



## PIM in the Commercial Vehicles Aftermarket

# Efficiently maintain complex data, utilize it in multiple ways

ANTEROS Forum, 28.09.22, Ralf Schroll, Andreas Santner

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#### BPW Aftermarket Group - a brief overview



- ► Commercial vehicle parts trading network provides a reliable and fast supply of spare parts for trucks and trailers throughout Europe.
- more than 170 subsidiaries in 19 countries
- ► Product portfolio:
  - Original spare parts from all relevant commercial vehicle manufacturers
  - Fair value solutions for repairing older vehicles



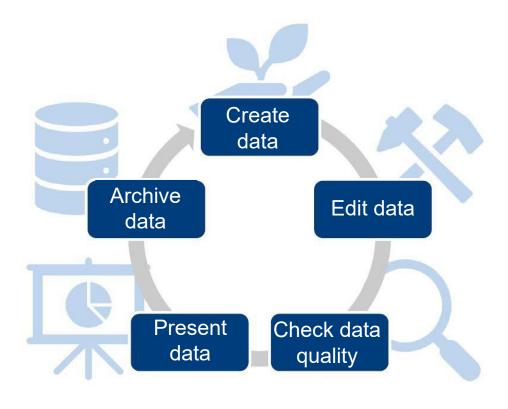
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#### Incentive for a PIM system at BPW



- Consistent, centralized data maintenance; previously distributed across multiple systems
  - saves time (data only needs to be maintained once)
  - better data quality and fewer data errors (all data checked in one central system)
- All ETGs can share the data and add their own ETG products
- Export product data from PIM for
  - own new online store
  - dealer portals such as TecDoc and Topmotive
  - the ERP system (PIM is leading for product data)

Maintain data once and use it several times with PIM



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#### Why choose the ANTEROS PIM system by INCONY?



- PIM tender with lists of questions, presentations by several vendors and selection process with long and short list
- Proof-of-concept project with INCONY and another vendor with own test system and own tests for data import (TecDoc, EXCEL, CSV), data maintenance in PIM, quality reports, data exports
- The best PIM for us was ANTEROS by INCONY; reasons:

#### **INCONY's experience**:

- Many years of experience with companies in the automotive industry
- Profound experience with TecDoc
- Good references and positive Feedback

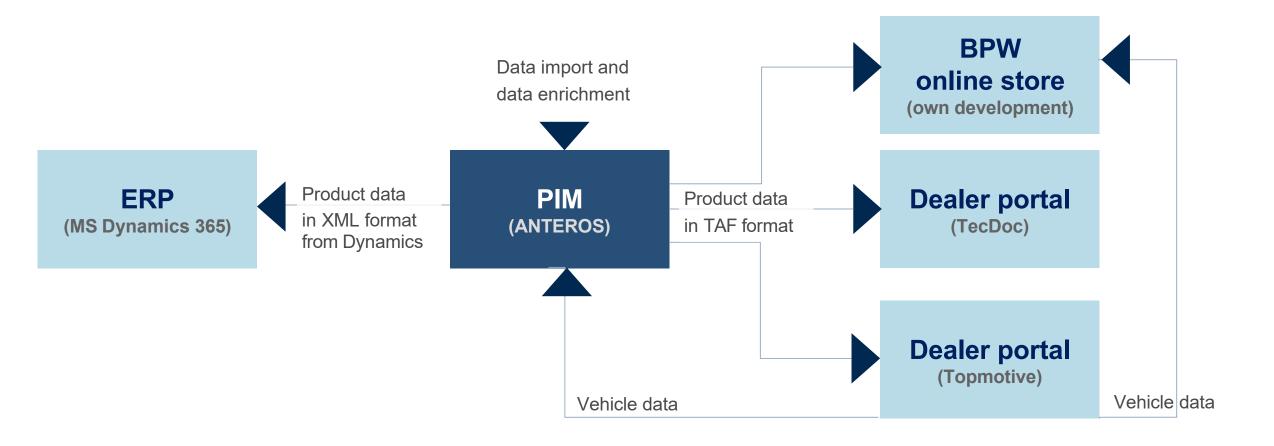
#### Scope and quality of INCONY's ANTEROS software

- Flexible data model: TecDoc plus own extensions
- Modern and intuitive user interface
- Extensive functions in the standard package
- Configurability
- Expandability, scalability
- Multi-client capable, multi-brand capable, ...



#### The ANTEROS PIM system and its interfaces at BPW





#### PIM as master for product data maintenance at BPW



- Creating a new product in the PIM ANTEROS is master
  - a 10-digit unique ID is automatically generated in ANTEROS
  - numeration according to a system specified by BPW

#### Creating new product types

- Supplier article imported (TecDoc,...);
   Supplier article number is imported, BPW article number is generated, data is checked and, specifically, supplemented with ERP-relevant data
- Products for own brands are entered into ANTEROS, data is improved step by step
- Initial and one-time import of own products from old product database
- ➤ In total currently approx. **700.000 products** in PIM, up to one million planned



#### **ANTEROS in Action at BPW**

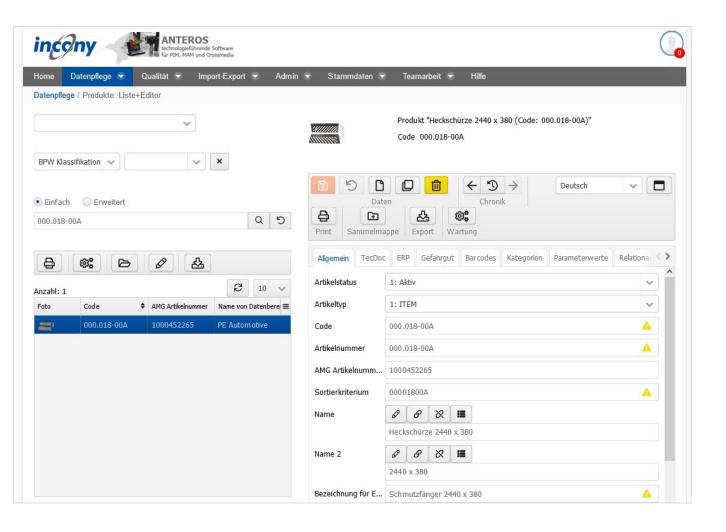




- Access is completely web-based, normal web browser for access from BPW headquarters, national company, home office
- Access via login + password
- User roles and rights determine which functions the user can see/use
- Encryption of data (security)

#### Product data maintenance in ANTEROS at BPW





#### Maintain product data in different tabs:

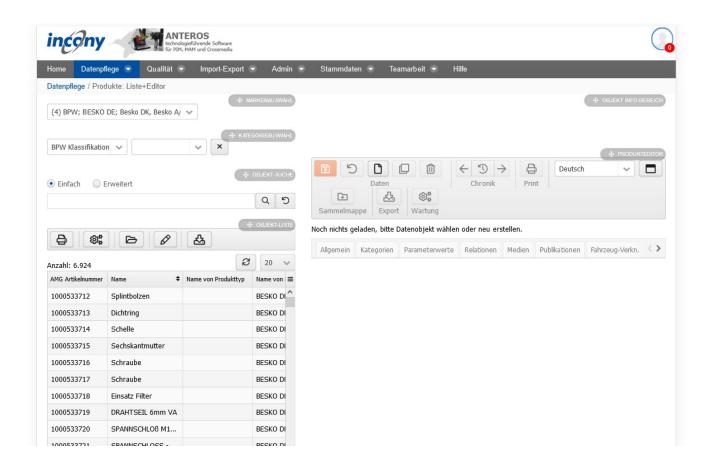
- General: name, description,...
- ERP: Customs tariff number, VPE, dimensions, weight,...
- TecDoc: Generic article, matching vehicles, cross references
- Categories e.g. for Topmotive
- Parameter values, such as installation side, length, width
- Hazardous goods: such as hazardous goods class, water hazard
- Relations: Accessories, spare part, spare article, deposit article, supplier, ...
- Media: pictures, drawings, documents, videos

Data can be easily and efficiently maintained in ANTEROS.

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#### Product data maintenance in ANTEROS at BPW





#### ETGs can maintain their own products:

- BPW items: for all ETGs
- ETG products: for specific country assortments, e.g. Besko

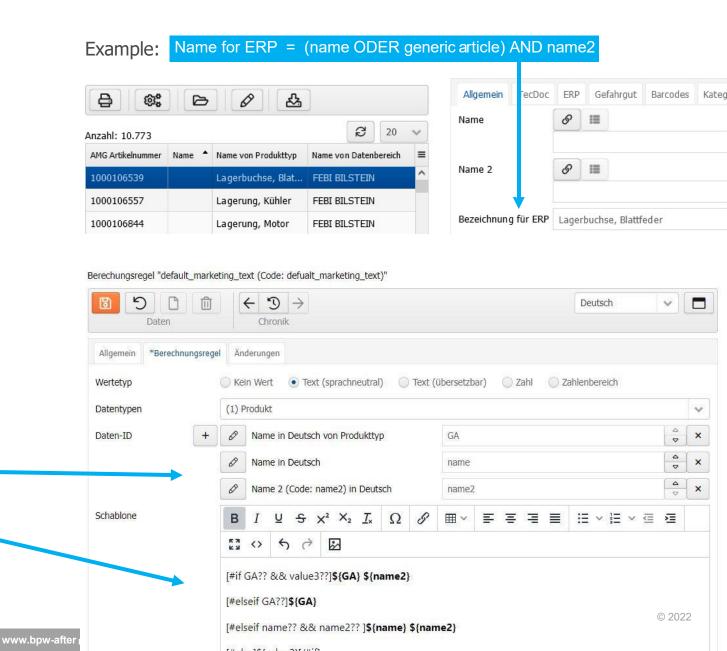
#### Highly efficient data maintenance with ANTEROS calculation rules



Parameters automatically calculated from the texts/values of other parameters and if applicable also filler words and fixed text elements

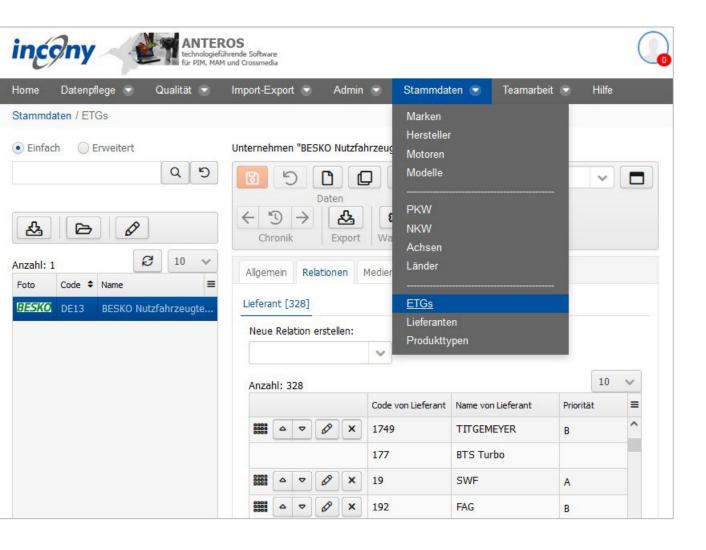
Excellent data with little work Often used by us, e.g. for ERP designation(see screenshot); with almost 1 million products (many supplier products) better data without much manual effort

Create formula via flexible rules Reference to data fields, use of fixed text modules possible, format language Freemarker for rules



#### Master data: more than TecDoc





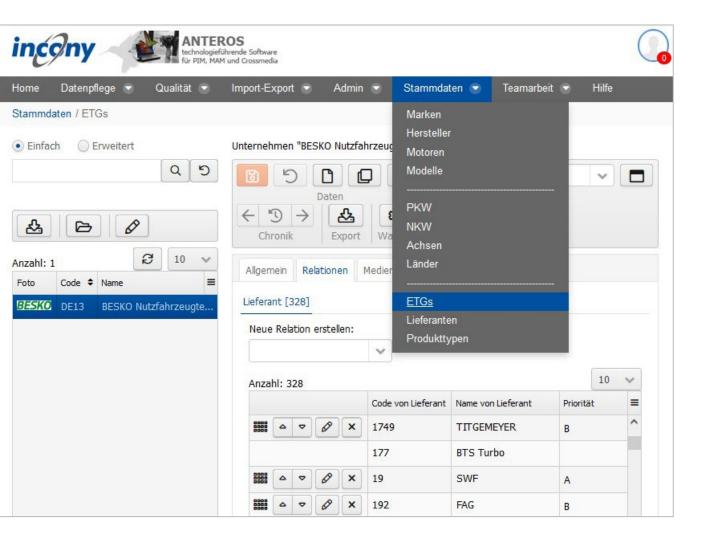
#### 1. Vehicle data imported from Topmotive

more generic articles for a finer structuring, advantageous for PIM maintenance and search in online store

- more criteria technical products are often sold via technical criteria, which users use for filtering
  - -> not only with Topmotive, can also be used for own store or further exports

#### Master data: more than TecDoc





#### 2. Additional master data for store and ERP

- Addition for brands,
   e.g. for ERP, whether brand is in local assortment
- New objects: Suppliers, ETG,
   e.g. for store: list of suppliers per ETG (with data to suppliers, to ETG and relation attributes to supplier-ETG)

everything in one system

can be maintained efficiently

Everything is efficiently maintainable in one system in ANTEROS.

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#### Quality checks in ANTEROS



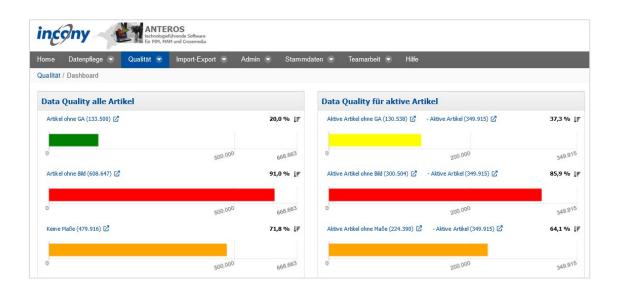
**Gradually improve the quality of data,** of all products (imported and manually input)

- Create own quality reports
- ➤ Identify problems in the dashboard at any time



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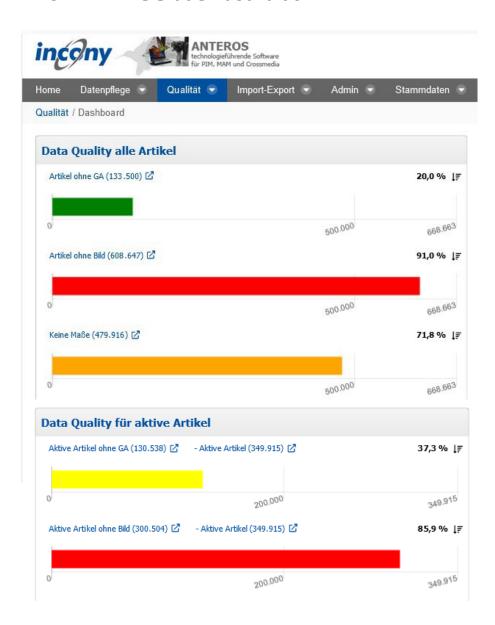


#### **Advantages of the dashboard:**

- Deficits in quality in the data very clear
- Every login brings you to the dashboard, reminds you of quality issues
- > Traffic light colors highlight the problems
- Each user can create their own quality reports or reports for all users

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### 1. Quality checks via search queries like:

- Article without picture
- Article without dimensions,...

#### Cascading of search queries is possible:

Active items without image

("Active item" + QS level "item without image")

Active items without image and dimensions

("Active item" + QS level "item without image"

+ QS level "no dimensions")





2. Check data fields via quality levels

#### Example 1:

Online store-ready: products with VPE

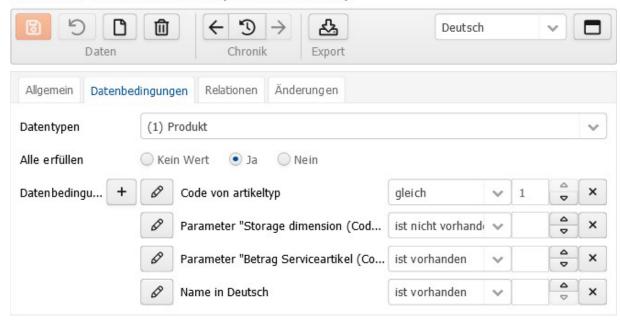
Qualitätsstufe "Webshop ready (Code: 1644930909976)" 3 靐 Deutsch V Chronik Daten Export Relationen Änderungen Datenbedingungen (1) Produkt V Datentypen Ja Nein Alle erfüllen Kein Wert △ X Datenbedingungen + Haupt VPE (Code: VPEMAIN) ist vorhanden

Display in dashboard

Set condition on data fields



Qualitätsstufe "Korrekter Serviceartikel (Code: 1633418988726)"



#### Example 2:

- Correct Service Item:
   Condition on four data fields:
   Item Type, Name, Service Item and Storage
   Dim.
- Simple usage:
   By edit icon reference to data fields,
   which can be extended at any time
- > Flexible rules:

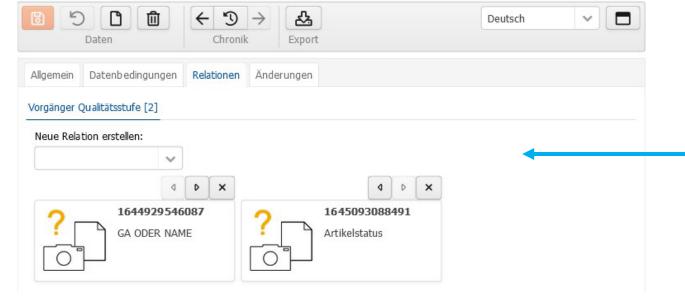
Operations such as is-present, not-present, hasminimum length, <, >,... applied to the data.



Qualitätsstufe "Webshop ready (Code: 1644930909976)"



Qualitätsstufe "Webshop ready (Code: 1644930909976)"



Quality level cascading is possible:

Example 2:

Online shop ready =

VPE present

AND

Name or GA present

**AND** 

Item status = Active

Cascading via relations, similar to product relations

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#### Use of the PIM data for various purposes



#### Centrally maintain product data in the PIM

#### Multiple use for

- ► ERP system
- Online store
- Dealer portal TecDoc
- Dealer portal TopMotive
- ▶ If needed for further exports,...



#### Interface from PIM to ERP at BPW



#### **ERP system at BPW:**

- MS Dynamics 365 by Microsoft
- System runs on the Azure Cloud

#### Interface between PIM and ERP

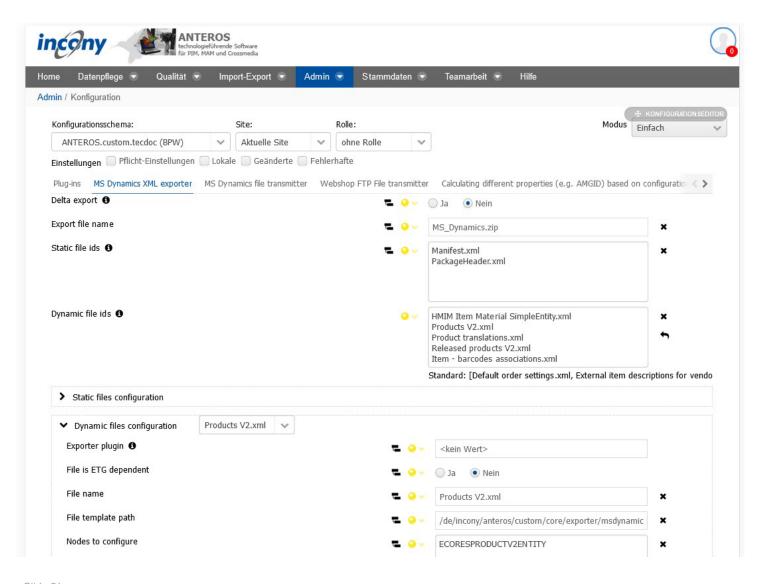
- Using Azure services to transfer data
- Transfer all new and changed product data (delta update), 1x nightly



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#### Interface between PIM and ERP at BPW



#### **ANTEROS** configuration by BPW:

BPW has configured the XML exporter in the config.editor of ANTEROS themselves:

- which files
- which fields per file
- which tags per field

The XML format for this is provided by MS Dynamics.

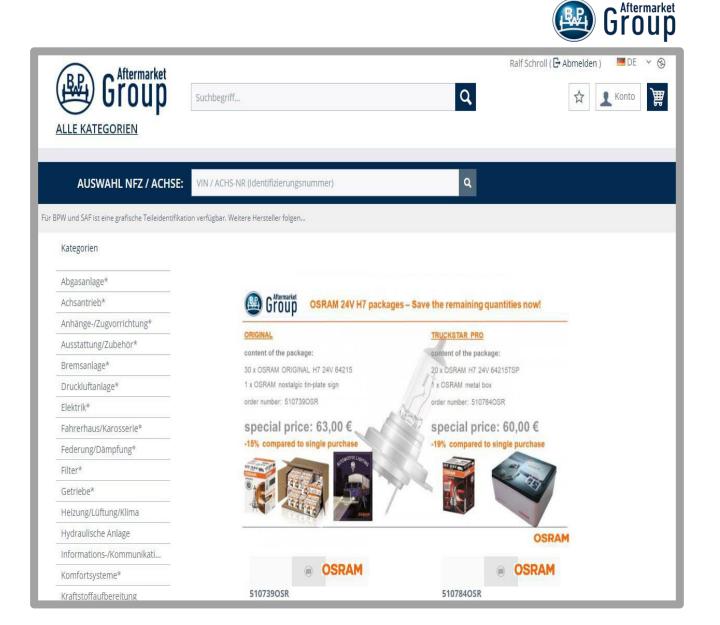
#### Interface between PIM and online store at BPW

#### Online shop at BPW:

In-house development

#### Interface from PIM to online store

- ▶ Data transfer in txt format (own format with fixed field lengths, similar to TAF)
- ► Transfer of all product data



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#### Interface between PIM and TecDoc at BPW

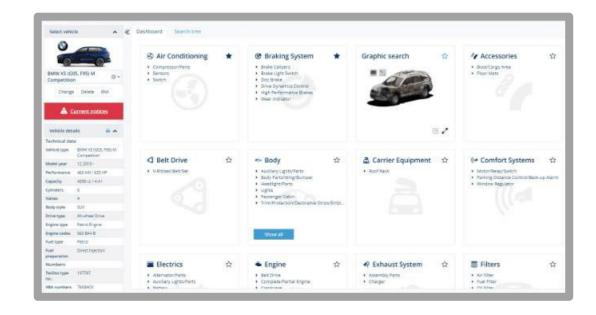


#### **TecAlliance dealer portal:**

- Important association of manufacturers and dealers from the automotive industry for over 25 years
- TecDoc catalog for workshops, among others, with products from many manufacturers
- TecAlliance maintains master data, such as vehicles, models, generic articles

#### Interface from PIM to TecDoc (planned):

- ► TAF format: TecDoc standard format
- ► For ANTEROS standard import and export



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#### Interface between PIM and Topmotive at BPW



#### **Dealer portal from DVSE:**

- Online catalogs for workshops and industry, among others, with products from many manufacturers
- DVSE maintains master data, such as vehicles, models, generic articles, manufacturers

#### **Interface from PIM to TecDoc** (planned):

- ► TAF format: TecDoc standard format
- ► For ANTEROS standard import and export



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#### **Summary: Successful PIM implementation!**



#### Efficient data maintenance with ANTEROS

- of approx. 700,000 products
- PIM is the leading system for product data at BPW
- Supplier data can be easily imported in TecDoc format
- own brand product data can be easily maintained
- additional data automatically added via calculation rules
- not limited to TecDoc master data: in our case, among others, further generic articles and criteria, suppliers, ETGs
- > Improve data quality in a targeted manner via dashboard, quality levels
- Interfaces to use PIM data multiple times
  - Data transfer to ERP, store and dealer portals
- Agile project approach for fast results
- ANTEROS is very flexible, INCONY team is very competent

