



GUILLERMO AROSA

GESTOR COMERCIAL  
INFAIMON Group





# **VISIÓN ARTIFICIAL, PIEZA CLAVE DE LA INDUSTRIA 4.0**

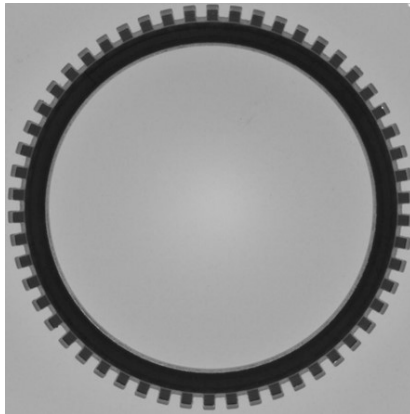
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**Jornada de innovación en automatización 4.0 para la industria  
alimentaria**

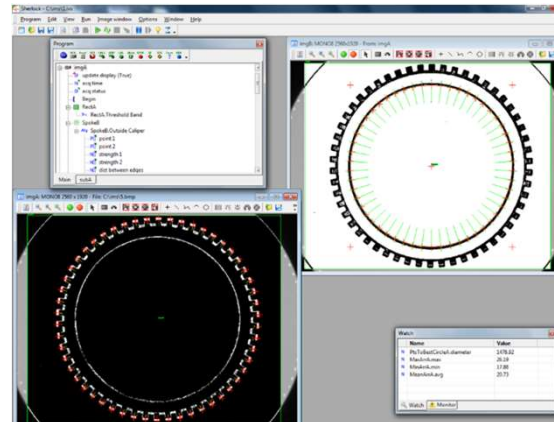


# ¿QUÉ ES LA VISIÓN ARTIFICIAL?

**IMAGEN**



**DATOS**



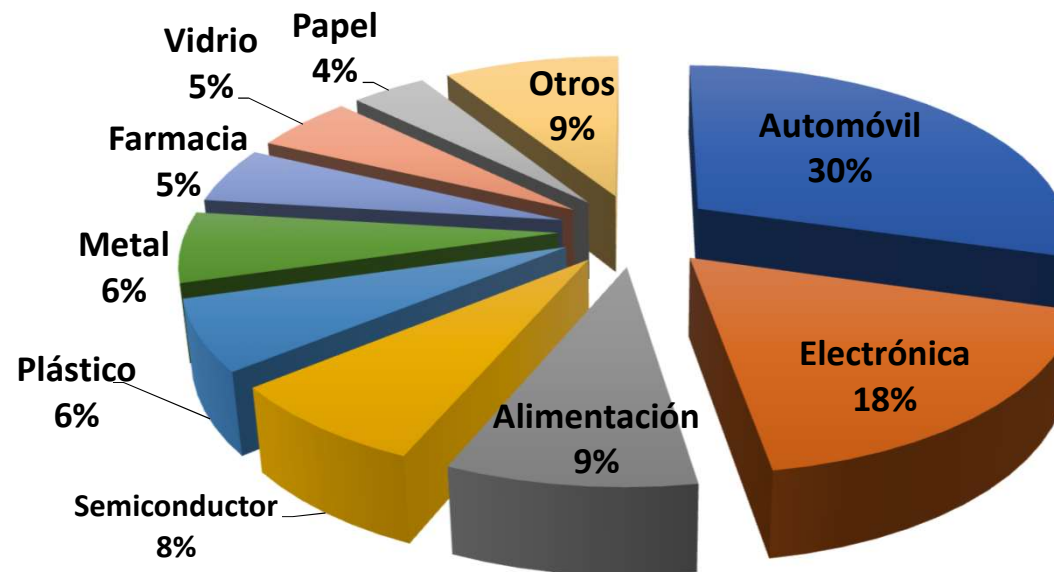
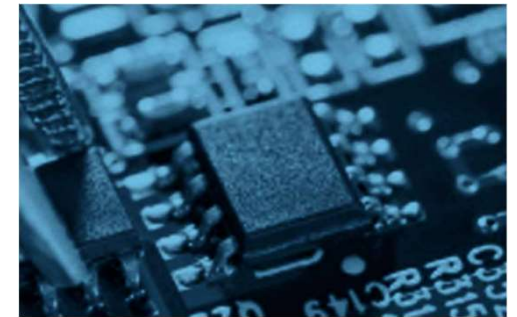
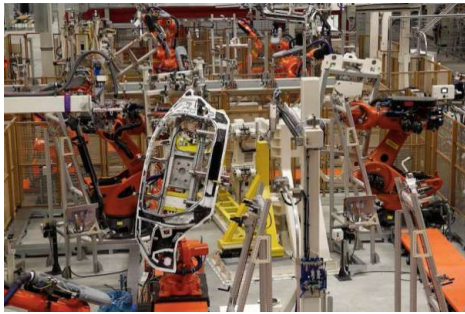
**DECISIÓN**

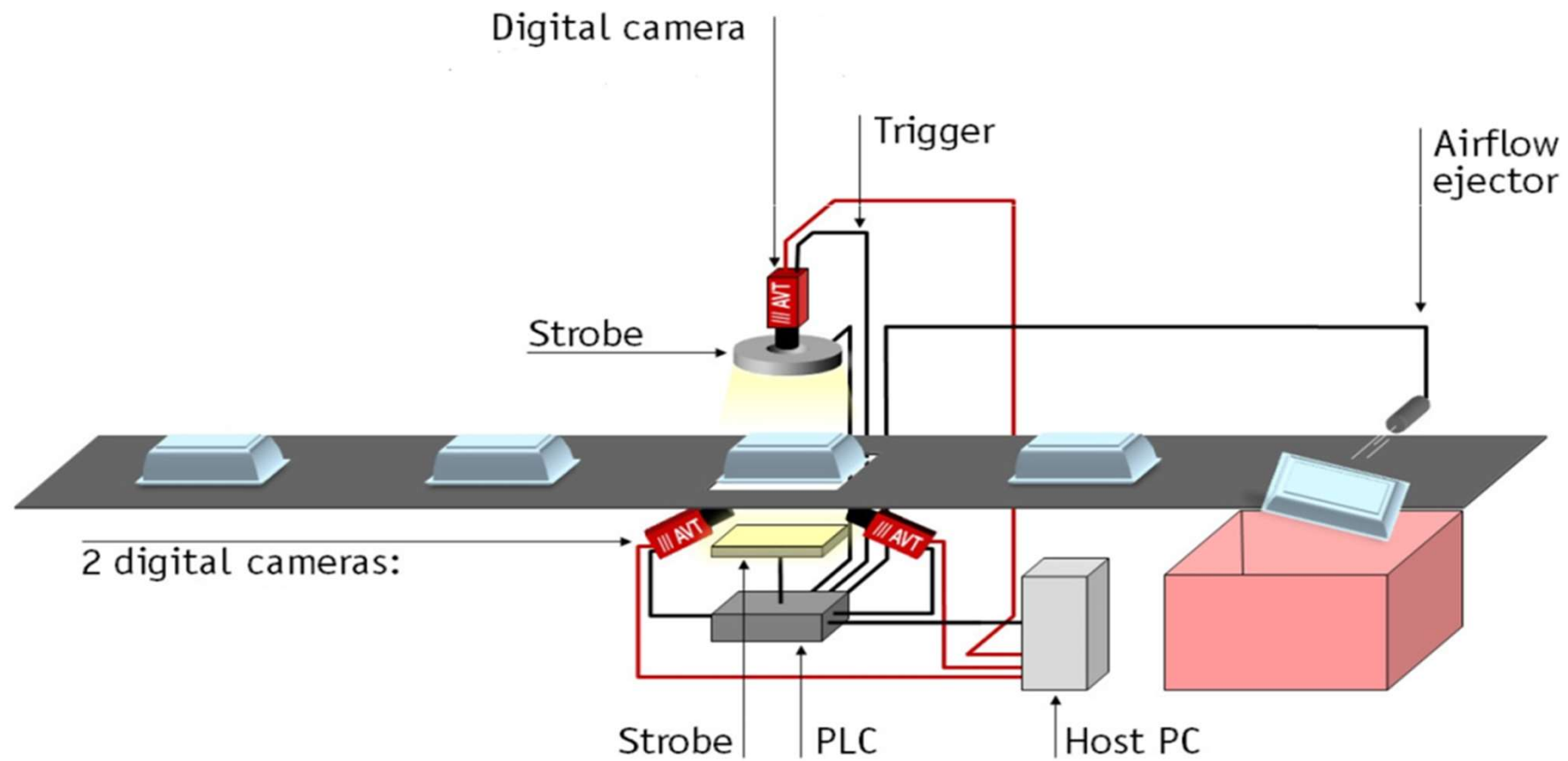


# EVOLUCIÓN EN EL TIEMPO



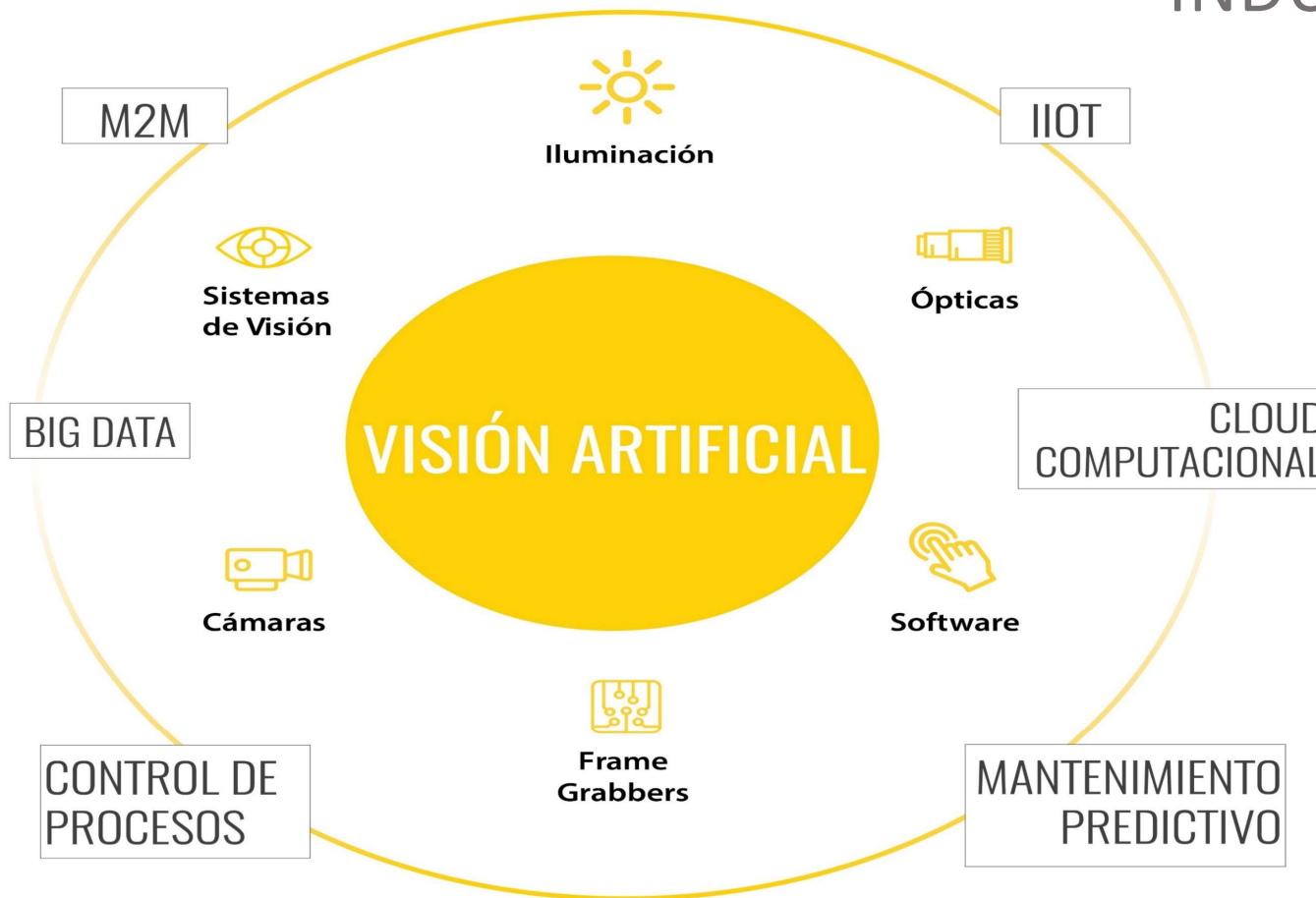
## TIPOS DE INDUSTRIA





# VISION ARTIFICIAL

## INDUSTRIA 4.0





## DE DÓNDE VENIMOS





# HACIA DÓNDE VAMOS



- Entornos Colaborativos
- Robótica Guiada por Visión



# APLICACIONES

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## APROVISIONAMIENTO



LECTURA DE MATRÍCULAS



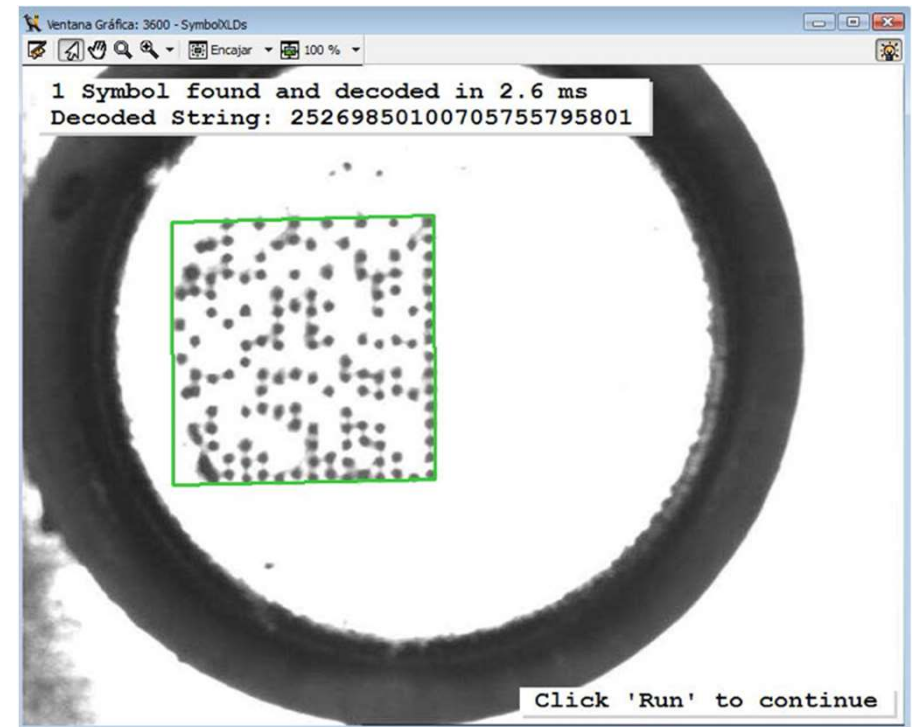
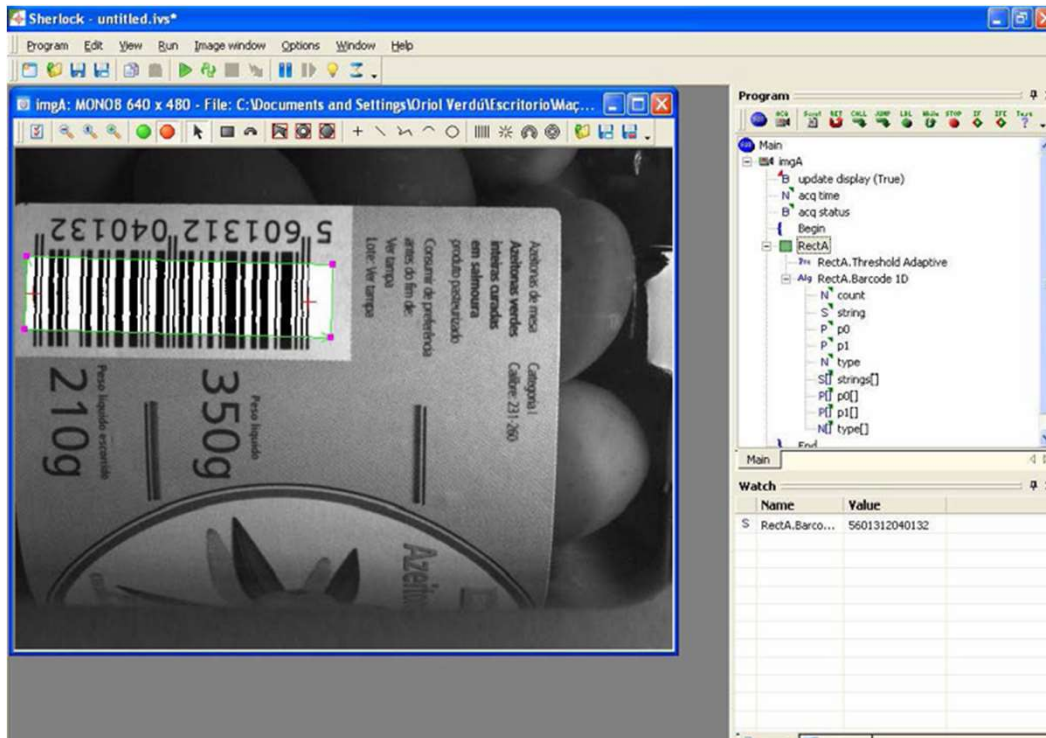
CONTROL DE CONTENEDORES



MATERIALES PELIGROSOS

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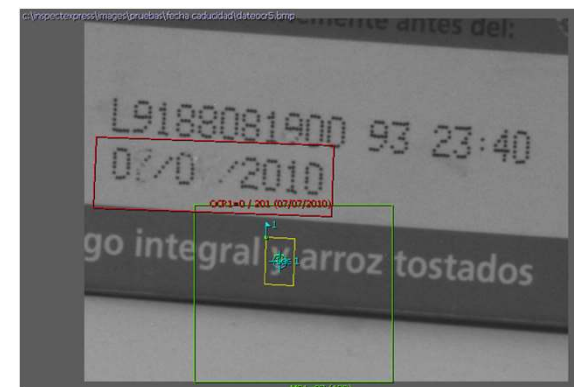
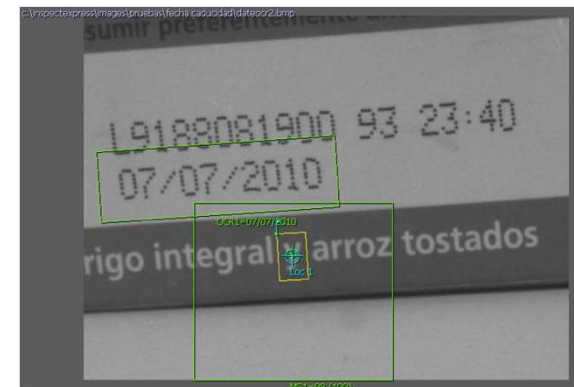
## LECTURA DE CÓDIGOS 1D y 2D





# TRAZABILIDAD

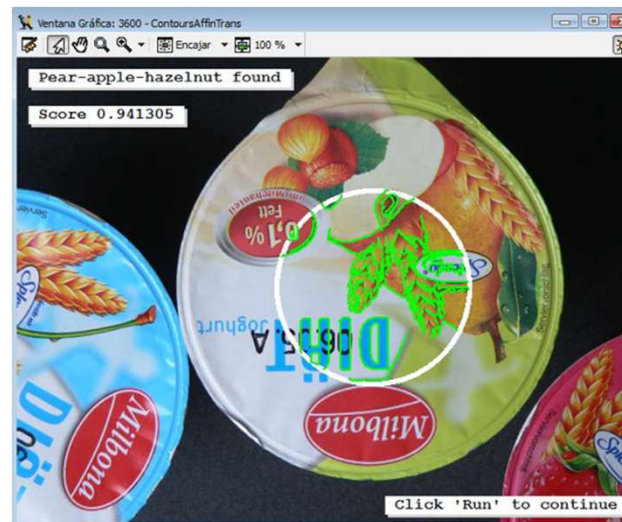
## LECTURA OCR



# TRAZABILIDAD

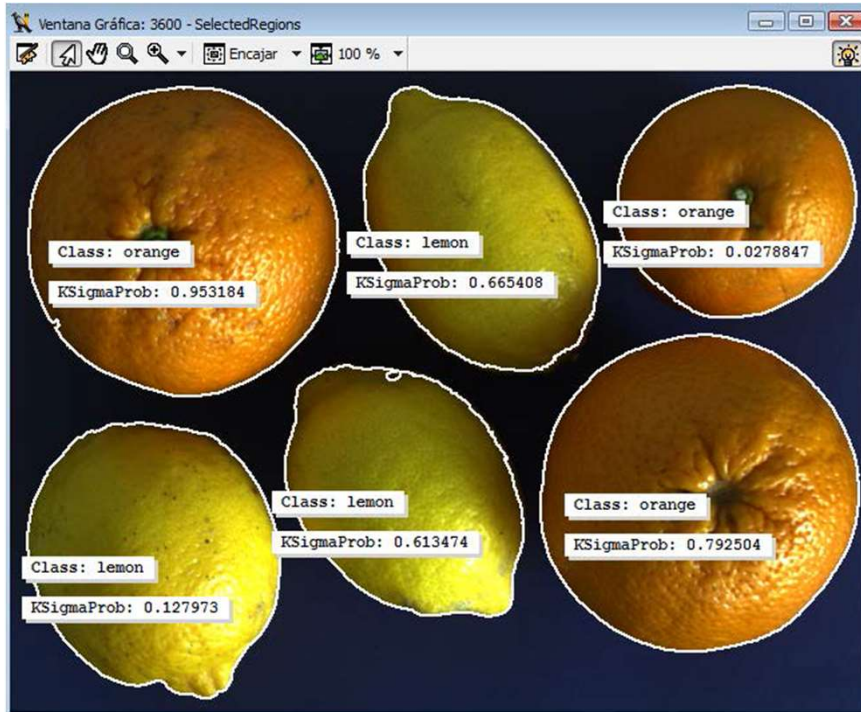
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## IDENTIFICACIÓN DE PRODUCTO



## CONTROL DE CALIDAD

# CLASIFICACIÓN POR COLOR, TAMAÑO Y FORMA

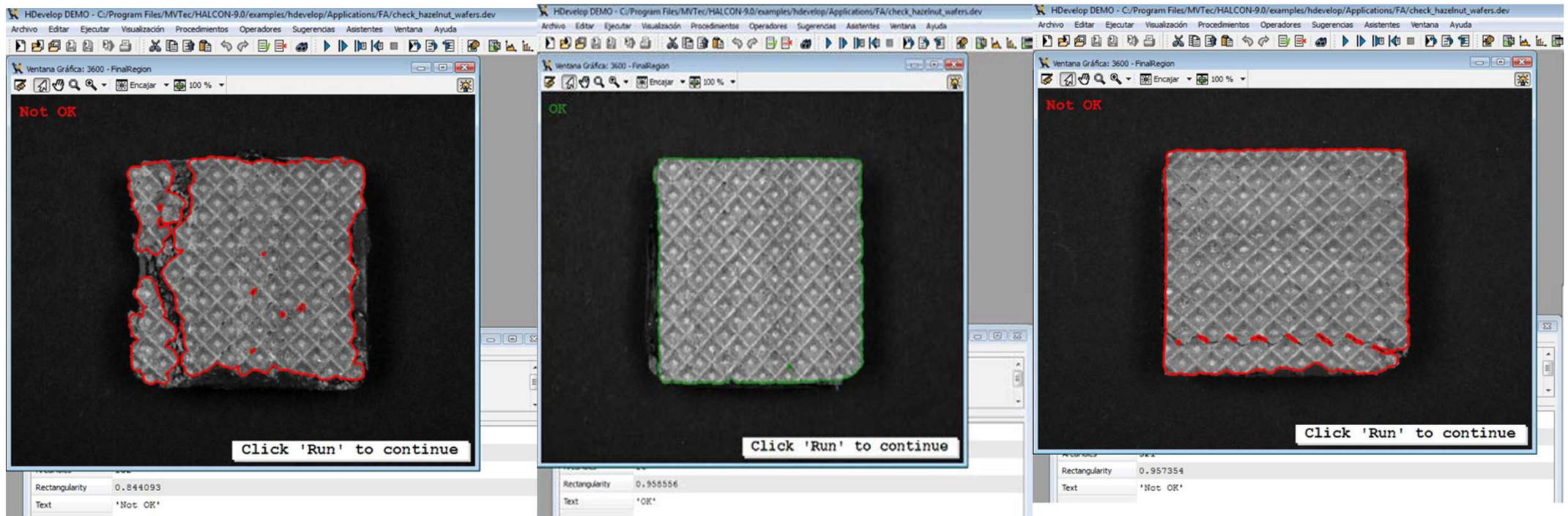




# CONTROL DE CALIDAD

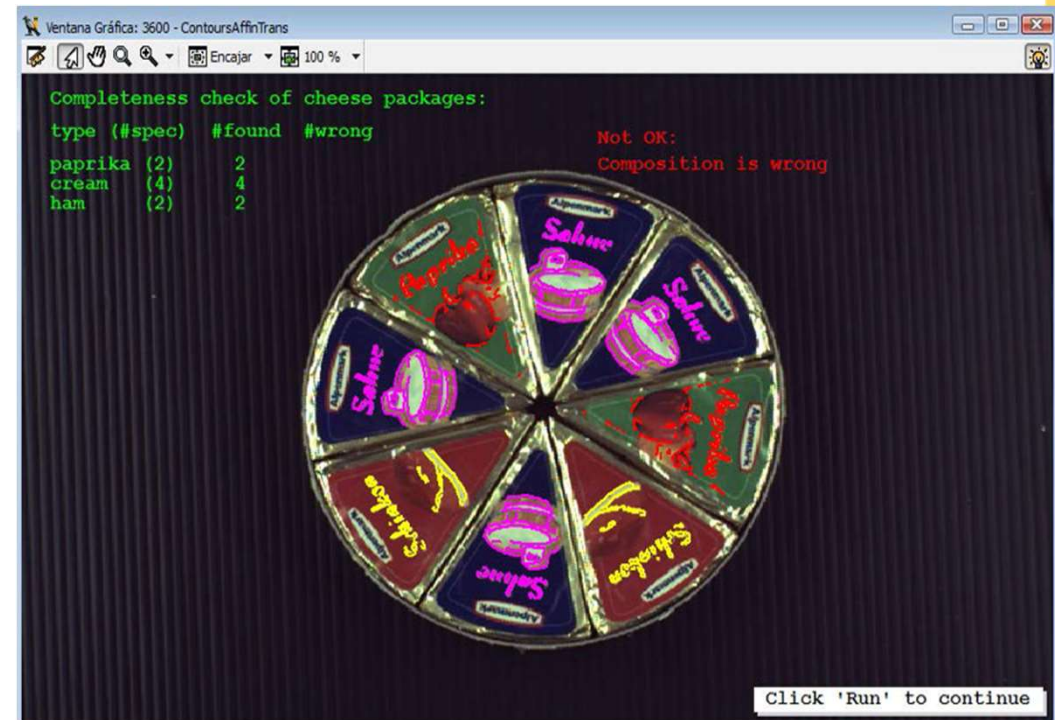
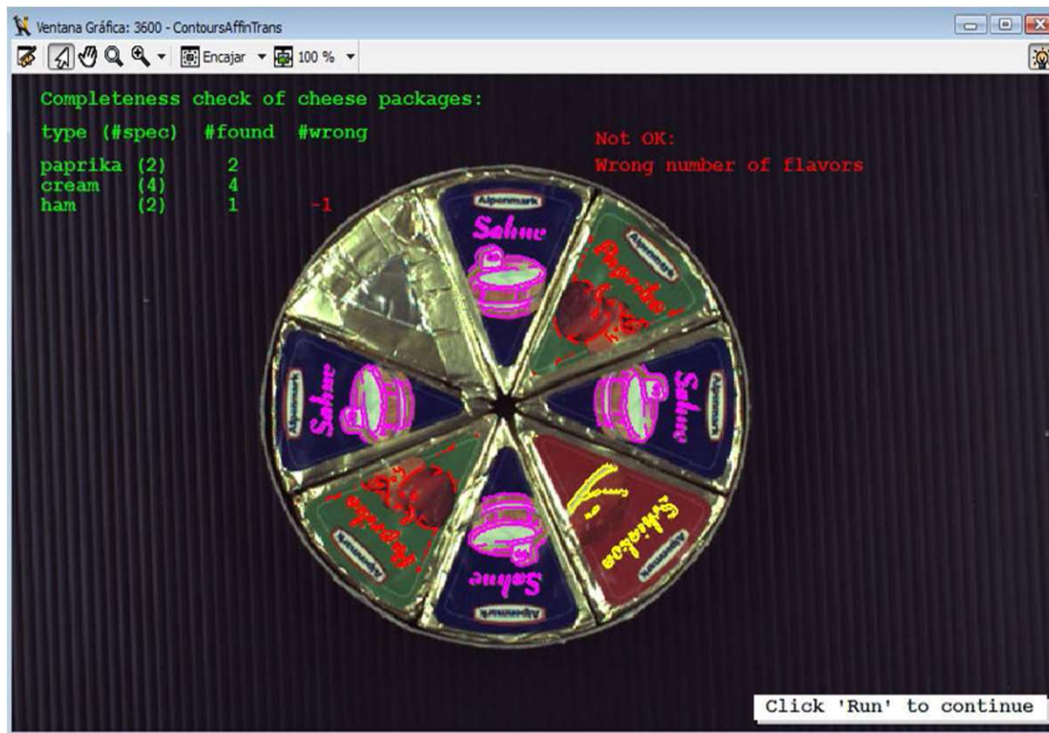
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## DIMENSIONES E INTEGRIDAD



# CONTROL DE CALIDAD

## CONTROL DE COMPOSICIÓN Y POSICIÓN

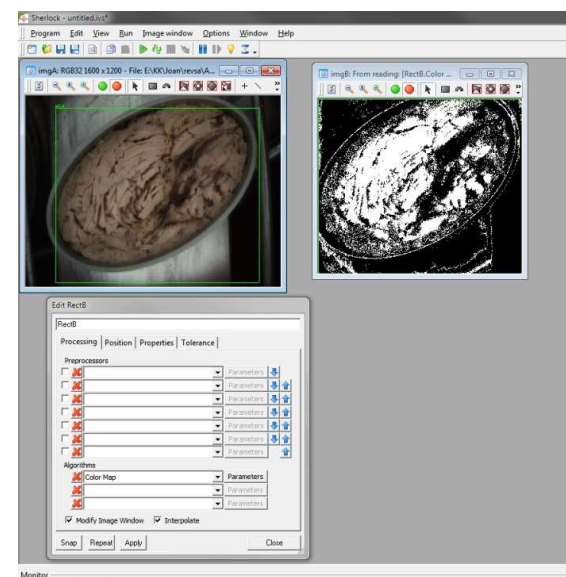
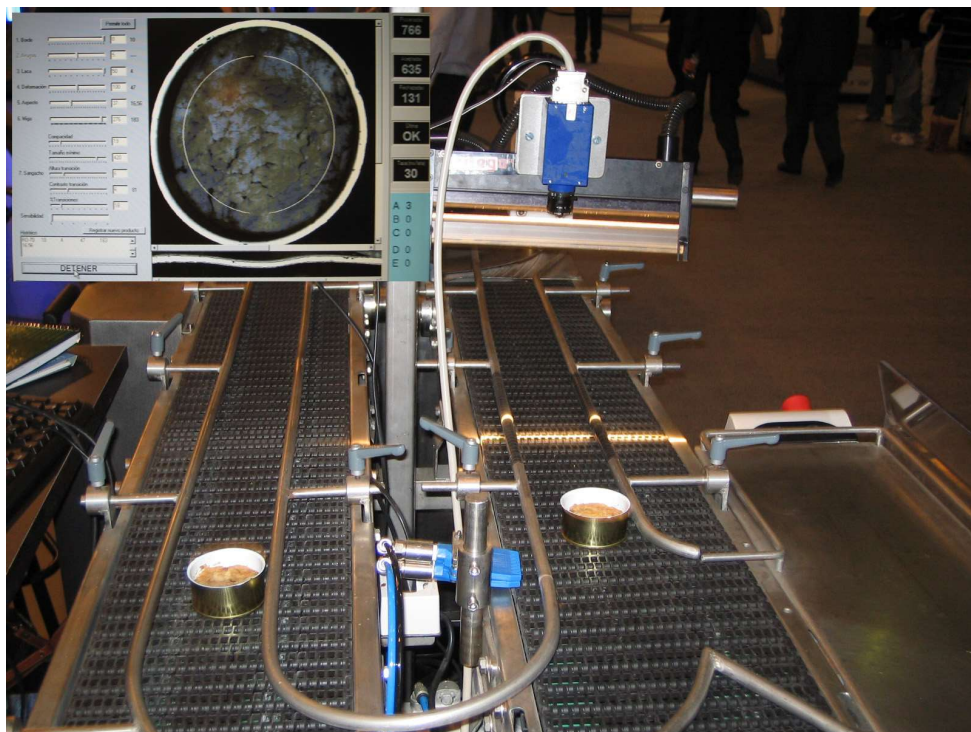




# CONTROL DE CALIDAD

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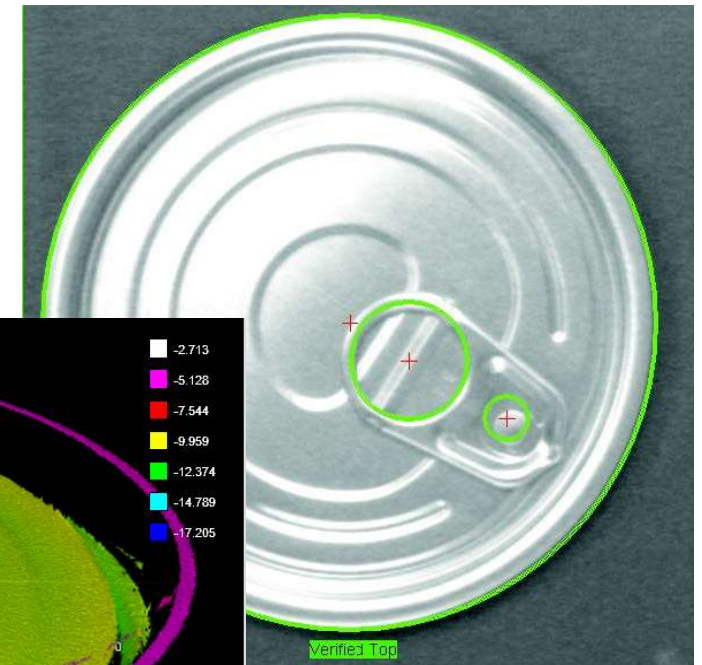
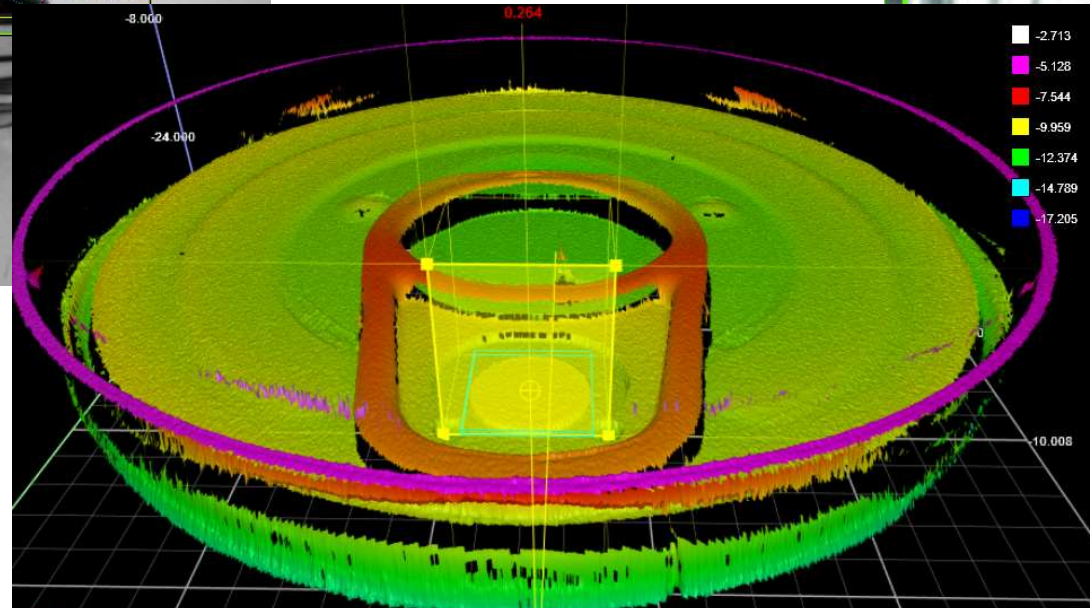
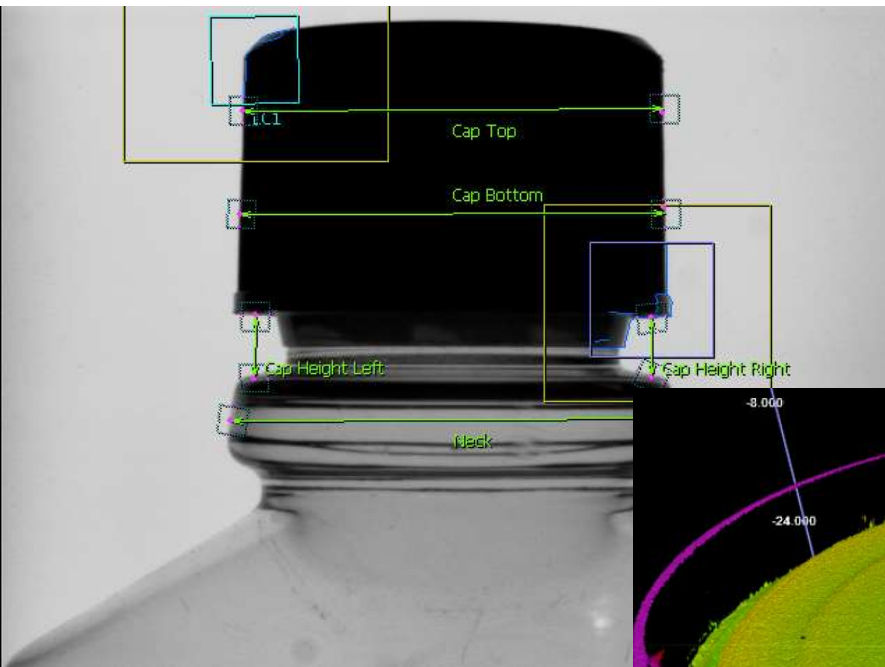
## CONTROL DE LLENADO





# CONTROL DE CALIDAD

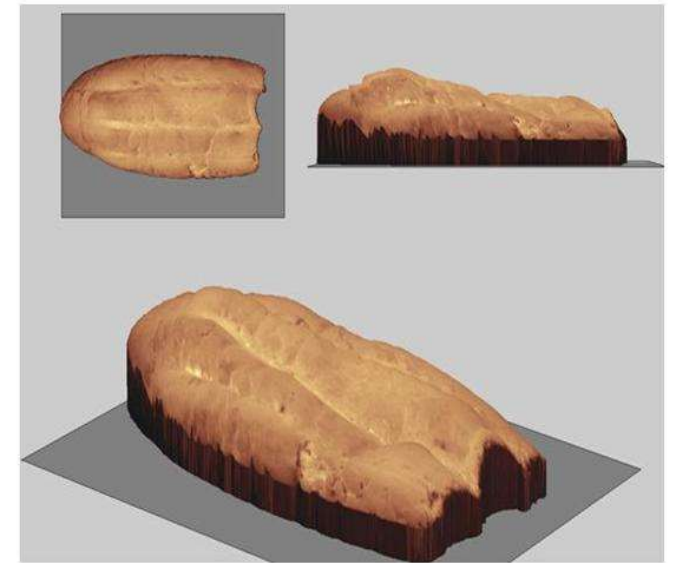
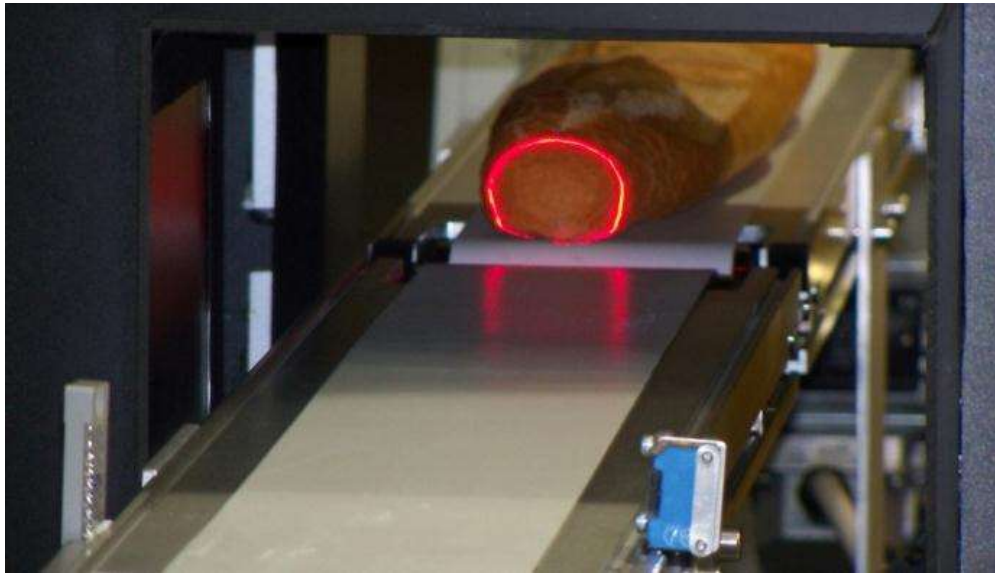
## PACKAGING



# CONTROL DE CALIDAD

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## MEDICIÓN 3D. VOLUMEN



Robótica Guiada por Visión  
Deep Learning  
Embedded Vision  
Hyperspectral





**ROBOT DE SERVICIO**

## VGR – 3D



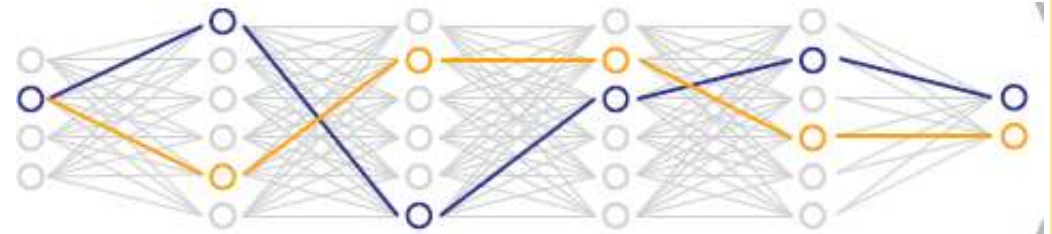
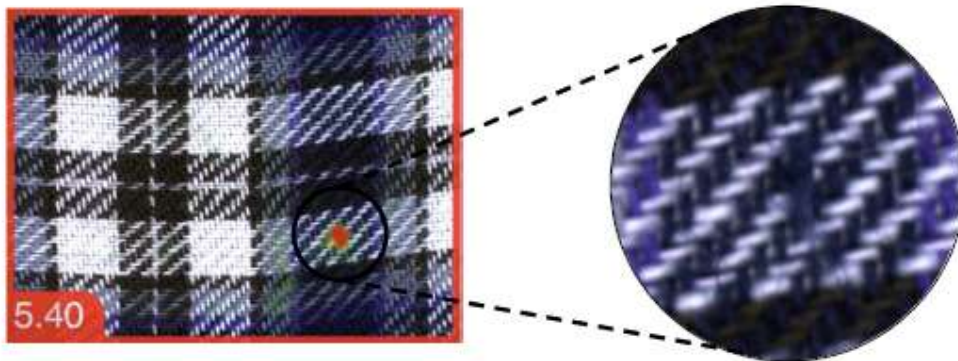
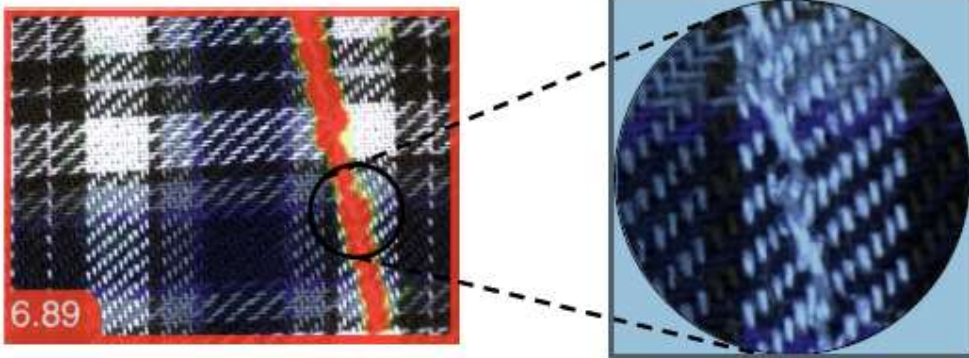
**ROBOT INDUSTRIAL**

# APLICACIONES VGR 3D

## BINPICKING



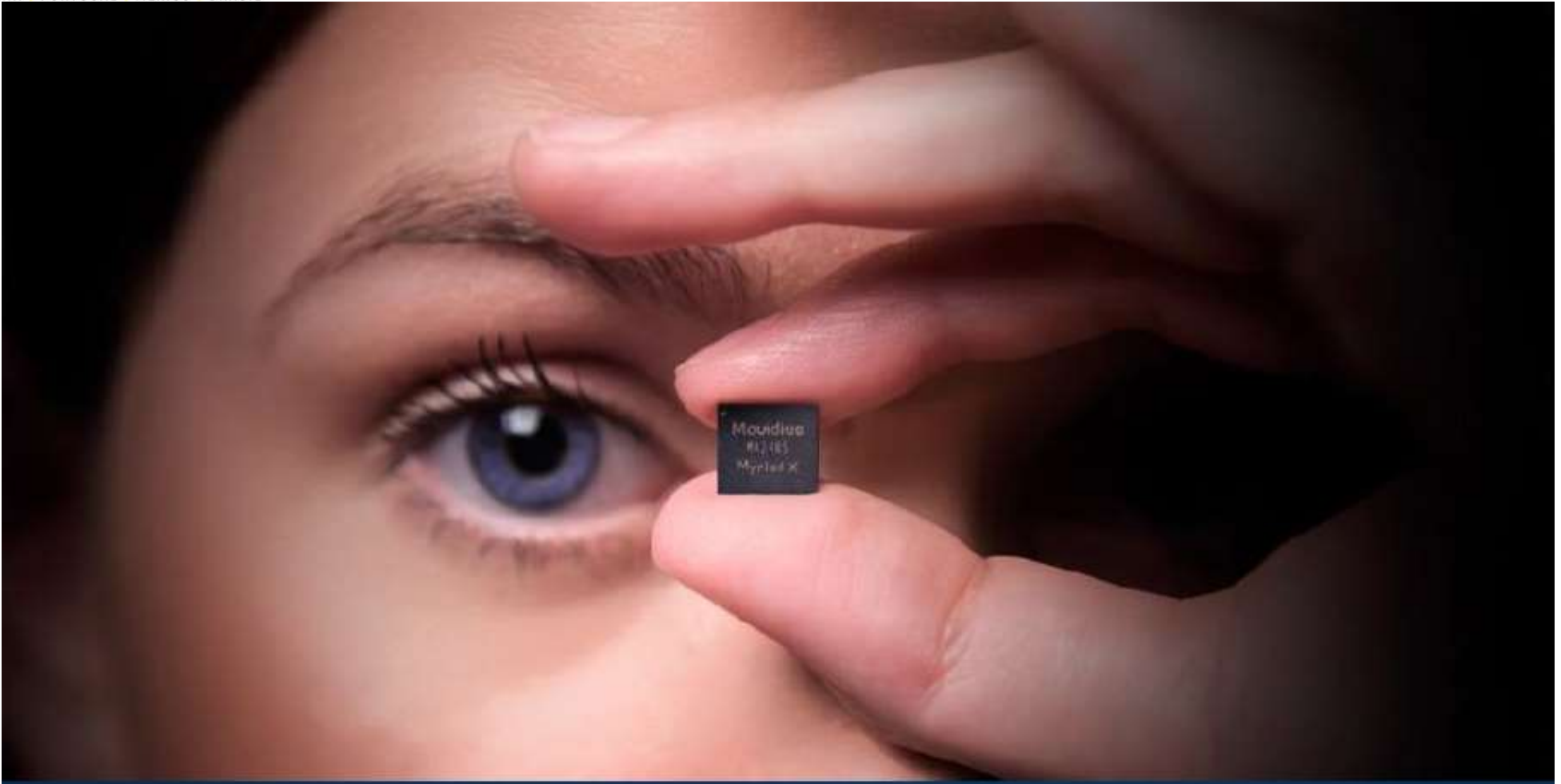
# DEEP LEARNING



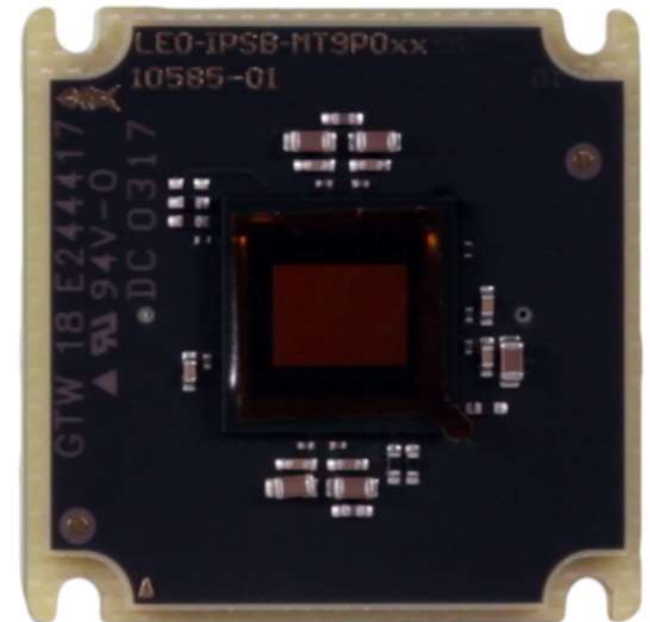
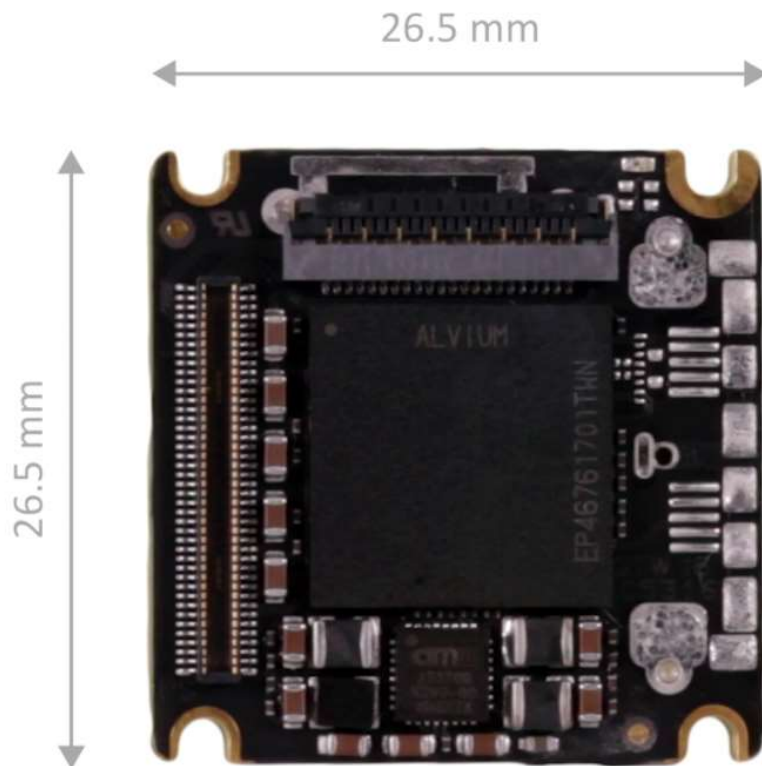


## VISION EMBEDDED

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# SMART CAMERA

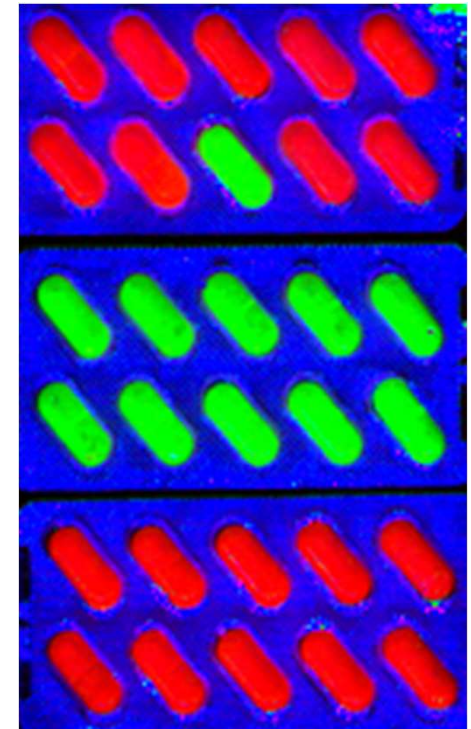
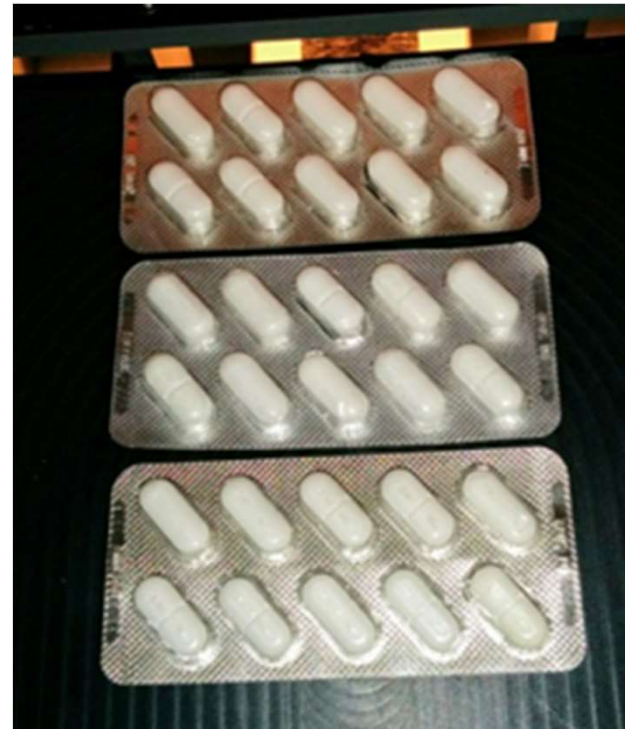
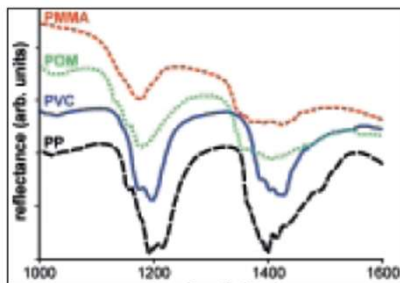


ALVIUM – 1 PRODUCT LINE

# SISTEMAS HYPERESPECTRALES

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## IMAGEN QUIMICA





# SISTEMAS HYPERESPECTRALES

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## IMAGEN QUIMICA

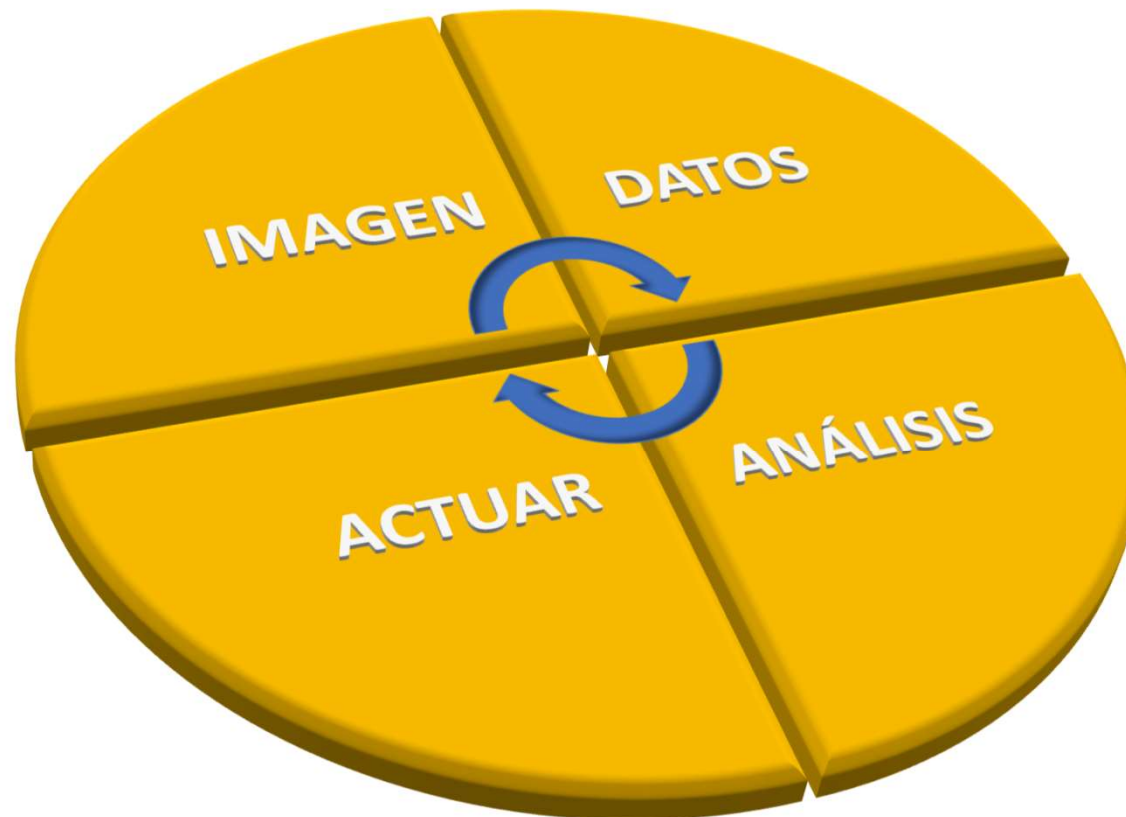


# FUTURO DE LA VISIÓN ARTIFICIAL



# CONTROL DE PROCESOS PRODUCTIVOS

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GRACIAS

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