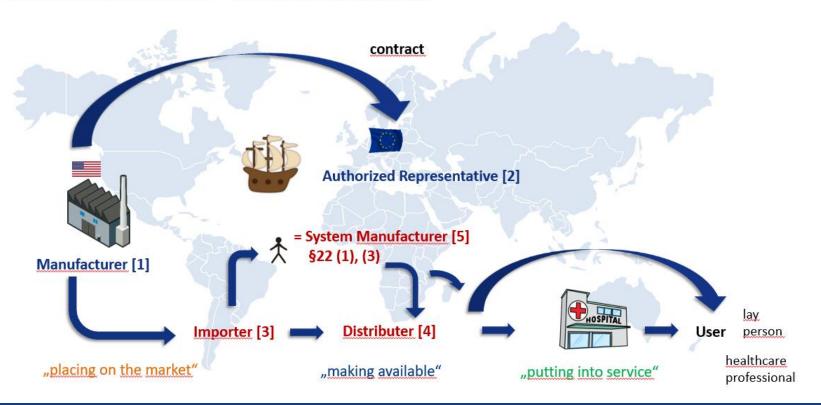




### Planning for MDR Implementation Budget

#### **Economic operators & new responsibilites**



Oliver Christ, CEO

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#### **PROSYSTEM GmbH**

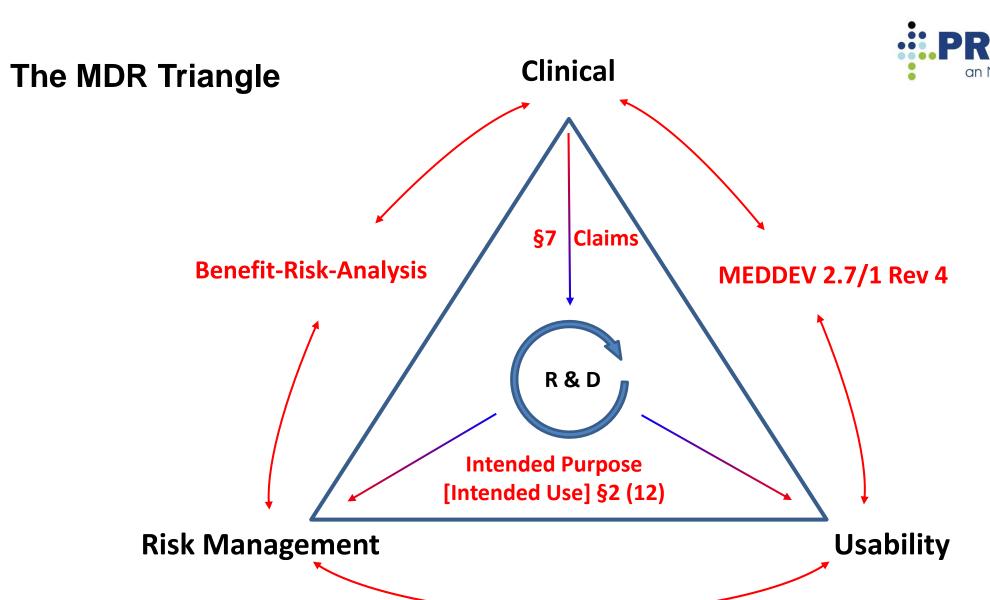
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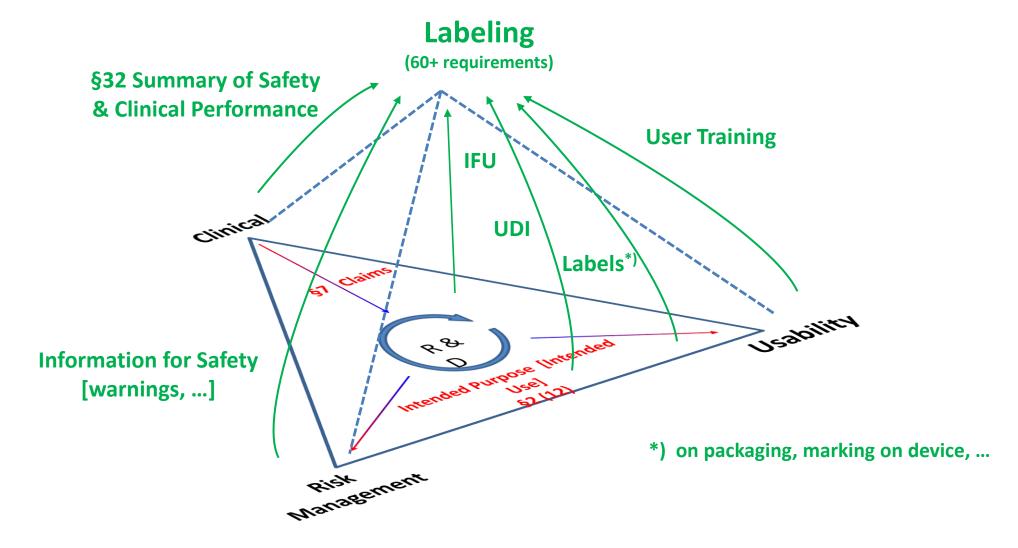
- 1. Impact on Quality Management System(s)
  - ► effort to <u>establish</u> (or <u>up-date</u>) <u>SOP(s)</u>, proper implementation, training
- 2. Documentation efforts
  - ▶ review and up-date / split-up of Technical Files (remediation)
- 3. Structural change within
  - ▶ one-time effort
  - continuous additional effort
- 4. **Uncertainty** caused by <u>Delegated & Implementing Acts</u>
- 5. Communication efforts based on the number of stakeholders per topic



IEC 62366-1



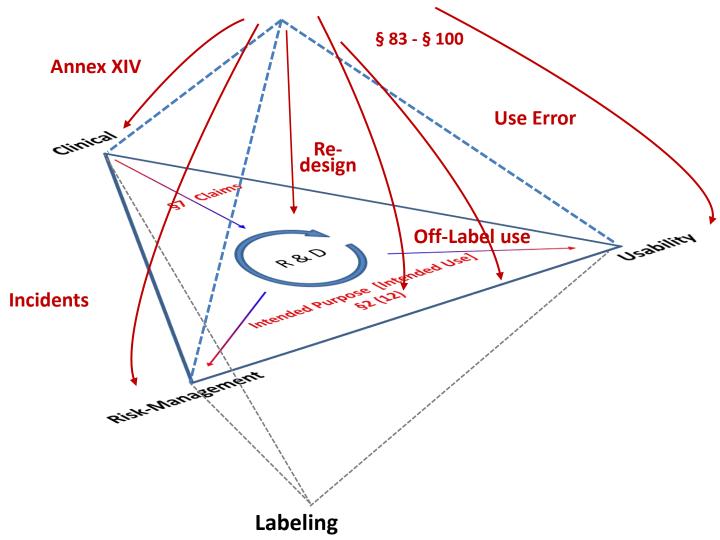






The "double" Triangular Pyramid

### **Feedback**[Post Market Surveillence System]







30 
$$\triangle$$
 x factor + #<sub>TechFiles</sub> x 2,5  $\triangle$  = cost

factor = add 0,25 per additionaal Business Unit QMS

**Example: "1 Corporate + 2 BU" QMS 50 TechFiles** 

30 
$$\triangle$$
 x 1,5 + 50 x 2,5  $\triangle$  = 170  $\triangle$   
 $\triangle$  = 20 days of work ~ 14 Man-Year

# QM related efforts to comply with Medical Device Regulation (MDR)



Chapter I	(0,5 Δ)	Scope & Definitions		
Chapter II	6,5*∆	Making available and putting into service of devices, obligations of economic operators, reprocessing, CE-marking, free movement [* includes processes for RM+UE]		
Chapter III	8,0 Δ (incl. Labeling, UDI)	Identification and traceability of devices, registration of devices and of economic operators, summary of safety and clinical performance, EU databank on medical devices		
Chapter IV	2,0 Δ	Notified Bodies [= Strategy how to select & work with NB(s)]		
Chapter V	1,5 Δ	Classification and Conformity Assessment		
Chapter VI	4,5 Δ	Clinical evaluation and clinical investigation		
Chapter VII	7,5 Δ	Post-Market surveillance, vigilance and market surveillance		
Chapter VIII	(0,0 Δ)	Coordination Group (MDCG), Expert laboratories, Expert panels and device registers		
Chapter IX	(0,5 Δ)	Confidentiality, data protection, funding, penalties		
Chapter X	(0,5 Δ)	Final provisions		
Total	~ 30 Δ	for new or up-dated process descriptions (SOPs, Policies, etc.)		

## More efforts related to TechFiles & Annexes of the new MDR



1	2,0 Δ	General Safety and Performance Requirements	
II	0,2 Δ	Technical Documentation	
III	??? ∆	Technical Documentation on Post-Market Surveillance	
IV		EU Declaration of Conformity	
V		CE Marking of Conformity	
VI	0,2 Δ	Registration of Devices and Economic Operators / UDI	
VII		Requirements to be met by Notified Bodies	
VIII	0,1 Δ	Classification Rules	
IX		Conformity Assessment based on a Quality Management System and on Assessment of the Technical Documentation	
Х		Conformity Assessment based on Type Examination	
ΧI		Conformity Assessment based on Product Conformity Verification	
XII		Certificates Issued by a Notified Body	
XIII		Procedures for Custom-Made Devices	
XIV	??? ∆	Clinical Evaluation and Post-Market Clinical Follow-up	
XV	??? ∆	Clinical Investigation	
XVI		List of Groups of Products without an Intended Medical Purpose	
XVII		Correlation Table	
	2,5 Δ	per TechFile as average (without Post-Market follow-ups)	

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# The "cost driver" for MDR compliant TechFiles:



	Cost driver related to new requirements on	Effect on	# of MDR Articles due to new requirements	Estimated # days of work
1	Clinical	CER Update [~MedDev 2.7.1 Rev 4]	Evaluation § 61 Investigation § 62-82	15 20 days
2	Risk Management	FMEA → Hazard/Risk based [Probability of Occurrence of Harm]	Annex I GSPR 1-9	5 10 days
3	Usability	no USE ERROR true commitment! [~ IEC 62366-1 + FDA Guidance]	Annex I GSPR 5	5 10 days
4	Labeling	Consistency & Validity of all labeling information (+ UDI)	Annex I GSPR 23	10 25 days
5	PMS	Living <u>all</u> Feedback Loops [Annual PMS and Clinical Follow-ups]	PMS, §83 - 100	5+15+ days
6	Editorial Updates	Review of Intended Purpose Rewrite TechFile contents	Annexes II + III	4 8 <sup>+</sup> days

 $2,5 \Delta = ^{\sim} 2,5 \text{ month} = ^{\sim} 50 \text{ days}$ 

Pre-Markt:

39 .. 73<sup>+</sup> days

Post-Markt:

5<sup>+</sup>.. 15<sup>+</sup> days



#### **Budget estimates for MDR transition for BU**

