



EUROPEAN WEEK OF
REGIONS & CITIES

2003 - 2022

New Challenges for
Europe's Cohesion

Unlock the potential for AI in Europe



#EURegionsWeek

Miguel de Prado
Senior Researched at Bonseyes Association





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AI Overview

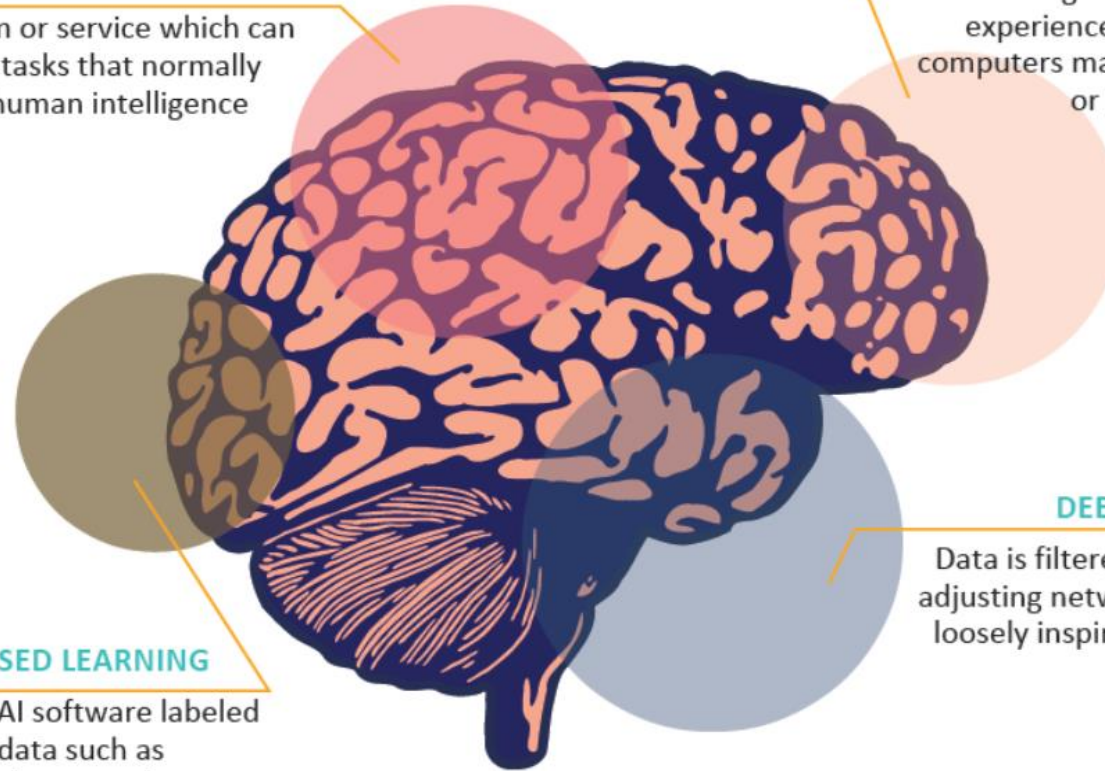
New Challenges for
Europe's Cohesion

ARTIFICIAL INTELLIGENCE

A system or service which can perform tasks that normally require human intelligence

MACHINE LEARNING

Using example data or experience to refine how computers make predictions or perform a task



SUPERVISED LEARNING

Showing AI software labeled example data such as photographs to teach computer what to do

DEEP LEARNING

Data is filtered through self adjusting networks of match loosely inspired by neurons in the brain

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STAIRWAI

i-energy
Artificial Intelligence
for Energy

DIH
AI

BONSAPPS

AIPLAN
4EU

AI4
copernicus



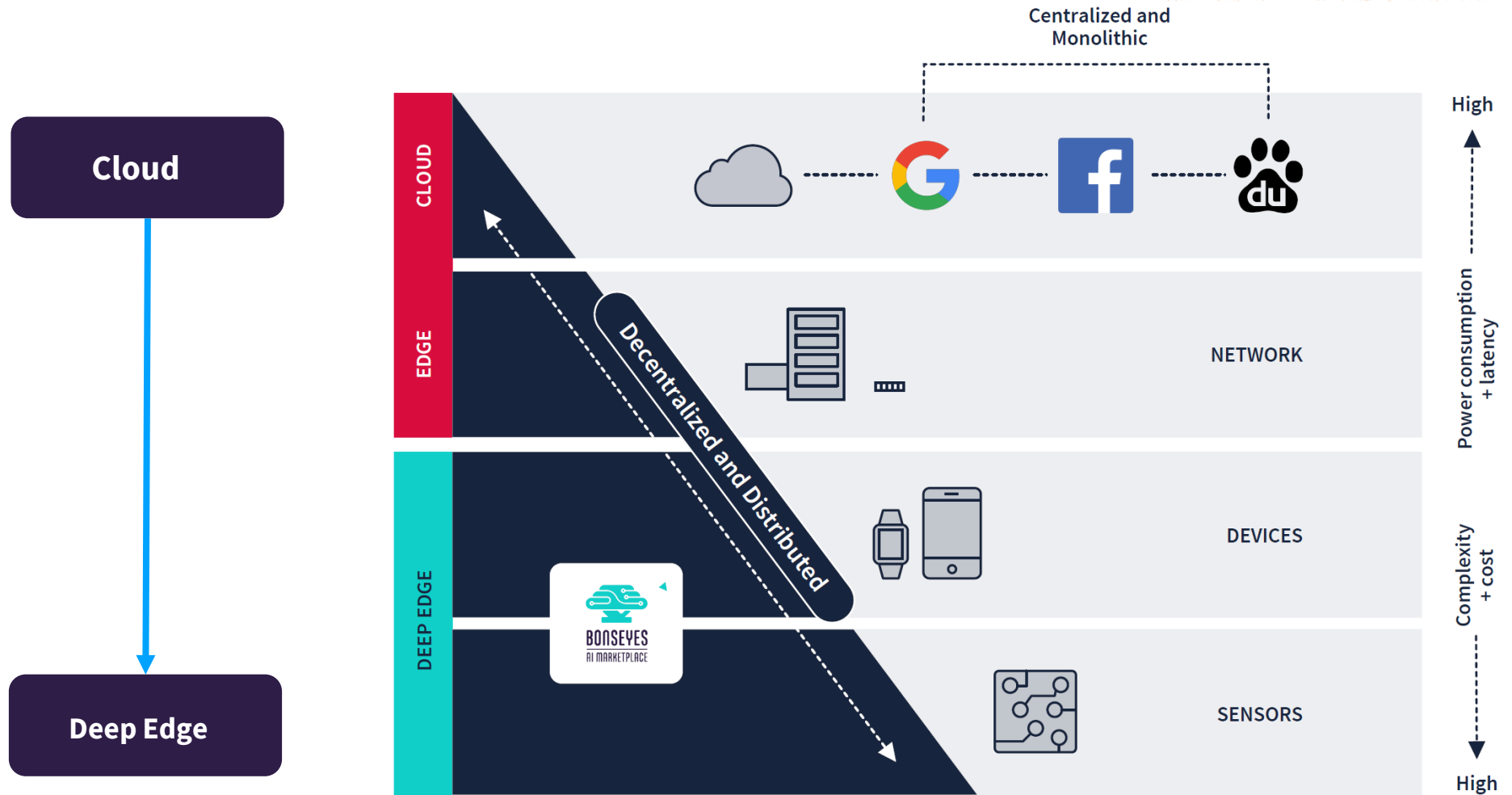


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AI Overview

New Challenges for
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Use Cases

New Challenges for
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Robotics

- Collision avoidance
- Keyword spotting



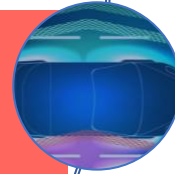
Manufacturing

- Defect detection
- Object detection



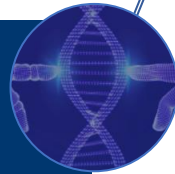
Automotive

- Gaze detection
- Body part tracking
- Gesture recognition



Health

- Remote vital signs
- Heart rate detection
- 3D Body detection



Space

- Atmosphere monitoring
- Environment/Climate monitoring
- Emergency management



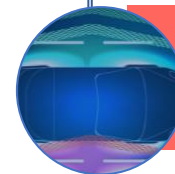
Energy

- Demand forecast
- Energy usage & optimisation



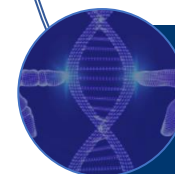
Security

- Fraud detection
- Personalization



Marketing

- Targeted marketing
- Churn prediction





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Use Cases: Automotive

New Challenges for
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Smart Mobility INTERIOR SENSING



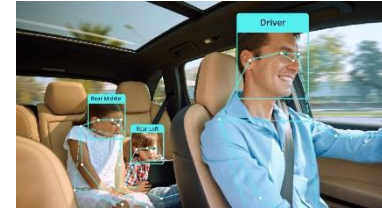
IN-CABIN INTERIOR CAMERA

Detect distracted and drowsy drivers by accurately measuring eye and head position, attention, fatigue, and dangerous driver activities. Highly accurate biometrics analysis helps in the identification of individuals by precisely recognizing their unique characteristics to ensure vehicle security. Being mandated by regulators for autonomous driving features.

Use Cases



DRIVER MONITORING
SAFETY



OCCUPANT DETECTION
SECURITY

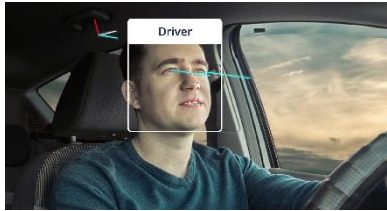


GESTURE RECOGNITION
EXPERIENCE

Videos



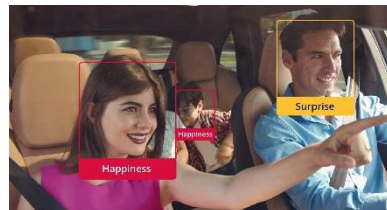
Challenges for AI Solutions



DRIVER MONITORING
SAFETY



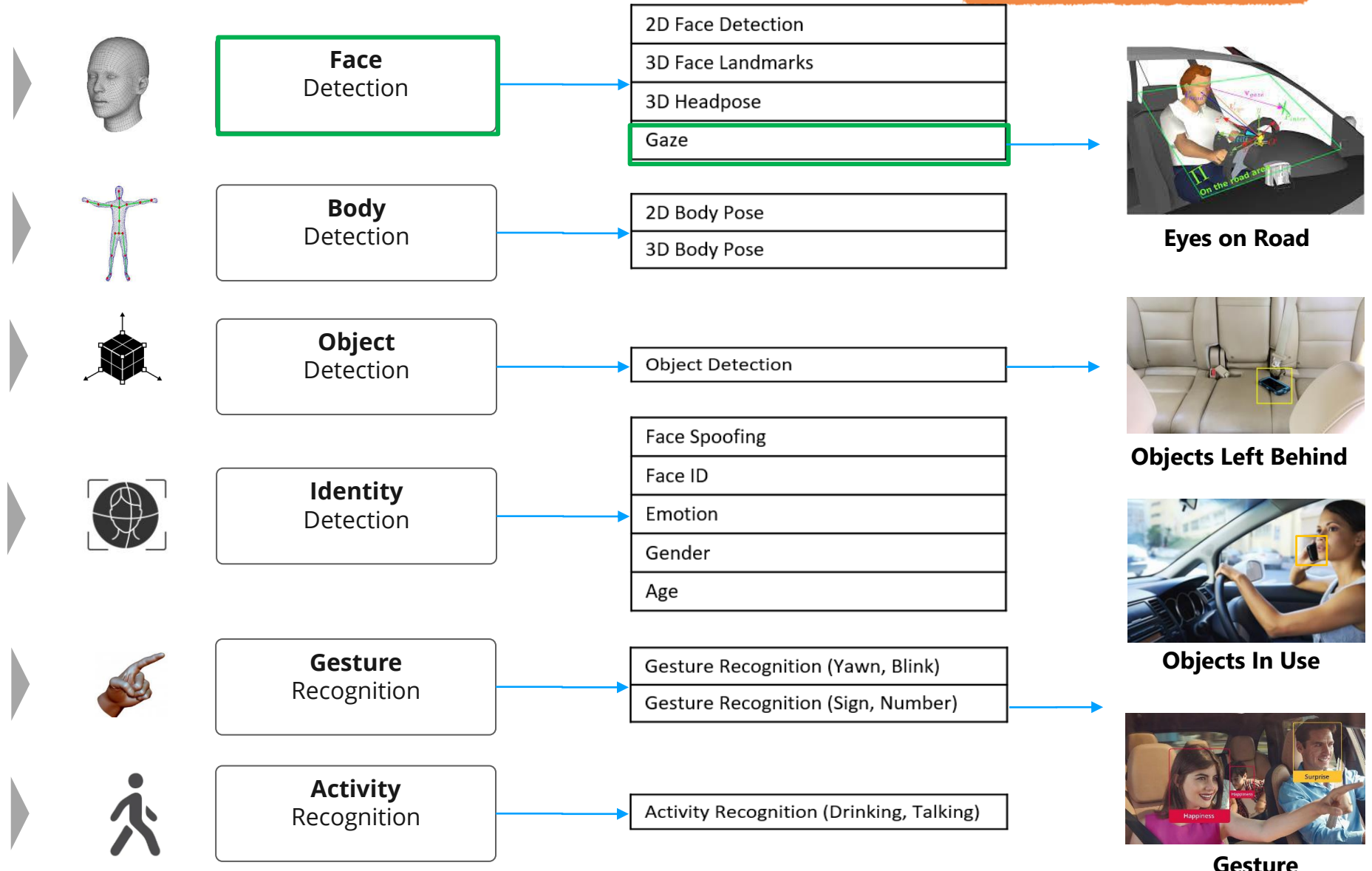
INTERIOR MONITORING
SECURITY



GESTURE RECOGNITION
COMFORT / HMI

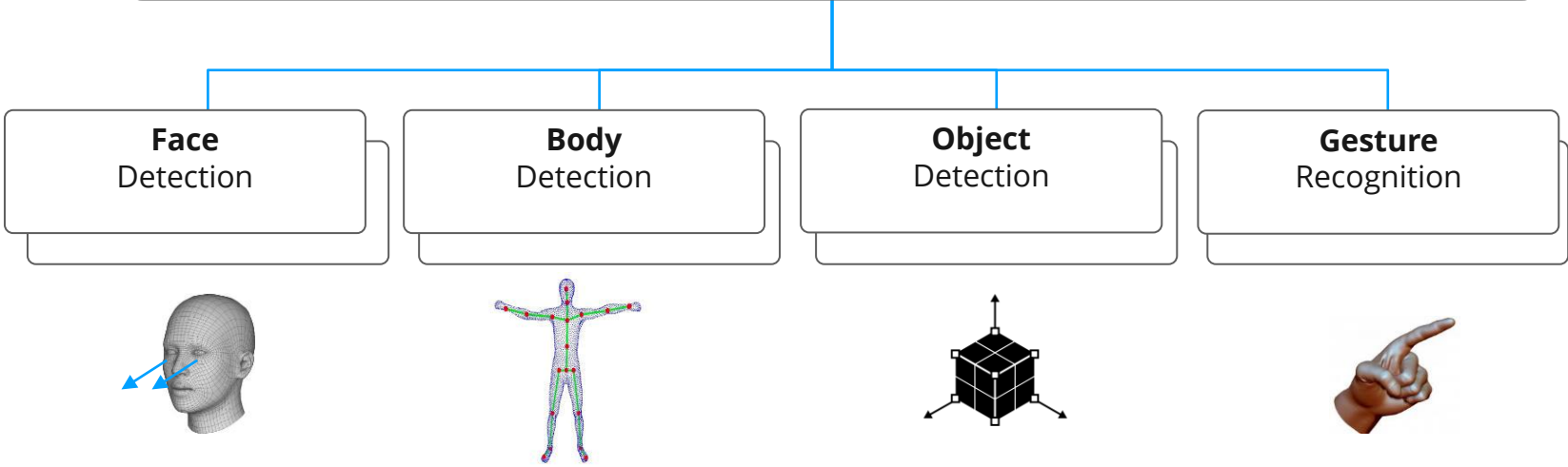
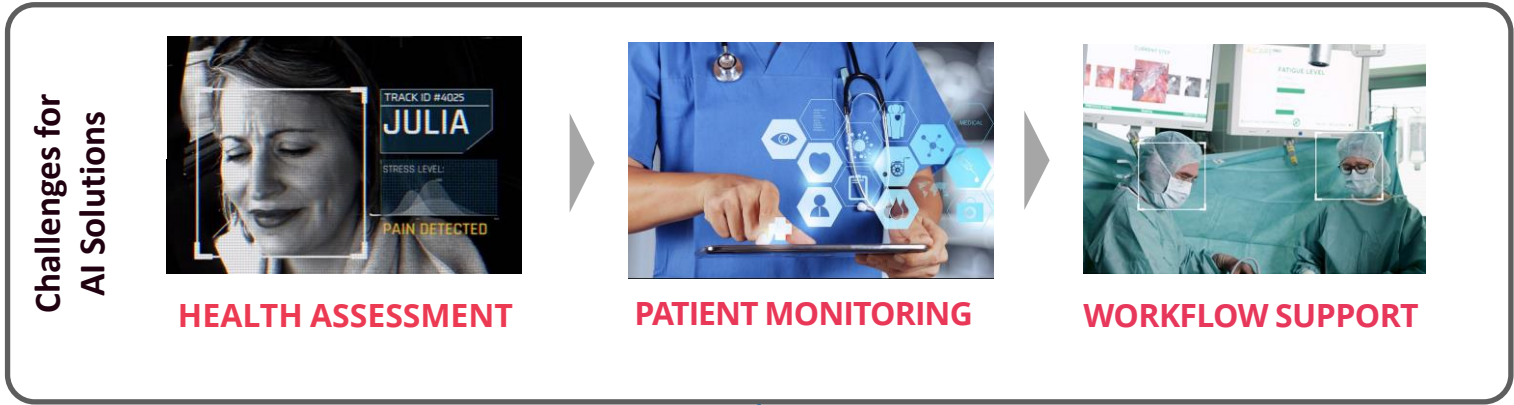
Use Cases: Automotive

New Challenges for Europe's Cohesion



Use Cases: Healthcare

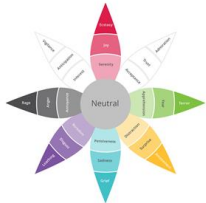
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Pain Assessment



Vital Signs



Mood



Fatigue



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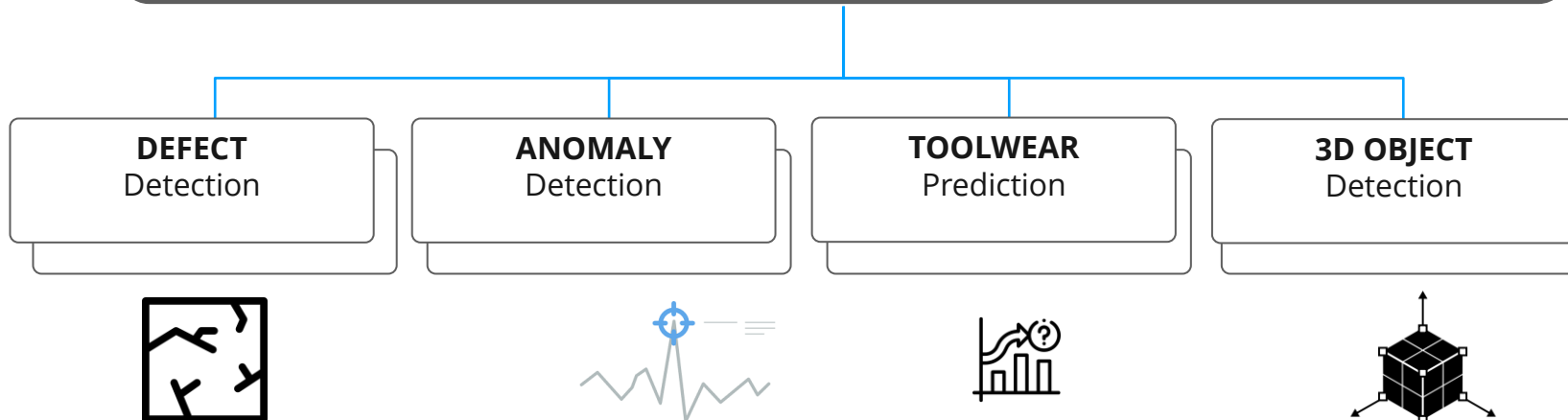
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Use Cases: Manufacturing

New Challenges for
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Challenges for AI Solutions

 <p>VISUAL QUALITY INSPECTION QUALITY</p>	 <p>PREDICTIVE MAINTENANCE EFFICIENCY</p>	 <p>HP FEEDING SYSTEMS PRODUCTIVITY</p>
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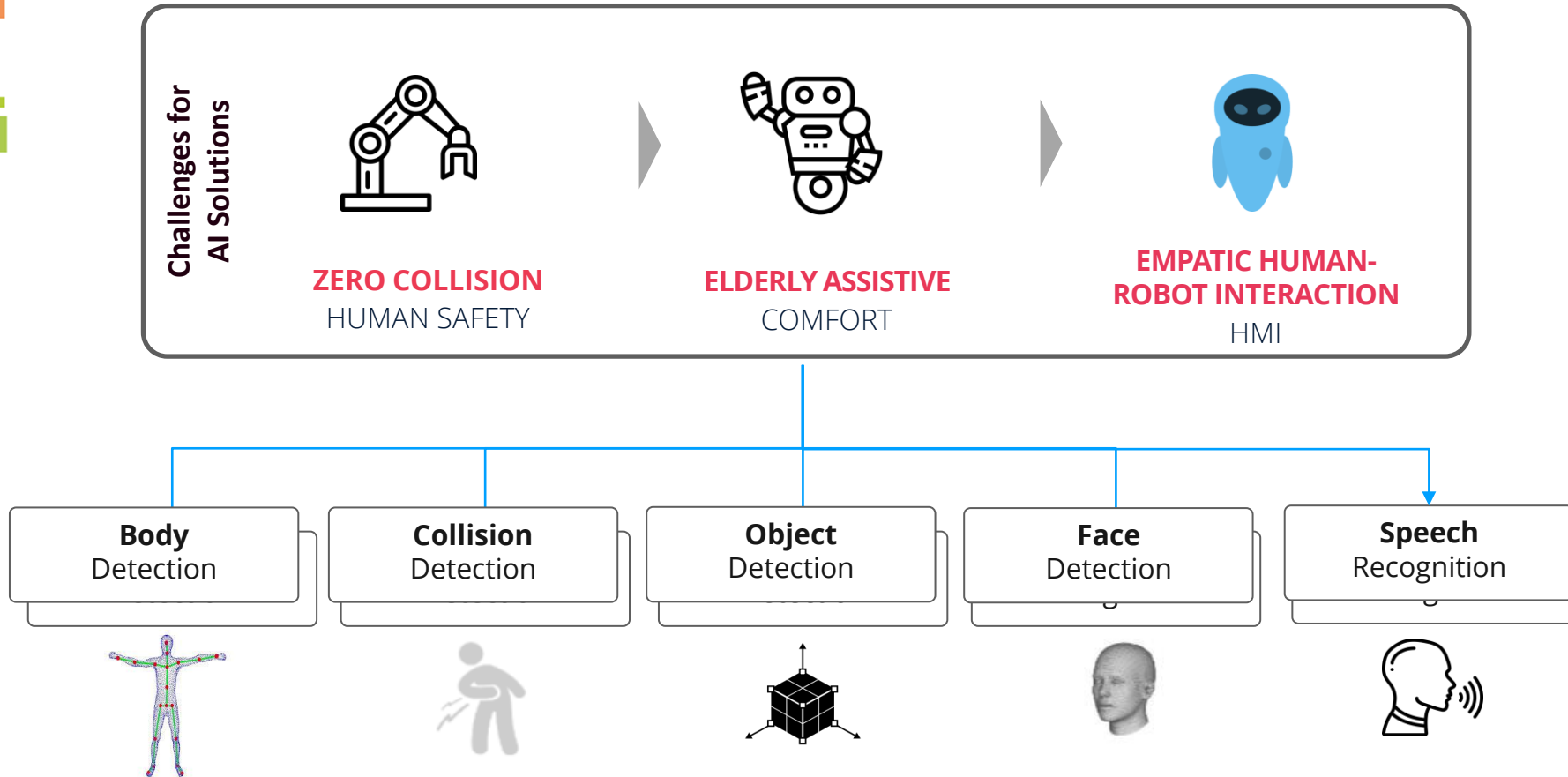


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Use Cases: Robotics

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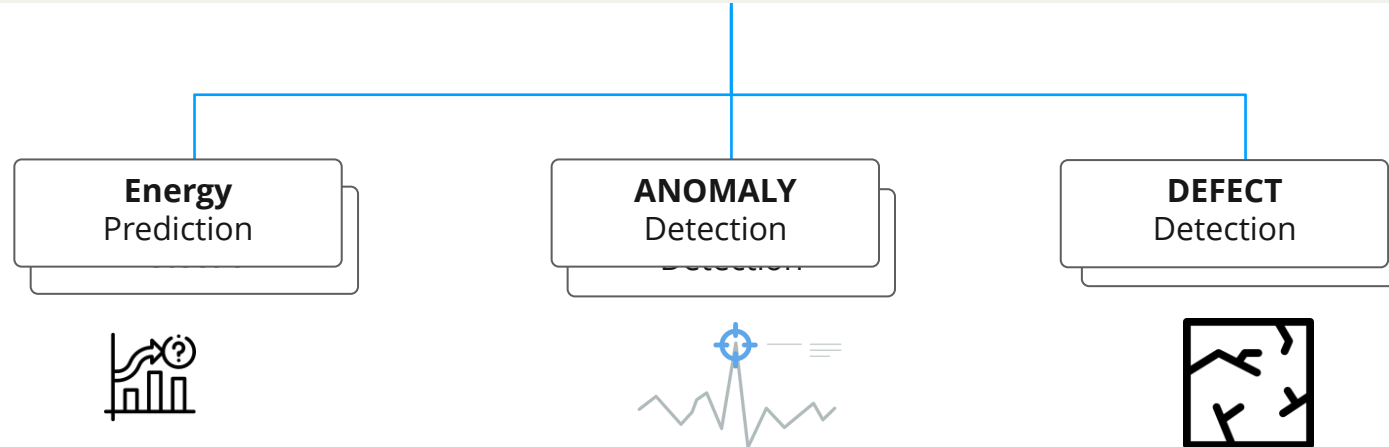


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2023 - 2024

Use Cases: Energy

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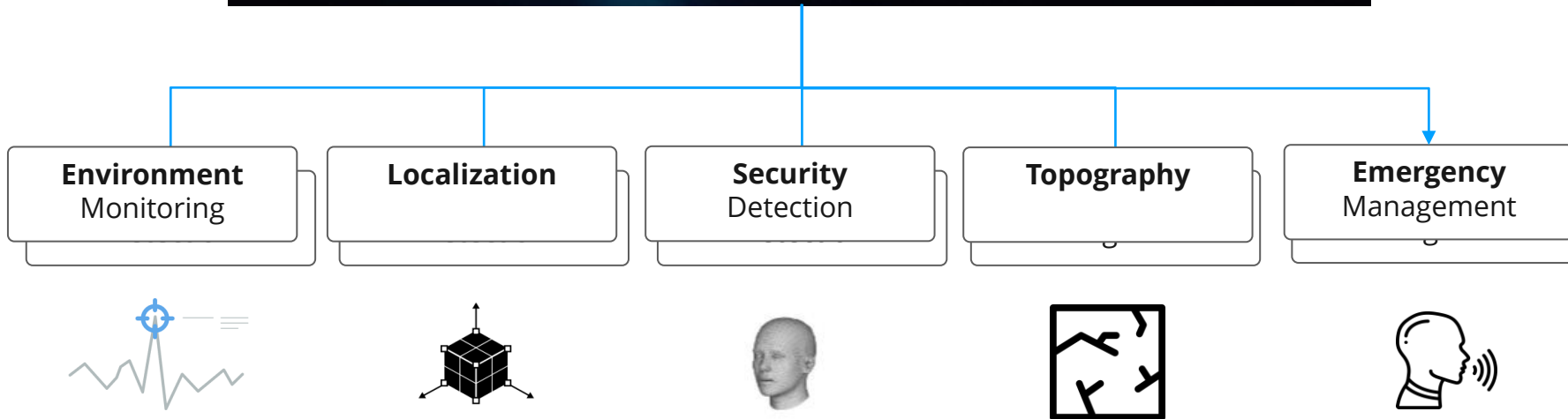


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Use Cases: Space

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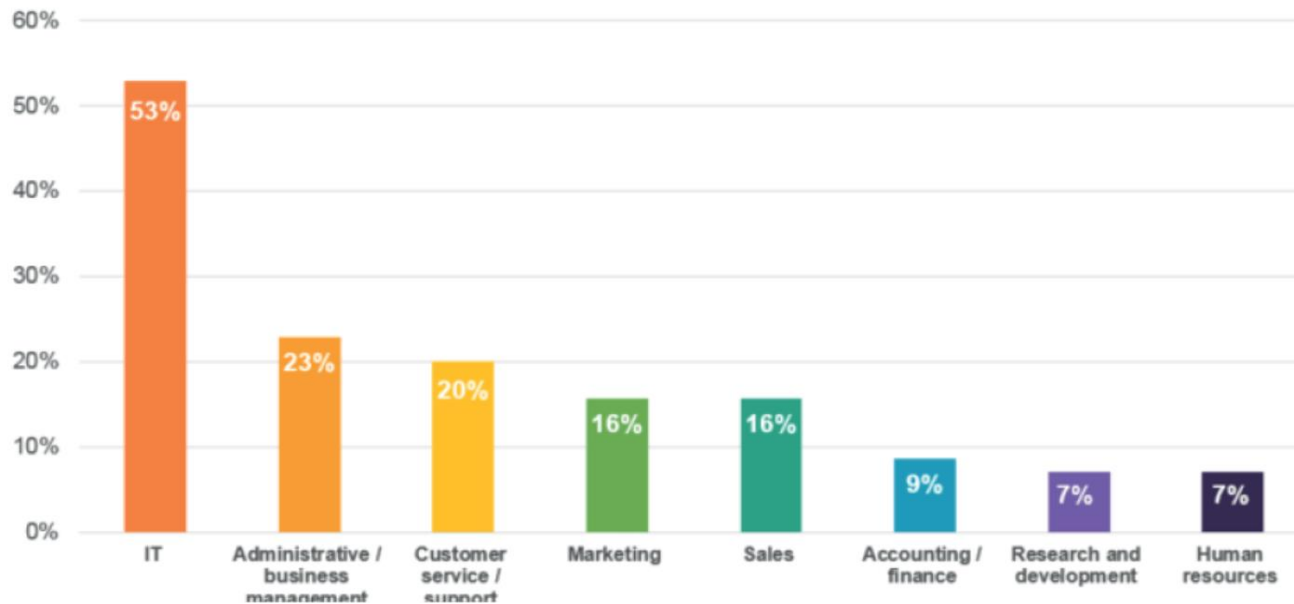
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SMEs and AI: Status Quo

New Challenges for
Europe's Cohesion

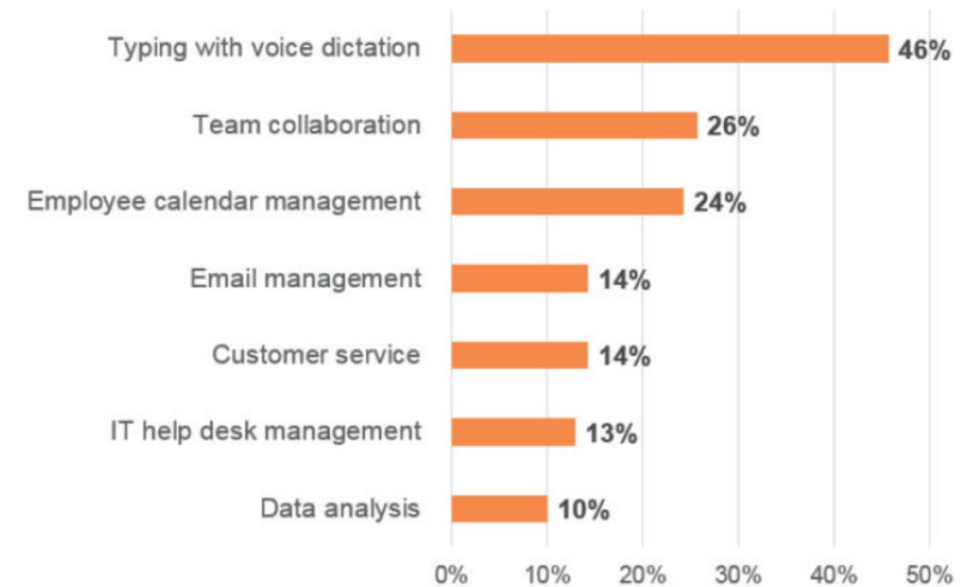
Departments Utilizing Intelligent Assistants / Chatbots to Support Their Tasks

Among organizations currently using intelligent assistants / chatbots



Most Common Tasks Supported by Intelligent Assistants / Chatbots in Organizations

Among organizations currently using intelligent assistants / chatbots



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SMEs AND AI: Challenges

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SMEs NEED TO ADAPT TO THE NEW PARADIGMS:

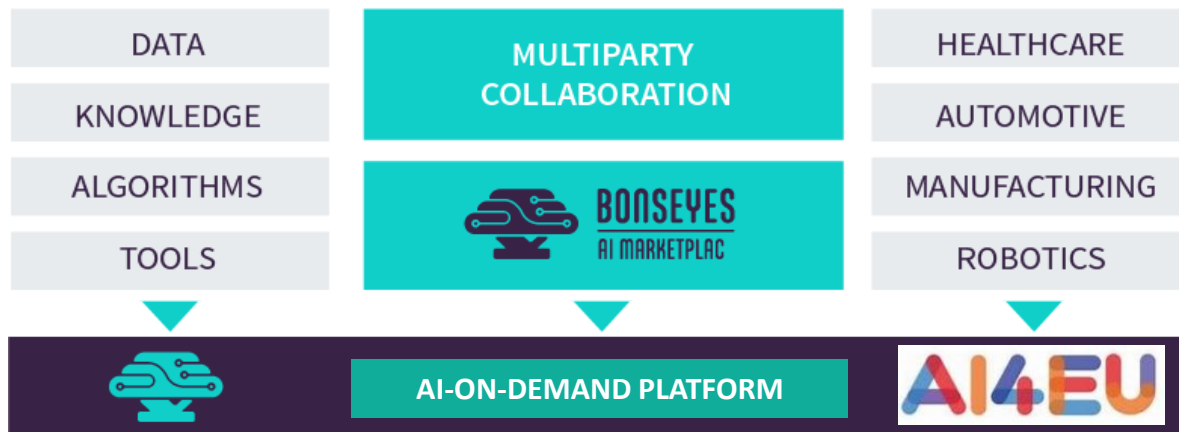
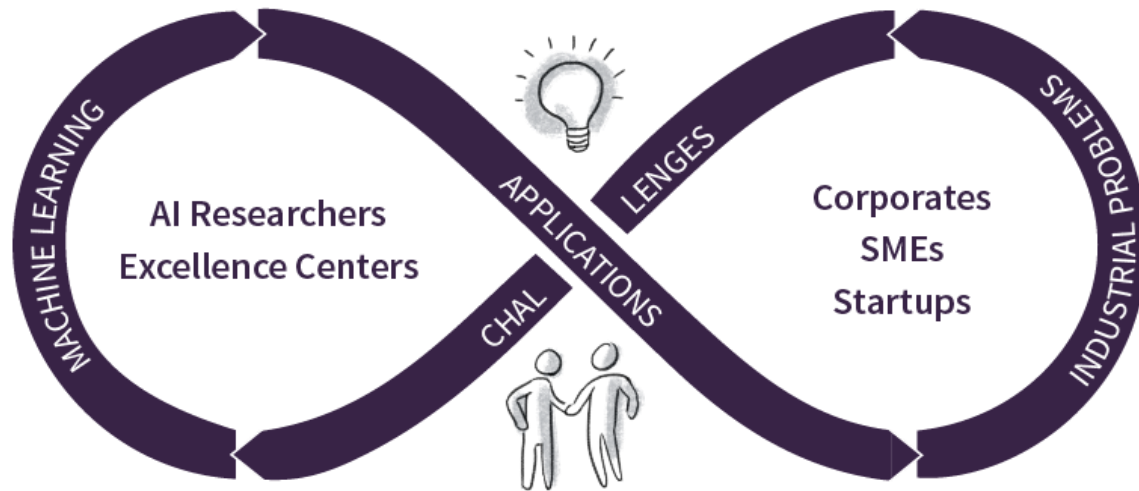
- Hardship to access or collect data: “Data Wall”
- High expertise to train AI models
- Expensive tools to deploy you AI models
- Long and costly iterative process to solve issues and overcomes barriers

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Bonseyes AI Marketplace AI-as-a-Service

New Challenges for
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Bonseyes is a secure, distributed marketplace that offers a range of **vendor-agnostic, modular services (BonsAPPs)**:

- ✓ Experimentation
- ✓ Model compression and optimization
- ✓ Benchmarking
- ✓ Deployment on hardware
- ✓ Security & licensing

Bonseyes AI Marketplace increases AI usage by enterprises and SMEs by providing tools to build **end-to-end, containerized, ready-to-integrate and re-usable solutions**



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Next:



Urszula Sobek

*Project Manager of StairwAI
at FundingBox*

**New Challenges for
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Overview of:

Funding Opportunities

**from different ICT-49 projects
across Europe.**

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