

International Study Visit, Germany 27-31 Jan 2020

ARÇELİK A.Ş.

Turgut Köksal Yalçın

Smart Manufacturing Systems- Industrial Robotics

Technology Team Leader

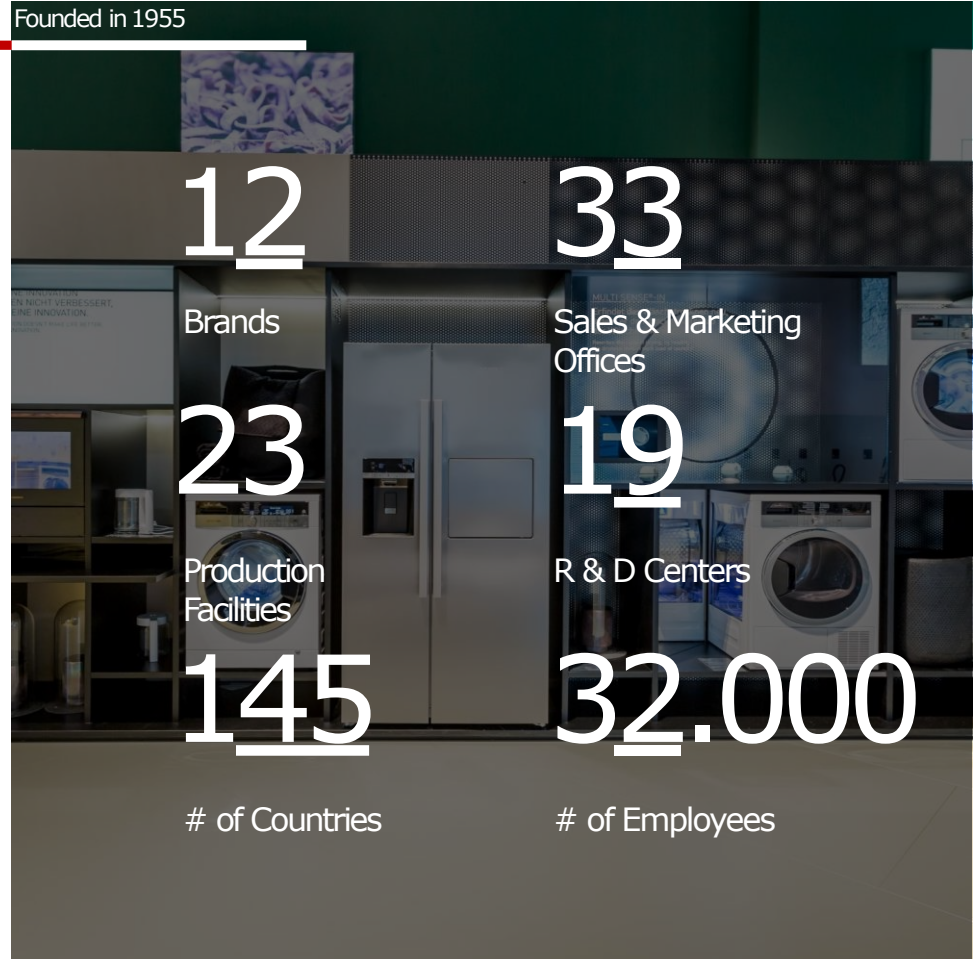
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International Study Visits of TARAL to EU Key Players

Arçelik

Leading player in home appliances industry

Founded in 1955



International Study Visits of TARAL to EU Key Players

Brands

beko

Global home-appliances brand sold in more than 100 countries

GRUNDIG

Europe's full range Premium home-appliances brand

arçelik

The leading home-appliances brand in Turkey

ALTUS

arctic

Blomberg
seit 1883

Dawlance

DEFY

elektroregenz

FLAVEL

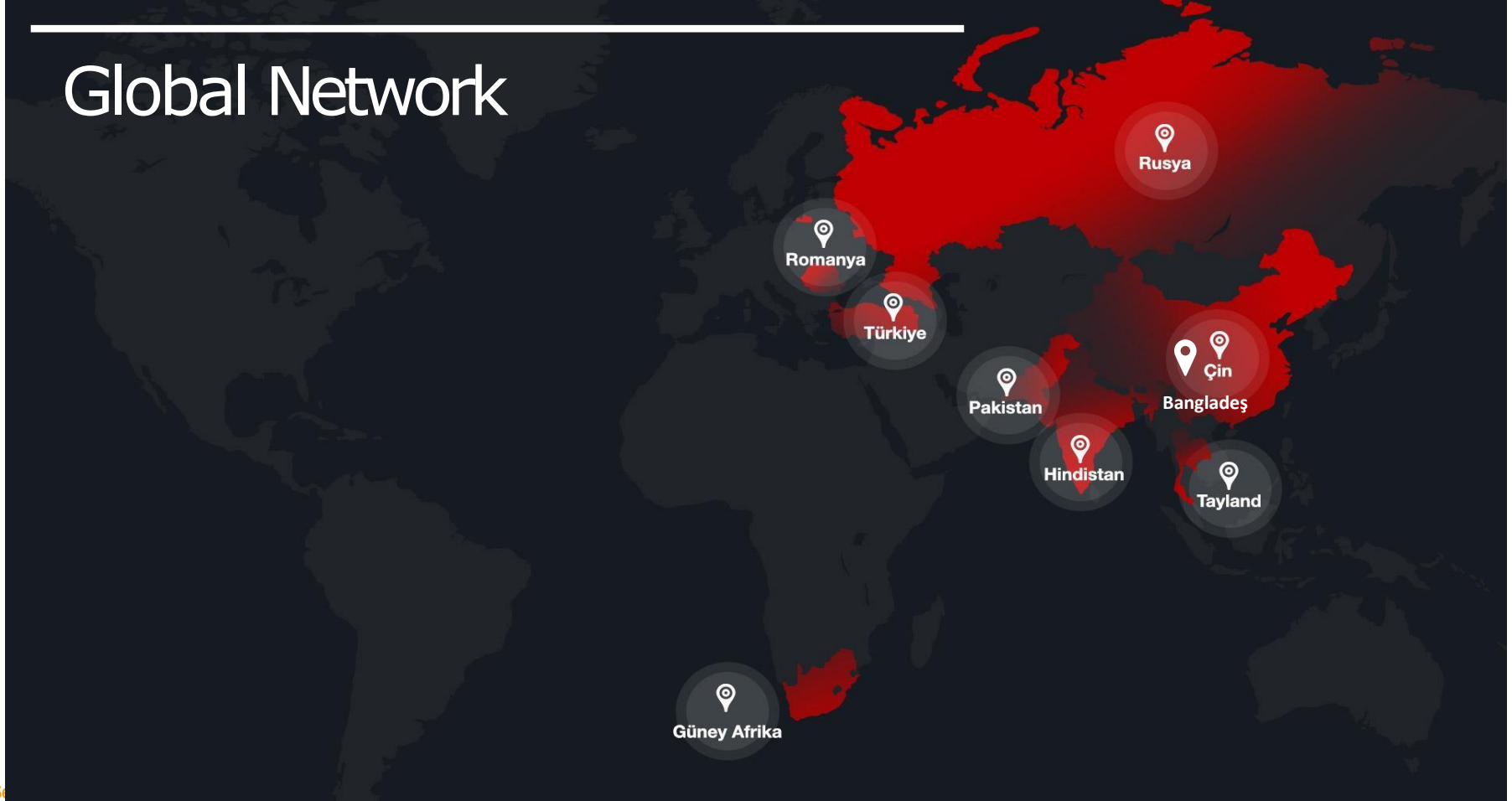
LEISURE

VOLTAS · beko

Sensitivity: Public

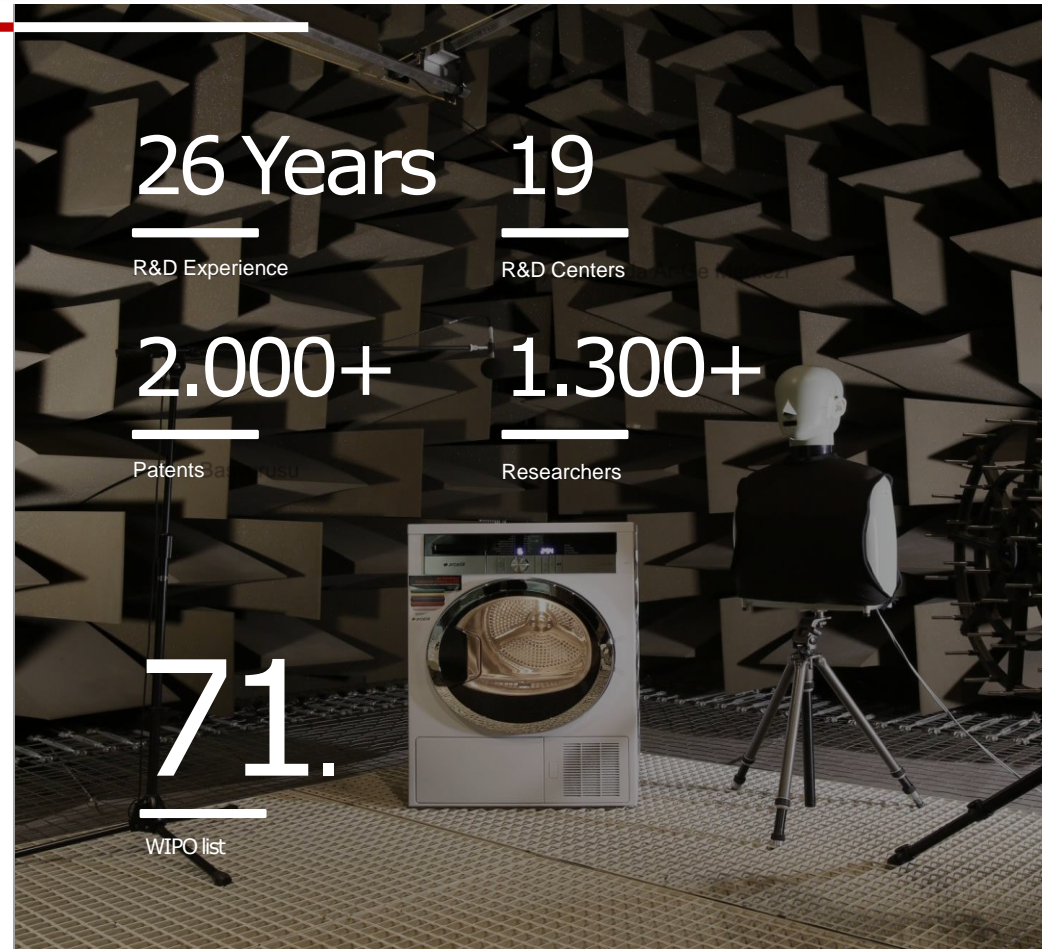
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Global Network



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Innovation



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R&D Network

Teknoloji ve İnovasyonu Temel Alan Küresel Güç



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Atölye 4.0 – Arçelik Advanced Robotics Lab



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«Future Proof» Factories



Atölye 4.0

Arçelik Advanced Robotics Lab



Areas of Interest

- Machine Learning
- Image Processing
- Cognitive Robotics
 - Speech & Gesture recognition
 - Intention recognition
- Data Analytics
- Deep Learning for automation
- Industrial IoT
- Low-cost automation
- Mobile Robotics
 - Autonomus navigation
 - Smart fleet management
 - Logistics management



Collaborations

- Fraunhofer Institutes (IAO – IPA – IWU – IPK)
- ITRI of Taiwan
- METU - ITU - OZU - Sabanci Univ - KOC Univ.
- QMUL - Polimi - University of Patras – AUTH
- KU Leuven – JSI – UNIGE - BOR

What is Atölye 4.0 ?

A research, training and experience center dedicated to the digital transformation of the human resource through Industry 4.0 enablers.



Competences

- Industrial Automation
- Industrial Robotics
- Human-Robot Collaboration
- Image Processing – Stereo Vision
- Mobile Robotics & SLAM
- Machine & Deep Learning
- Data Analytics

EU funded projects



The Team

- Automation
 - 6 engineers (MSc & PhD)
 - 3 technicians
- Process
 - 5 engineers (MSc & PhD)
 - 2 technicians
- Industrial Engineering
 - 6 engineers (MSc & PhD)
 - 3 technicians





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R&D References

Production Technologies Incentives



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Specific Topics and Calls

- DT-FOF-09-2020 : Energy-efficient manufacturing system management
05 February 2020
- DT-FOF-11-2020 : Quality control in smart manufacturing
05 February 2020
- DT-SPIRE-11-2020 : Artificial Intelligence and Big Data Technologies for Process Industries
05 February 2020
- ICT-46-2020 : Robotics in Application Areas and Coordination & Support
22 April 2020
- ICT-47-2020 : Research and Innovation boosting promising robotics applications
22 April 2020

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Collaboration Offer

- An Industrial Partner expert in serial/ mass production which includes different manufacturing processes such as:
 - Sheet Metal Forming
 - Plastic Injection
 - Painting & coating
 - Chemical Processes (enamel, PU...)
 - Robotics (mobile, industrial, collaborative)
 - Assembly
 - Warehousing
 - Material Distribution
- State of the art process & robotics lab dedicated to production Technologies R&D

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