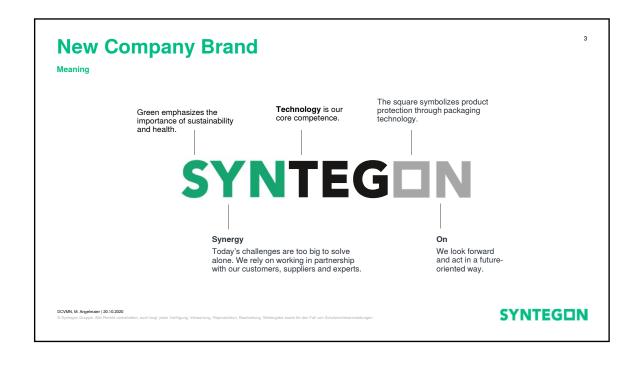


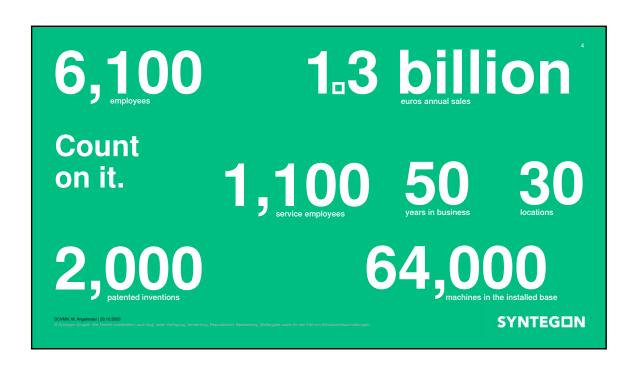
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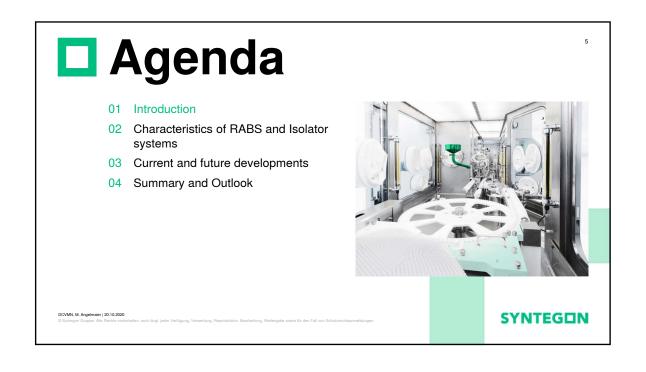
DCVMN, M. Angelmaier | 20.10.2020

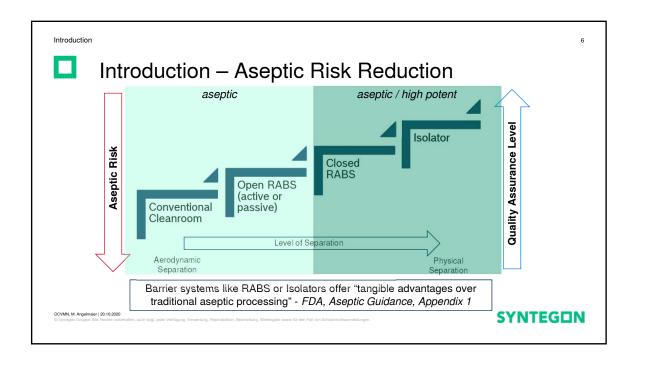
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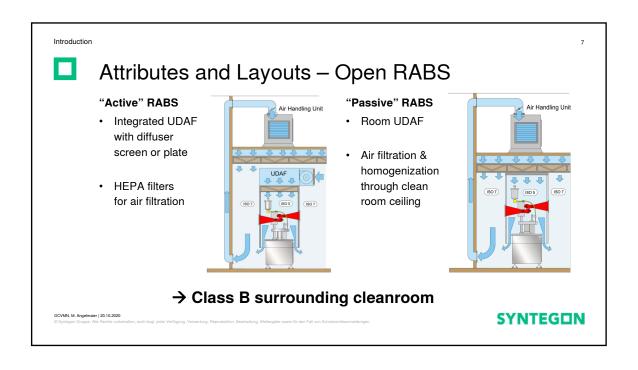
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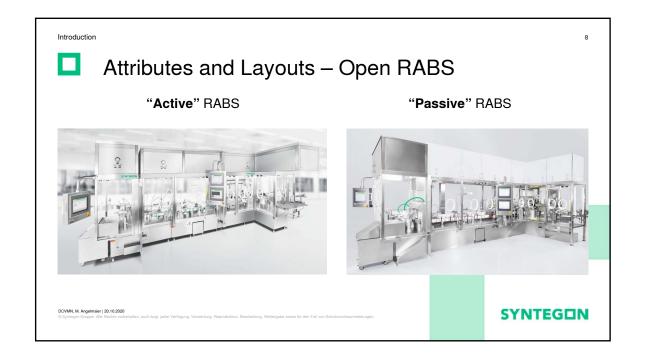


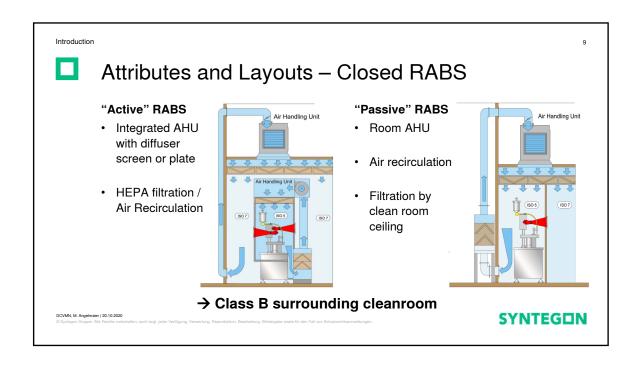


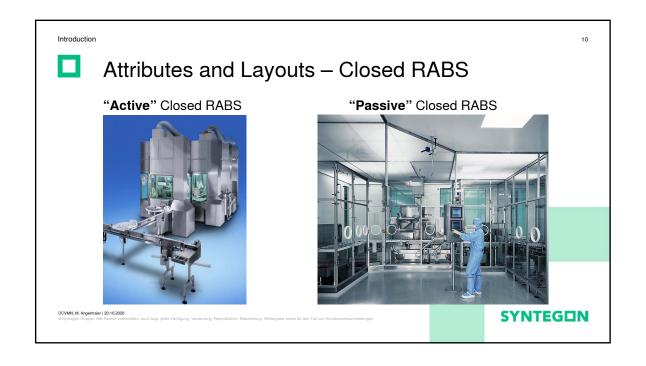


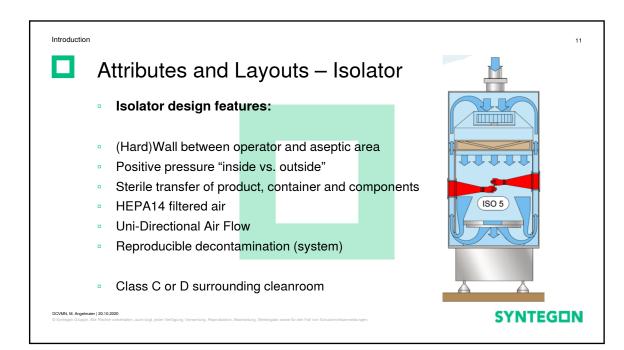


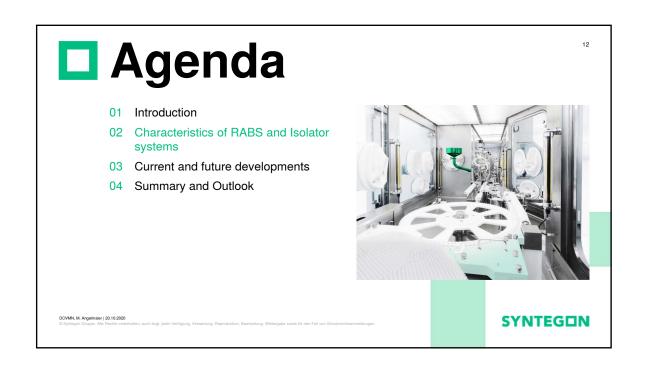












Characteristics of RABS and Isolator systems

13



# Regulatory

### **RABS**

In the past RABS or closed RABS are not clearly defined in any standard, guidance or regulation.

- · However, a lot of requirements particularly for maintaining ISO class 5 above open container are also mandatory for RABS.
- In 2005 FDA asked ISPE to create a definition of ,RABS'. The paper was developed within a team of industry experts together with FDA (Rick Friedman).
- The PHSS has worked out a Technical Monograph on RABS which is accompanied by a RABS classification.

### Isolator

#### Clearly defined regulations exist

- EU GMP Guideline for "Medicinal Products", Annex 1
- ISO 13408 ,Aseptic Processing of Health Care Products', Part 6
- EN 13824 ,Sterilization of Medical Devices'
- PDA Guideline ,Design and Validation of Isolator Systems...'
- ISPE Baseline GuideTM ,Sterile Manufacturing Facilities'
- · PIC/S ,Recommendations on the Inspection of Isolator Technology
- FDA Guidance for Industry ,Sterile Drug Products Produced by Aseptic Processing
- DIN EN ISO 14644-7 ,Cleanrooms and associated controlled environments', Part 7: Separative Devices



Characteristics of RABS and Isolator systems



# Regulatory

- Within current Annex1 draft (February 2020) both RABS as well as Isolator systems are mentioned
- Traditional cleanroom installations are seen critical for new installations "...Any alternative approaches to the use of RABS or isolators should be justified..."

181 182 4.3 Restricted Access Barrier Systems (RABS) and isolators are beneficial in assuring the required conditions and minimizing the microbial contamination associated with direct human interventions

183 184

in the critical zone. Their use should be considered in the CCS. Any alternative approaches to the use

of RABS or isolators should be justified.



