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Increased Company Efficiency Supported by SAP PLM/ECTR





About the Speakers - Sandvik Coromant

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- PLM IT Manager
- Manager PLM
 Process
 Development

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PLM Process
 Owner



Key Outcomes/Objectives

- 1. System implementation vs Business implementation
- 2. Structured change management and follow up for commitment and engagement
- 3. Business strategy execution fulfilled by EA framework



Company intro – Sandvik Group

https://www.youtube.com/watch?v=k1hxZyD9VGI



Company intro – Sandvik Group



Sandvik Machining Solutions

We are a market-leading manufacturer of tools and tooling systems for advanced metal cutting.

Our tools and tooling systems for metal cutting as well as advanced materials and components are used in engineering industries worldwide, improving productivity, profitability, quality, output, safety and environment.

Product Areas

- Sandvik Coromant
- Walter
- Seco
- Dormer Pramet
- Applied Manufacturing Technologies
- Additive Manufacturing



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ADDITIVE MANUFACTURING

The background, targets and direction



From:

Data management and Product Management

Product and Design data in silos

Local control and local processes

Local stored data on site, distributed globally on demand Duplicates of design data

PLM - Product Lifecycle management

Product and Design data in one common source Global control and global processes Global access to data

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Single source of data, no duplications

The background, targets and direction

PLM - Product Lifecycle management

Product lifecycle management involves creating a common source for product information to be used in design, supply, sales and services.

Integrated solution

CAD environment integrated to SAP via SAP ECTR, controlled via one Information model, global processes and business rules.







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What was delivered

- IT solution, design data connected to products
 - One source for designs, drawings and documents for our products
- Possibility to reduce redundant processes with different IT systems
 - Need to achieve business processes more operative and supportive organization
 - Processes GAP, Capability drop => Performance driven



PLM enables efficient product development processes and drive quality of information

Common Master data with Product Lifecycle Management will **lead to** :

- **Increased productivity** by multiple activities towards one common product master, i.e. global design collaboration.
- Shorter response time to customer through availability of correct product data for quotations, orders and services to customers.
- **Decreased administrative cost** by availability of correct product information and reduced need of local maintenance of product information.

Reduced key individual dependency



Key roles and collaboration for keep all sites in coordinated pace

- LIL, Local implementation leaders
- Stakeholder communications
- Global implementation leader
- IT solution experts acting globally



Transformation to SAP PLM with ECTR



Risk management, weekly review and actions



Main risks

- Wow and how to act in different scenarios with ownership, drives productivity drop
- Risk Level
 Risk Level avg
- . Data Quality
- Migration readiness and defect solving

K.

IT Infrastructure performance

• Support

Global roll out plan Implementation & Site preparation



Score board for inspire and result oriented in three Status gateways

- Close contact with all sites
- Every Readiness Check gateways was measured verse pre-defined key questions/criterias.

		SRC 1 - Before End User Training and final preparations												
	SF 1			SF 2		SF 3		SF 4		SF 5		SF 6		Status
	Team mobilized		Stakeholder		Key User		EUT Prepared		Data		Local			RC1
				informed		trained			pr	eparation	A	ljustment		I
/S -														
/ 5		40%	0	30%	0	0%	0	38%	۲	100%		100%	\bigcirc	60,0%
ed -		70%		100%	0	0%	0	50%	0	50%		100%	\bigcirc	75,0%
- 4		100%		100%		100%		100%		92%		90%	\bigcirc	96,0%
_													-	

- Every question has a specific value verse 100%
- All value of fulfilled points was measured in percent to verify "green" light to go ahead or rework
- Trigger positive atmosphere to get value/ points in the review

Line business main demands after implementation

- Focus on line business gaps
 - Multiple sessions of input
 - Set priority according to Business effect
 - Execute most prioritized activities



Performance focus

- IT was estimated to one of key element for productivity drop
 - Global program increased line capacity
 - Cache servers to limit number of chating over the net.
- Using a real case automation script to simulate real time of a designer to create an assembly (system time only)



Process gap mitigation

- Always act to follow common defined way of working
 - Process, instructions by role, defined IT systems
 - When not find good enough be a part to improve the process and facilitate alignment
 - Stop using parallel applications
 - Be a active in organization and run ownership of performance and activities
- Governance team to establish and maintain Product Information Life cycle Management Strategy, Plan/ Roadmap incl execution => Performance in focus



Productivity drop and improvements

•	Indicator	Q1	Q2
•	Efficiency improvement	6,6%	14,9%
•	Lead Time of an automatic Assembl. (minutes)	4,0 (ca)	1,6
•	Business user-experience index	37%	55%



Implementation learnings

- Need of a process owned organization early
- Blueprinting phase was too much theory.
- Start Prototyping earlier to understand requirements.
- Tricky to get E2E process performance when splitting into a lot of work packages.



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Driving forces going forward





How to meet business needs?

- Enterprise Architecture focus
 - Master data
 - Methods & processes
 - Application and capabilities
 - System landscape roadmap





PLM Roadmap - Next steps

- PLM, ECTR and MDG implementation in ERP
- Migration of PLM satellite systems
- Master data cleansing
- Collaboration

PLM / ERP harmonization – "As-Is"



PLM / ERP harmonization "To-Be"



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PLM Roadmap – Master data management

- Secure quality of Master Data
- Improve process for management of Master Data
- MDM system LCM 2020 \rightarrow MDG system



PLM Roadmap – CAD Integration

- Mechanical (existing)
- Office Integration (on-going)
- Electronics ECAD integration (planning)



Learnings – EA

- Governance of Master data
- Processes and methods will be affected
- Simplify use of Document Type
- Separate Processes from Status network
- Setup a Sandbox asap based on Standard basic data model
- Limit enhancements \rightarrow request SAP ECTR changes



Summing up

- Business implementation is far more than just a system implementation
- Clear end to end focus for best overall performance
- Clear connection between Company strategy and Enterprise Architecture



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Presentation Materials

Access the slides from 2019 ASUG Annual Conference here: http://info.asug.com/2019-ac-slides





For questions after this session, contact us at rickard.nordgren@sandvik.com peter.bryngelsson@sandvik.com jonas.stafberg@sandvik.com



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