

# TürkTraktör

Innovative Training Tools





## Virtual Reality Supported Technical Trainings

# Virtual World of Technical Training

## Virtual Reality Supported Technical Training Project



**Grant: 167.000 €**

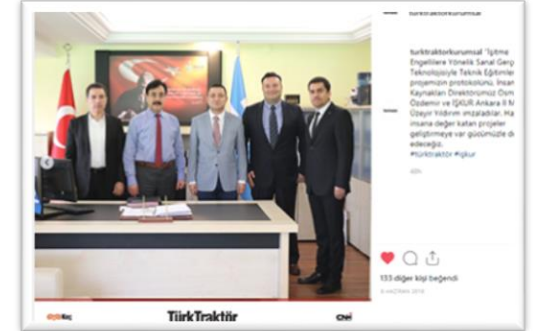


## İŞKUR Disabled Employment Grant (Turkish Employment Agency)



**İŞKUR**  
TÜRKİYE İŞ KURUMU

**Grant: 32.000 €**



# Problem Detection and Emergence of Need



## Traditional on-the-Job Training Method

- Work accident risks
- Training scrap costs
- Quality problems
- Difficulty focusing
- Hearing problems

## Identification of the Target Audience

- **84%** of our employees are Y generation
- Technical development of our **deaf employees**

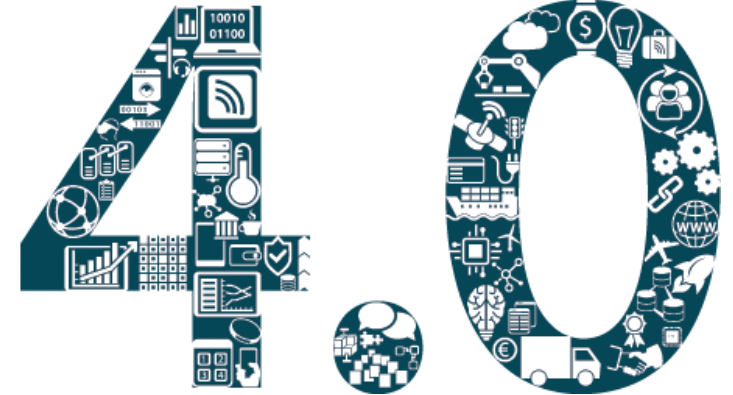
Generation



## Determination of Training Technology

Technological Appeal + Effective Learning = **Virtual Reality Technology**

INDUSTRY



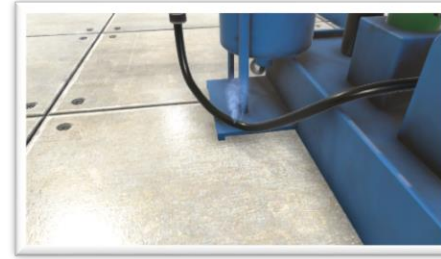




5S Training



Environmental Education



Energy Education



OHS Unsafe Conditions / Unsafe Behaviors Training



Transmission Sub-Group  
20. Operations Training



Transmission Sub-Group  
22. Operations Training



Transmission Body Assembly  
Operation Training



DT Sub-Group Assembly  
Operation Training



Brake Adjustment  
Operation Training



Machining Operator  
Basic Training



Internal Logistics  
Operator Basic Training



360 Factory Tour

# Academic Research Results



## Virtual Reality supported Technical Trainings

- Unlimited Practice and Exam
- Ergonomic Training Environment

The Effect of Virtual Reality on Learning

International Article

The effect of VR-supported  
technical training on learning  
81%





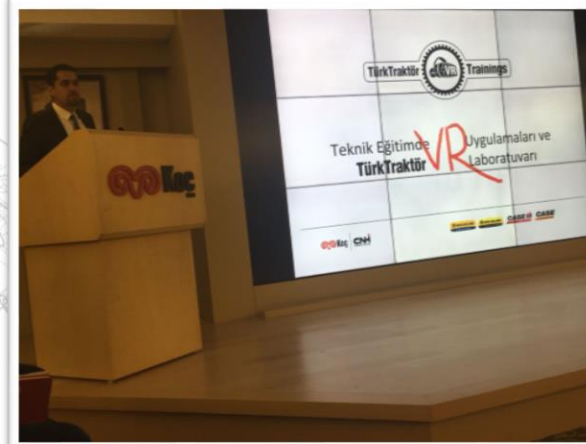
# Dissemination Studies

## Covered Benchmark Demands

- 1) Ford Otosan
- 2) Tofaş
- 3) Arçelik
- 4) Turkish Employers' Association of Metal Industries
- 5) Automotive Industry Association (OSD)
- 6) Fiat Chrysler Automobiles (FCA) - Italy
- 7) CNH Industrial - Italy
- 8) CNH Industrial - China
- 9) CNH Industrial - India
- 10) Magneti Martelli
- 11) MAN
- 12) Mercedes-Benz
- 13) Honda
- 14) Karsan
- 15) Toyota
- 16) Renault
- 17) Doğan Holding - Ditaş
- 18) Borusan Holding - Borçelik
- 19) United Nations Development Program
- 20) Turkish National Agency
- 21) Hearing Impaired Education Activities Association
- 22) Celal Bayar University
- 23) METU
- 24) TUSAŞ Akademy
- 25) Coşkunöz Holding – Çoskunöz Education Foundation
- 26) Ministry of Education
- 27) European Training Foundation

## National and International Dissemination Studies

- 1) Koç Holding - Good Practice Days (İstanbul)
- 2) Koç Holding - Community Companies Sharing Meeting (İstanbul)
- 3) Automotive Industry Association (OSD) - Education Summit (İstanbul)
- 4) Başkent University - II. International Conference On Distance Learning and Innovative Educational Technologies – DILET2018 (Ankara)
- 5) UNDP - Model Factory Opening Ceremony (Ankara)
- 6) i3D in VET Project Promotion Conference (Ankara)
- 7) Hacettepe University – Promotion Days (Ankara)
- 8) CNH - Harvester Factory (Plock/Poland)
- 9) Innovaway Spa. (Naples/Italy)
- 10) Napoli Chamber of Industry (Naples/Italy)





# Turkey Accessibility Awards 2020



Türkiye Erişilebilirlik Ödülleri

*Teknik Eğitimin Sanal Dünyası'na Birincilik Ödülü*

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Virtual World of Technical Training Project was awarded  
the first place prize by The Presidency of The Republic of Turkey!



## Technical Sign Language Creating Project

# Giving A Voice to Deaf People in Metal Sector Project

**Name:** Giving A Voice to Deaf People in Metal Sector

**Acronym:** VOC2DEAF

**Program:** EU KA2 – Strategic Partnership in VET

**Starting Date:** 01.09.2019

**Duration:** 35 months

**Status:** Continue

**Total Budget:** 365.000 EURO (100% grant)



## Project Aim

- Providing **Technical Sign Language** to literature
- Developing an e-book integrated with **Augmented Reality (AR)**
- Developing **Technical Skills** of hearing-impaired employees
- Ensuring the **Sustainability in** hearing-impaired employees' **Employment**
- Providing them **Career Opportunities** by developing their technical and behavioral skills
- **Extension** activities to all Metal Industry both in Turkey and EU



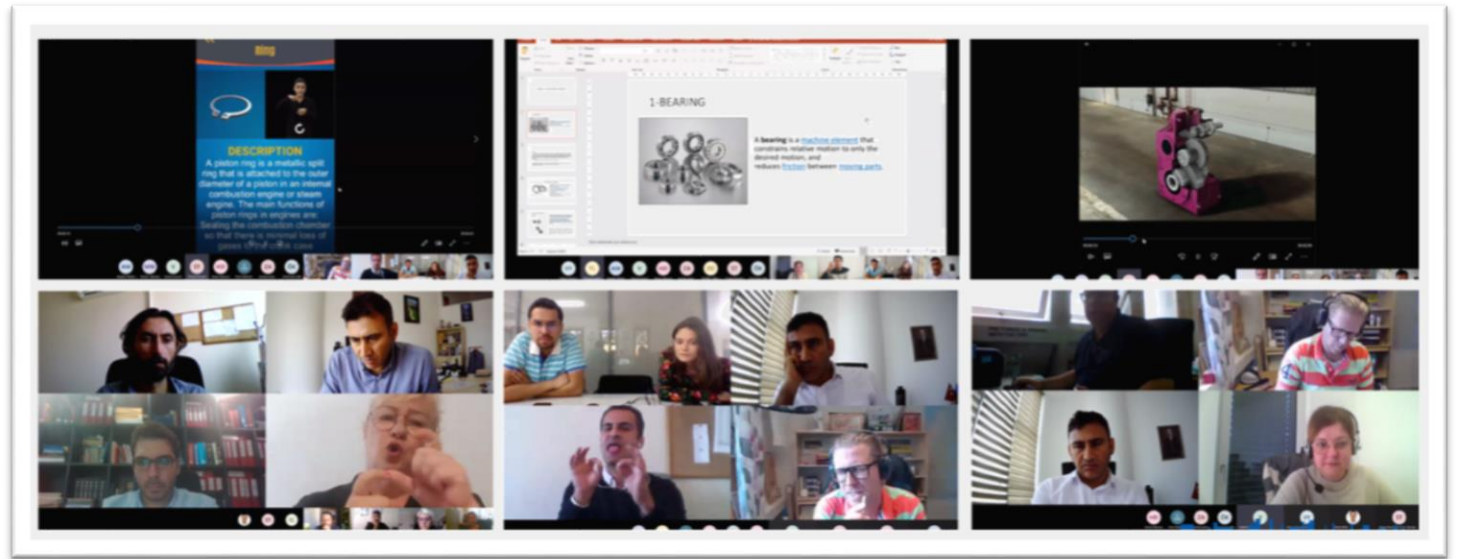
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# Giving A Voice to Deaf People in Metal Sector Project







Barrier-Free Development Platform

# Barrier-Free Development Platform



**Engelsiz Gelişim**  
**Akademisi**

**Name:** Barrier-Free Development Platform  
**Program:** Grants of Disabled Employment Project  
**Total Budget:** 1.073.000 TL (100% grant)

## Project Aim

- Free online training platform for disabled people
- Content to develop technical, professional and social skills
- Support for sign language, detail subtitles, audio description-based narration for all educational content



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*Please feel free to contact me anytime.*

**Gürhan HÖKE**

Leader Specialist - Training and Project Development

[gurhan.hoke@turktraktor.com.tr](mailto:gurhan.hoke@turktraktor.com.tr) - +90 507 947 29 06