

# A Fool with a tool is still a Fool

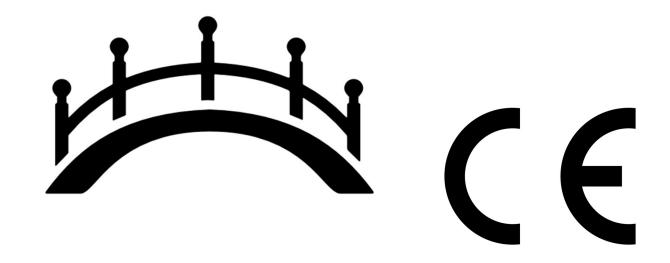
Case Study: implementation of a Design Control System at a Medical Device Manufacturer

# Problem: How to achieve compliant documentation?





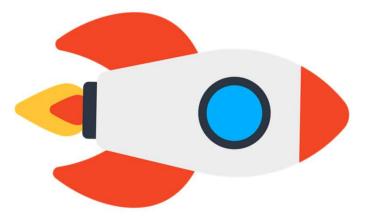
**Engineering Talent** 



**Medical Device Compliance** 

# Situation at Grossenbacher Systeme AG

- Grossenbacher Systeme has long experience in
  - controls and displays
  - medical electronics
  - electronic engineering
  - manufacturing services
- ISO 13485 certified since 2008 (prod) / 2016 (dev)
- First own medical device starting 2017
- Technical documentation was challenging
- Bringing in consultants did not necessarily help
- Maybe a traceability tool helps?

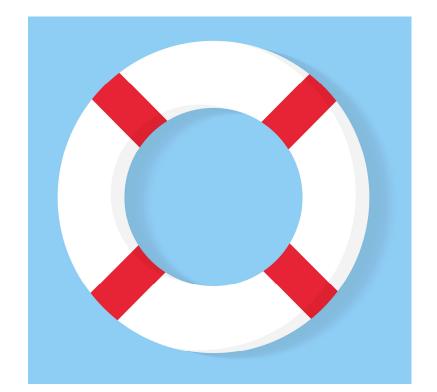


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# Does a Design Control tool help?

- Item centric, not Document centric
- Provides Traceability checks
- Manages inter-dependencies
- Manages Change control

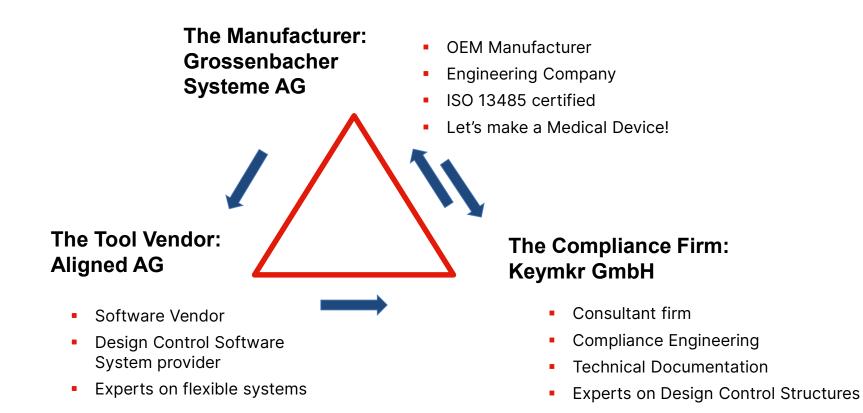
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Aligned Elements - The Medical Device ALM

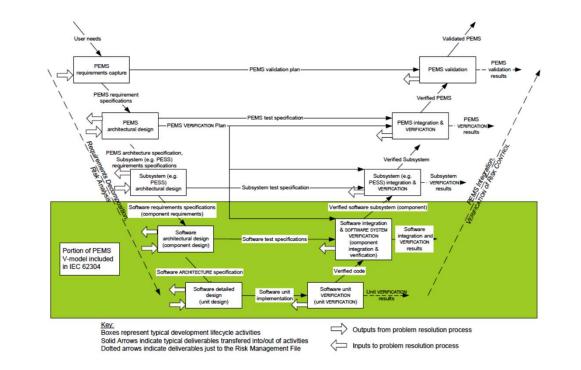
#### **The Participants**





# A highly Flexible ALM Software – a curse or a blessing? | aligned

- A Design Control ALM Software models a Documentation traceability Structure
- The documentation structure is crucial for:
  - Documentation efficiency
  - Regulatory Compliance
- The structure can depend on:
  - The Medical Device product properties
  - The Device Classification
  - The Geographical Market
  - Applicable Standards
- The Documentation Structure is provided by the ALM Software user



#### Do we know where we are going?

- In a situation where:
  - Documentation Structure is not established
  - The user has limited compliance experience
  - Low confidence in Documentation Structure
- => The Design Control ALM Software does not have the input it needs to bring value, a.k.a "Garbage in, Garbage out"

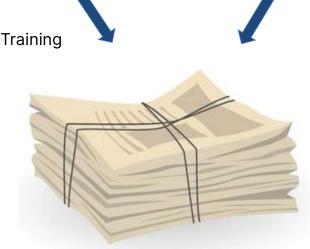


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# Online Collaboration to achieve efficiency / compliance | aligned

#### Keymkr GmbH provided:

- A Documentation Structure
- Documentation Services
- Documentation Compliance Training
- Compliance Support

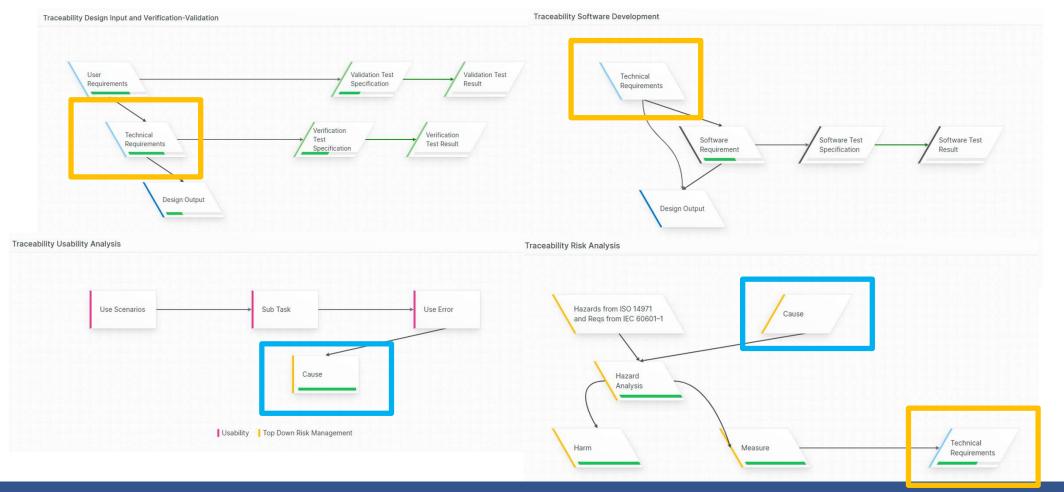


#### Aligned AG provided:

- The Desing Control ALM Software
- A Hosted Environment
- Technical Support
- Tool Integration Support

**Compliant Documentation at Grossenbacher Systeme AG** 

### Achieving a Design Control Structure



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## Interdependent Documents - Reusable Text Components | aligned

Document Text Componer	nt		ACUMEN-TEC 1 1: Intended Use	-
Q Search on id or text		li .	Design Descriptions	र्रेट Edit ा⊒ Action
🖉 🖕 Design Descriptions				
TEC11 Intended Use			D:	TEC 11
TEC 21 Product Description			Disabled:	false
TEC 31 Intended Users			Title:	Intended Use
TEC 41 Intended Use Environment			The,	intended 056
TEC 51 Intended Patient Population		••• Des	Description:	Intended to provide intraosseous access in patients when intravenous access is difficult or impossible to obt. in emergent, urgent, or medically obvious cases.
Classification				
TEC 61 The risk class of the device (EU)			Address the following aspects in your intended use: - Medical indication (for example, illness)	
TEC 71 The risk class of the device (FDA)				- Intended patient group
TEC 81 The justification for the classification rule(s)				- Probable body part - Probable User Profile - Intended use environment / usage environment - Functioning, physical principle
Regulations and Standards		How to Write:	Examples of Intended Use written at ACEM are:	
Risk Management Components				1. Intended to provide intraosseous access in patients when intravenous access is difficult or impossible to obtain
TEC 12 1 Summary of Benefits				emergent, urgent, or medically necessary cases.
TEC 131 Summary of Risks				<ol><li>The XYZ is a chest-worn sensor that is intended to periodically collect, store, and transmit physiological data to qualified system for use by healthcare professionals. The physiological data measured by the biosensor includes</li></ol>
TEC 14 1 Summary of Risk Benefit Analysis				respiration rate and heart rate. In addition, the biosensor is intended to measure and wirelessly transmit contextur parameters: activity level, activity type, and posture.
Company Info				beneficial and a start A distant is beneficial

#### Conclusions



- Engineering Talent is not a guarantee for success in the medial device business
- Item-centric beats document-centric but...
- ...Design control structure matters a lot
- A tool can not "repair" bad input or provide value without structure
- Why use a tool? Achieve efficiency and compliance at the same time

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