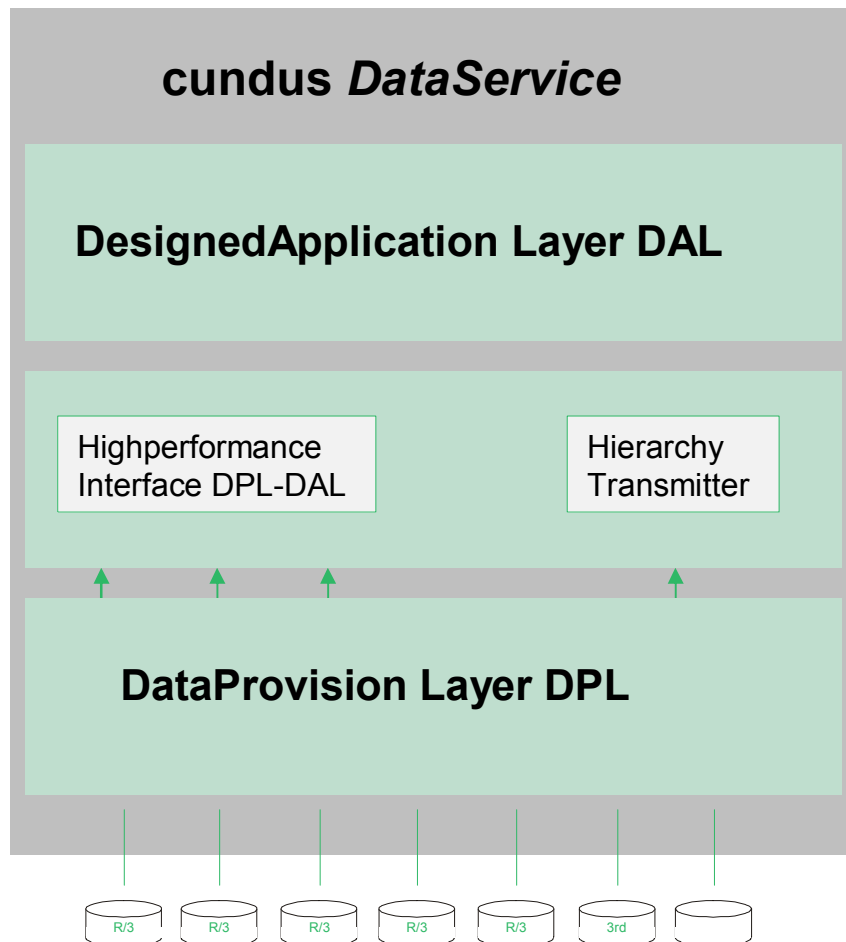


Example: Process Chains with cundus *DataService*



Lean load processes
→ easy to maintain
→ better performance

DataService Architecture



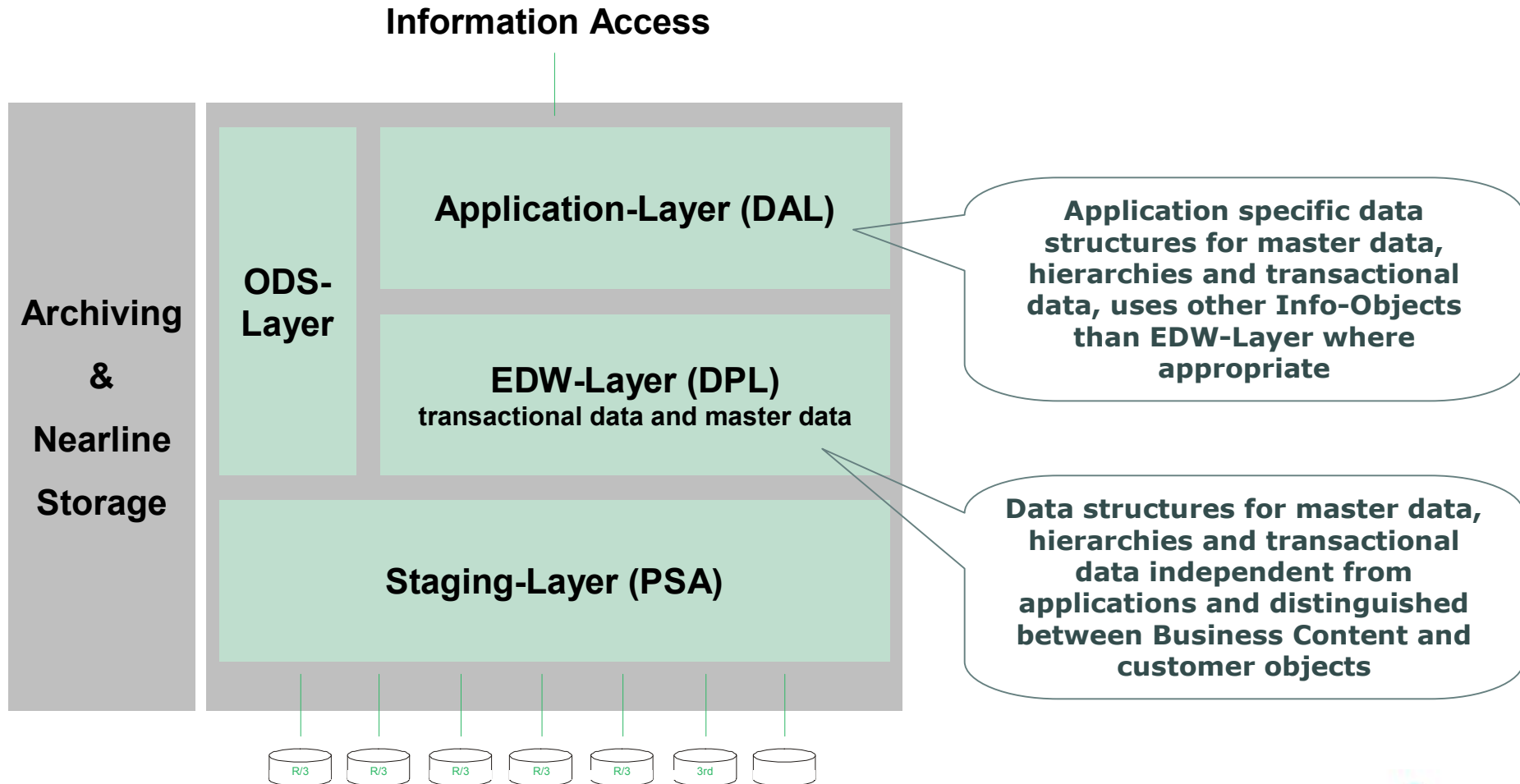
- DesignedApplication Layer (DAL): application specific models
- Enrichment and derivation takes place in the DesignedApplication Layer
- Data flow from DataProvision Layer (DPL) to DesignedApplication Layer (DAL): generic highperformance interface
- DataProvision Layer: consistent historical layer, Enterprise Data Warehouse layer

Enterprise Data Warehousing with *cundus DataService*

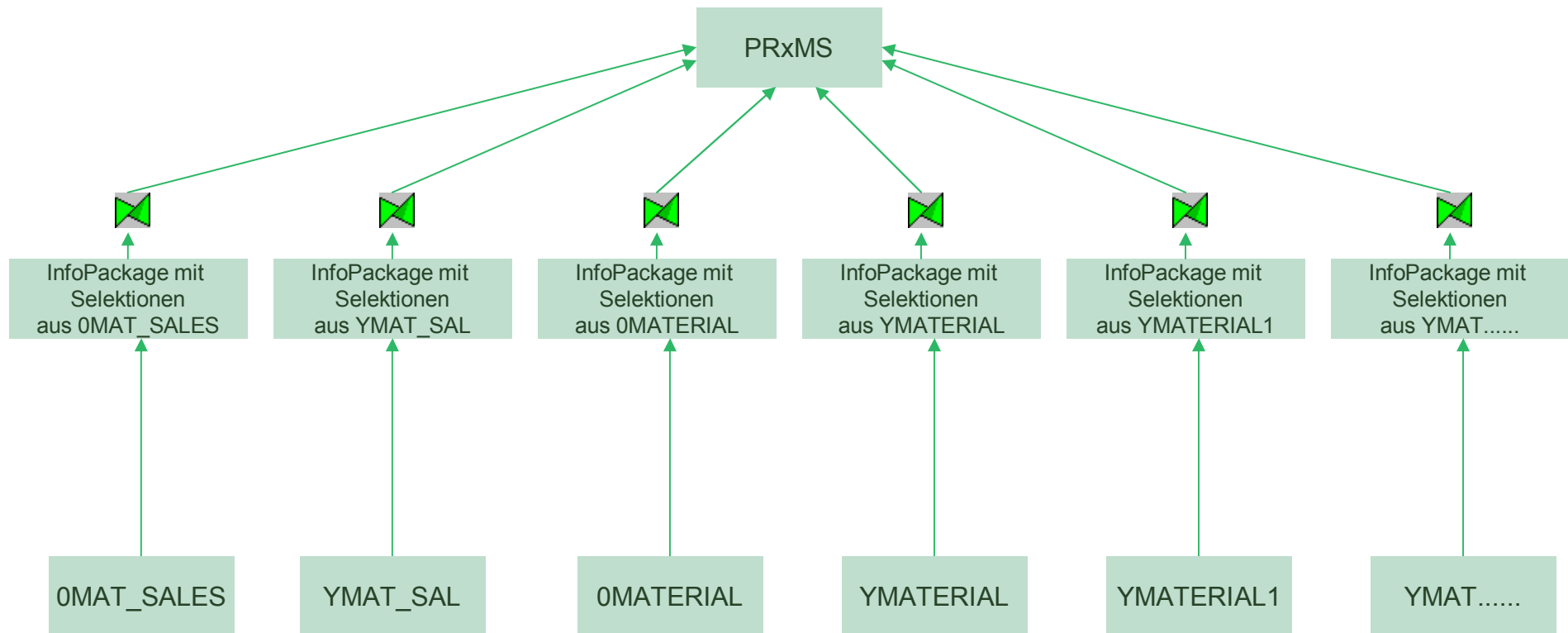
- Layer Architecture
 - Different data structures (master data, hierarchies, transaction data) in both layers
- Data Facility
 - LOAD: load once and distribute
- Object Enlargement
 - Different Info-Objects for own and BC attributes
- Object Enrichment
 - Derivations only in Application Layer
- Central Data Management
 - Centralized responsibility



Layer Architecture

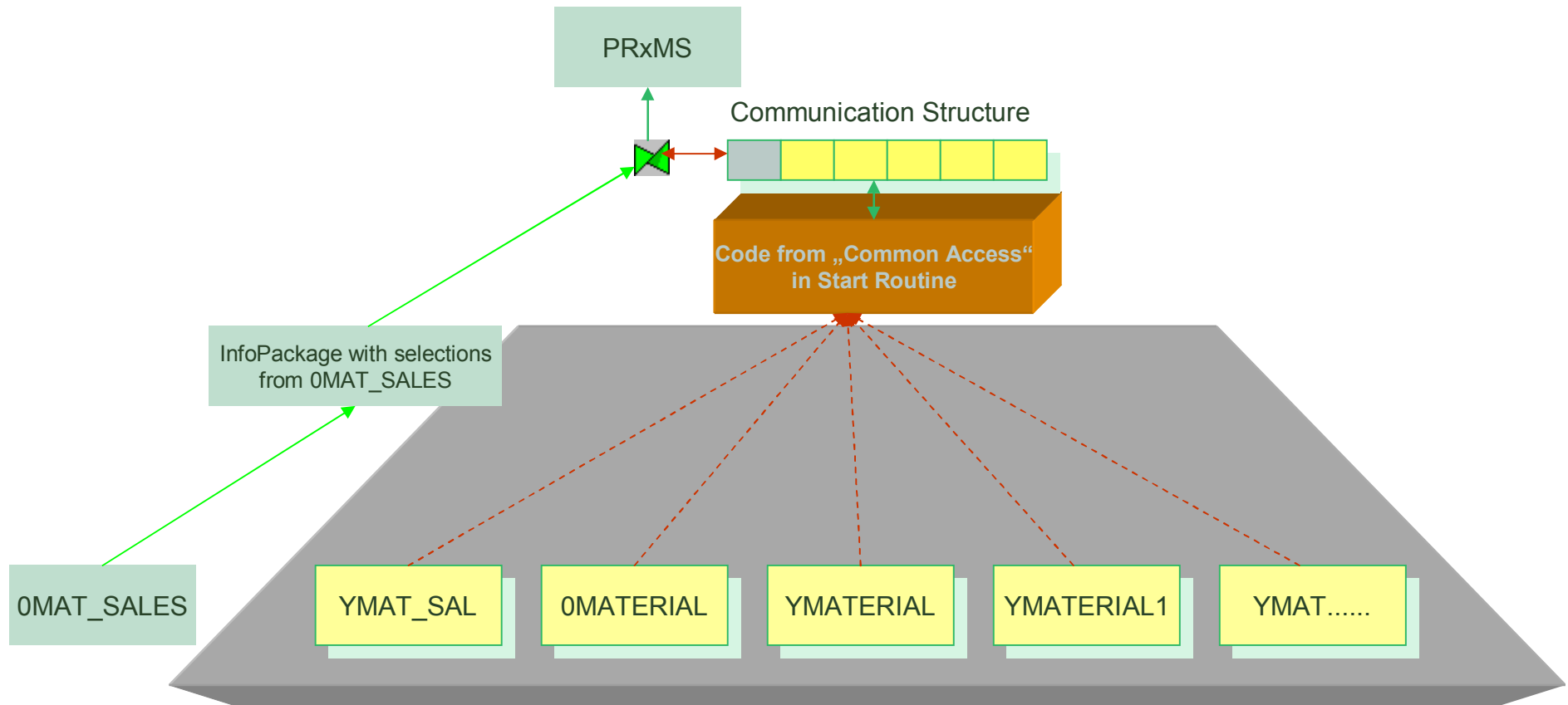


ETL without Data Facility

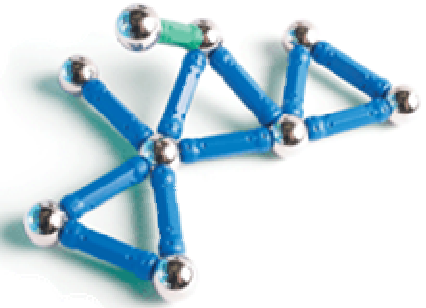


All Info-Objects as Info-Provider

ETL with Data Facility



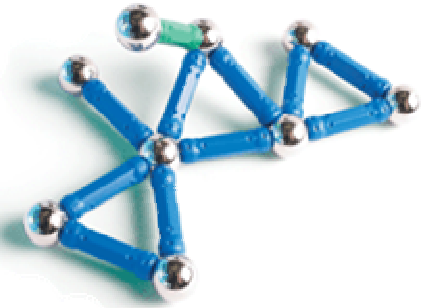
Analysis (Summary)



- Standard Reports
 - There are no big problems in terms of business question coverage
 - The set of standard reports is used as „entry points“ to solve all problems
 - The knowledge of non used reports is to low
- Response time and navigation
 - Problems have been identified in the area for data extraction
 - Response time for navigation

Conclusions (Summary)

- Response time tuning
 - Aggregates, compression
- Changes to the standard reports where necessary
 - Multiselect
 - Scroll bars (keeping column and row headings)



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