



# **Aras at GETRAG First Download to Strategic Partnership**

# Agenda

1. Who we are
2. Where we started
3. Implementation philosophy
4. Applications supported by Aras
5. Success factors
6. Where do we go from here

A blurred photograph of three people in an office setting. A woman on the left is looking down at a document. A man in the center is looking at the same document. A man on the right is pointing at the document. The background shows office windows and blinds. There are red rectangular overlays on the left side of the image.

# GETRAG Overview

# Product Portfolio

Worldwide system supplier  
for transmission systems

ManualShift



PowerShift



Extended  
Drive



HybridDrive



eDrive



## We deliver worldwide

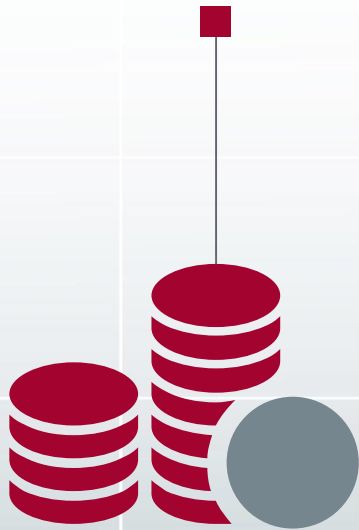
Partner of all major automotive manufacturers worldwide



GETRAG in figures

# Key Facts 2013

**3.2** Billion EUR



Sales

**3.9** Million transmissions



Global production

**13,250**



Employees

# Structure of GETRAG

The GETRAG Companies are split into three operational business units:

## GETRAG

### GETRAG Operations

- GETRAG Getriebe- und Zahnradfabrik Hermann Hagenmeyer GmbH & Cie KG
- GETRAG International GmbH
- GETRAG s.r.o.
- GETRAG S.p.A.
- GETRAG Americas GmbH
- GETRAG Transmissions Corporation
- GETRAG Transmission Manufacturing de Mexico S.A. de C.V.

### GETRAG FORD Transmissions

- GETRAG FORD Transmissions GmbH
- GETRAG FORD Transmissions Sweden A.B.
- GETRAG FORD Transmissions Slovakia s.r.o.
- GETRAG Transmissions India Private Ltd.

### GETRAG Asia Pacific

- GETRAG Asia Pacific Transmission Technology (Shanghai) Co. Ltd.
- GETRAG (Jiangxi) Transmission Co. Ltd.
- Dongfeng GETRAG Transmission Co. Ltd.

## GETRAG worldwide



**23 locations worldwide in Europe, North America and Asia**  
**14 individual companies**



A blurred photograph of three people in an office setting. A woman on the left, a man in the center, and a man on the right are gathered around a table, looking at documents. The image is intentionally out of focus to create a sense of motion and activity. A red graphic element, consisting of a vertical bar and a horizontal bar, is overlaid on the left side of the image.

## Where we Started

## Where we Started

- PDM systems for managing I-DEAS / ProEngineer implemented
- SAP and legacy applications for ERP
- PLM Strategy developed but never implemented
  - Individual projects not cost efficient enough
  - Flexibility of existing systems limited
  - Cost of ownership
- Long lead time to align requirements
- High pressure to provide tactical solutions

## Where we Started Question

Do we need a PLM *system*?

No !

We need a solution to our problems.

Some people may call this PLM.

# Where we Started Expectations

## What should we expect from PLM

- Single source of truth
  - Store information only once
- Support day to day work of e.g. engineers
- Provide insight to support management decisions
- Deliver results fast
- Adapt to our (changing) requirements
  - Global co-operation
  - New projects / customers / JVs
  - Access control / IP handling
- Integrate with current environment / applications

A blurred photograph of three people in an office setting. A woman on the left is looking down at a laptop. A man in the center is looking at the laptop. A man on the right is pointing at a document on the table. The image is overlaid with a grid of white lines and a semi-transparent red square on the left side.

# Implementation Philosophy

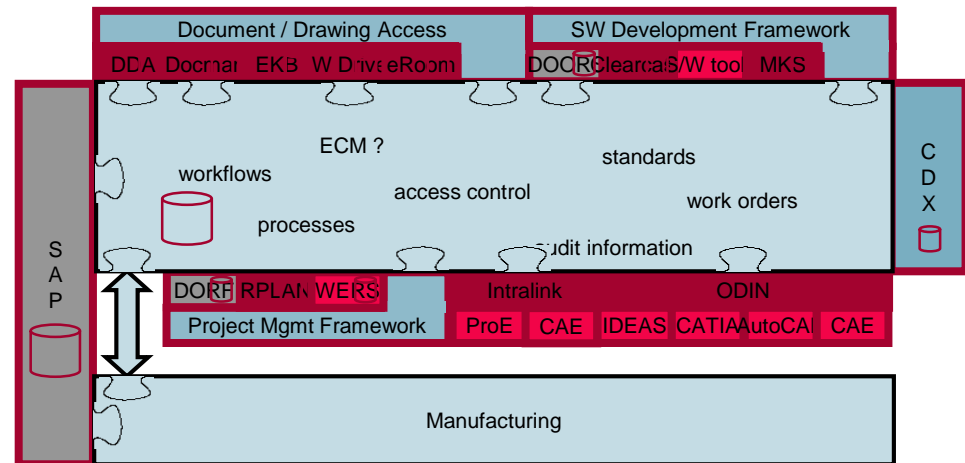
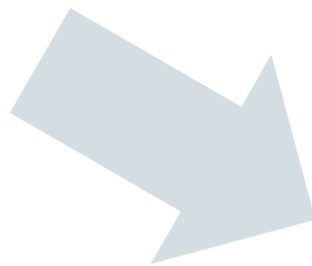
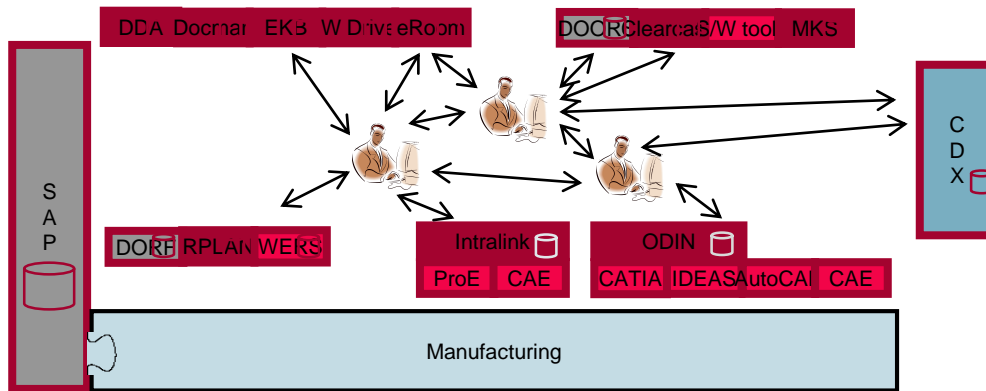
# Implementation Philosophy

## GETRAG's PLM approach

- Step by step implementation of „applications“
  - Provide tactical solutions instead of strategic
- Evolutionary application implementation
  - Deliver first results / benefits fast
  - Iterate to improve after getting real life feedback
- Customized out-of-the box system
  - Base development on a „framework“
- Dedicated lead for each application
  - Business to provides single point of contact
- Overall governance to ensure interoperability
  - IT ensures that individual „applications“ co-operate
- Provide integration platform
  - Integrate rather than replace existing solutions

# Implementation Philosophy

## Provide Integration Platform



A photograph of three people (two men and one woman) in a meeting, looking at a large document or blueprint on a table. The image is overlaid with a grid of white lines and a semi-transparent red square on the left side.

## Applications supported by Aras



## Applications supported by Aras

- Drawing Management
  - 1st application for 50 users in one location
  - Management on AutoCAD files; no AutoCAD integration
  
- Approval workflow(s)
  - Simple workflow replacing EXCEL & Email
  - Users in 3 locations across Europe
  - Implementation of KPIs to identify process bottlenecks
  
- Project budget calculation for Product Development
  - Handles the whole process „request for quote“ – effort estimation – quote
  - Delivers PD budget / headcount figures based on „approved projects“
  - Used by PD, Sales, Controlling

## Applications supported by Aras (2)

- Quality data handling
  - Replaces multiple local applications by central solution
  - Used in 5 locations across Europe by several 100 users
  - Interface to customer's quality system => easy identification / tracking of issues
  
- CAD data management
  - Handling of ProEngineer & CATIA data
  - Integration into CAD system
  - Global roll-out in 2015
  
- and several more ....

Number of active users increased from **50 to ~800** from 2010 to 2014

A blurred background image of three people in an office setting. A woman on the left is looking at a laptop, a man in the center is looking down at a document, and a man on the right is pointing at the document. The image is overlaid with a grid of white lines.

# Success Factors

# Success Factors

- Build credibility
  - Start with tactical solutions
  - Deliver positive results fast
  - Quickly react on customer feedback
- Agile development approach
  - Minimize up-front specification effort
  - Learn as you go
  - Implement what is *really* required vs. what has been specified
- Inhouse resources
  - having process & system / tool knowledge
- Aras' flexibility
  - Easy to customize / prototype
  - Flexible data model

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**Where do we go from here**

## Where do we go from here

- Global roll-out
  - Include development centers in Europe, US & China
  - Support central data management, easy data exchange
  - At the same time allow local customizations / applications
  
- Develop PLM Strategy (again)
  - Address strategic solutions, e.g. document management
  
- Interface with ERP
  - Move from confrontation PDM <--> ERP to „use the best tool for the job“

## Where do we go from here Strategic Partnership

- Ensure continuity
  - Long term commitment from both sides
  - Stable personal relationships
- Provide functional enhancements

Make sure that critical functionality is included in the Aras core

  - Tight access control
  - Data replication
- Influence Aras road map
  - Ensure that GETRAG's PLM plans and Aras' roadmap are in sync

**Thank you for your attention**