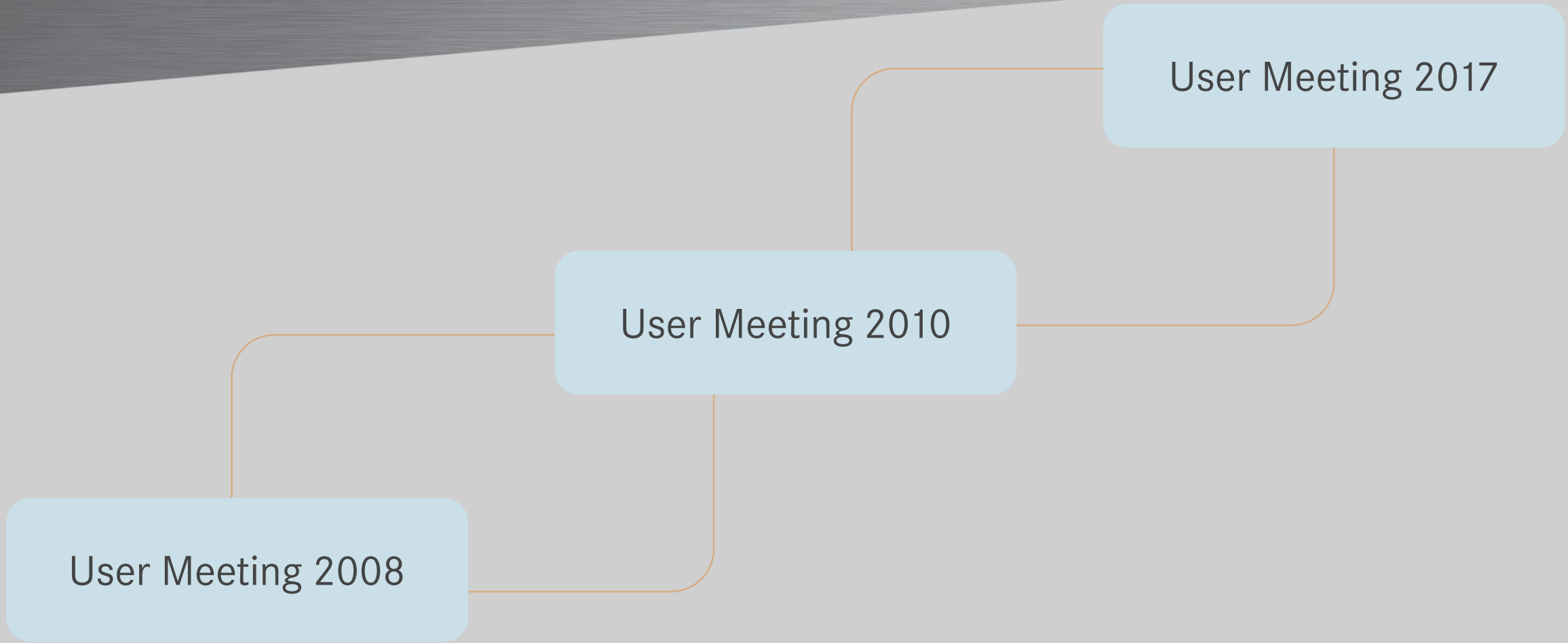
DAIMLER

Supplier Integration over the Years
A Retrospective.

Karl-Heinz Kugler
Jochen Heinkel

EDM
CAE
FORUM
2017

Welcome to the eSmaC User Meeting 2017



Lecture series of the User Meetings

User Meeting 2008

- Unix Plattform
- Gewachsene System Lösungen
  - individuelle Anbindungsvarianten
  - Keine einheitliche Administration
  - Unterschiedliche Hardware
  - Unterschiedliche Software
- Risiko bei Systemverfügbarkeit
- Hoher Administrationsaufwand

Kommunikation

Release Wechsel

XP Migration

User Meeting 2010

Agendapunkt
Begrüßung und Hintergründe
IT-Security
Prozesse und Methoden im eSmaC Umfeld
Pause
Erfahrungsbericht eSmaC Anbindung RückerCH
Neuerungen - DMU Datenversorgung bei TG - Neuerungen beim Anmeldeprozess Sesam2
Ausblick - Bericht RGS Aktivitäten - Anbindungsalternativen MPLS, VPN Ipsec - Smaragd Engineering Client - Neuerungen Smaragd 10.2
Diskussion / Fragen - Anregungen - Meinungen
Ende und Verabschiedung

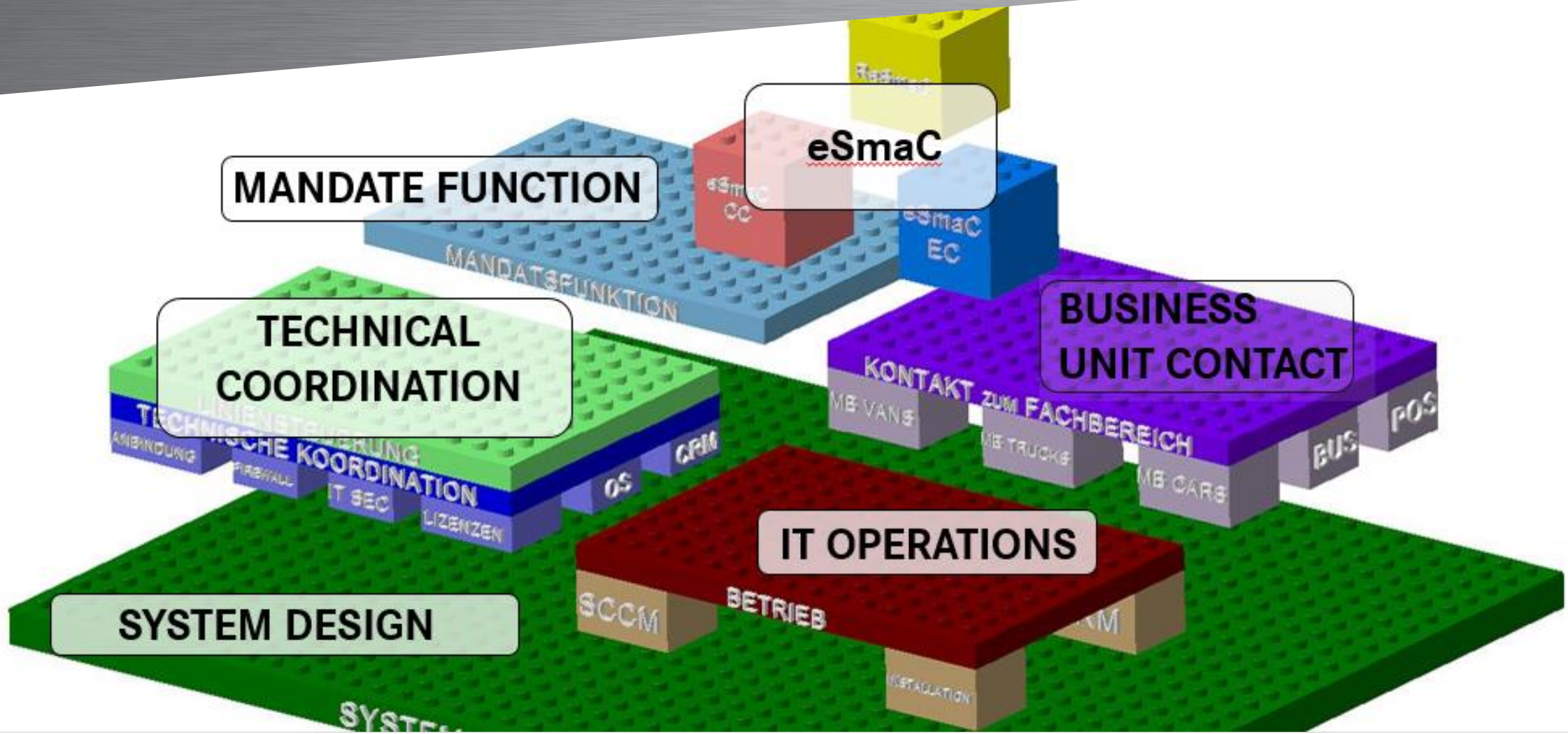
User Meeting 2017

Supplier Integration over the Years – A Retrospective.
Karl-Heinz Kugler, Daimler AG (ITC/PP)
Jochen Heinkel, Daimler AG (IT/DT)
[D] [S]

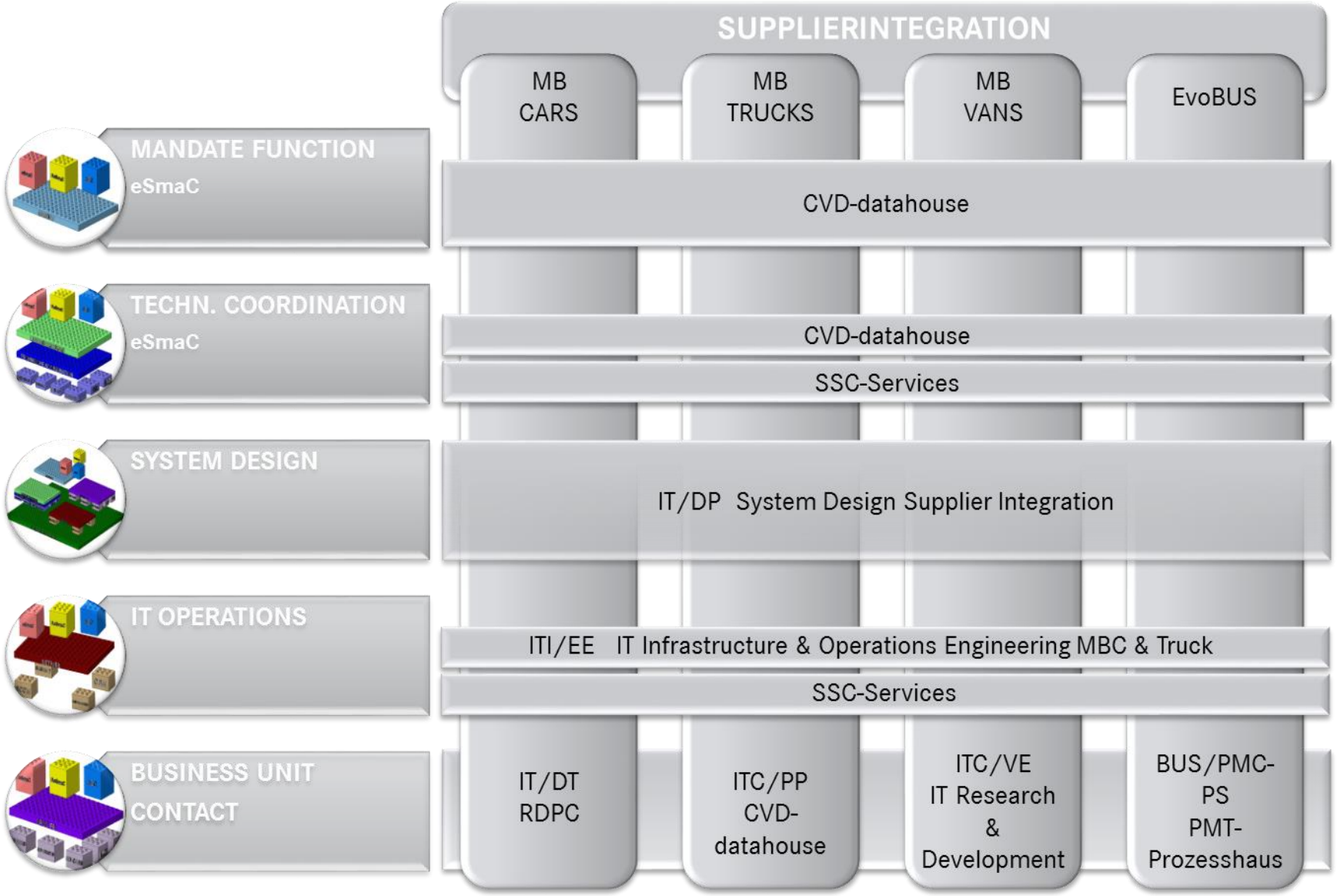
eSmaC NG – The Consistent Development of a Well-Proven Solution.
Ralf Luithardt, SSC-Services GmbH
[D] [S]

Global Engineering Workplace – The Platform for International Collaboration.
Isabel Joachim, Daimler AG (IT/DI)
Alexa Nawotki, Daimler AG (RD/KRR)
[D] [S]

eSmaC
Authorized and Responsible Parties

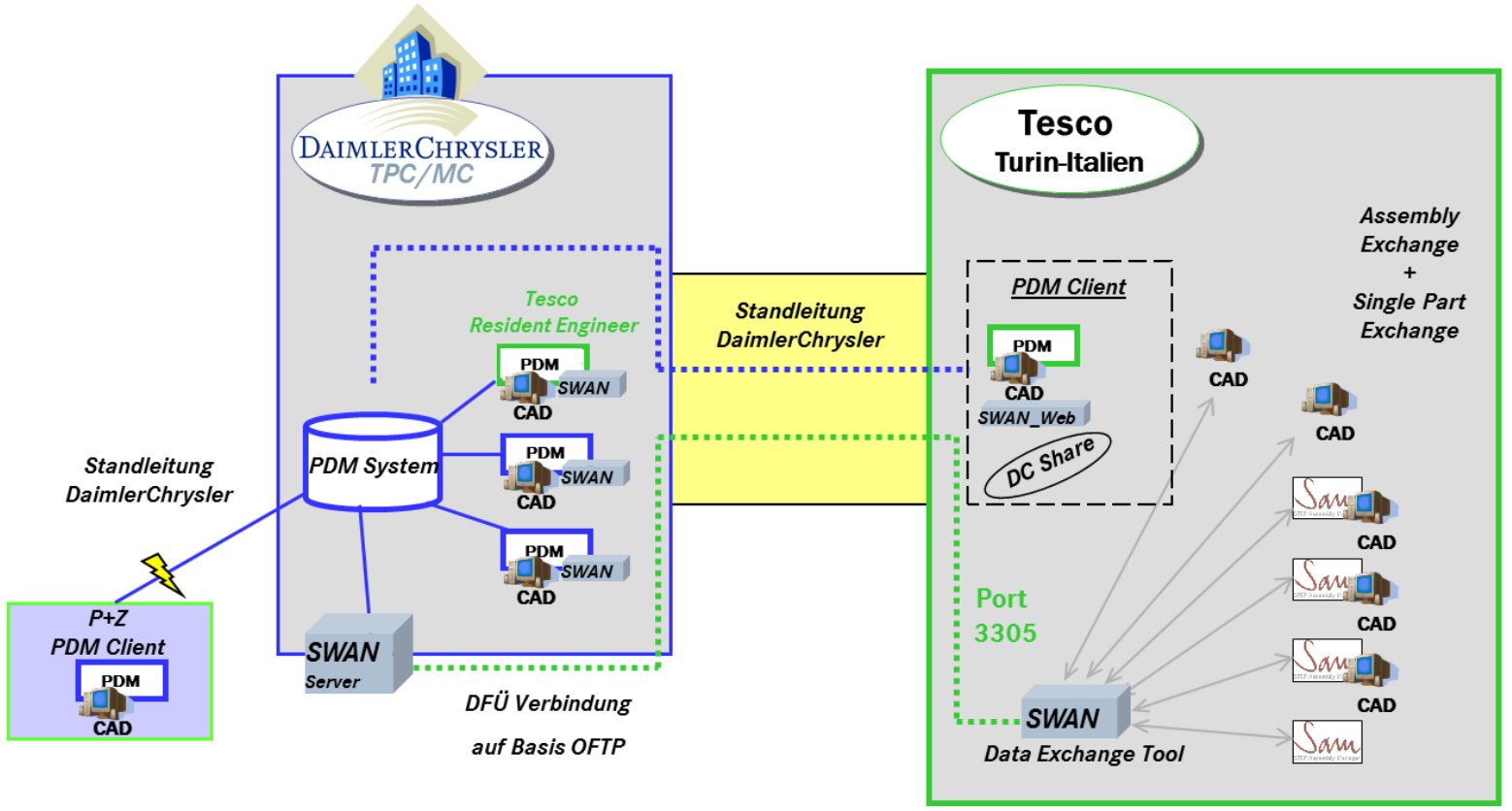


Competence Team

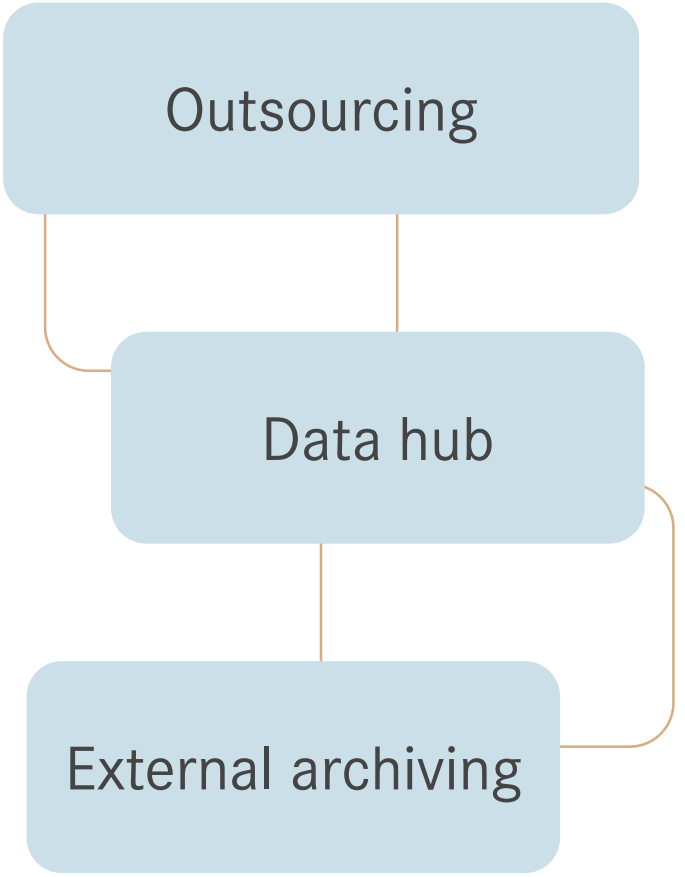


Over the Years
Field of Application and Deployment

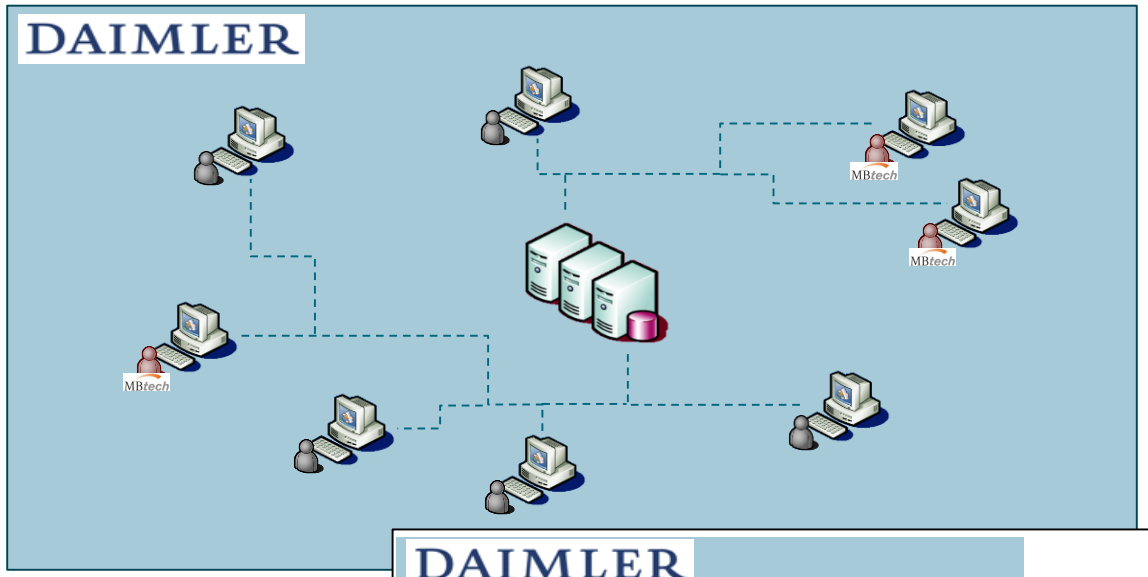
Outsourcing Development Scope

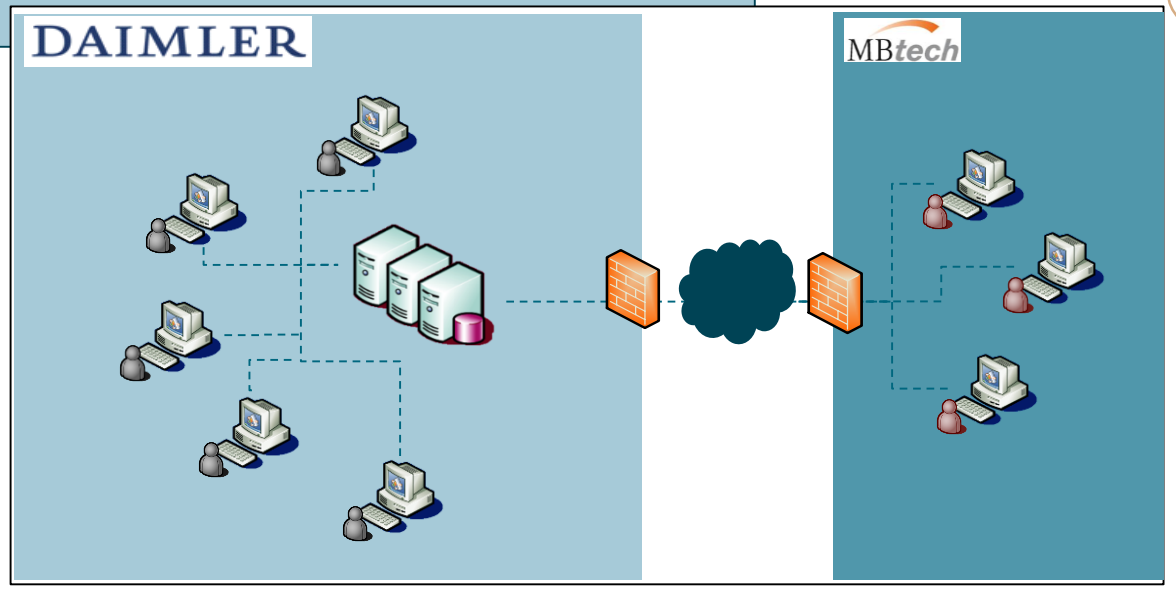


Quelle: André Schwarz, ITC/DT, 12.12.2004



Outsourcing of the Affiliate Company



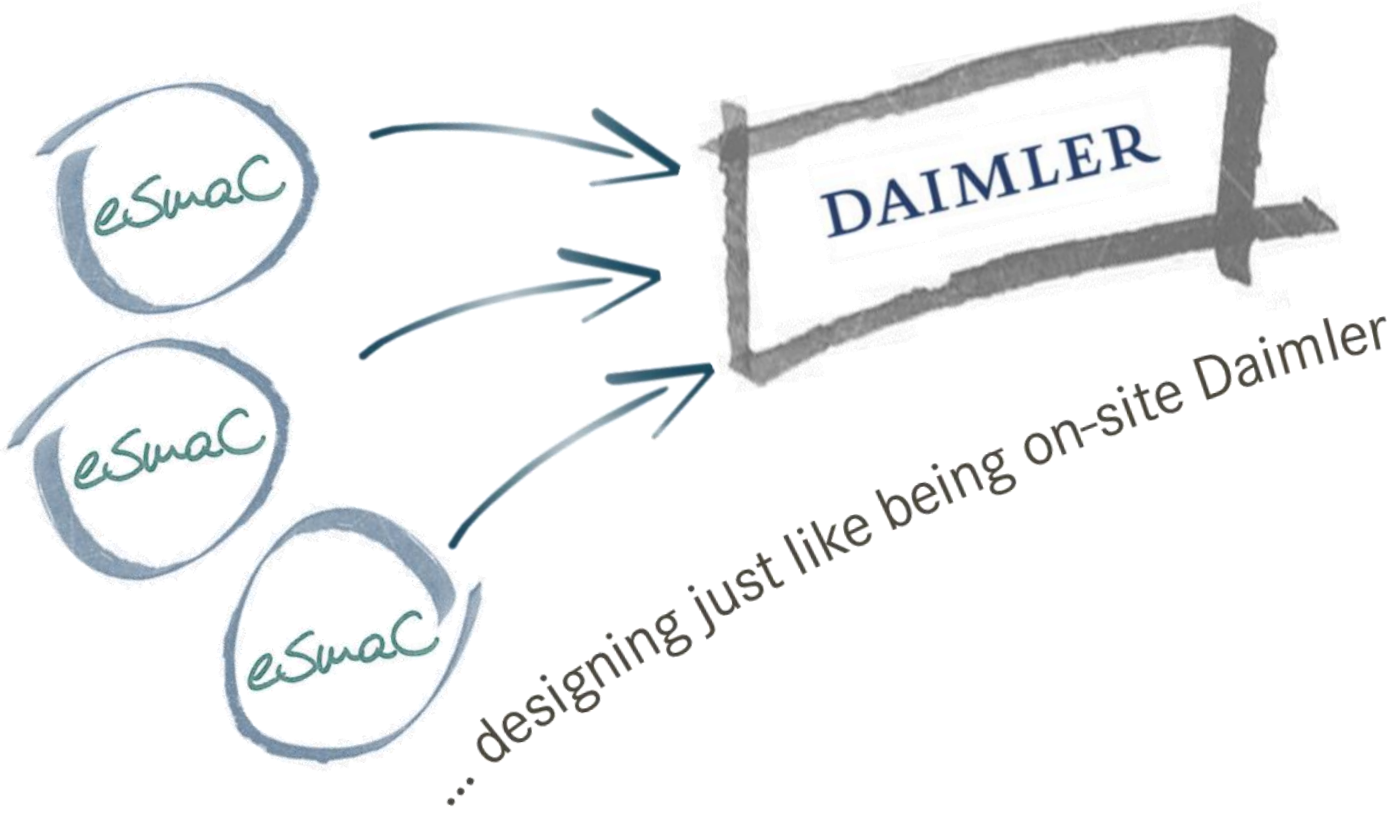


Partition
Affiliate Company

Network Separation

Service Performance
Off-Site

Relocation of External Labor Forces



Relocation
External Labor Forces

Business Partner
Integration

Service Performance
Off-Site

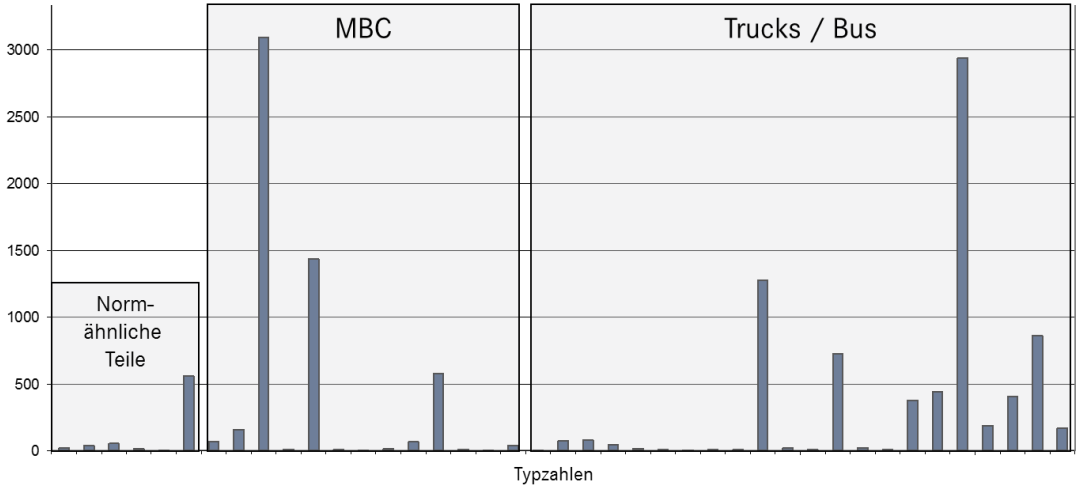
Choice of Tool: eSmaC

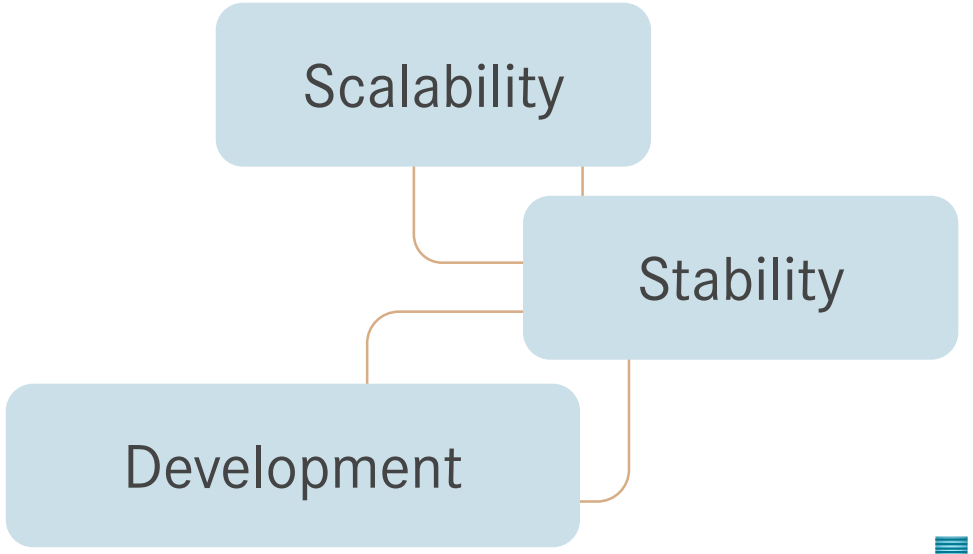
Datenarchivierung über eSmaC
Zahlen und Fakten 2010

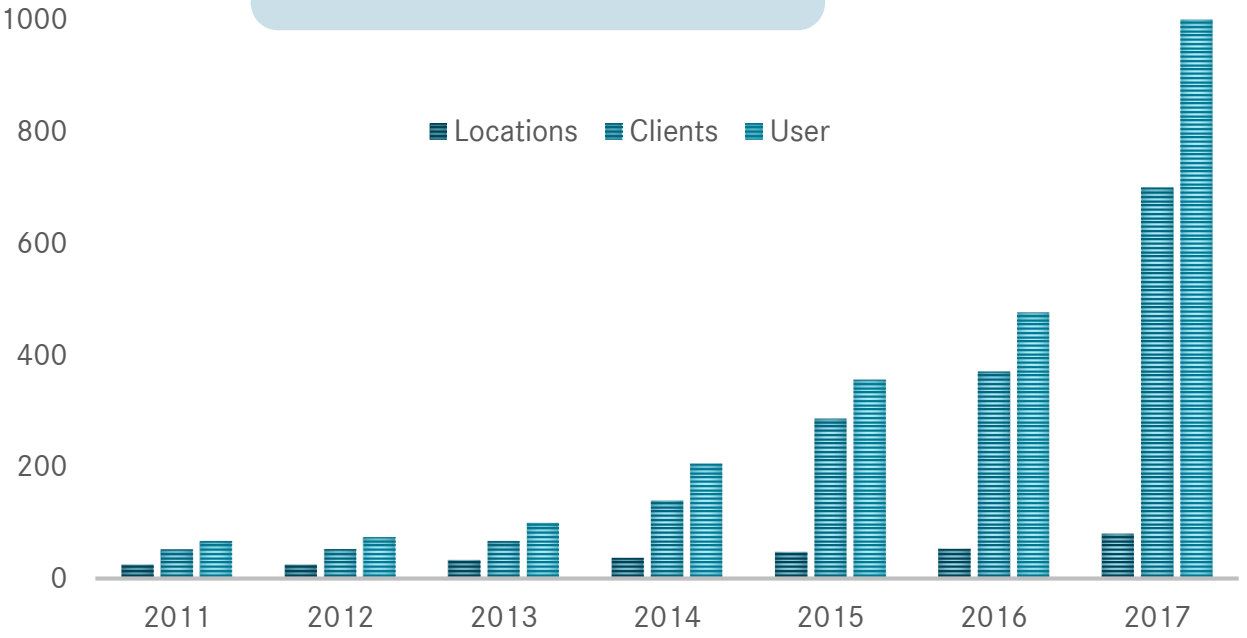
Übersicht: eSmaC Anbindungen

• Standorte:	24
• Clients:	48
• SMARAGD User:	67

Durch xxext User befüllte SNR im PDM-System die zu einer Bauteilfreigabe geführt haben (**01/ 2009 bis 10/2010**)



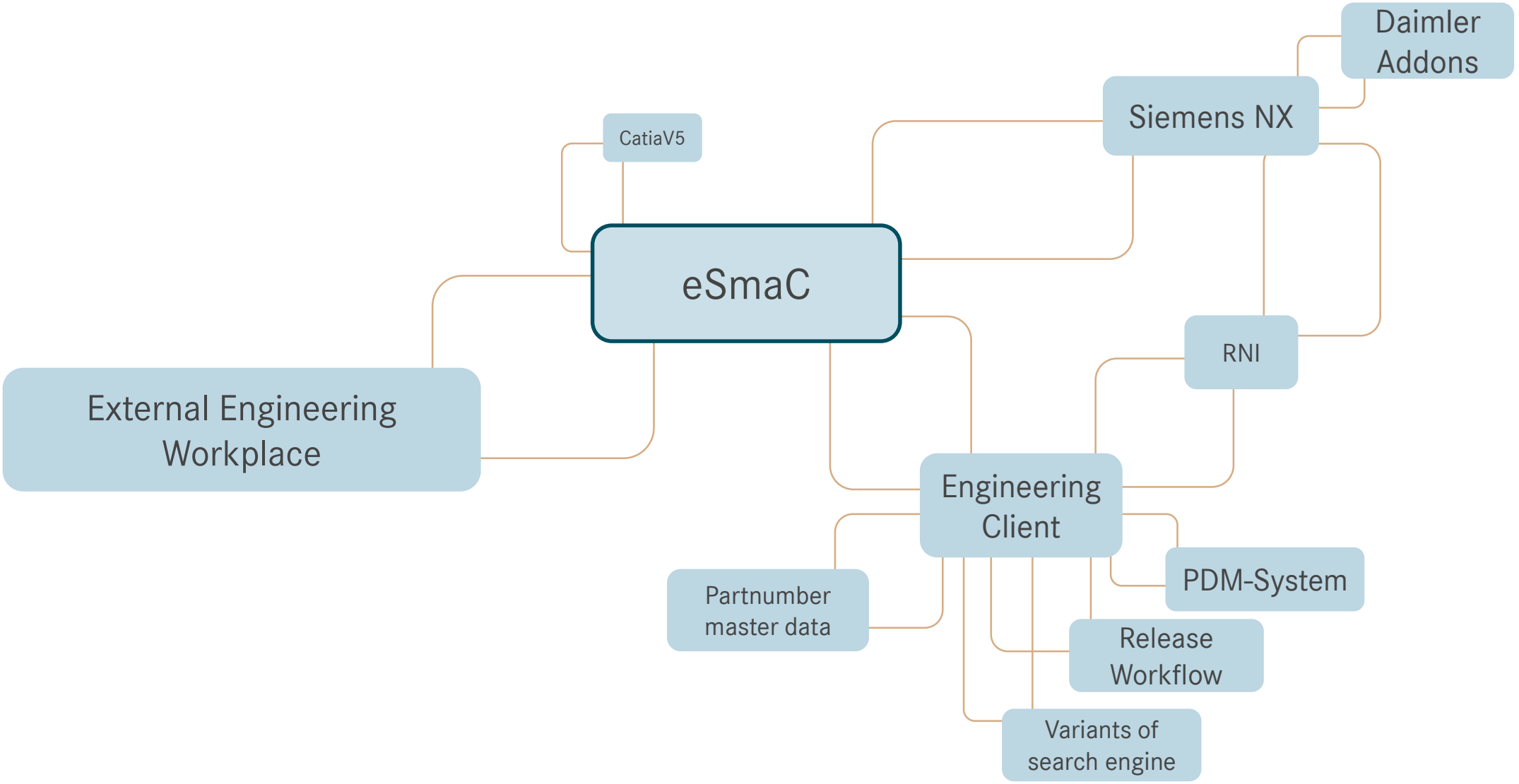




Over the Years
Continuous Development and Adaption

The Reason for our Success

Applications in Transition



Technology in Transition

UNIX
Start 2004

OS-Installation customer
Inconsistent Operation System
Inconsistent Hardware Types
Time-consuming, manually Software Installation
Connection via ENX + MPLS
SESAM Authorization

Windows XP
Start 2008

Target:
Standardisation of Hardware and OS
Central Software Management
Automatised eSmaC-installation

2010:
SESAM Portal via Token authorization
2011:
Provision DMU-Downloads
Introduction VPN IPSec
Introduction EC-Client

Windows 7
Start 2012

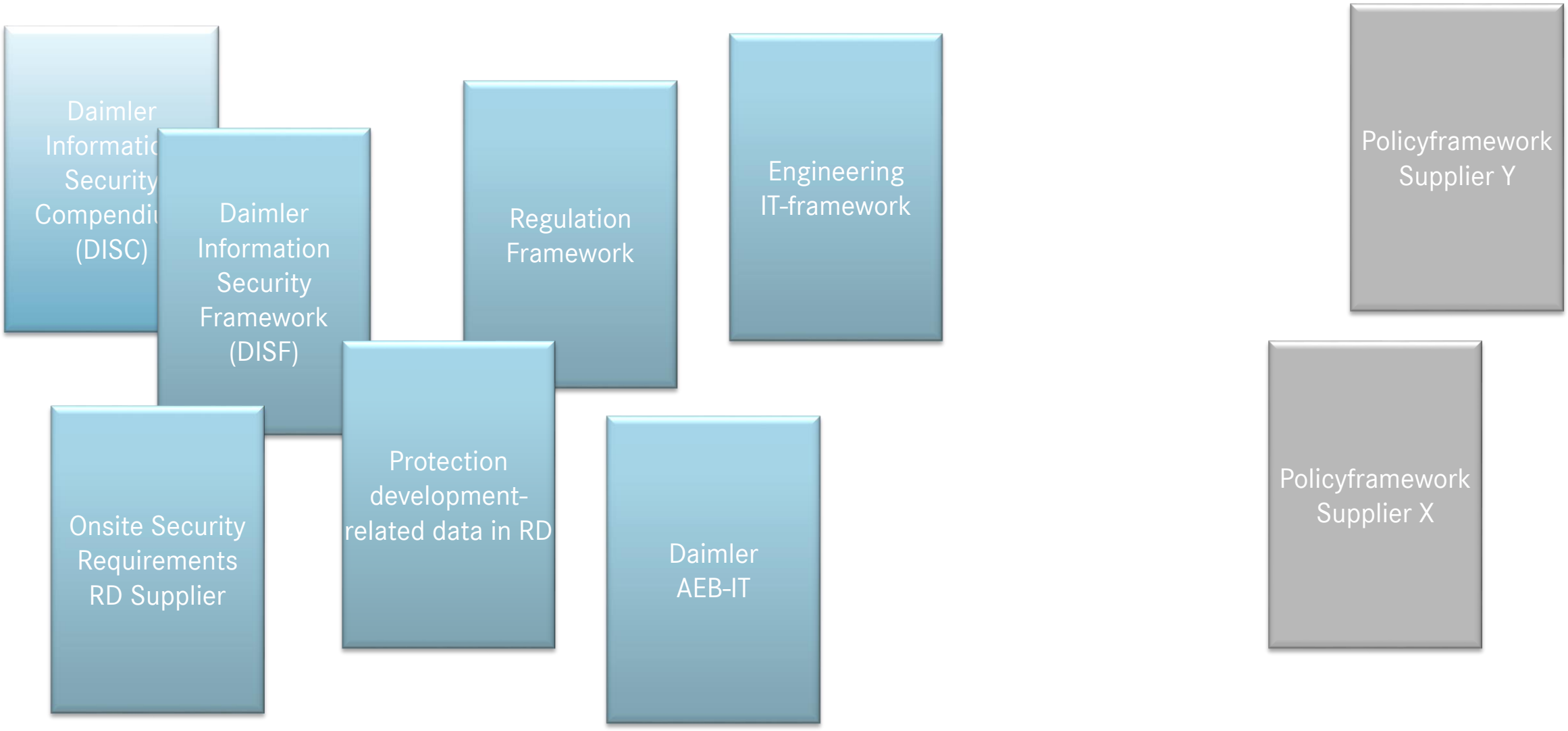
2015:
EEW integration on all eSmaCs
2017:
XXEXT-User Migration

Over the Years
IT Security

Challenging IT Security

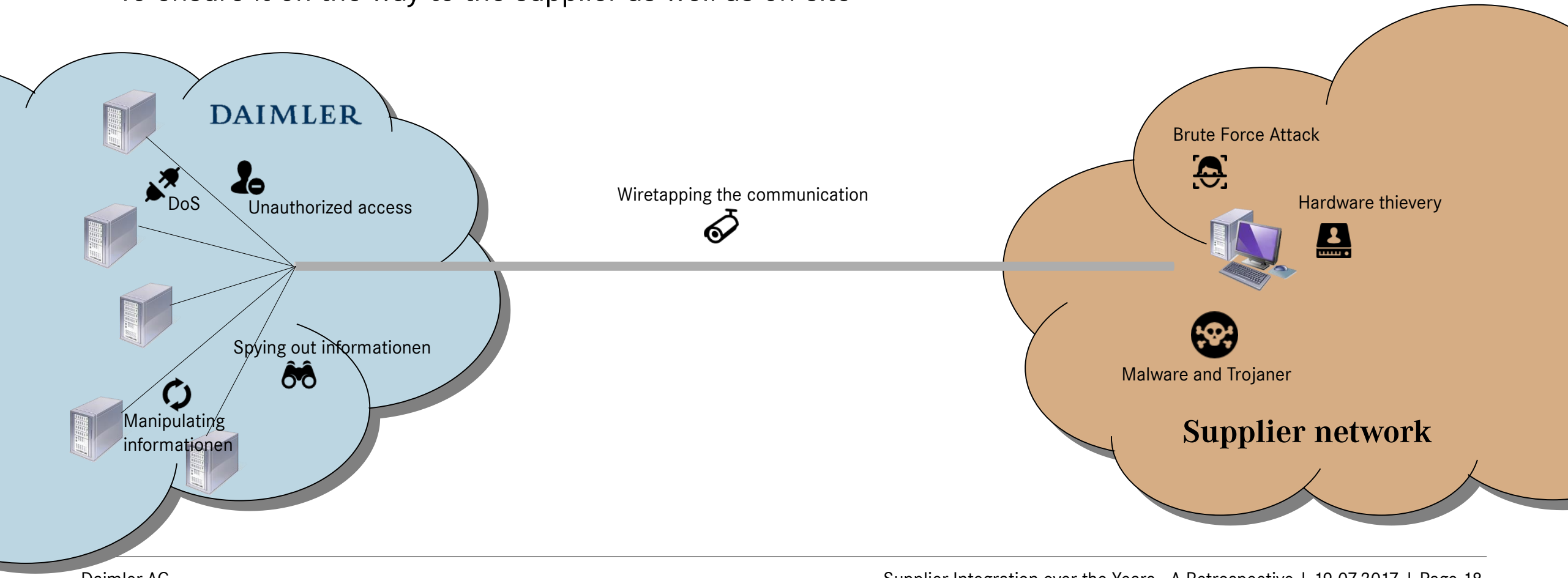
- IT-security of a supplier integration is the most challenging for both parties
- Guidelines as well as technical and physical data have to be reconciled
- Any action must be taken into account in the light of risk and economic viability
- Security and usability have to be carefully considered
- The environment of IT-security is constantly facing a high increase of threats

Guidelines Map



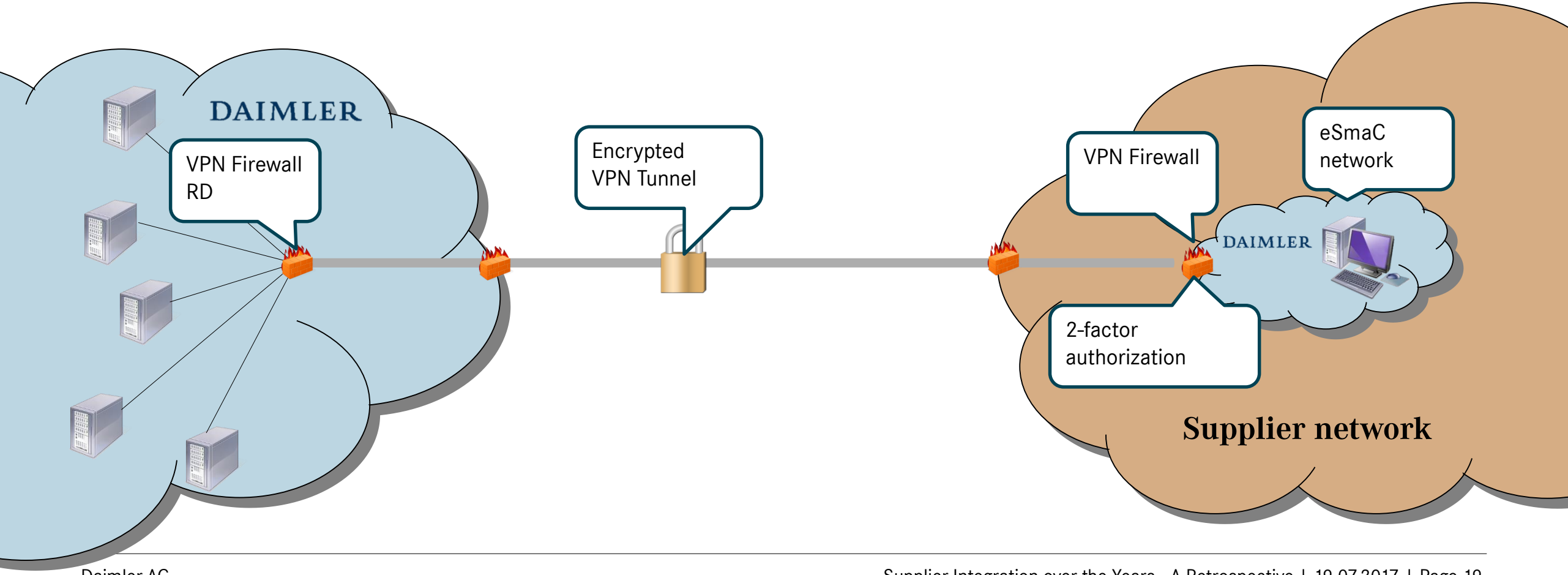
Technical Security Measures

- Keeping the data confidential during development
- To ensure it on the way to the supplier as well as on-site



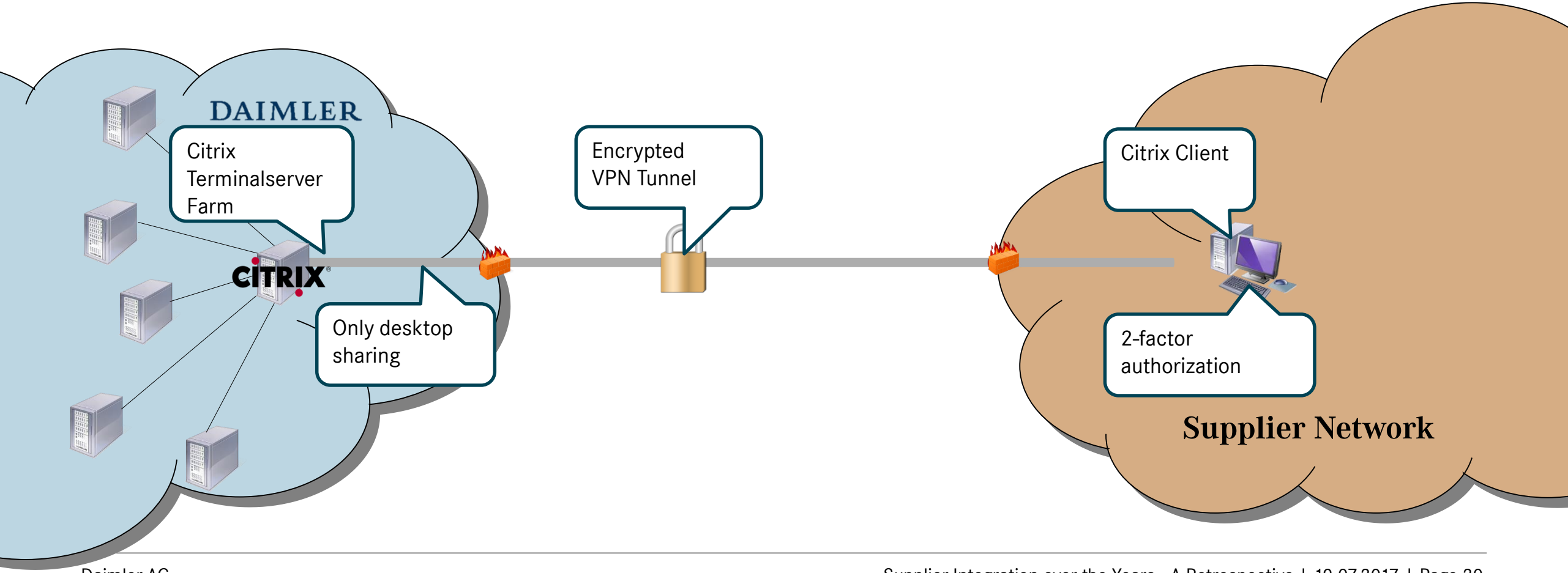
Technical Security Measures

- eSmaC Solution:
  Setup of a safety environment on-site the supplier



Technical Security Measures

- EEW Solution:
  Remote Desktop Access from the Supplier Network onto the Engineering Environment



Organisational Measures

Physical and organisational measures depending on information classification / protection requirements.

Requirements:

- Project room
- Network
- Access control and management
- Training the staff
- ISO 27001 Certificate
- ...

Challenges for the future

- **Bandwidth**:
  Connections up to 1.000 Mbit/s require high-performance systems

- **Agility**:
  Project lead times are getting shorter

- **Internationalisation**:
  Business Partner Integration needed in different time zones and for long distance connections

Conclusion

THANK YOU