

#### SESSION ID: PL1074B DIGITAL TRANSFORMATION: A JOURNEY NOT A DESTINATION

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 StageCheckPoint(J) at 2004
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## **DIGITAL TRANSFORMATION**



#### **DIGITAL THREAD**

#### **Digital Thread**

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- DOM / .... DO

Data driven architecture that links together information generated from across the product lifecycle and is envisioned to be the primary or authoritative data and communication platform for a company's products at any instance of time.<sup>2</sup>

#### Practice:

- Adopting a 'System of Truth"
- Creating interfaces to populate data to other systems
- Establish rules to enforce system of truth in downstream systems
- Add value in downstream systems as appropriate for that system.

EtQ

## AGENDA

- About MicroVention
- Digital Transformation History
- Steps Taken
- Digital Thread
- Roadmap
- Call to Action

## MicroVention is highly integrated to lead efforts in advancing neuroendovascular medicine.



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Aneurysm Therapy Solutions for ruptured and unruptured aneurysms. MicroVention has two distinct coil lines—Hydrogel Coils and Platinum Coils—both used with the V-Trak<sup>™</sup> Delivery System. Additional products include our WEB<sup>™</sup> aneurysm embolization system, LVIS<sup>™</sup> coil-assist stent, and FRED<sup>™</sup> flow diverter stent.\*





Neurovascular Malformation Solutions has PHIL<sup>™</sup> liquid embolic\* for the treatment of Dural Arteriovenous Fistulae (DAVF), Arteriovenous Malformation (AVM), and Tumors.\* Our Headway<sup>™</sup> Duo microcatheter and SCEPTER<sup>™</sup> compliant dual-lumen balloons complement this category to maximize each patient's treatment options.



Access Product Solutions guide catheters, intermediate catheters, microcatheters, balloon microcatheters, and guidewires are specifically designed to work interchangeably across each of our product lines. In addition, we provide multiple-access product configurations that include a variety of choices for length, flexibility, shape, inner and outer diameter, design, and material.









## **TRANSFORMATION HISTORY**

**Paper Centric Process** 

Document Centric Process with CAD



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Document Centric with PDM control of CAD for production data



STEP 1

 Put in System for CAD Data Management
 SolidworksCAD



#### **STEP 2– SCOPE ADDED**

- Establish System of Record for:
  - Materials and BOM
  - Manufacturing Process
     Documentation
  - End-to-end Change management
  - Document Control
  - □ Integration with SAP



#### **DIGITAL THREAD- CURRENT**

#### PLM



#### **ERP**

### **STEP 3- REMEDIATION**

Address Inefficiencies

Overcome Training Hurdles

ProcessBottlenecks



- **Steep learning curves** results in poor user adoption, frequent rework and low user satisfaction
- Centralized team to create data in PLM Longer cycle time

- Complex workflow and customizations can drive unpredictable results
- **Process bottlenecks** and **centralized functions** result in nonscalable, inefficient processes

- Data integrity issues with legacy data
- System design based on legacy MVI paper -based processes
- Object Model doesn't support OOTB Windchill Processes

### **STEP 4– LONG TERM VISION**

- Communicate
- Educate
- Strategy
- Growth

- Plan for multi -generational project
- Develop strategy for missing technology gaps
- Gaps to be developed along with business value drivers
- Key Business Processes
   R&D
  - Operations/Manufacturing
  - Regulatory
  - Quality
  - Labeling

#### **DIGITAL THREAD- FUTURE**

#### **SAP Financials (RTR)** Doc Control Engineering SAP SAP Procurement to Pay (STP) Controlled eBOM/ mBOM SAP Order to Cash (OTC) Product Master Data Material/Item ♦←● ↓ ●→■ SAP Inventory & Lot Control (LWM/QBM) вом $\mathbb{R}$ SAP Manufacturing / Planning (MTD/FTP) windchill® SAP Master Data Governance (MDG) Drawings Procedures Device Master Record (DMR) **Complaint Return** NCR Batch Work Instructions **BOM / Routings** Authorization Status Illustrations **Production Orders** ETQ Material Lots CAPA Complaints NCR **Equip Status** Ξ¥ B CAMSTAR QMS **Finished Prod Lots**

PLM

**ERP** 

MES

#### ROADMAP



### **BREAKING IT DOWN**

- Digital Transformation
  - Implementation of technology is easy
  - Evolving business process vital to adoption of technology
  - Manage the productivity dip of change
  - Communicate early and often
  - Choose the correct business partners
  - Change is given, be willing to learn and adapt

- Digital Thread
  - Avoid manual duplication/entry of data
  - Use appropriate technology based on process or system
    - Direct integration based on trigger event
    - Webservices for pull of information (REST/SOAP)
    - Tidal jobs
  - Process owners for data



1	Make a Roadmap	<ul> <li>Identify target areas by business value</li> <li>Align with a time line</li> </ul>
2	Get Executive Buy-In	<ul> <li>Educate to gain alignment</li> <li>Priortize based upon business objectives</li> <li>Mitigate organizational roadblocks</li> </ul>
3	Communicate	<ul> <li>Have plan to share with business stakeholders and users</li> <li>Feedback sessions to gain alignment early</li> </ul>
4	Be Flexible	<ul> <li>Plans change – Roadmap is living document</li> <li>Update as needed</li> </ul>



#### Thank you! You can find me at:



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### ORGANIZATIONAL CHALLENGES

