SMS group

Strategic Parts Management global

- Parts Management at SMS group

- Using PARTapplication Server

- Challenges & Difficulties

Bernd Postaremczak, SMS group GmbH

19.02.2016

SMS ⊙ group

| Ironmaking and direct reduction plants | Metallurgical plants & Environmental technology | Flat rolling plants | Tube and pipe plants | Long products plants |

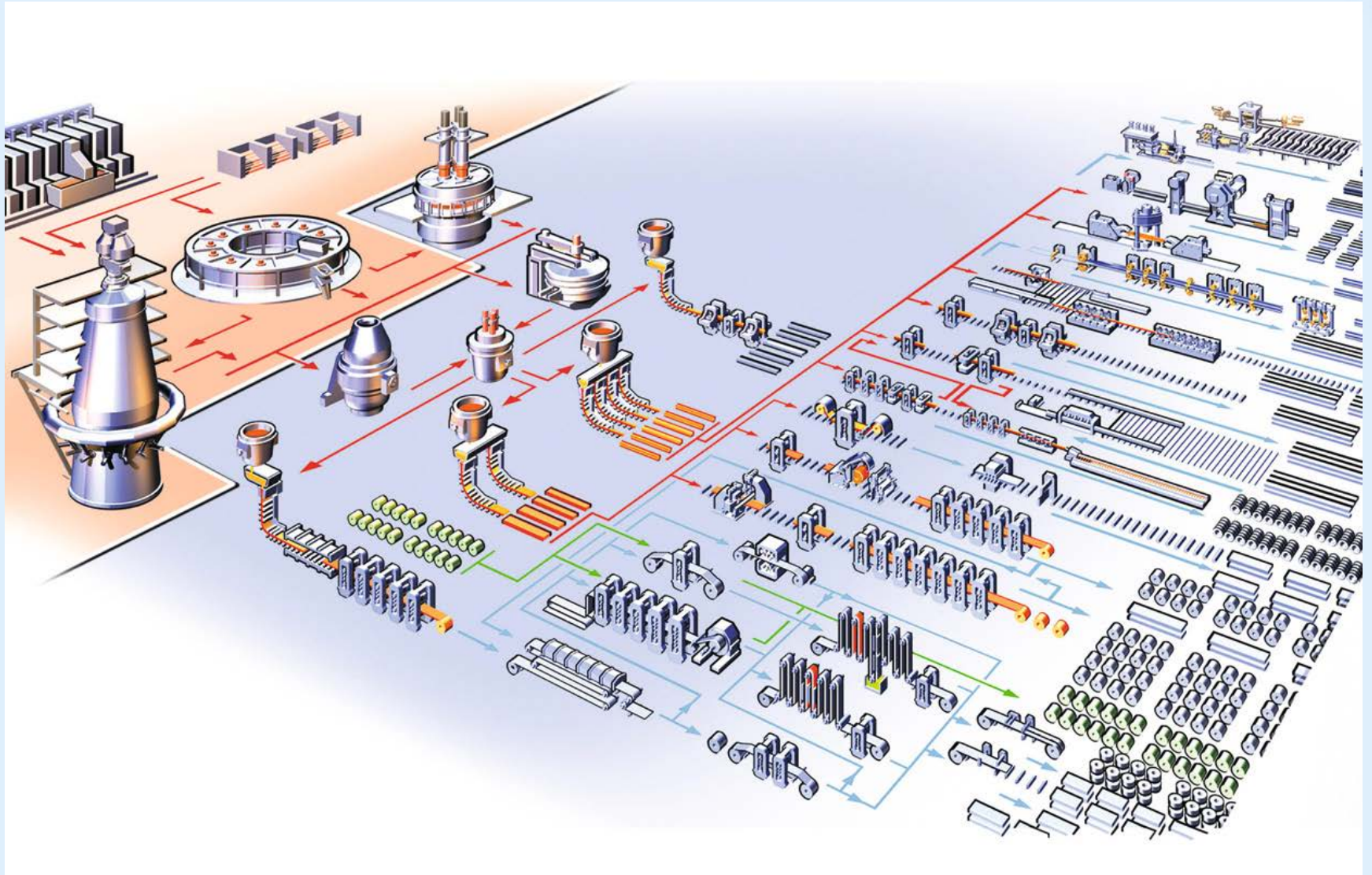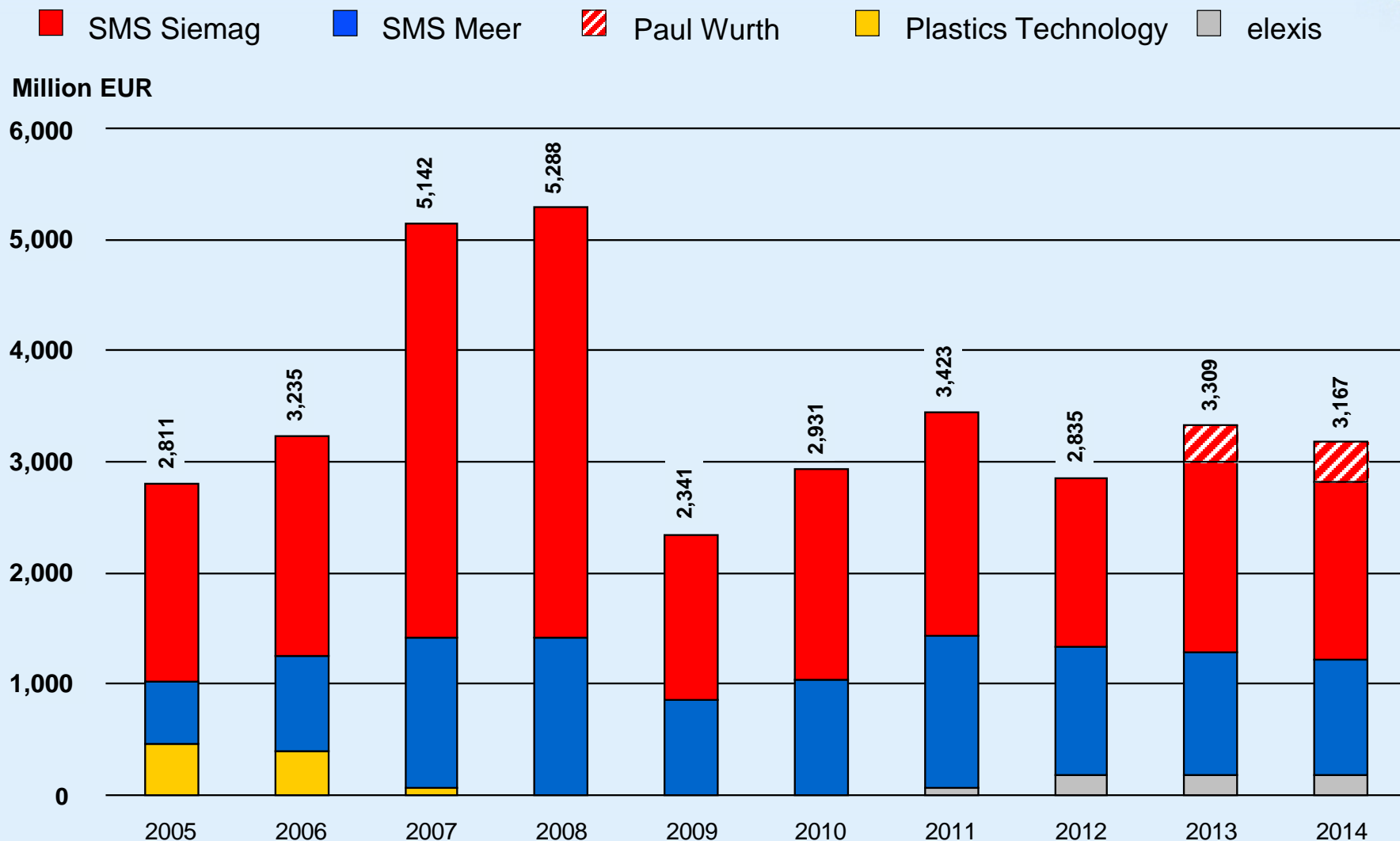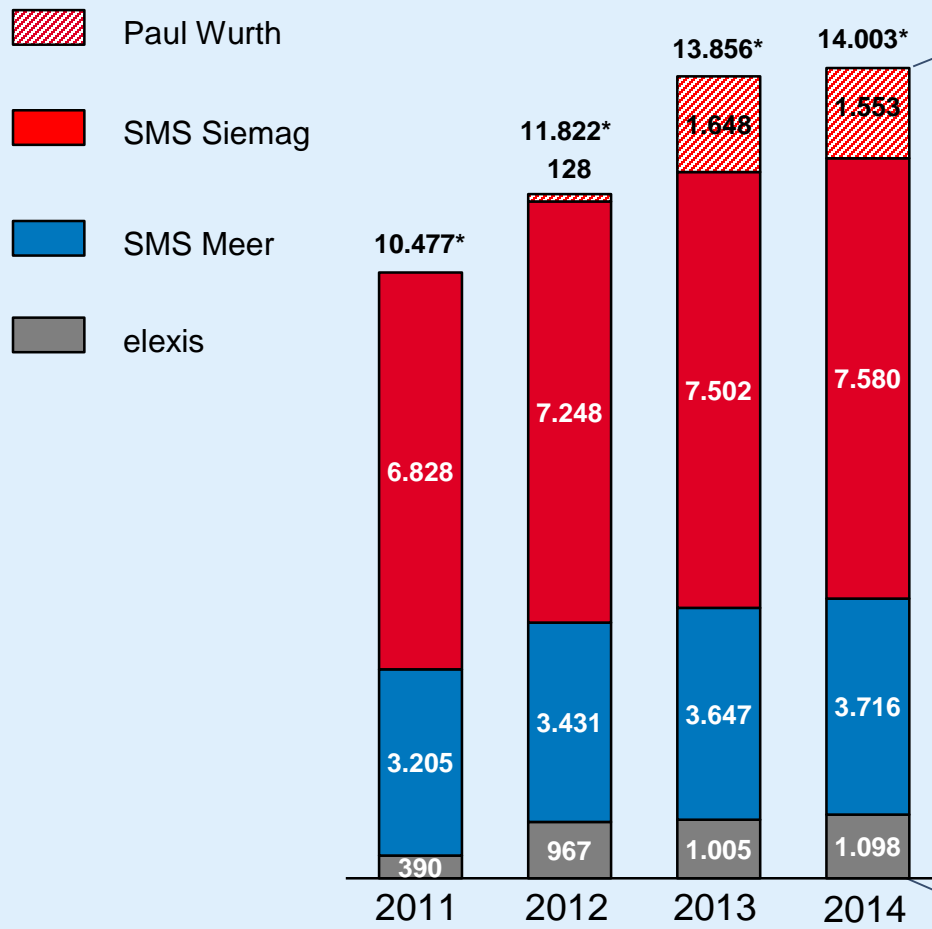| Processing lines & Furnace technology | Forging plants | Electrical & Automation systems | Production | Technical Service |

Order intake by Business Areas in million EUR*

SMS group

Legend: SMS Siemag | SMS Meer | Paul Wurth | Plastics Technology | elexis

Million EUR

Year	Total
2005	2,811
2006	3,235
2007	5,142
2008	5,288
2009	2,341
2010	2,931
2011	3,423
2012	2,835
2013	3,309
2014	3,167

* including all other Divisions/consolidation

Locations worldwide SMS group

Hilchenbach

Düsseldorf

Luxembourg

Pittsburgh

Bhubaneshwar

Mönchengladbach

Gurgaon

Tarcento

Zurich

Shanghai

SMS group GmbH
Mönchen-
gladbach

SMS group GmbH
Düsseldorf
Hilchenbach

St. Petersburg
Moscow

Luxembourg
Zurich
Milano

Pittsburgh

Peking   Tokyo
Shanghai

Neu Delhi

Dubai

Belo Horizonte

Johannesburg

Employees

SMS group

Legend:
- Paul Wurth
- SMS Siemag
- SMS Meer
- elexis

Stacked bar chart:

	2011	2012	2013	2014
Total	10.477*	11.822*	13.856*	14.003*
Paul Wurth		128	1.648	1.553
SMS Siemag	6.828	7.248	7.502	7.580
SMS Meer	3.205	3.431	3.647	3.716
elexis	390	967	1.005	1.098

Apprentices in Germany

~ 6 %

Employees abroad

~ 50 %   ~ 50 %

Employees in Germany

* Annual average with trainees including others

Order intake by regions 2014

43 %
North and
South America

31 %
Europe

24 %
Asia

2 %
Africa

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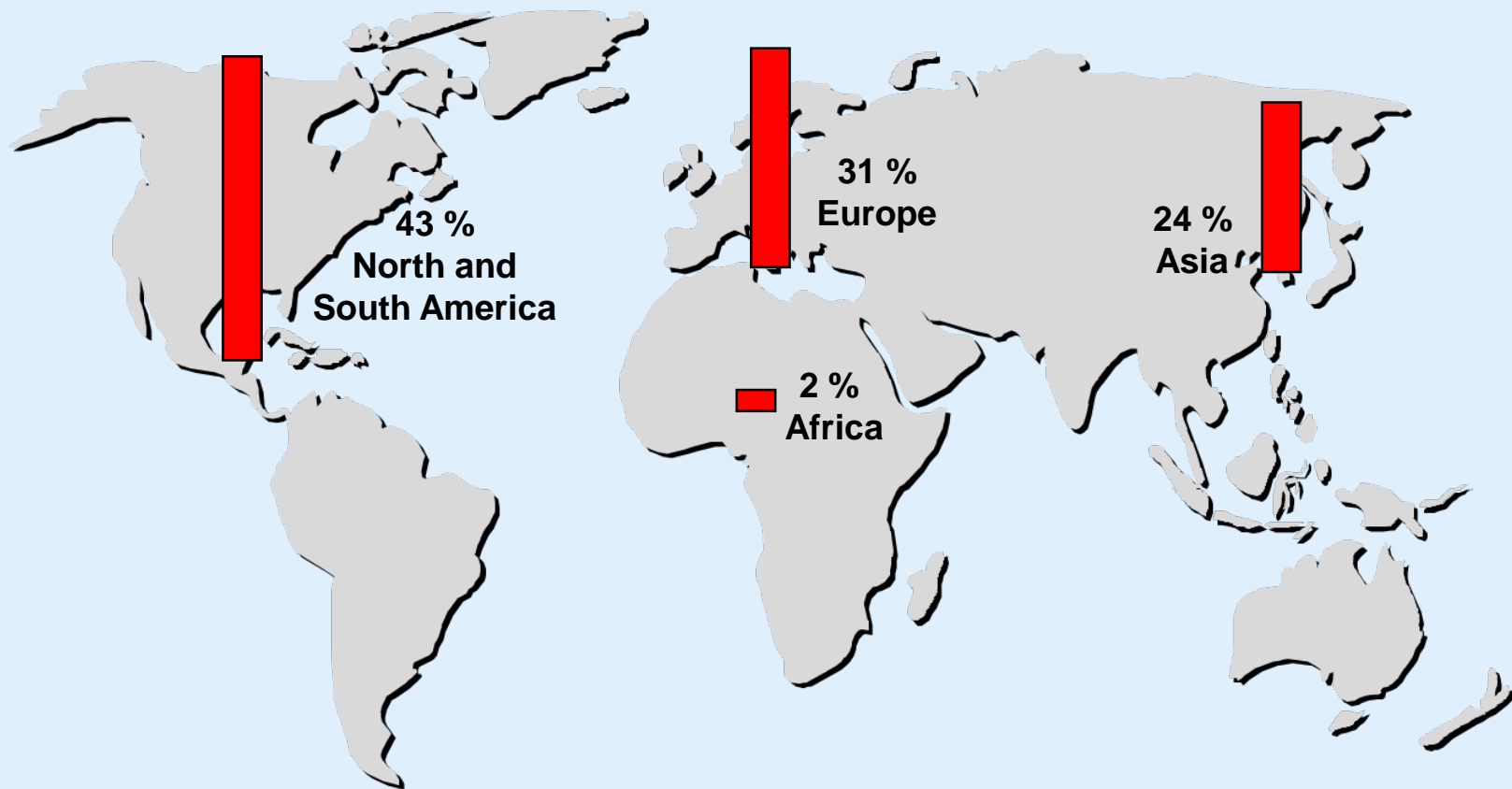
Standard parts and catalog parts are designed and available for the designers that they know them, they can understand them and they can use them. The

- Master data and class attributes

- the needed geometries in neutral PARTsolutions format

- SpecDrivenPiping relevant data and

- EPLAN-relevant data

of standard parts and catalog parts are made according to the rules and are up-to-date.
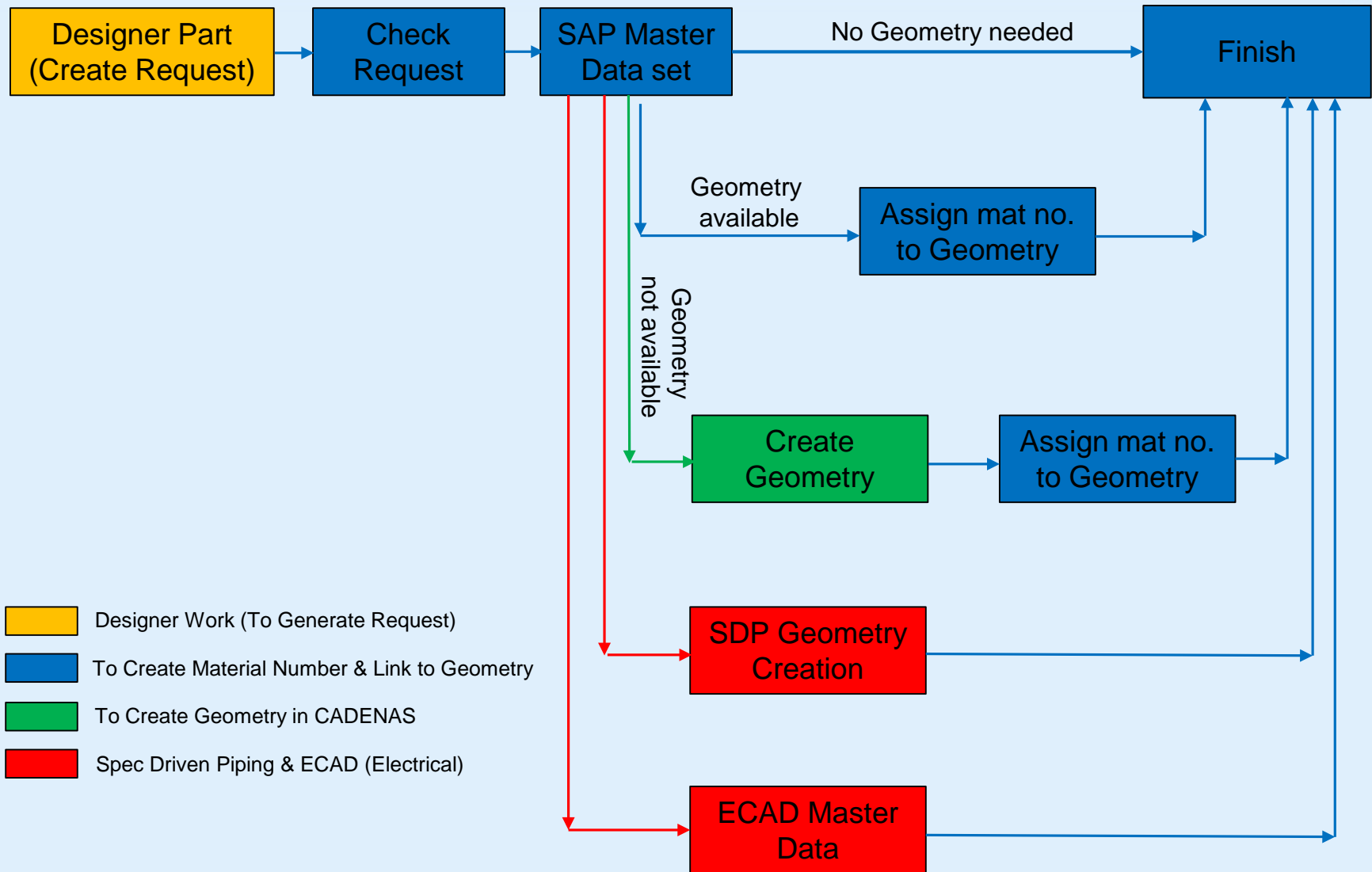
The Parts Management department has to take care that the diversity of parts are minimized and they offer standard parts preferred, if possible.

- **Allocation of needed and updating existing manufacturer catalogs/catalog parts in PARTsolutions (CADENAS)**

- **Make, update and offer SMS catalogs, catalog parts and standard parts in PARTsolutions (CADENAS)**

- **Make and update SAP master data of standard parts and catalog parts**

- **Make, update and offer standard geometries in SpecDrivenPiping (SDP)**

- **Make and update BOM's for standard pipeline classes.**

Business of Parts Management II

- **Handling (check, realization) of parts management work stock (PMWS)**

- **Training of the requesters in PMWS**

- **Make and update classes and class hierarchies in SAP**

- **Make, specify and update class attributes and value lists in SAP**

- **Classify standard parts and catalog parts**

- **Bulk evaluation in SAP and other data base systems (Data Mining)**

- **Administration and care of SDP data base**

- **Administration and configuration simus classmate**

SMS⊚group

- **15 staff in Germany at three locations for German speaking locations**

- **4 staff in India for foreign locations**

- **Across 55,000 standard parts (not invalid master data)**

- **Across 83,000 catalog parts (not invalid master data)**

- **Across 2,400 manifacturers for catalog parts (not suppliers!)**

- **Between 1,500 and 2,000 requests/month, thereof circa 1/5 standard parts**

- **Across 48,000 standard parts with CADENAS geometry (across 19,000 created by our self)**

- **Across 43,000 catalog parts with cadenas geometry (across 28,000 created by our self)**

- **Across 1,100 manufacturers in CADENAS**

Stand: 19.02.2016

Designer Part (Create Request) → Check Request → SAP Master Data set

SAP Master Data set → No Geometry needed → Finish

SAP Master Data set → Geometry available → Assign mat no. to Geometry → Finish

SAP Master Data set → Geometry not available → Create Geometry → Assign mat no. to Geometry → Finish

SDP Geometry Creation → Finish

ECAD Master Data → Finish

Legend:
- Designer Work (To Generate Request)
- To Create Material Number & Link to Geometry
- To Create Geometry in CADENAS
- Spec Driven Piping & ECAD (Electrical)

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Oer-Erkenschwick
Düsseldorf
Mönchen-gladbach
Langenfeld
Witten
Hilchenbach

Ravensburg

Poole

Bilbao

Tarcento

Pittsburgh

Gurgaon

Wuhan

Shanghai

SMS◉group

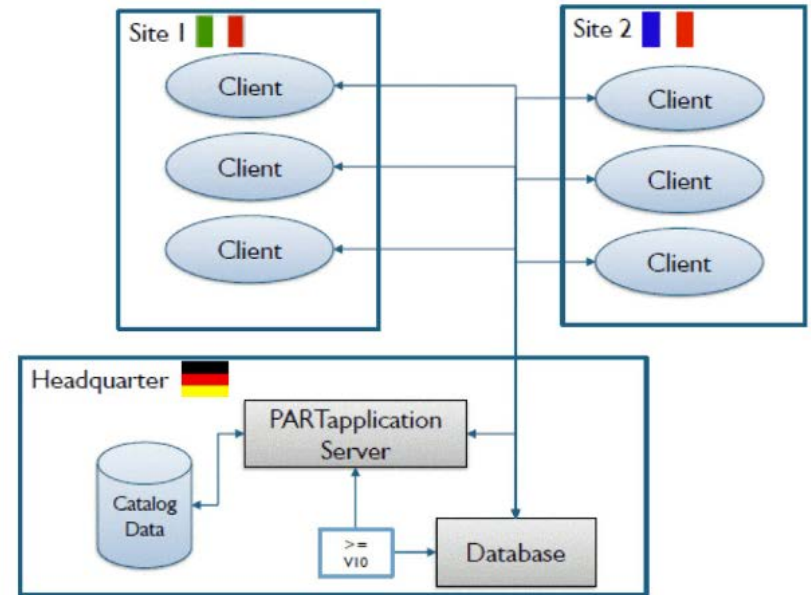**One catalog data base for all locations**

CADENAS_DATA-folder:

- **Across 100 GB data volume**

- **Across 2,5 Mio. files**

- **Across 83,000 folders**

Replication with Robocopy to the locations till March 2015

- **Disk space at every location**

- **Replication needs several hours**

SMS ⊚ group
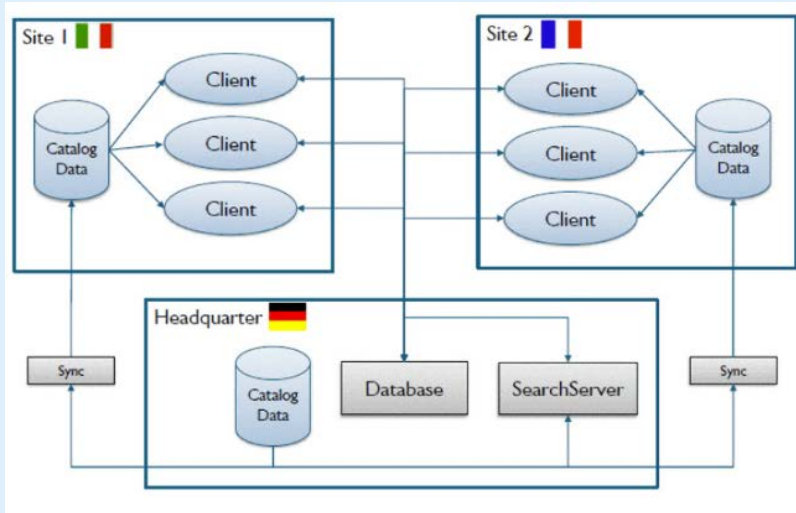
- **Transforming from an international to a global player**

  - Rethinking in ervery division required

  - Not only work for a special manufacturer location

  - Foreign locations are no longer extended work bench

  - Requested standard parts and catalog parts are used world wide

SMS group

- **Barrier of language**

  - Setup a PM department in India ➔ all guidelines for PM have to be translated in English

  - Suddenly German PM staff has to speak English well

  - Make all standards and data sheets also available in English

  - Working in eCatalog in English (name of folders et cetera)

  - Bilingualism (DE/EN) of master data is no longer warranted ➔ Designation catalog

  - English translation of the master data has to be according to the standard or according to the translation of the manufacturer. If not, you would not find anything.

  - Size/dimension amd the decimal place

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- **Integration of further companies of the SMS group**

  - Every SMS group company should be integrated in SAP until year 2020

  - Every integration means a ERP system switch for the integrated company

  - Every time a comparison of standard parts and catalog parts is needed

  - New standards (ASME/SAE/MSS/IS/GB/...)

  - New manufacturers

  - Minimzing diversity of parts is not possible

  - But: Double parts are avoided in a high level

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LIVE DEMO

(Hopefully)