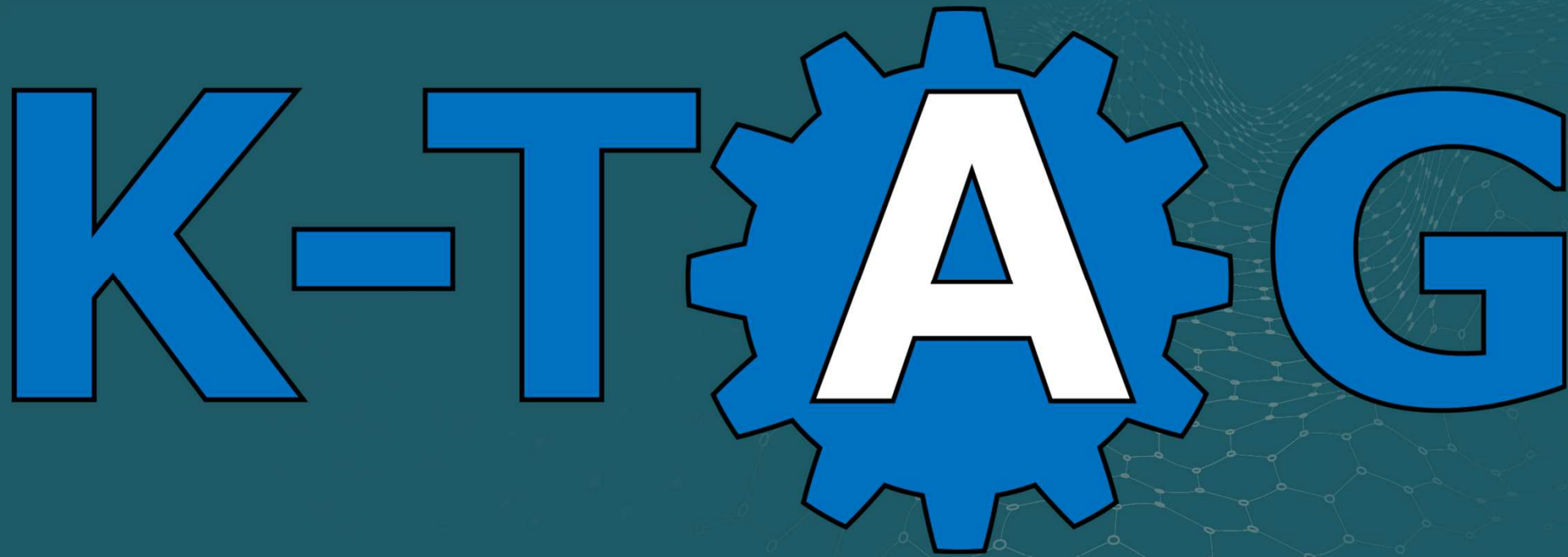


# TECHNIA – CUSTOMER SUCCESS

MULTICAD DATA MANAGEMENT



TECHNIA  
ADDNODE GROUP

# CONTENT




**TECHNIA GmbH**  
Thomas Giffels  
*Consultant - Customer Success*

Contact: [thomas.giffels@technia.com](mailto:thomas.giffels@technia.com)

**TECHNIA**  
ADDNODE GROUP

|                                    |                                     |              |
|------------------------------------|-------------------------------------|--------------|
| <b>PLM &amp; Prozesslösungen</b> > | <b>Dassault Systèmes Software</b> > | 3DEXPERIENCE |
|                                    |                                     | ENOVIA       |
| <b>Produktentwicklung</b> >        | <b>TECHNIA Software</b> >           | EXALEAD      |
|                                    |                                     |              |
| <b>Simulation</b> >                | <b>Service</b> >                    |              |
|                                    |                                     |              |
| <b>Fertigung</b> >                 | <b>Lösungen</b> >                   |              |
|                                    |                                     |              |
| <b>Softwareentwicklung</b> >       | <b>Schulung</b> >                   |              |
|                                    |                                     |              |



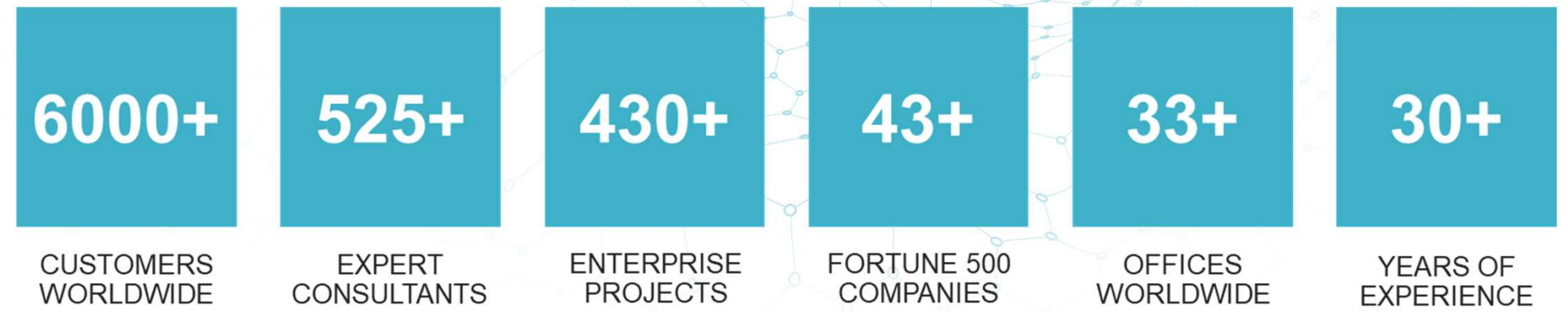
**Systemintegration**

Fertigungsprozesse sind von vielen Systemen und Prozessen abhängig. Eine wirksame Systemintegration ist ein entscheidender Schritt für die organisatorische Effizienz.

[Lesen Sie mehr >>](#)

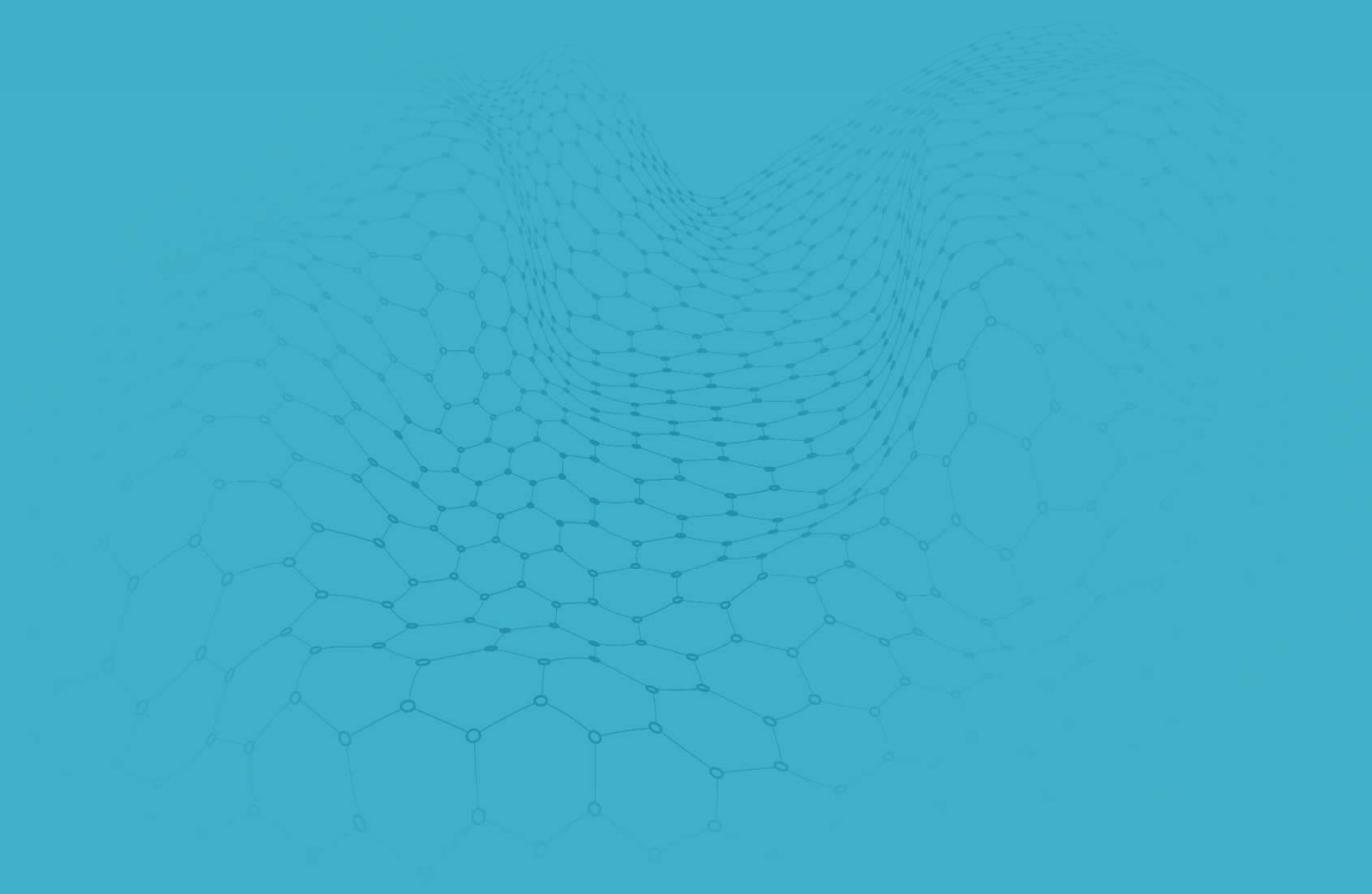
For more information → go to:

- <https://www.technia.de/>
- <https://www.addnodegroup.com/>



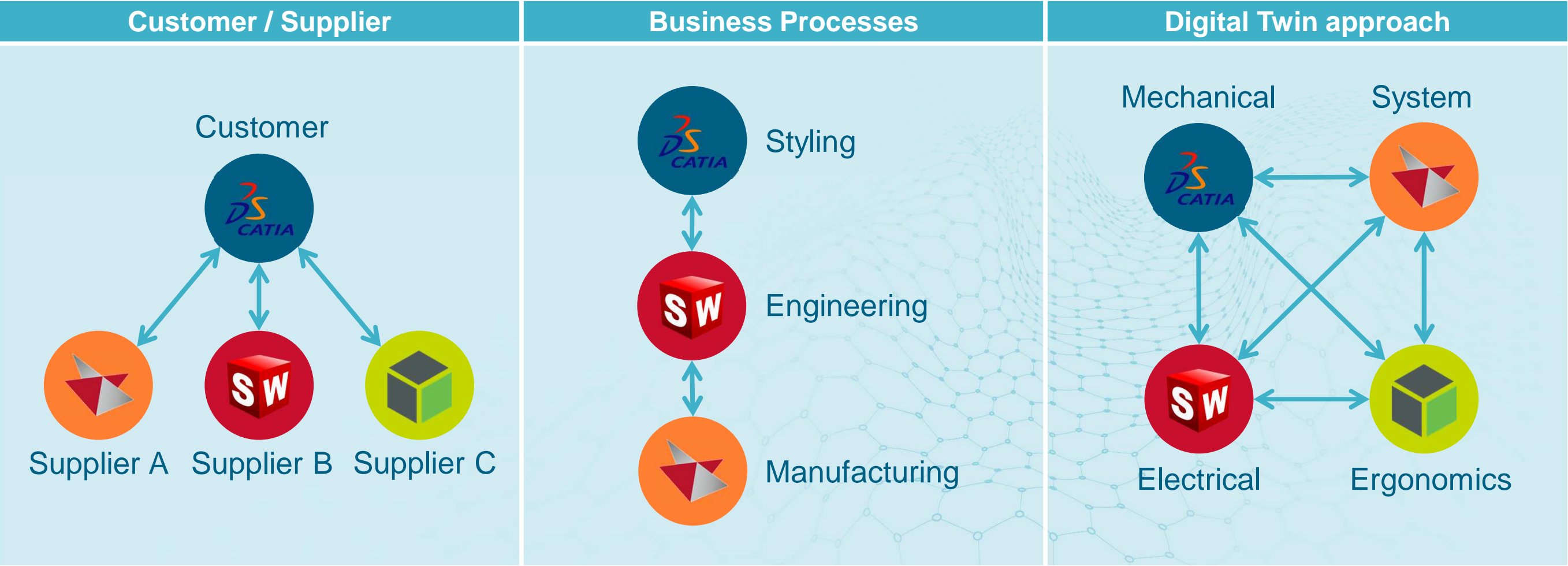
# STRATEGIC

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# MULTICAD DATA MANAGEMENT APPROACH

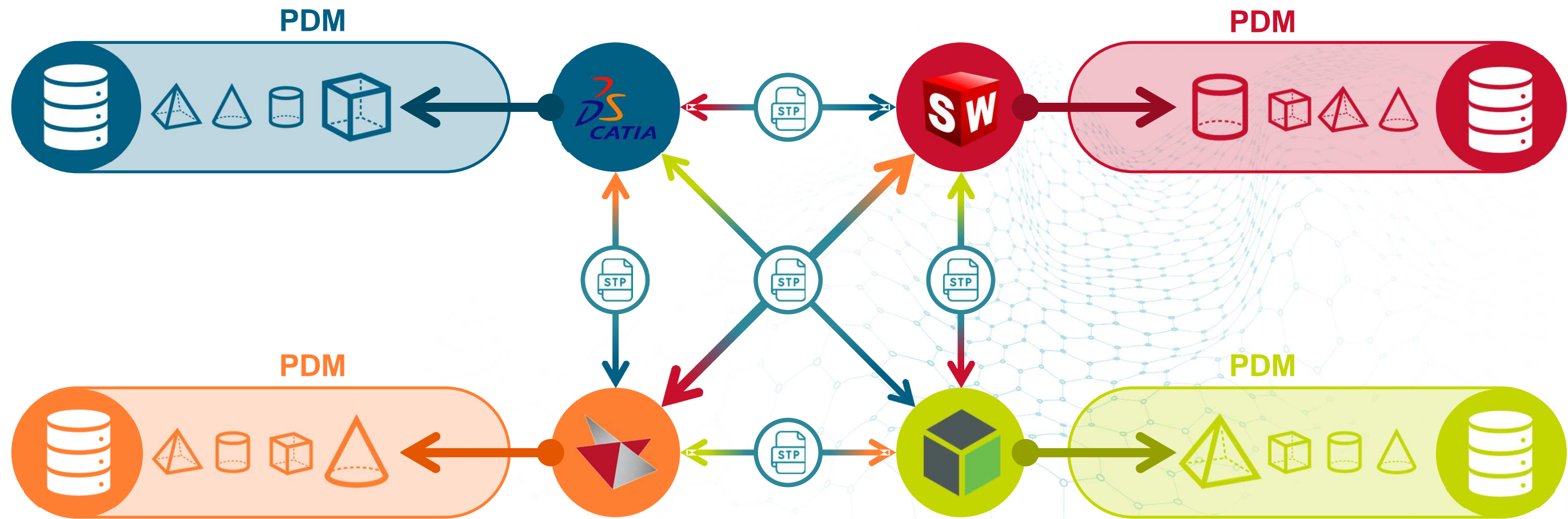
## MultiCAD reason





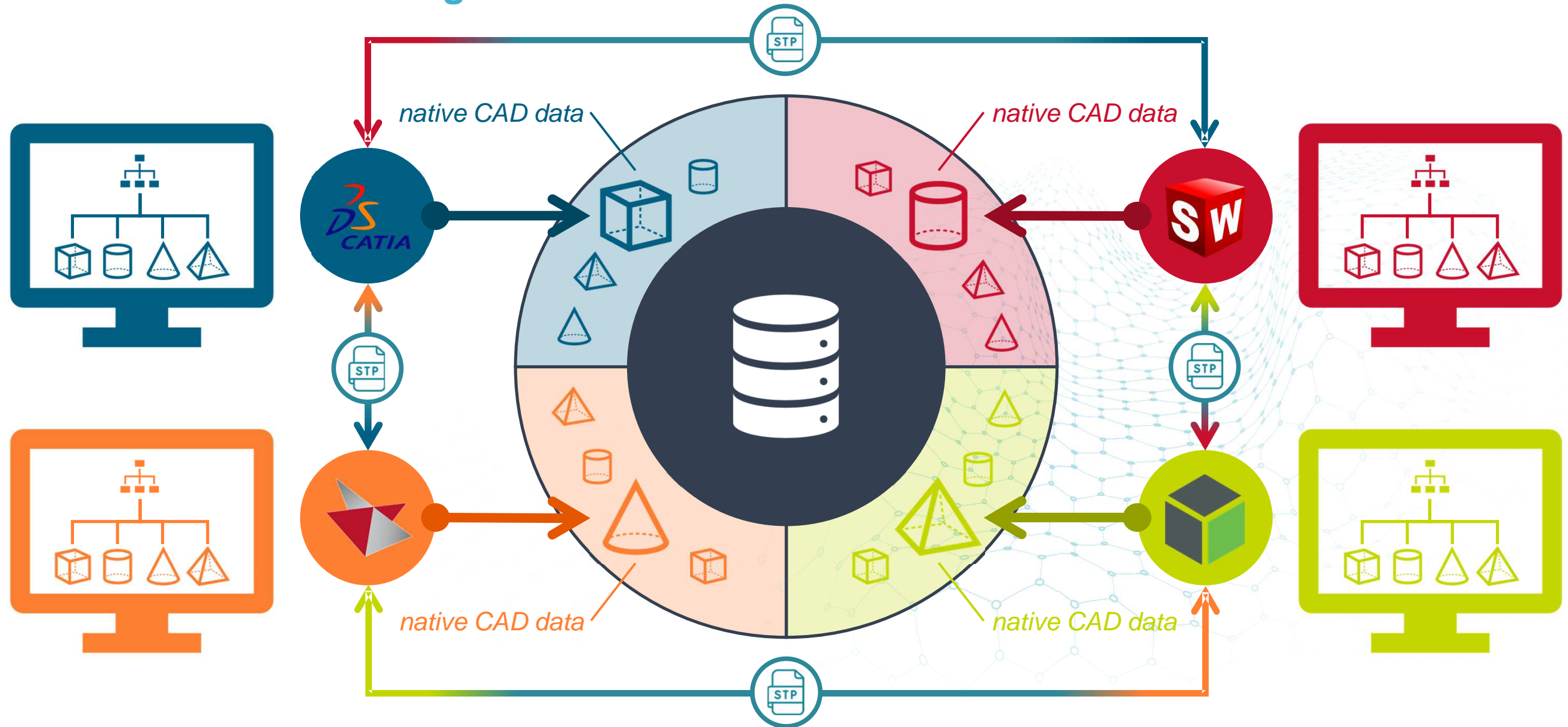
# MULTICAD DATA MANAGEMENT APPROACH

## PDM CAD data management



# MULTICAD DATA MANAGEMENT APPROACH

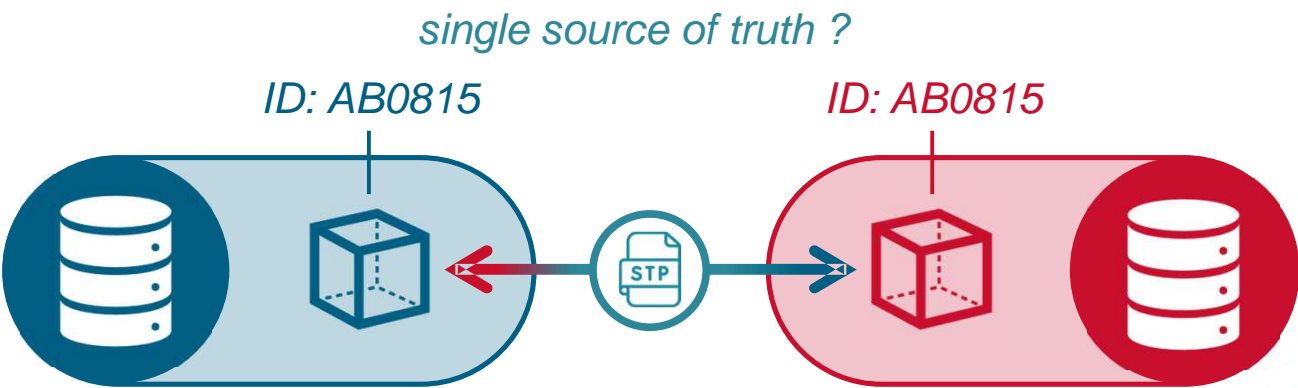
## PDM MultiCAD data management



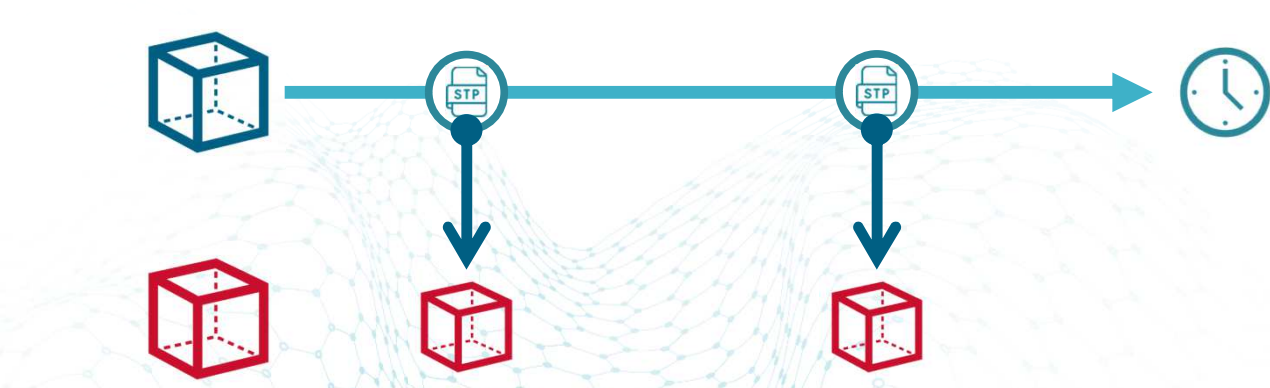
# MULTICAD DATA MANAGEMENT APPROACH

## Issue

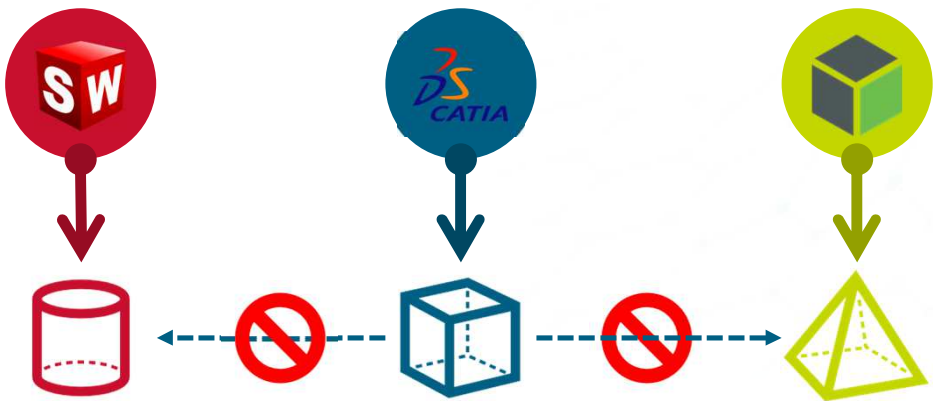
object duplication



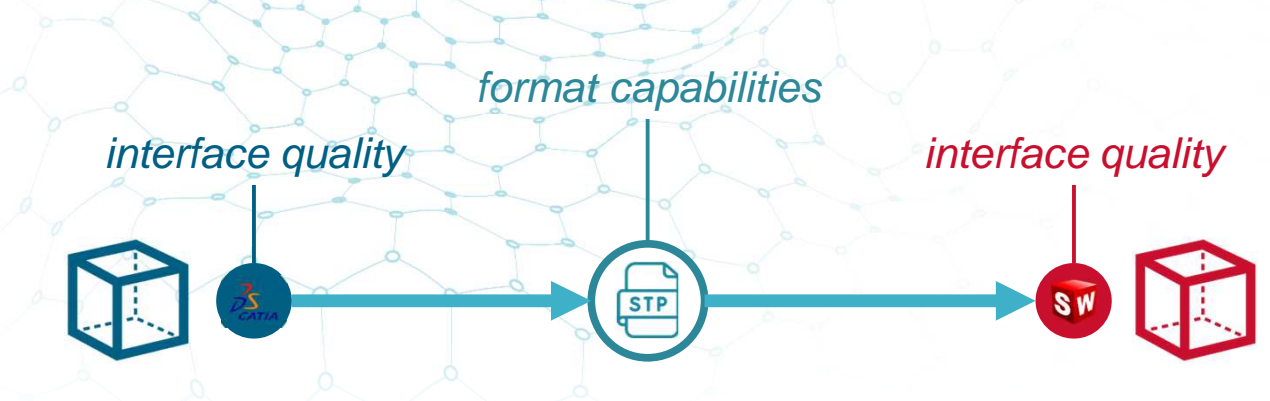
duplicate consistency



no relational design

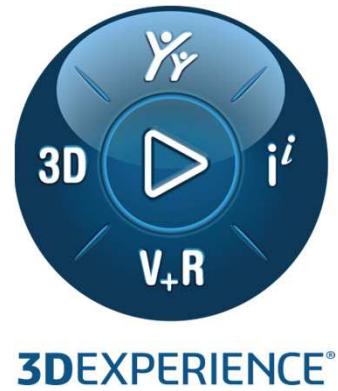


questionable data quality





# 3DEXPERIENCE PLATFORM



For more information → go to:

- <https://www.3ds.com/>
- <https://www.3ds.com/3dexperience>

## One platform, endless possibilities

The **3DEXPERIENCE** is a business and innovation platform that provides organizations with a holistic, real-time vision of their business activity and ecosystem. **It connects people, ideas, data and solutions in a single collaborative environment** empowering businesses – from startups to large enterprises, to innovate, produce and trade in entirely new ways. The platform acts as a **single version of the truth** to anchor outcome-based processes and capture all activities in one place. It securely connects individuals, teams, departments and external collaborators working together to transform ideas into innovative products, services and experiences.

### The Platform for Design Teams

All aspects of your design process from early concept to production on a single platform

### The Platform for Engineering Teams

All aspects of your innovation process on a single platform for real-time collaboration and multidisciplinary development

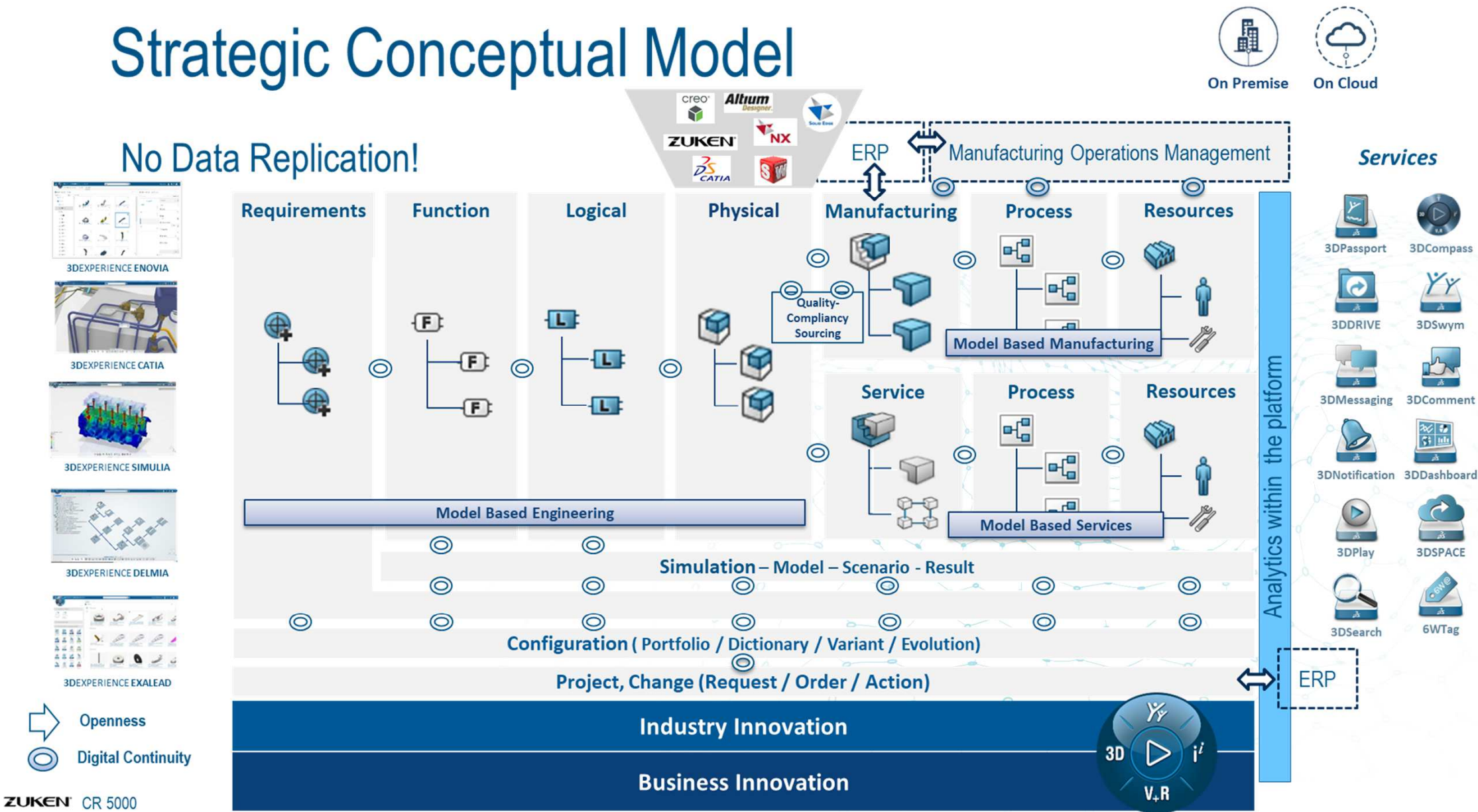
### The Platform for Manufacturing & Operations Teams

All aspects of your manufacturing on a single platform for operational excellence and resilience

### The Platform for Sustainability Teams

All aspects of your business on a single platform to imagine sustainable innovations

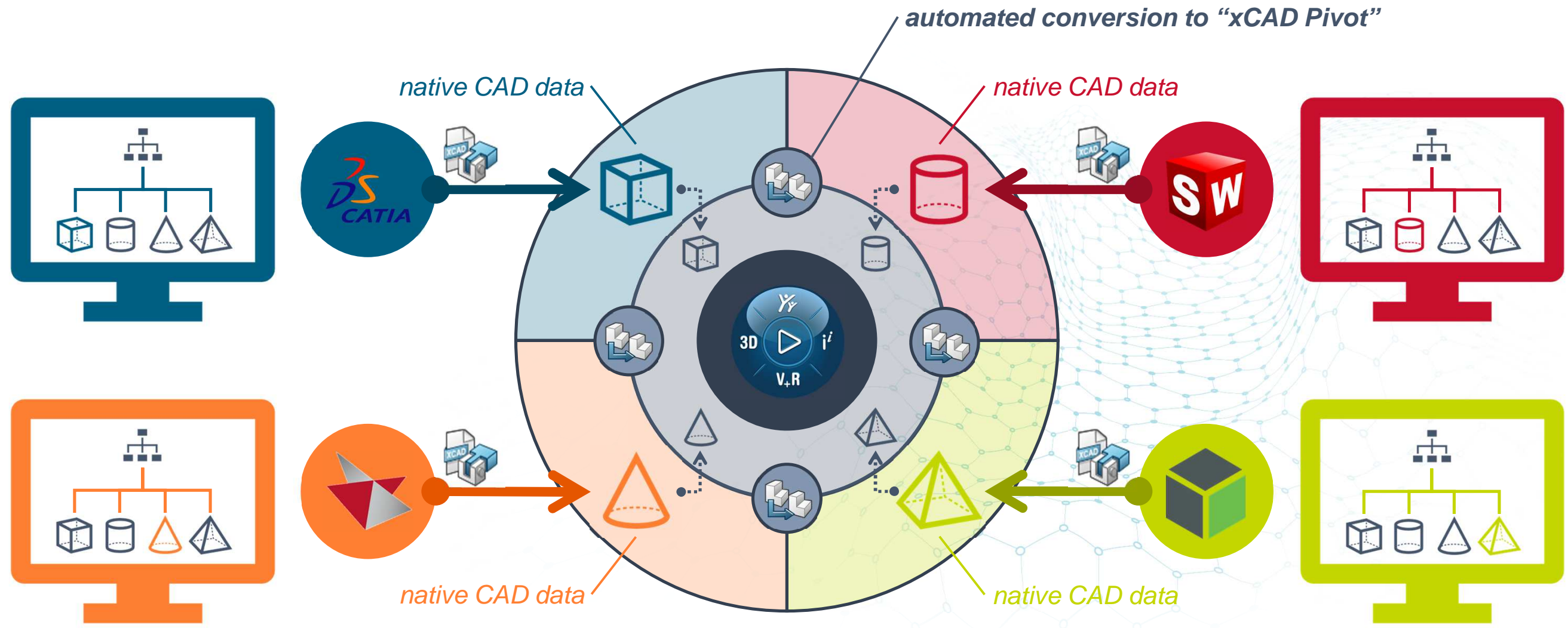
## Strategic Conceptual Model





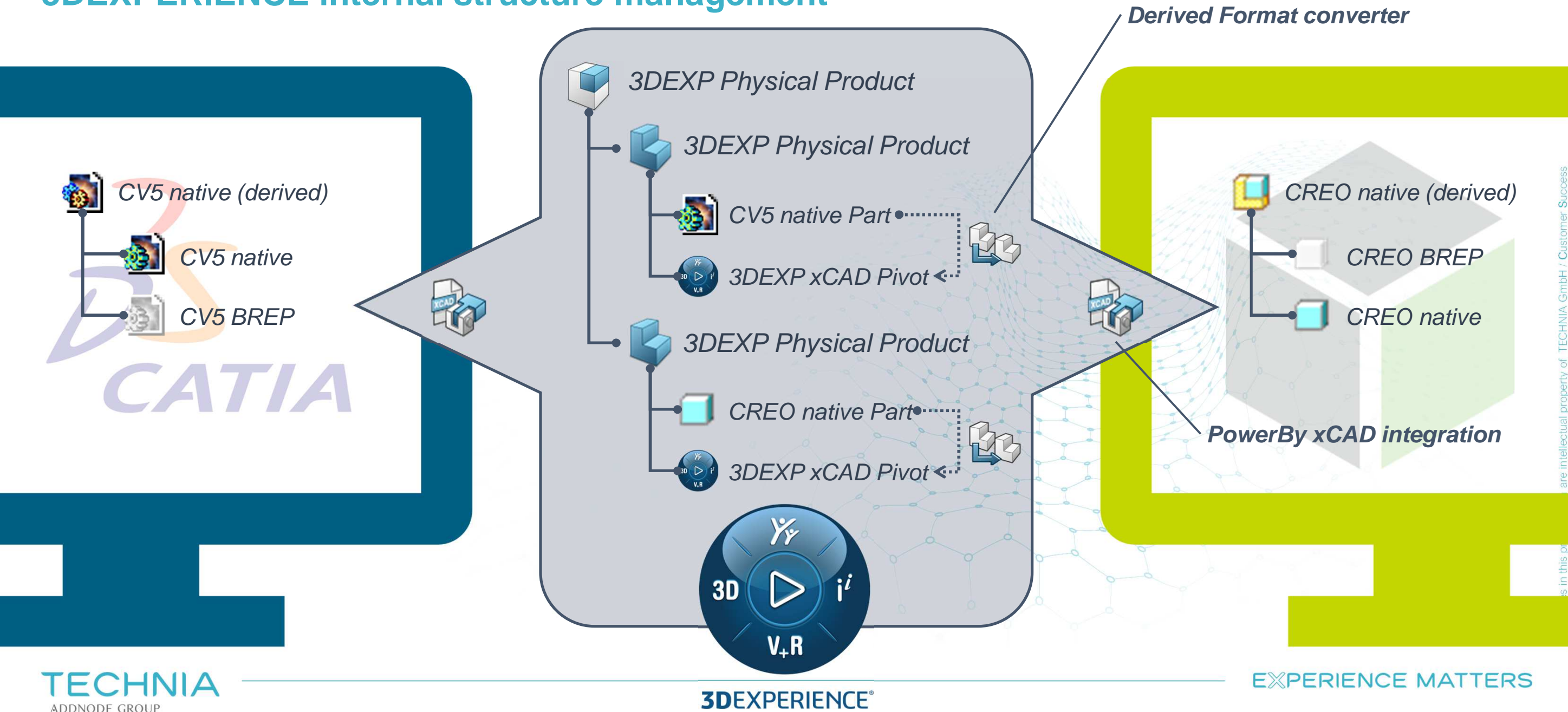
# MULTICAD DATA MANAGEMENT APPROACH

## 3DEXPERIENCE PLM MultiCAD collaborative design



# MULTICAD DATA MANAGEMENT APPROACH

## 3DEXPERIENCE internal structure management





# MULTICAD DATA MANAGEMENT APPROACH

## 3DEXPERIENCE xCAD Connector availability for Collaborative Design



3DEXPERIENCE®

*xCAD Connector*



*Derived Format Converter*



Connector for CATIA V5



Connector for SOLIDWORKS



Connector for DraftSight



Connector for NX



Connector for Solid Edge



Connector for Creo Parametric



Connector for AutoCAD



Connector for Inventor



Connector for Revit



Connector for Cadence Allegro



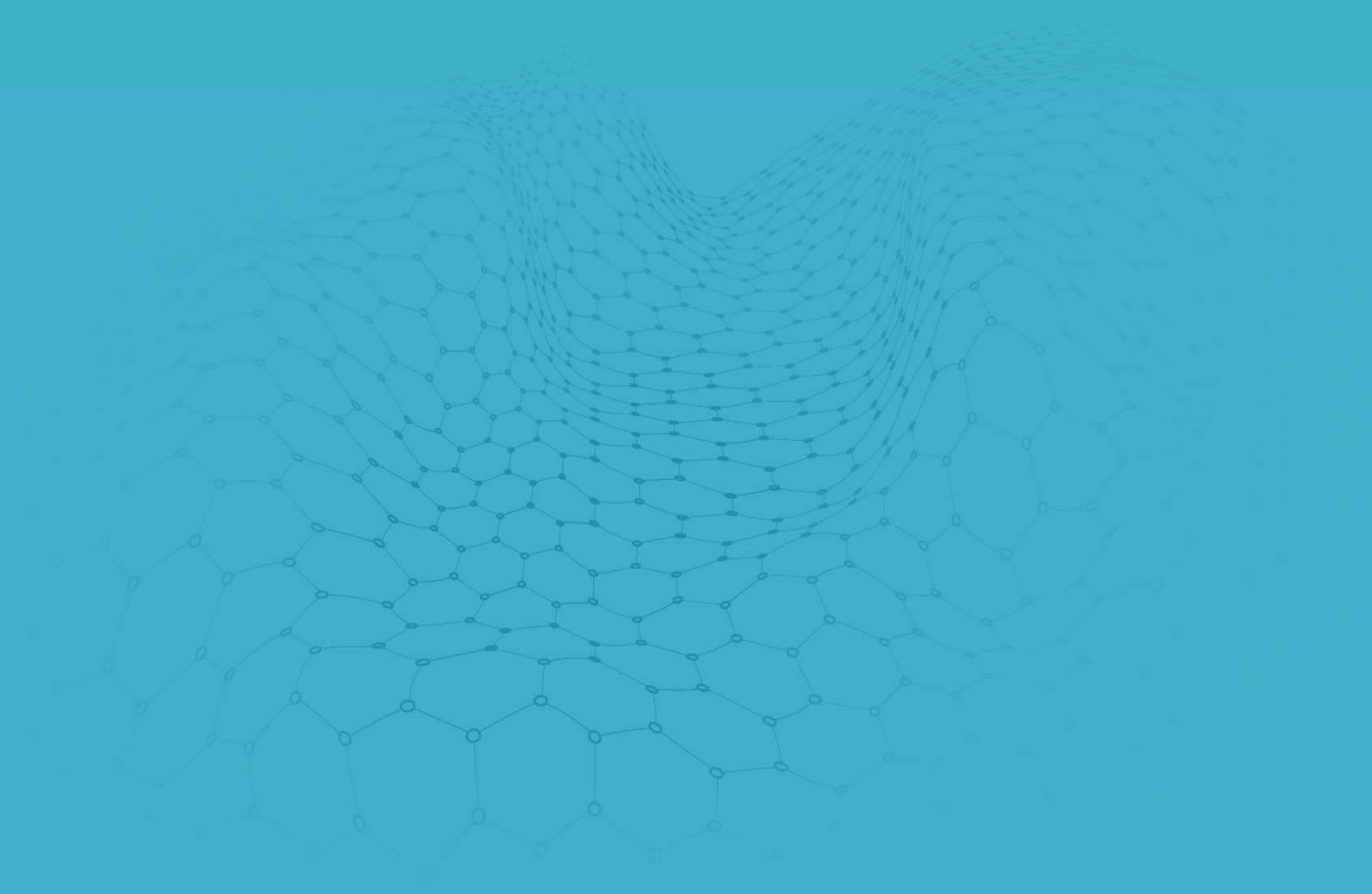
Connector for Altium Designer



Connector for Zuken CR-5000

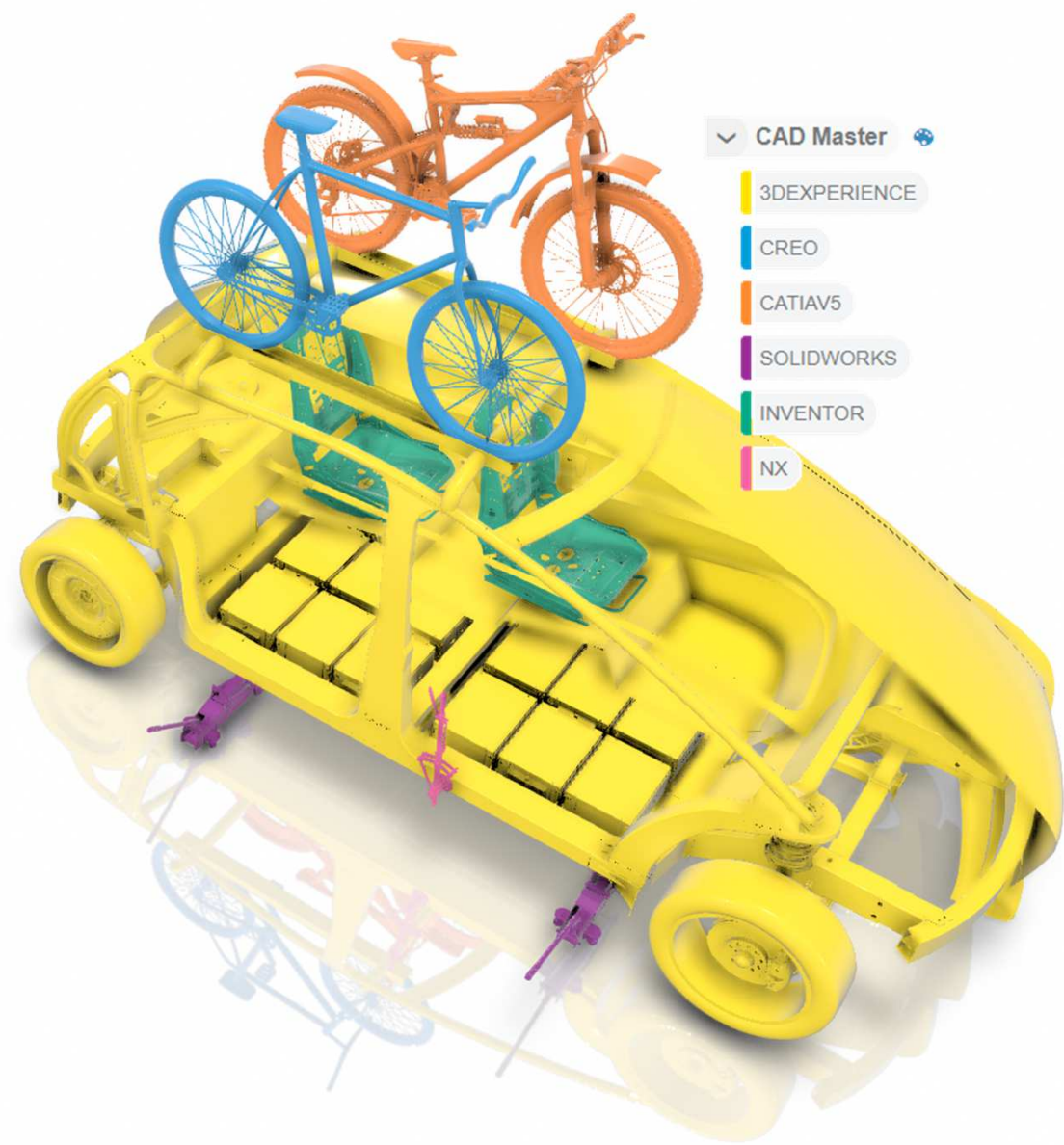
# PRACTICAL

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# MULTICAD DATA MANAGEMENT APPROACH

## 3DEXPERIENCE MultiCAD data management

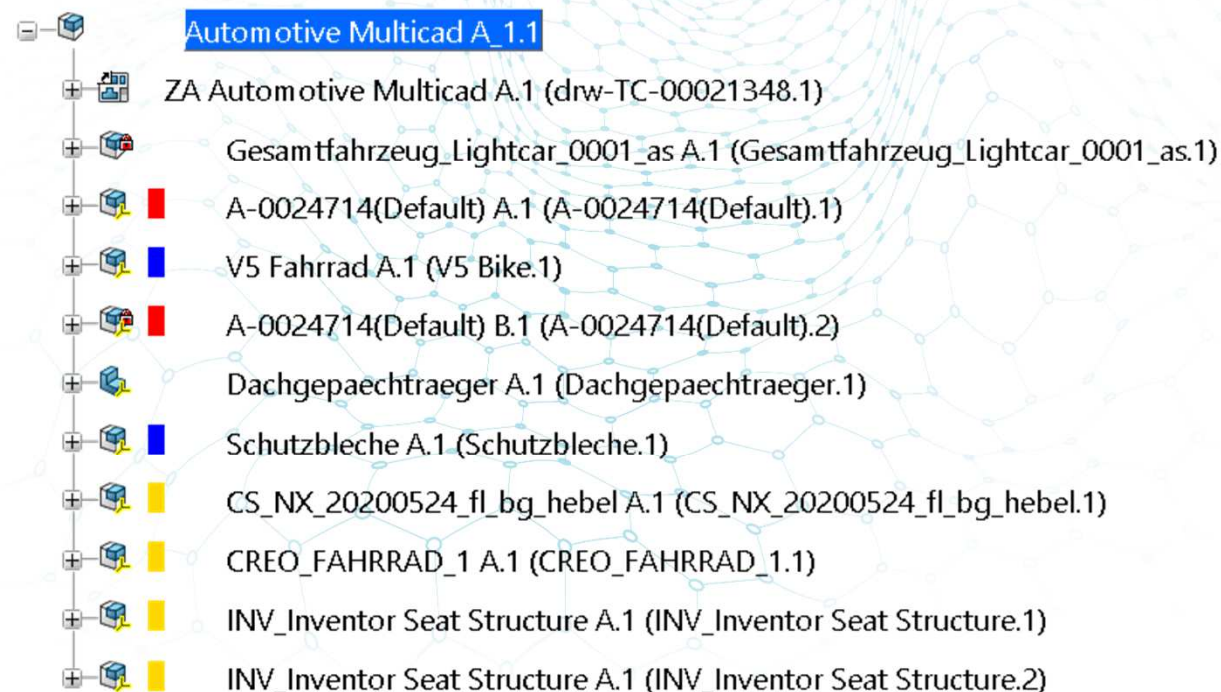
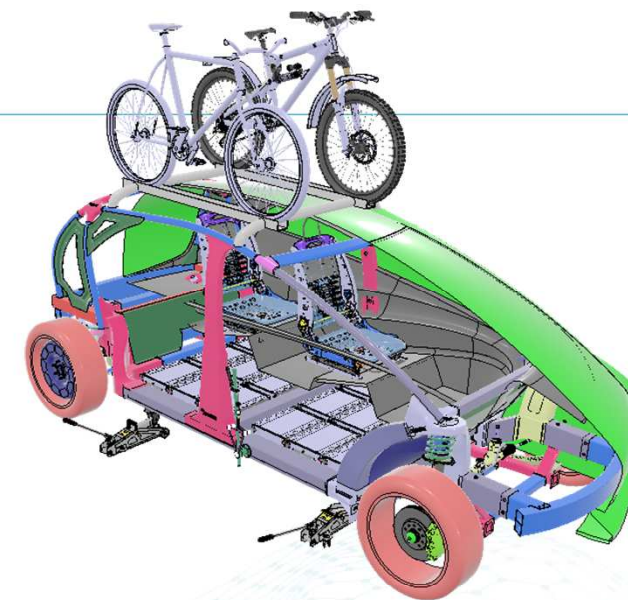
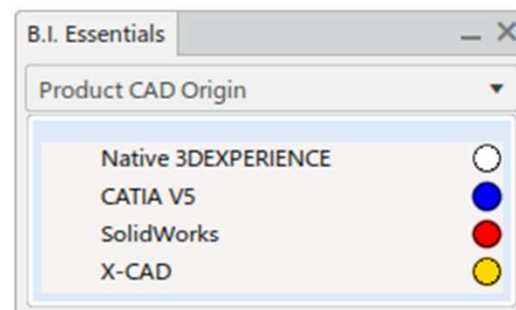


|     |                                 |       |                        |              |                  |          |   |
|-----|---------------------------------|-------|------------------------|--------------|------------------|----------|---|
| 6   | Automotive Multicad             | A_1.1 | von jedem etwas        | Common Space | Physical Product | in WORK  | ✗ |
| 1k  | A-0024714(Default)              | A.1   | Wagenheber Axle        | Common Space | Physical Product | in WORK  | ✗ |
| 637 | A-0024714(Default)              | B.1   | Wagenheber Axle        | Common Space | Physical Product | in WORK  | ✗ |
| 468 | CREO_FAHRRAD_1                  | A.1   |                        | Common Space | Physical Product | in WORK  | ✓ |
| 202 | CS_NX_20200524_fl_bg_hebel      | A.1   |                        | Common Space | Physical Product | RELEASED | ✓ |
| 186 | Dachgepaechtraeger              | A.1   |                        | Common Space | Physical Product | RELEASED | ✓ |
| 39  | Gesamtfahrzeug_Lightcar_0001_as | A.1   |                        | Common Space | Physical Product | in WORK  | ✓ |
|     | INV_Inventor Seat Structure     | A.1   | CATIA V5 STEP Exc...   | Common Space | Physical Product | in WORK  | ✓ |
|     | INV_Inventor Seat Structure     | A.1   | CATIA V5 STEP Exc...   | Common Space | Physical Product | in WORK  | ✓ |
|     | Schutzbleche                    | A.1   |                        | Power By     | Physical Product | in WORK  | ✓ |
|     | V5 Fahrrad                      | A.1   | besteht nur aus CGR... | Power By     | Physical Product | in WORK  | ✓ |
|     | ZA Automotive Multicad          | A.1   |                        | Common Space | Drawing          | in WORK  | ✓ |



# MULTICAD DATA MANAGEMENT APPROACH

## 3DEXPERIENCE client loaded MultiCAD structures





# MULTICAD DATA MANAGEMENT APPROACH

## PLM usage of MultiCAD data and hybrid structures

data and structure management by neutralized CAD origin (by “Physical Product” structure) does allow full and seamless support for any format in PLM downstream application (e.g., change management, requirements management, **issue management** (see example), configuration management, manufacturing planning, NC calculation, rendering, simulation, technical documentation, ...)



ENOVIA - Issue Management - My issues (6)

| Title                           | Name                    | Maturity State | Actions |
|---------------------------------|-------------------------|----------------|---------|
| Drive Shaft - Cleavage Fracture | ISS-TC-0000225          | Aktiv          |         |
| Drive Shaft mounting Issue      | ISS-TC-0000181          | Aktiv          |         |
| Suspension too low              | ISS-TT-0000105          | Zuweisen       |         |
| Gesamtfahrzeug_Lightcar_0001_as | prd-R1132100118807-0... | in WORK        |         |
| LC813_0000_ZSB_002_V0_A0_...    | prd-R1132100118807-0... | in WORK        |         |
| Profil fehlt                    | ISS-TT-0000030          | Aktiv          |         |
| ETRTO_215_45R18_7J_0001_as...   | prd-R1132100118807-0... | in WORK        |         |
| B-Säule instabil                | ISS-TT-0000029          | Aktiv          |         |
| Gesamtfahrzeug_Lightcar_0001_as | prd-R1132100118807-0... | in WORK        |         |
| LC111_0013_EZT_005_A0_V0_B...   | prd-R1132100118807-0... | in WORK        |         |
| Seitenaufprallschutz            | DOC-TT-0000342          | in WORK        |         |
| B-Säule instabil                | CA-TC-00001130          | Draft          |         |
| Stoßstange vibriert             | ISS-TT-0000028          | Erstellen      |         |
| Gesamtfahrzeug_Lightcar_0001_as | prd-R1132100118807-0... | in WORK        |         |
| LC131_0007_EZT_003_A1_V0_...    | prd-R1132100118807-0... | in WORK        |         |

### B-Säule instabil

Aktiv

Owner : Bruce BROCKMANN

Collaborative Space : Wiesmann

Contents (4)

| Title                | Type             | Name                        | Actions |
|----------------------|------------------|-----------------------------|---------|
| Affected Items (2)   |                  |                             |         |
| LC111_0013_EZT...    | Physical Product | prd-R1132100118807-00023456 |         |
| Seitenaufprallschutz | Document         | DOC-TT-0000342              |         |
| Resolved By (1)      |                  |                             |         |
| B-Säule instabil     | Change Action    | CA-TC-00001130              |         |
| Resolved Items (0)   |                  |                             |         |
| Contexts (1)         |                  |                             |         |
| Gesamtfahrzeug_...   | Physical Product | prd-R1132100118807-00023425 |         |