Collaborative Parts Management with

ptc navigate™ & CADENAS (♣) PARTsolutions

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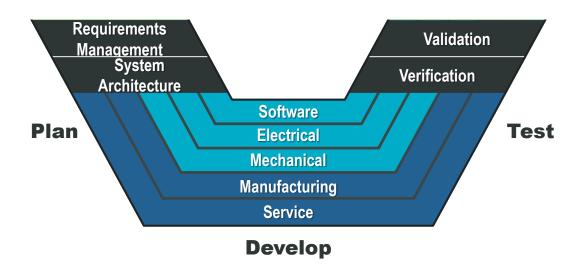


MOTIVATION: WHY CADENAS & PTC?

MOTIVATION



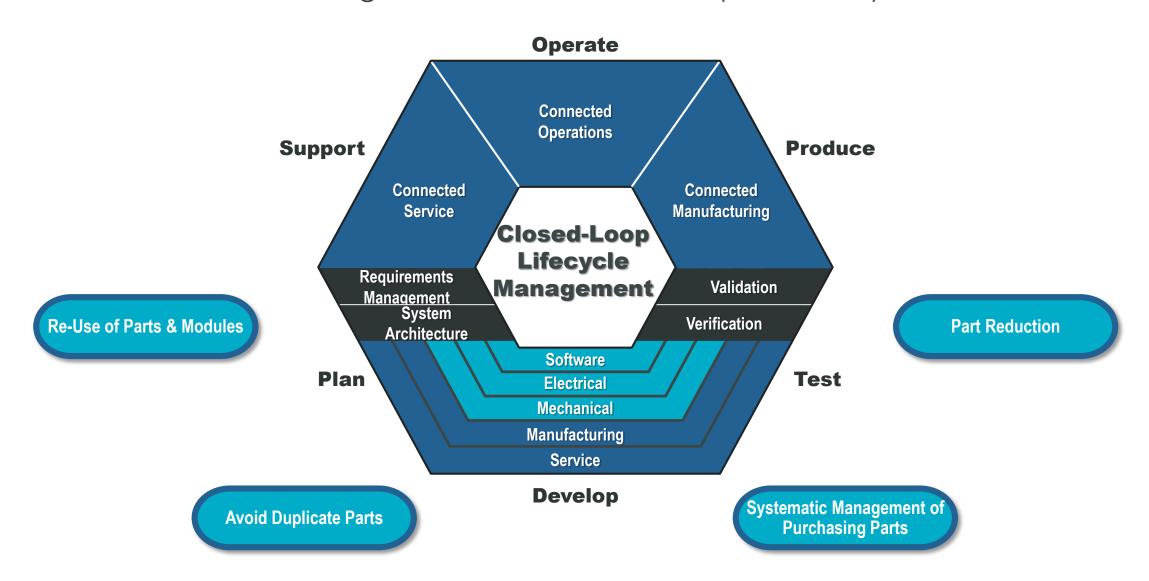
Common Business Challenges of Customer's & Complementary Solutions



MOTIVATION



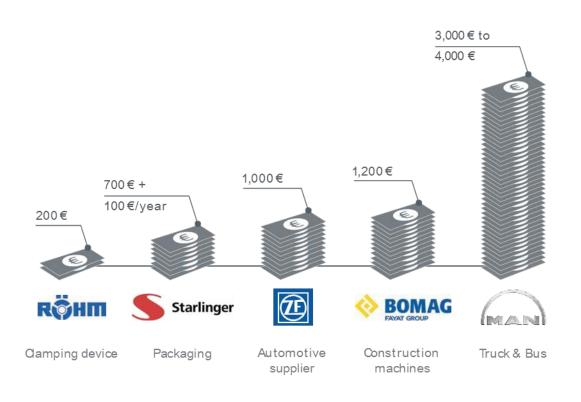
Common Business Challenges of Customer's & Complementary Solutions

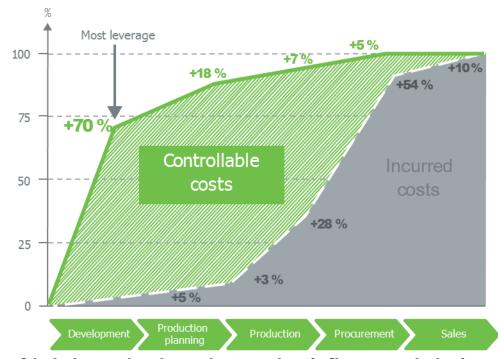


POTENTIAL OF SYSTEMATIC PARTS MANAGEMENT



Real world data: Average costs per part Internal calculations vary - depending on industry.





70% of total product costs can be influenced during development phase

Optimizing reuse rate of existing parts and reducing parts multiplicity influences the expenses for your product during the development in a way that is not possible at a later point of time.

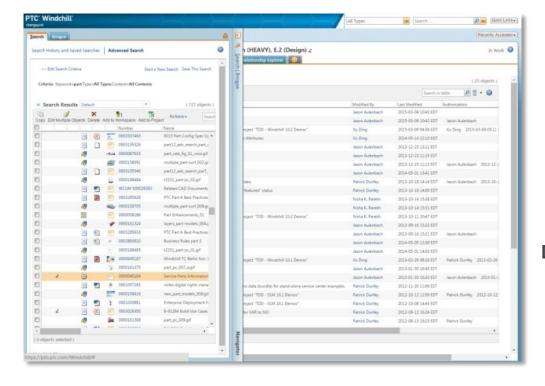


2 HOW: PTC NAVIGATE & CADENAS

CURRENT SITUATION & CUSTOMER CHALLENGE



- Enterprise systems are **too complex for many roles** to get information themselves
- Even with in-depth training, infrequent users forget how to get information
- A single application does not include all information needed by role for a task

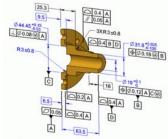




Designer/Engineer



Tooling Designer





Purchasing Agent



Quality Inspector





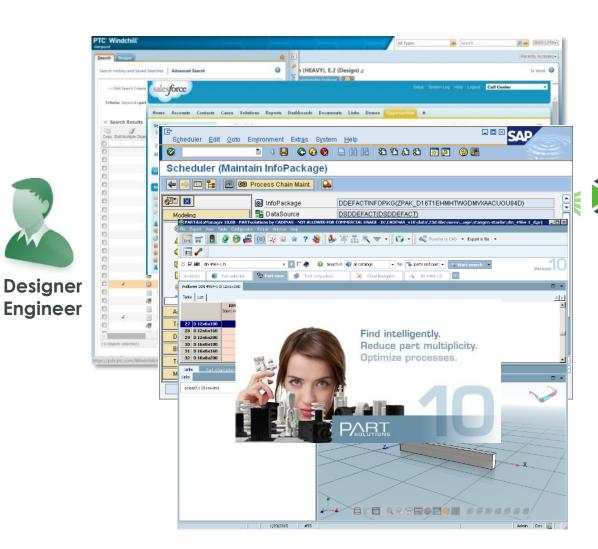


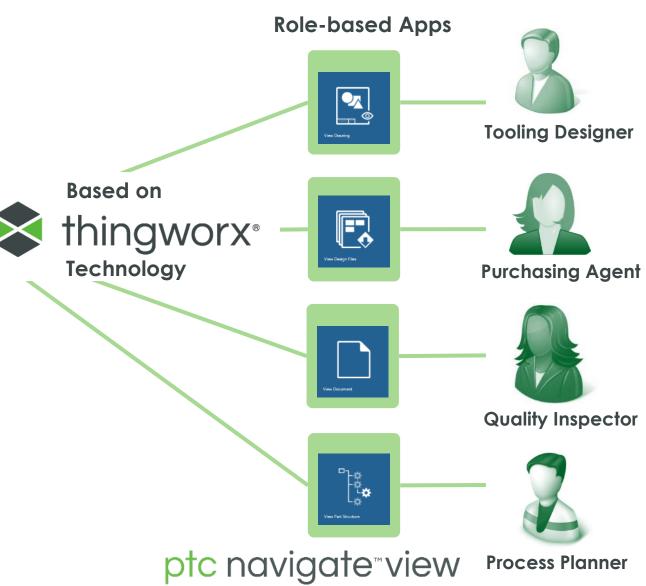
Process Planner

- Expert users become **bottleneck** for getting product information
- Expert users are distracted and burdened by requests from many roles
- Enterprise interfaces can be customized but it is often costly to create and maintain these customizations

ptc navigate" AS A SOLUTION FOR CONNECTED PLM







first OOTB apps in a series

Just the information needed:

Aggregated together from all the owning systems

ptc navigate™ APP OPTIONS

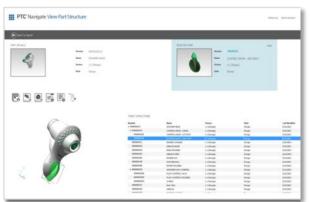


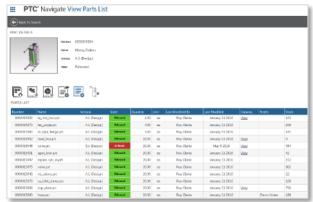
Use OOTB Apps

Build custom versions of OOTB Apps

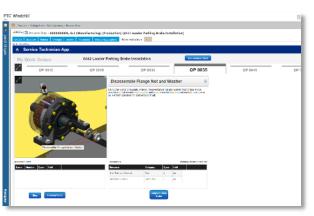
Build new, custom standalone apps

Embed apps or mashups in Windchill Contexts







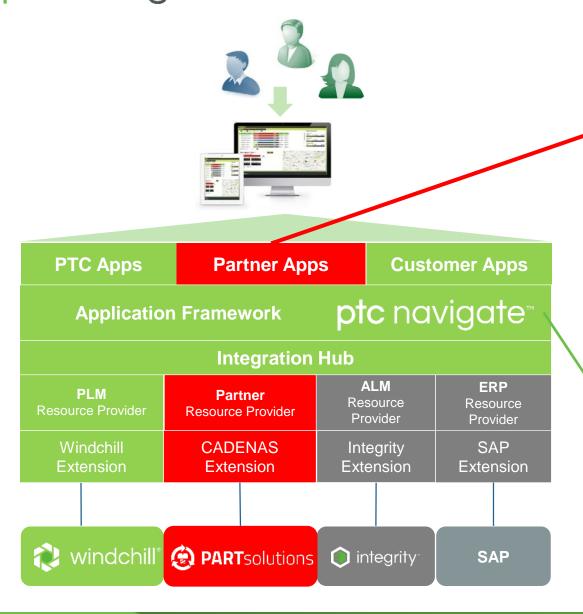






ptc navigate ARCHITECTURE AND CADENAS USE CASE EXAMPLES







cadenas Mashups
as new Custom Apps in
ptc navigate™



New PTC Navigate Application Framework provides:

- Common user experience model & components
- Common search services
- Common authentication services
- Common role management/behavior

BUILD NEW, CUSTOM STANDALONE APPS



ptc navigate**

Welcome Administrator



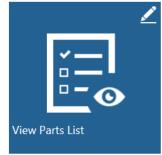


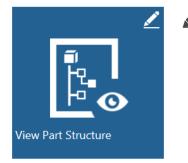
















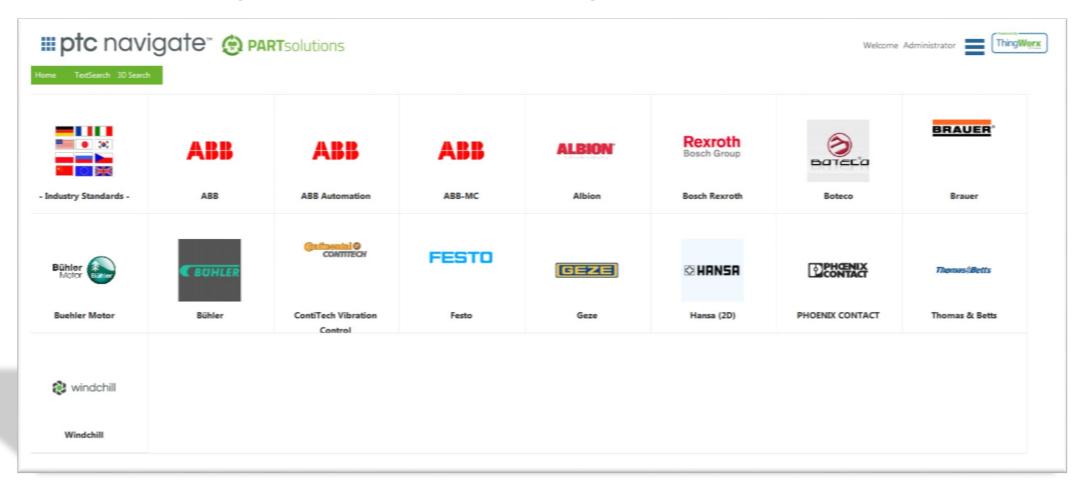


CADENAS Apps included in ptc navigate Landing Page

BUILD NEW, CUSTOM STANDALONE APPS



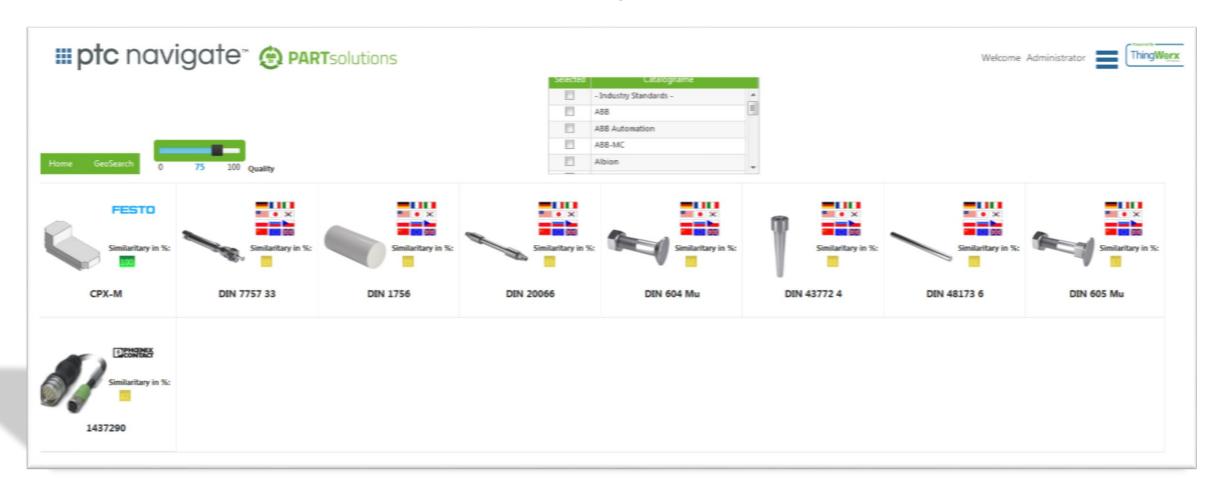
CADENAS Catalogues as Standalone Navigate App



BUILD NEW, CUSTOM STANDALONE APPS



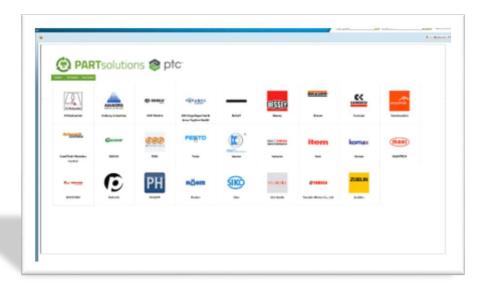
CADENAS GEOsearch as Standalone Navigate App



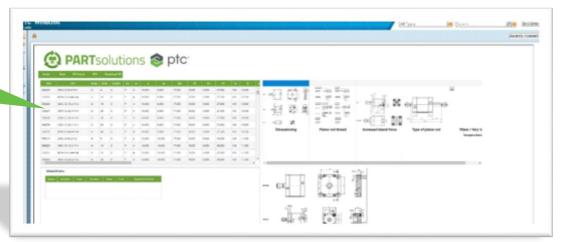
EMBED APPS OR MASHUPS IN WINDCHILL CONTEXTS



CADENAS Catalogs in Windchill UI



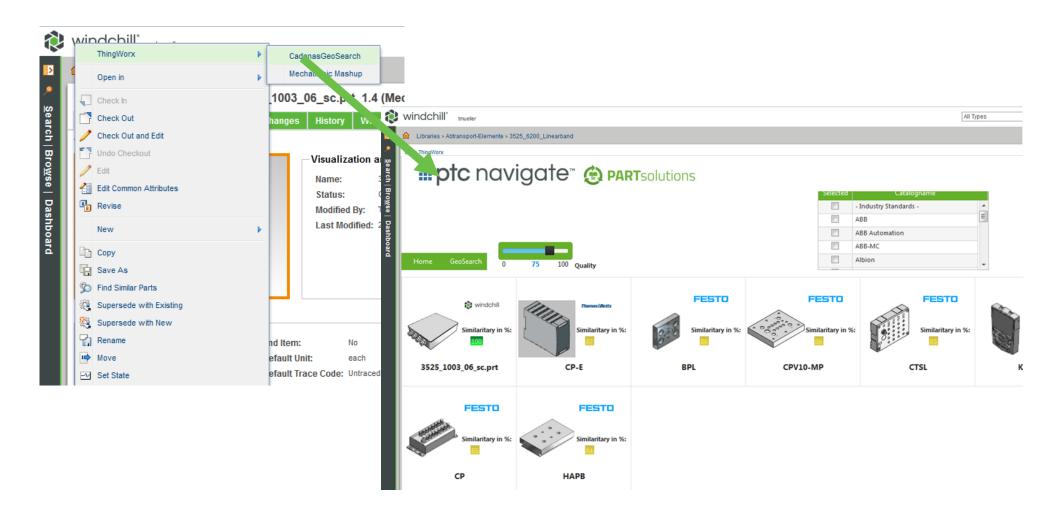
Data combined from Windchill and Creo



EMBED APPS OR MASHUPS IN WINDCHILL CONTEXTS



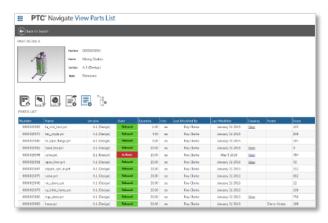
CADENAS GEOsearch in Windchill UI



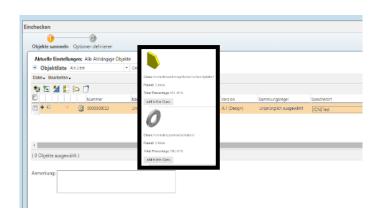
ptc navigate ALLOWS FOR CUSTOMER SPECIFIC EXTENSIONS



- customers and partners can take advantage of navigate framework and ThingWorx platform to create new or extend existing role-based experiences
- Example Ideas:



Add custom attributes to existing apps



Custom App to classify parts based on GEOsearch



Custom App to display Duplicate and Make/Buy info





SUMMARY

Mechanical

Manufacturing

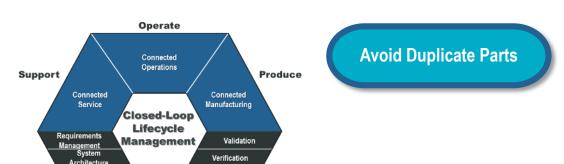
Develop



Addressing Business Challenges through collaborative Parts Management



- Make own part / module catalogues available in Windchill
 - Including documentation, drawings & viewable
 - Integrate to standard part handling processes



Test

- Facilitate search & find of reusable parts, e.g. by
 - Geometrical or full text search
 - High Performance (seconds vs. minutes/hours)
 - Integral view on company and standard parts
 - Combination of search methods (color, similarity, topology, attributes and others)
- **Consistent processes** and user experiences Consistent classification
- Full Windchill PartsLink integration
- PTC Navigate provides common user experience & role specific access
- **Systematic Management of Purchasing Parts**

Part Reduction

- **Specific reports** support role responsibilities, e.g.:
 - Engineering Manager design approvals
 - Standards Department find similar parts
 - Procurement initiatives clean-up of duplicates

