# BISCUIT TRENDS & PACKAGING INDUSTRY SOLUTIONS

BISCUIT PEOPLE CONFERENCE PULA, CROATIA, APRIL 3RD – APRIL 6TH

BOSCH PACKAGING TECHNOLOGY GLOBAL PRODUCT MANAGEMENT/ DANIEL BOSSEL







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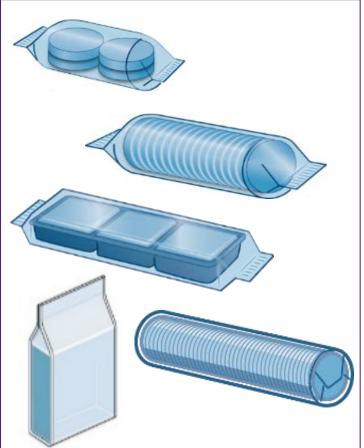


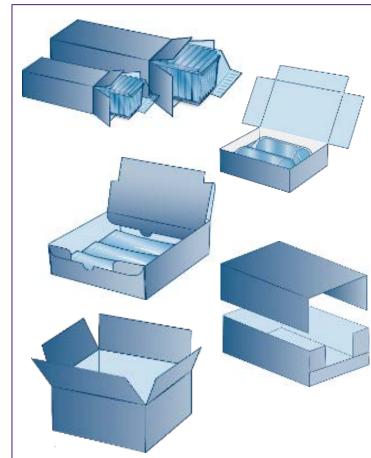


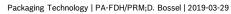
## **Biscuit Systems**

## Major Biscuit Packagings





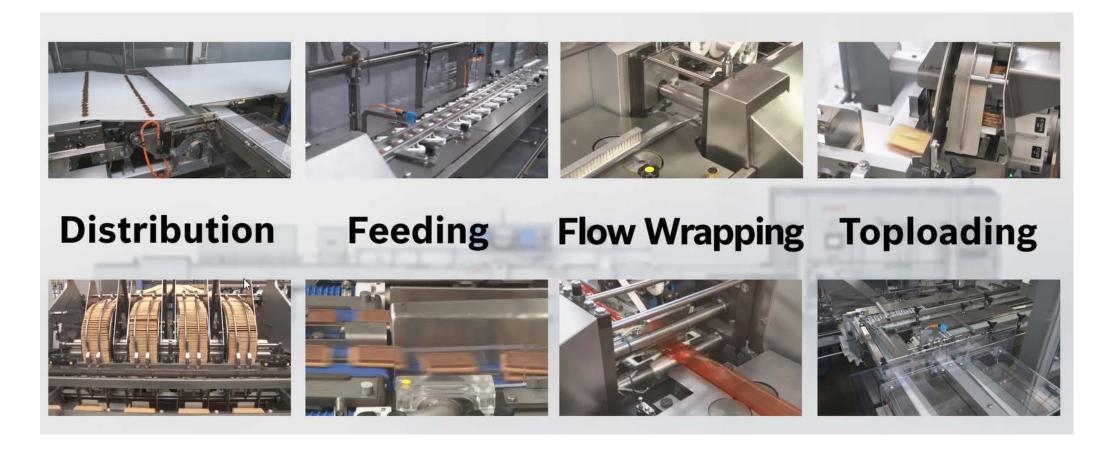






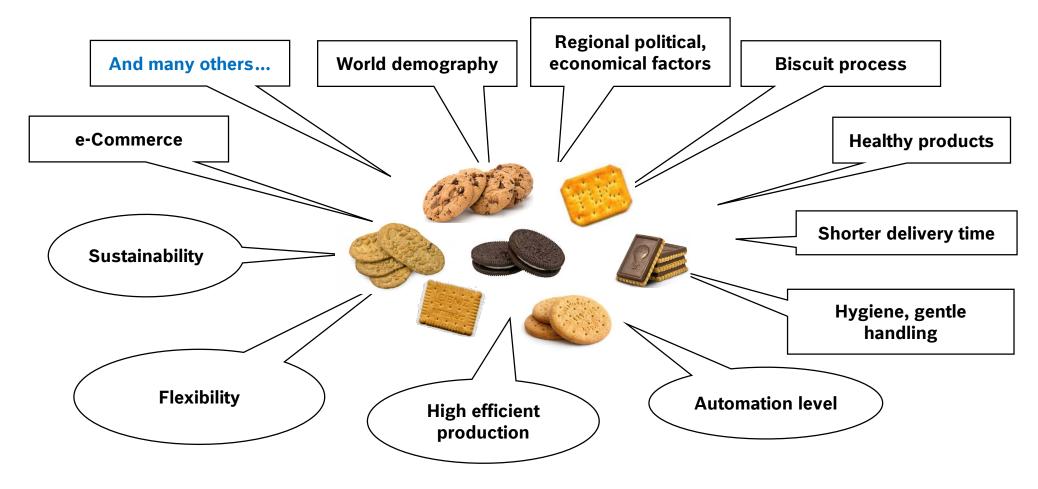
#### **Biscuit Systems**

#### Some Packaging System Applications



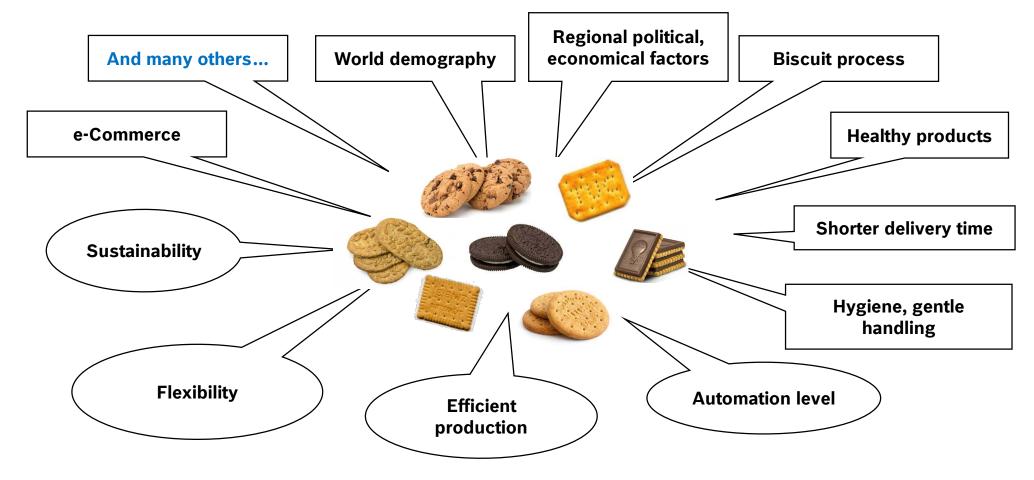


#### **Biscuit Trends**





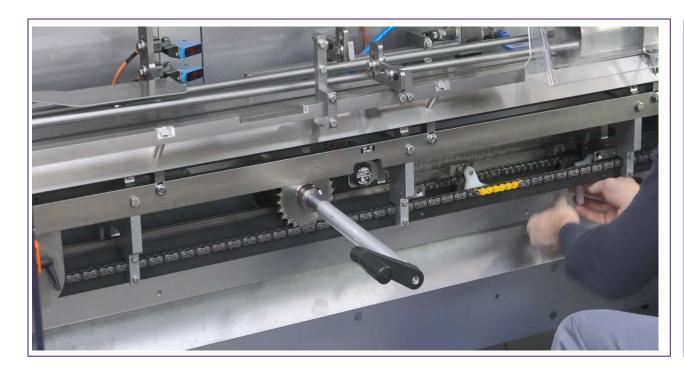
#### **AGENDA**, Today





#### **Conventional Solutions with Chain**



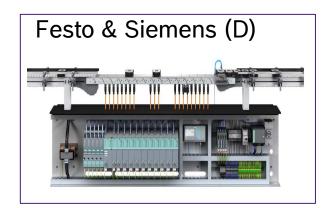


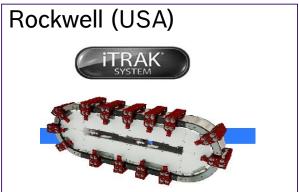


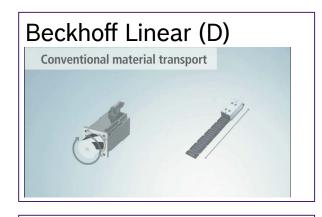


#### **Intelligent and flexible Motor Solutions**



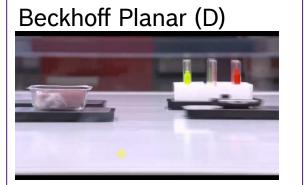






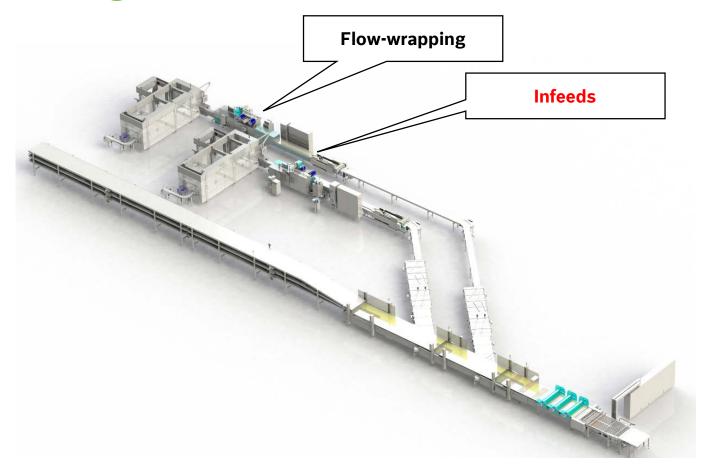






#### **How to use intelligent Motors?**

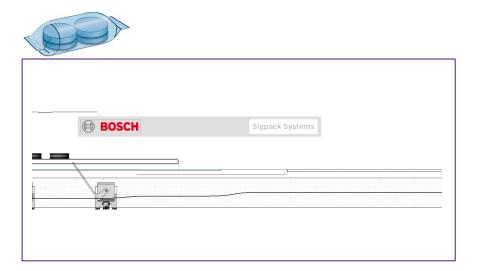








#### Linear Motor with clever Idea, Example Two in One

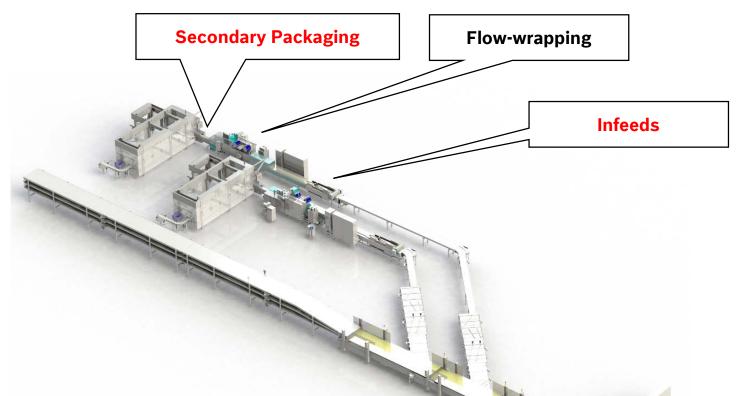








#### **How to use intelligent Motors?**



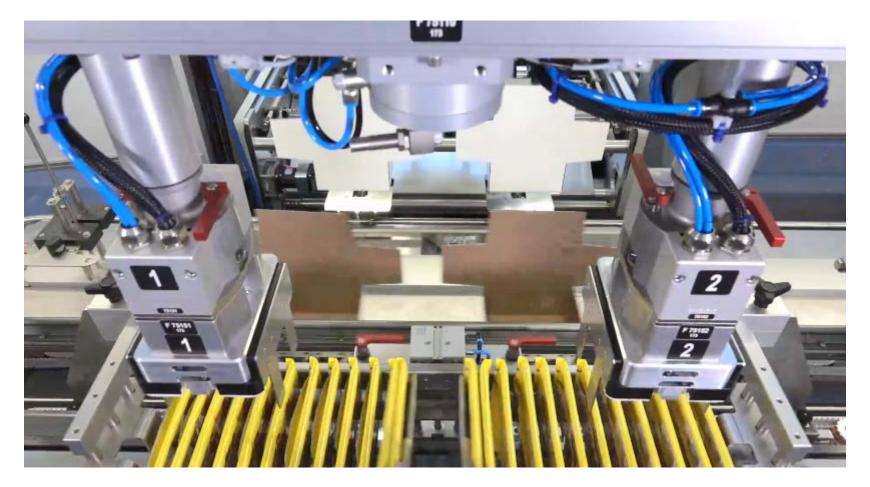




#### Flexibility

#### **Biscuits Industry Evolution**

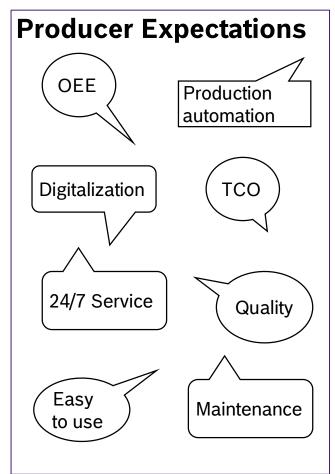
#### **Intelligent Motor Solutions**





### **The Industry 4.0 Revolution**









#### Manual Work...





#### **Less Manual Work by using Robots**





One year ago...



Mature Level Paloma with Card (reel) & P 201

**Entry** Level

Fanuc & P102

150b/min.



(reel) & P 201 240b/min.



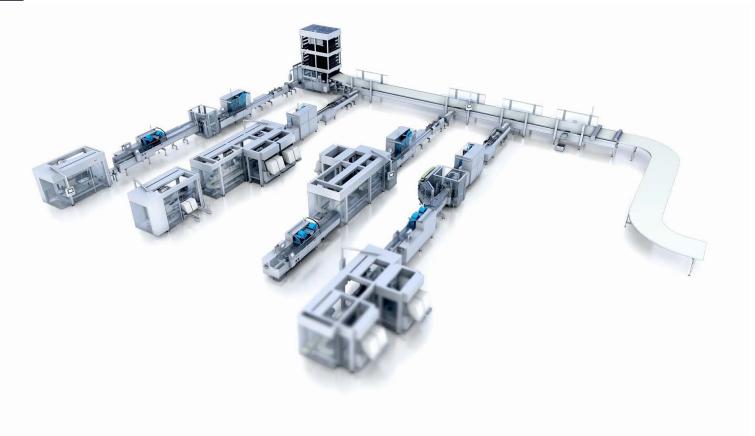
Automation Level

#### **Packaging Material changes with Collaborative Robot**

Packaging Material / Add. Material Feed / Refeed Product Cleaning

Operate Machine Size Change

Empty Waste / Reject Diagnostic

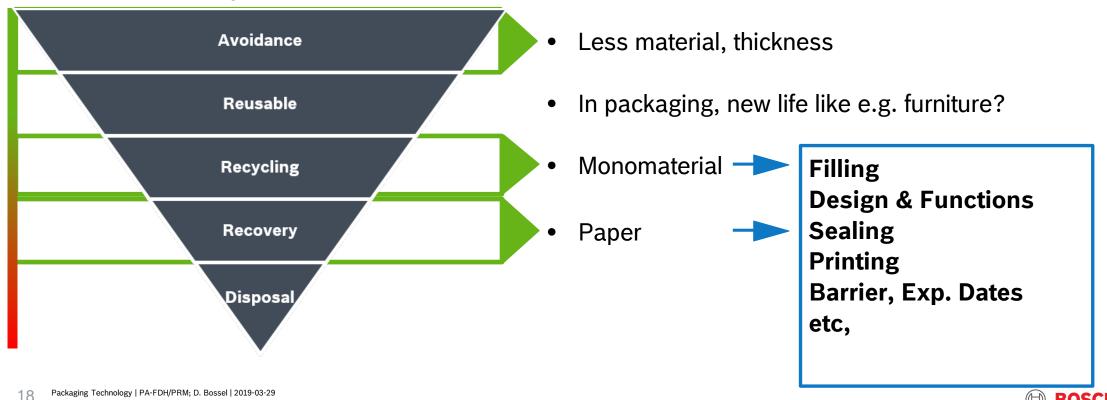




#### **EU- Waste Hierarchy**



«The EU and its 28 member states are legally bound to dispose litter according to the waste hierarchy»



#### **Sustainability**

#### **Biscuits Industry Evolution**

## **Less Material Stress during Heat Sealing**







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