



# Transforming Consumer Goods Innovation Metabo's 3DEXPERIENCE Journey

3DEXPERIENCE Conference Eurocentral

18.10.2023

# Agenda

---

1. Introduction
2. Metabo's 3DEXPERIENCE Journey
3. Why 3DEXPERIENCE ?
4. SmarTeam – 3DEXPERIENCE Migration
5. Release Upgrade R2020x
6. Integration China Development Center
7. Document Management
8. Release Management
9. Change Management
10. Next Steps

PROFESSIONAL | Facts & Figures

# Engineering for the world

Production in  
Nürtingen  
& Shanghai

2000  
employees  
worldwide  
(of which about  
1200 in  
Nürtingen)

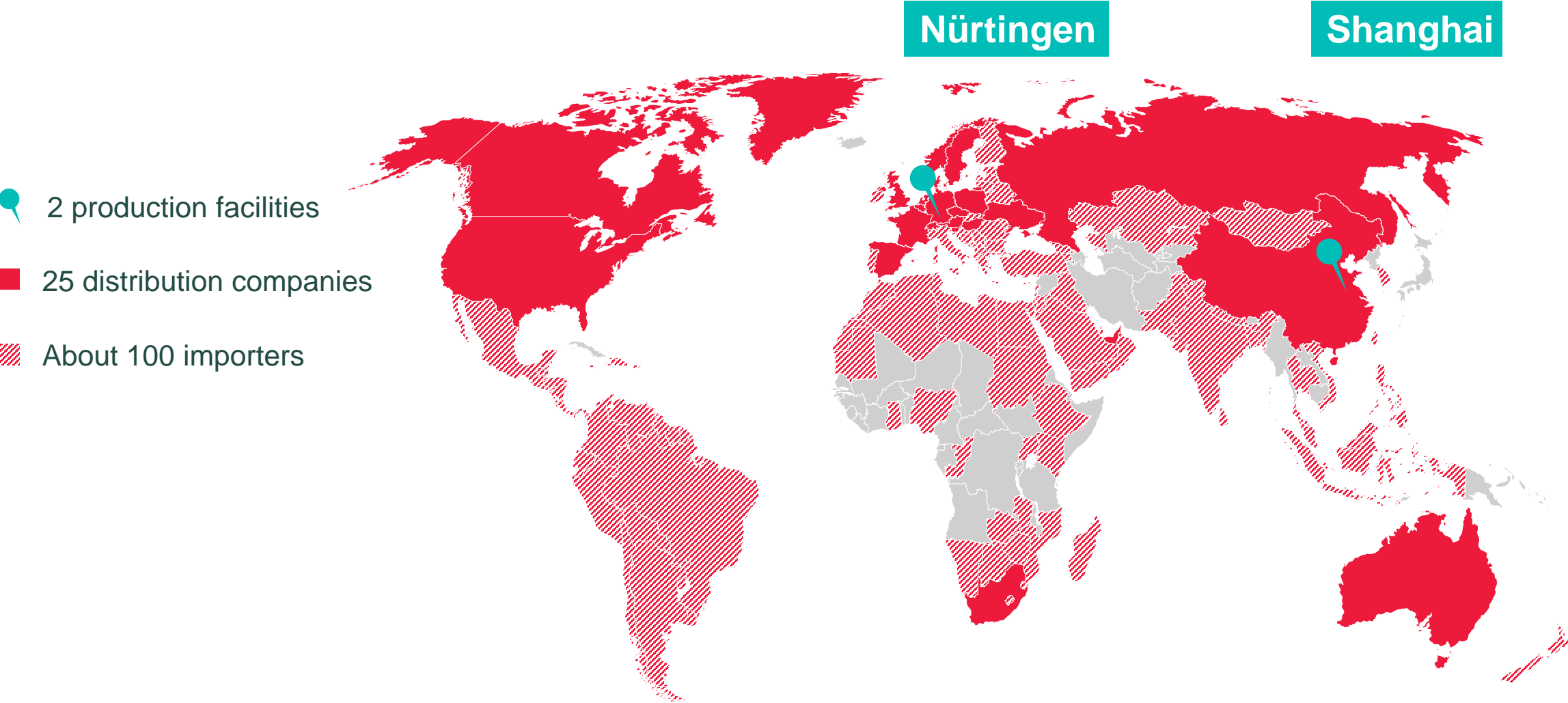
80%  
Export  
ratio

More than  
50 trainees

638  
Mio. Euro  
revenue  
(2021/22)

Part of Koki  
Holdings  
group

**metabo**<sup>®</sup>





POWER | Battery

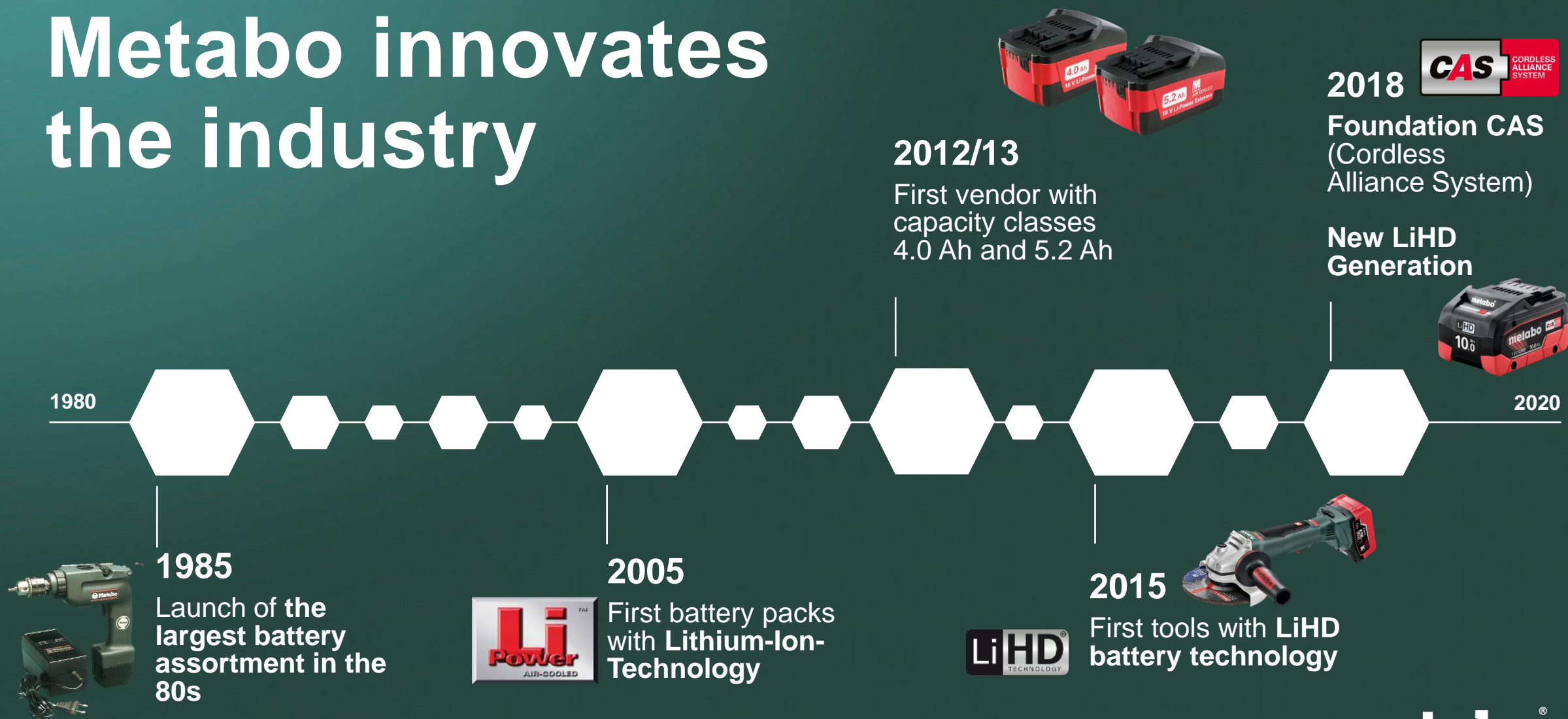
*cordless by nature*



**metabo®**

POWER | Battery

# Metabo innovates the industry



**metabo**<sup>®</sup>

TOOLS | SELECTION

# Our Portfolio

Battery



Power Cable




Air Pressure



Accessories

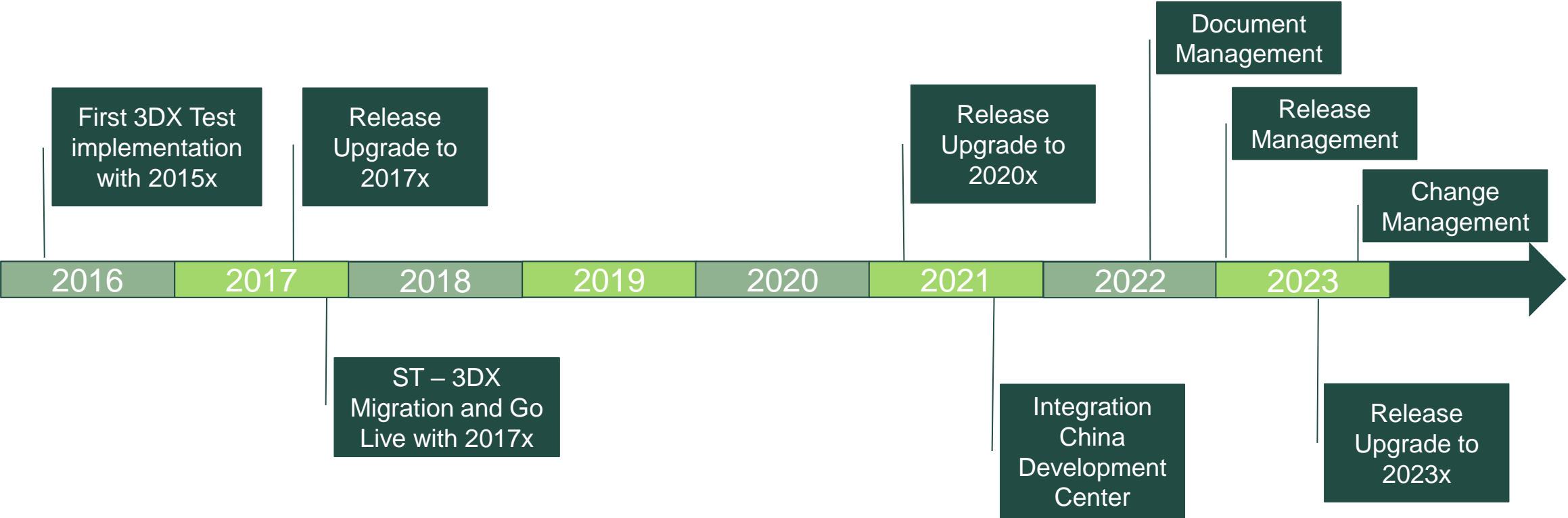


**metabo**<sup>®</sup>

- valexcon GmbH, established in April 2021, founded by a group of former IBM Deutschland GmbH employees, is focussing on the delivery of Dassault Systèmes related PLM Services
- valexcon GmbH is a Dassault Systèmes CSI Partner   
**SYSTEMS INTEGRATOR**
- valexcon GmbH proposes a whole set of services and solutions for the PLM market
  - Program- and Project Management
  - Advisory and Implementation Consulting
  - Customization and Development of Software Modules
  - Technical Support and Maintenance Services
  - Data Migration Services
- valexcon GmbH is a highly skilled team that have made key contributions to over 100+ PLM projects worldwide
- valexcon GmbH is the partner of choice for Metabo for nearly 20 years



# Metabo's 3DEXPERIENCE Journey



# SmarTeam – 3DEXPERIENCE transition

---

- Metabo has been using ENOVIA SmarTeam and CATIA V5 for more than a decade as the backbone of its product design activities
- In 2015, looking forward for the next product innovation steps, **Metabo decided to transform its product development process** to enable a larger product portfolio growth
- To support this, a new generation software was needed, and so the 3DEXPERIENCE investigation started
- One unsolved major topic in the transformation was the data migration
- Metabo decided to implement the **SmarTeam – 3DEXPERIENCE On Demand Migration Solution** from IBM (nowadays valexcon)



# SmarTeam – 3DEXPERIENCE transition

---

## The reasons for this were:

- The enablement of a coexistence scenario where the users can decide what needs to be migrated.
- No need for a time consuming and expensive big bang.
- Metabo was able to start quickly with the migration, adjust the migration if needed, proceed with delta migration at any time and keep the full version history of the data.

**→ Metabo went live with 3DEXPERIENCE CATIA 2017x in 2017 without any data loss.**

## 3DEXPERIENCE R2020x Release Upgrade

---

- After 3 years of production with 3DEXPERIENCE 2017x and looking for the next steps in its transformation journey, **Metabo decided at the end of 2020 to upgrade the 3DEXPERIENCE to 2020x.**
- The upgrade project started in February 2021 and successfully ended in October 2021.
- One of the major challenge, parallelly to all the infrastructure challenges, was the transition to the **new widget-based dashboard technology of 3DEXPERIENCE.**
- A lot of investigation were upfront necessary to validate the capacity of 3DEXPERIENCE to properly support the design process.
- As the purpose of the release upgrade was also to **enable additional processes within the 3DEXPERIENCE**, additional investigation towards the 3DEXPERIENCE development roadmap were necessary to secure the availability of needed functionalities.



# Integration China Development Center

---

Metabo decided to establish a **product development centre in Shanghai** in order to support its global business extension and growth targets.

In 2021 Metabo decided to give this product development site **access to the 3DEXPERIENCE platform** to strengthen the **collaboration between all development sites**.

- The Shanghai site was until then designing in CATIA V5 file based.
  - Therefore, the **data had to be migrated from file based CATIA V5 to 3DEXPERIENCE CATIA**.
  - On top of this, a new data sovereignty concept has been implemented.
- Both activities have been successfully completed **enabling an online collaboration between both sites**.

# Document Management

---

After the 3DEXPERIENCE release upgrade and the integration of the Shanghai development centre, Metabo **decided to take on the next steps in its transformation journey.**

The **generation and management of technical documentation** is an important part of the product development process and Metabo have been looking for a long while ago already to integrate this process closer with the product design process.

- Technical Documentation was managed at this time file based / outside of PDM / EDM systems.
- After a process analysis, Metabo decided to implement a part of the **technical documentation management in 3DEXPERIENCE.**

→ With this, the department in charge of technical documentation management and the product design department are able to **collaborate seamlessly on all the aspects of product development.**

# Release Management

---

The Release Management process was not part of the scope for the first implementation of 3DEXPERIENCE back in 2017.

Metabo had already implemented a release management process in SmarTeam and **decided to implement the same process in 3DEXPERIENCE** as soon as the necessary functionalities became available in 3DEXPERIENCE 2020x.

The Change Action is used to control the release process and **valexcon has customized it to collect all related object for the release**, for example all drawings and also to enable complex routes and signature process that were requested by Metabo.

# Change Management

---

The current Change Management process is based on the exchange via E-Mail and a Change Request and Order Document file based in Excel.

**This year, Metabo and valexcon have performed an analysis of the current change process** and created a high-level specification with regards to the implementation of this process in 3DEXPERIENCE 2023x.

The **implementation will start soon.**



## Next Steps

---

One of the **major next steps** in the “one Koki” transformation journey is the **integration of Metabo and Hikoki in Koki Holdings**.

Metabowerke is located in Germany, Hikoki in Japan.

One of the main activities in this integration process is the **collaboration of both entities in the product development process** to leverage as much synergies as possible.

**A transformation program has been launched** to enable first collaboration projects between both companies.

The challenge in the R&D environment are the different systems. Hikoki is using Teamcenter and NX, Metabo CATIA and 3DEXPERIENCE.

**The final target for both brands will be to collaborate on the 3DEXPERIENCE Platform.**

