

An aerial view of a city with a blue overlay. The image features a network of white lines connecting various points, with several white location pin icons scattered across the scene. A prominent skyscraper is visible on the right side.

KAREL



KAREL

12 MILLION+
WORLDWIDE



KAREL

<https://www.youtube.com/watch?v=ztnEsVlk1qY>





COMPANY PROFILE

- Leading Technology Company
- 100% Domestic Capital
- State of the art, Competent,
Systematic R&D
- World Class Manufacturing





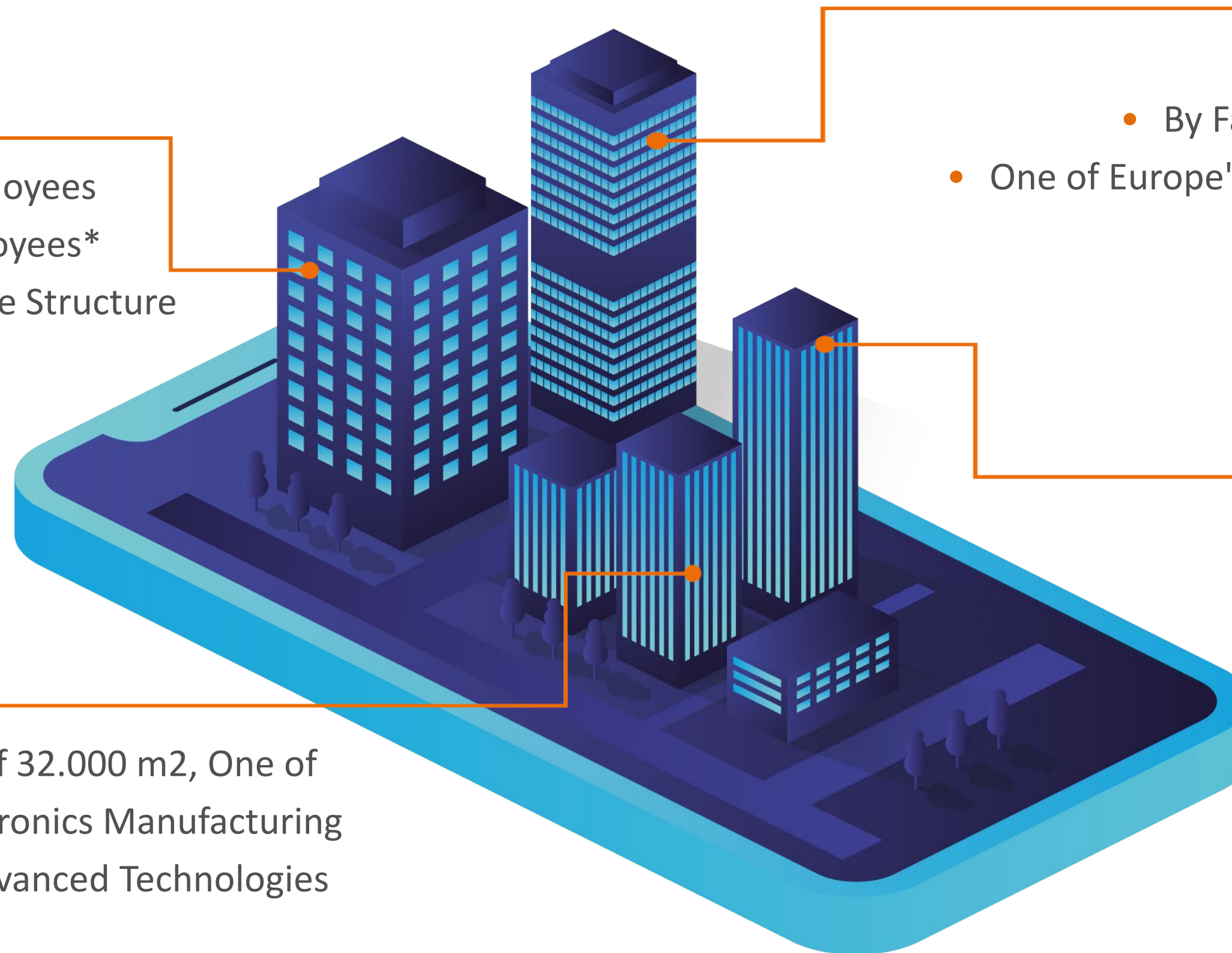
COMPANY PROFILE

- Over 3,300 Qualified Employees
- 200+ Qualified R&D Employees*
- Public Company, Corporate Structure

- 36 Years of Experience
- By Far the Market Leader in Turkey
- One of Europe's Top 3 and the World's Top 15 Manufacturers

- One of Turkey's Largest 500 Companies (Fortune 500)

- With A Closed Area of 32.000 m2, One of Turkey's Largest Electronics Manufacturing Center With Most Advanced Technologies



**as of June 2022*





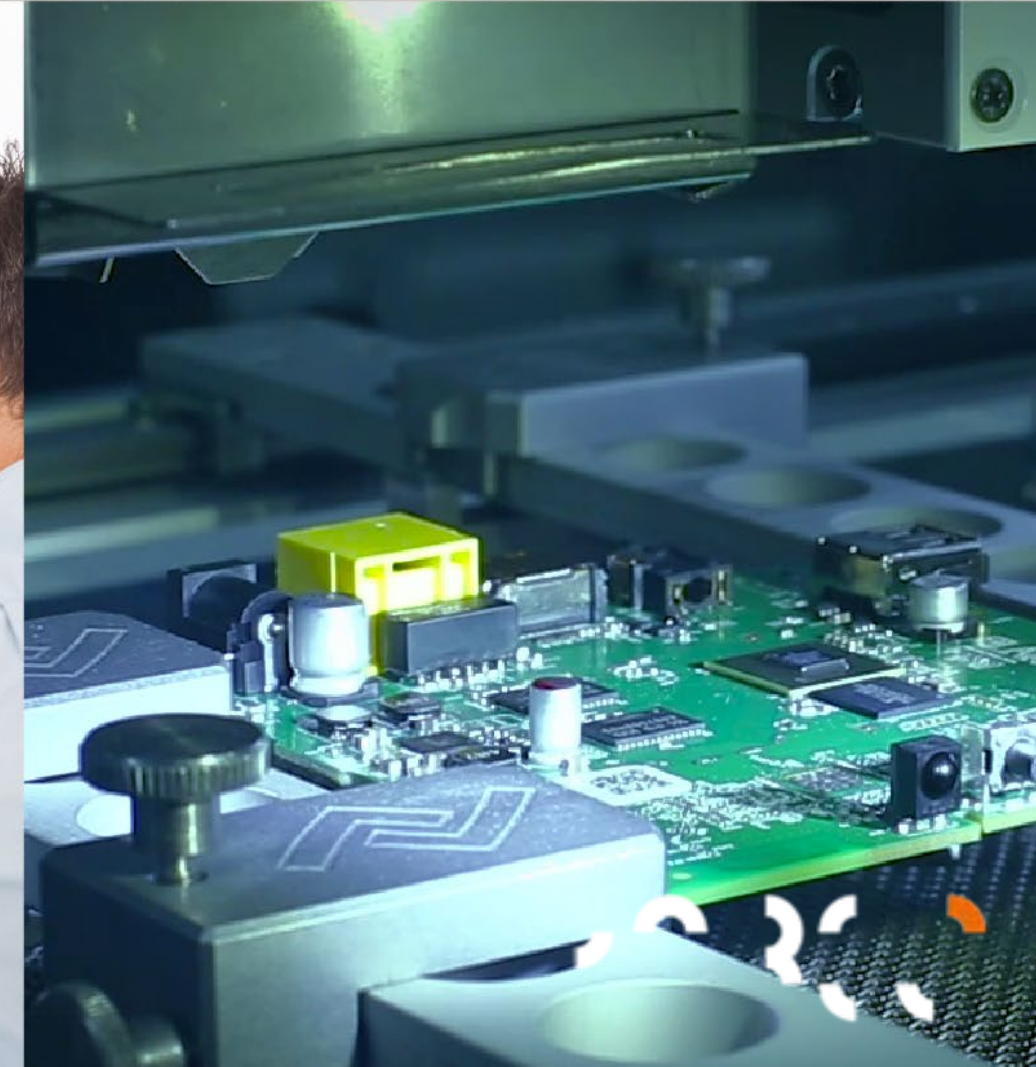
Our Awards

- **Deloitte Technology Fast 50**
Big Star Category Award
- **Bilisim 500**
«Turkey Based Manufacturer - Hardware»
and «Turkey Based Manufacturer –
Telecommunication Infrastructure
Hardware» Category Winner
- **Brand Finance**
One of Turkey's 100 Most Valuable Brands
- **Fortune 500**
One of Turkey's Largest 500 Companies



R&D

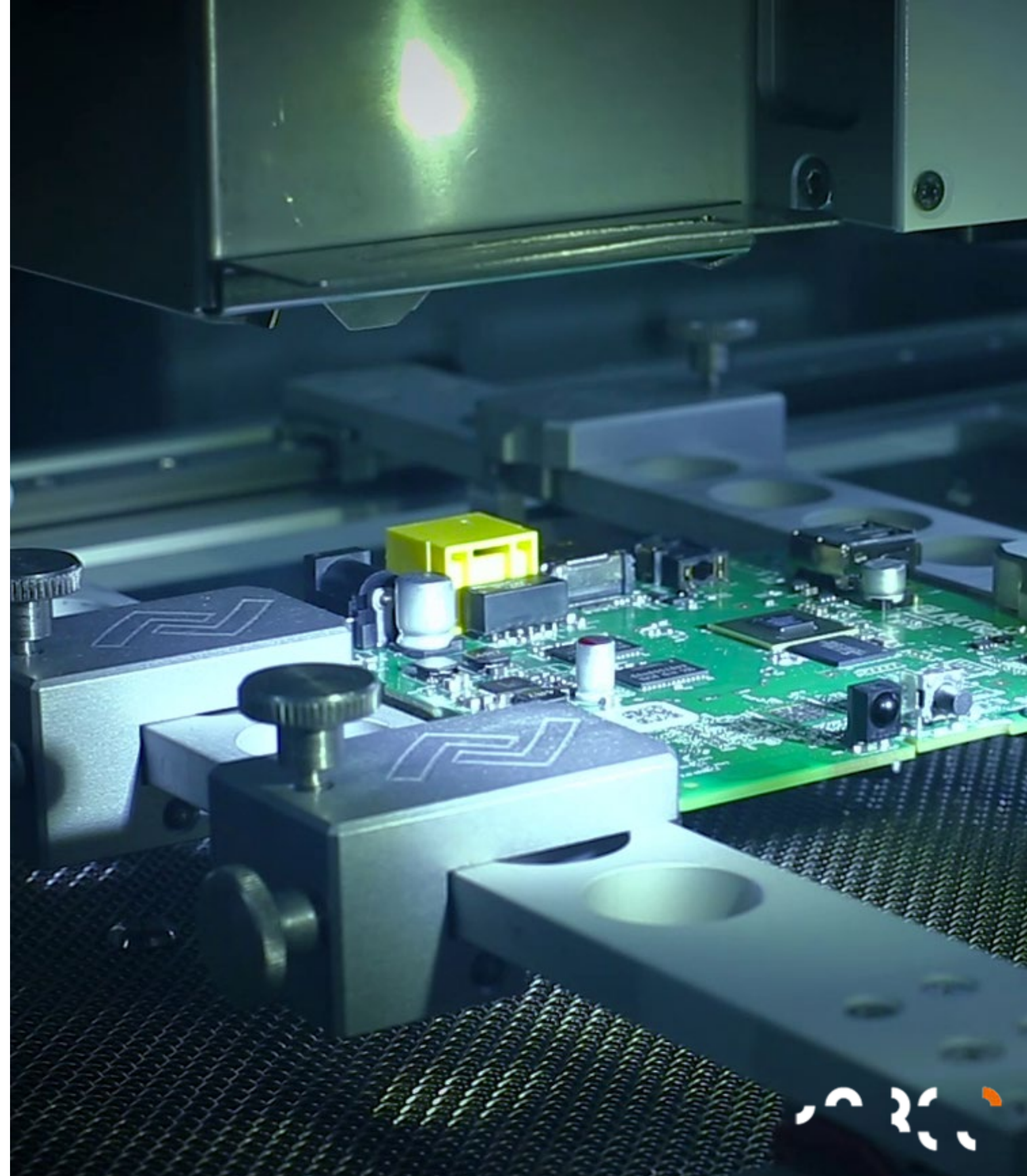
- One of Turkey's most advanced, experienced and systematic R&D center
- With 200+ employees in Bilkent Cyberpark,
- In average 5% of the consolidated sales turnover allocated for R&D activities for many years





R&D Activity Fields

- Market leader Karel telecommunication products
- Internet of Things - IoT Solutions
- Automotive
- Military electronic design and projects (Aselsan)
- Industrial electronic design and Projects (Arçelik)
- With social responsibility awareness, intensive care type and portable type ventilators





OUR AREAS OF ACTIVITY



Telecommunications



**Defense
Solutions**



**Technology
Infrastructure
Services**



**Automotive
Projects**



**Electronics
Manufacturing
Services**





Telecommunications Solutions



Communication Solutions

Unified Communication Solutions

PBXs

Call Center

Mobile Communication

Video Conferencing

IP & Analog Terminals

IP DECT



Video Surveillance and Security Solutions

Security Cameras

Plate Recognition

Under Vehicle Monitoring

Image Recording and Monitoring
Solutions



Cloud Solutions

PBX

Call Center

Video Conferencing



IoT Solutions

Energy Efficiency

Indoor Navigation

Vehicle Tracking System





Telecommunications Market Status

Leader in Turkish PBX Market
for Approx. 30 Years

The Largest Manufacturer of
Corporate Telecom Products Market
in Turkey by User

Highest Product Variety in Telecommunications

Global Understanding of
Offering Products and Technology
to More than 30 Countries
with Karel Brand





Prevalence in Telecommunications

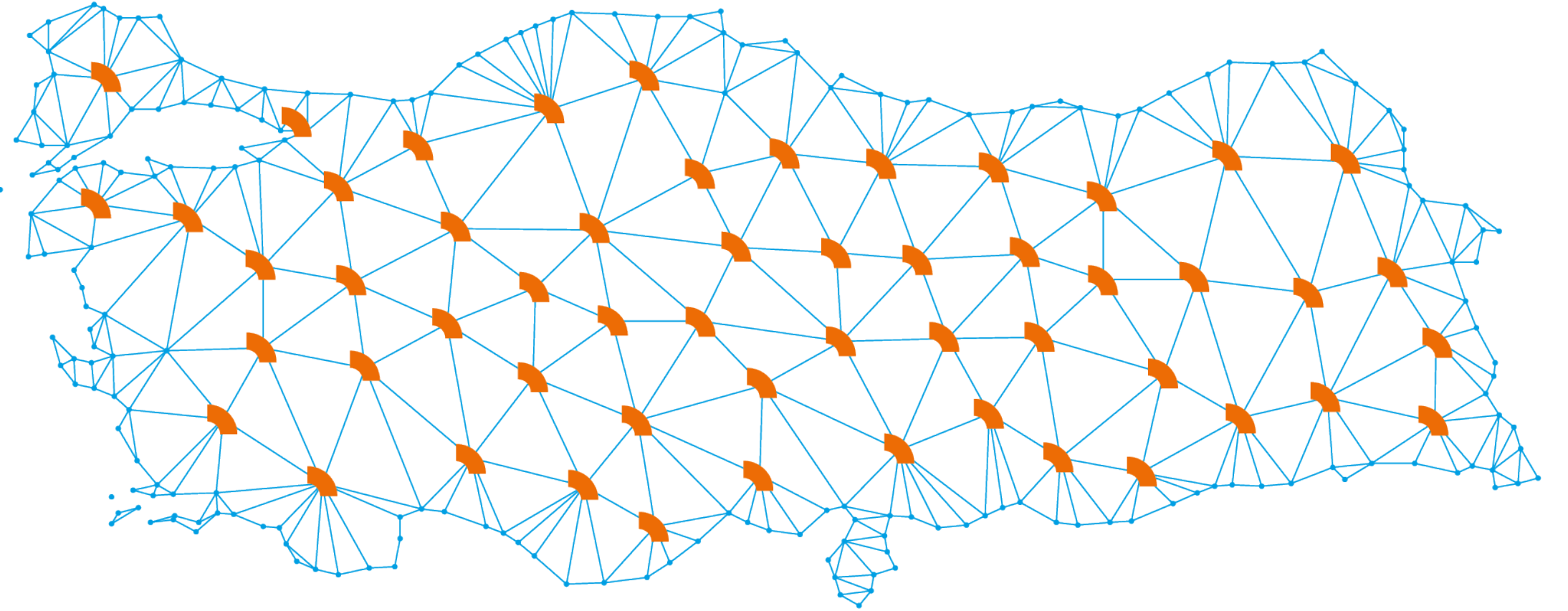
- 12 million users in the world perform their communication via Karel Systems.
- 2 out of 3 businesses in Turkey use Karel PBX.
- More than 50% of business communication traffic passes through Karel PBX systems.





Telecommunications Distribution Channel

- More than 300 Authorized Dealers in 81 provinces,
- Effective distribution channel with highest penetration rate in its field in Turkey.





Defense Industry Solutions

- Military communication systems
- Military Field Telephone Exchanges,
- Communication gateway and switching systems,
- Naval PBXs,
- Naval alarm and announcement systems,
- Naval entertainment systems,
- Hand-held military computers,
- Inertial navigation devices,
- Military internal communication systems,
- Avionics solutions
- Communication switching system
- Control tower communication system





Defense Industry Market Status

- Over 20 years of knowledge and experience
- Products and solutions used in foreign armies as well as the Turkish army
- R&D, design, production activities
- Design and production with Karel brand or on behalf of main contractor companies





Technology Infrastructure Services

- Turnkey projects for the Public, Private Sector and Telecommunication operators,
- System integration,
- Equipment procurement,
- After sales services,
- Field operation support

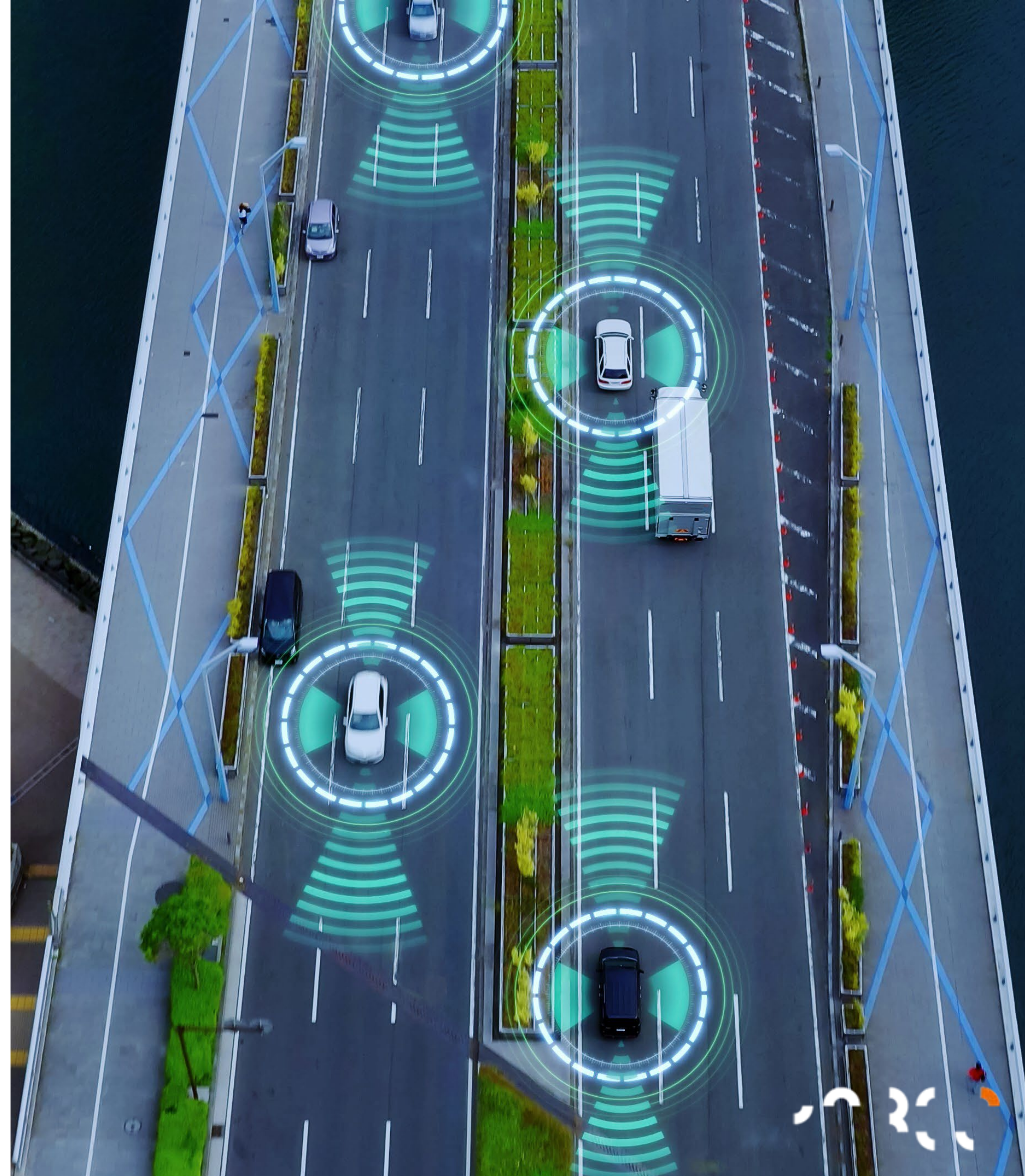




Automotive Projects

🔗 Karel carries out automotive projects for automotive companies with new technology and international high standards.

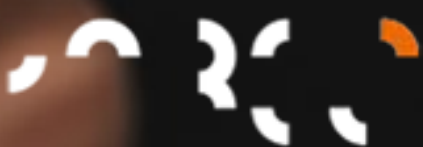
- Driver assistance systems,
- Electronic control units,
- Next generation car entertainment system software,
- Park assist control unit,
- Seat control unit,
- Tailgate control unit,
- RF based object detection module for commercial vehicles,
- The main processor unit that can work integrated with peripheral vision equipment for autonomous driving





Strategic Partnerships in Technology Infrastructure Services

- Strategic partnerships with foreign and domestic technology and solution providers
- Long-term contracts signed with global product suppliers based in Japan, China and the USA





Technology Infrastructure Services-RSP



Turkey's Largest RSP (Regional Solution Partnership) Operation





Technology Infrastructure Services- Certain References

- Türk Telekom, Turkcell and Vodafone: RSP (Regional Solution Partnership)
- General Directorate of Security : More than 40 Urban Safety Management Systems (Mobile Electronic System Integration)
- Presidency of Defense Industry: Installation and deployment of City Security Management Systems in metropolitan centers such as Istanbul, Izmir, Bursa, Adana and Gaziantep
- BOTAŞ, TEİAŞ turnkey fiber optic transmission systems projects





Electronics Manufacturing Services

- One of the biggest electronic production center in Turkey
- Turnkey services from design to production
- 15 million electronic cards capacity per year
- Investment in up-to-date production technologies
- Operational flexibility for different customers as per their needs
- End-to-end supply chain management
- Processes supported by strong IT infrastructure (ERP, MES/MOM, Quality and Document Management System: QDMS, Risk Management software, Business Intelligence Software, CRM, Demand Management)





Production Facilities

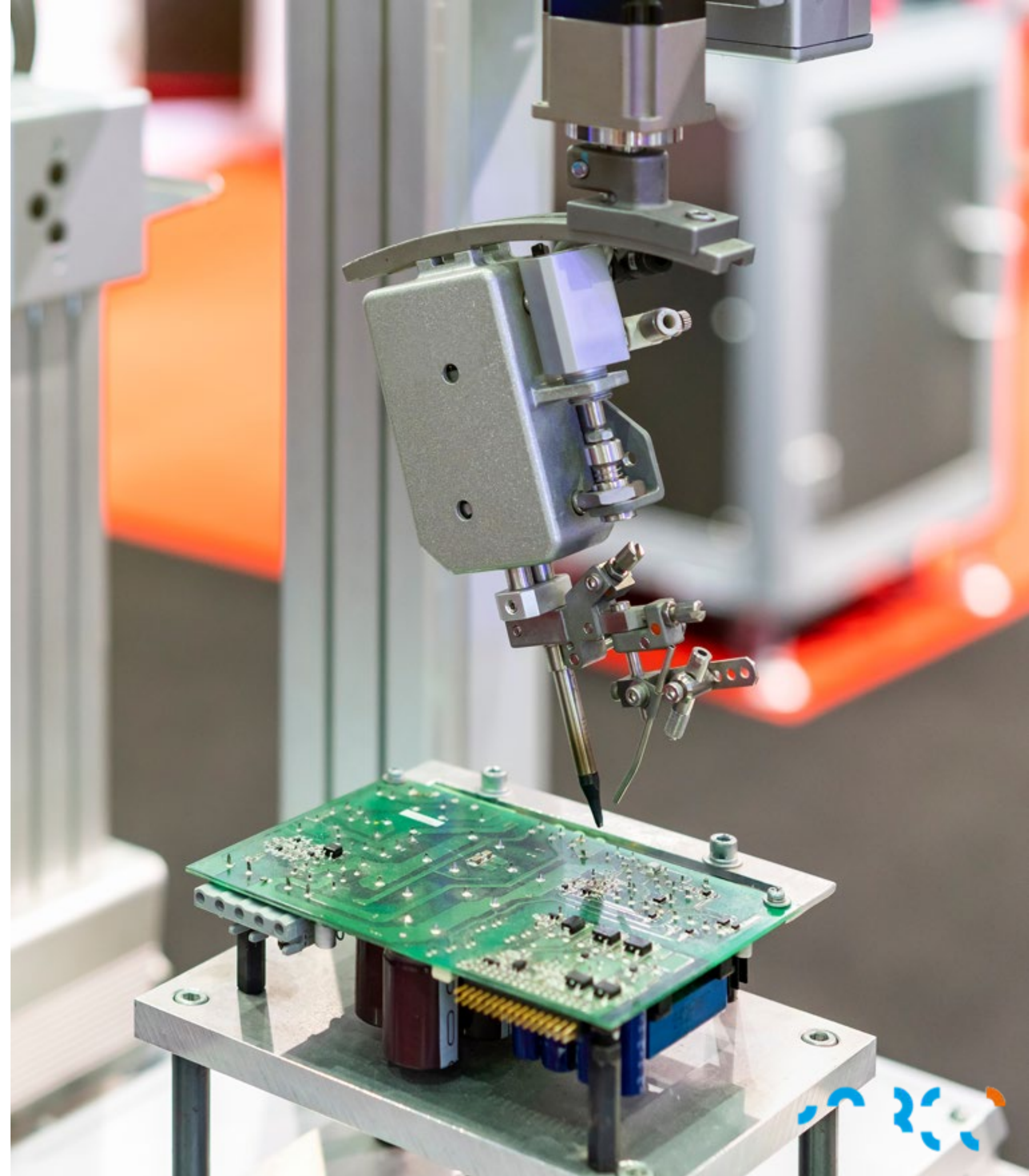
- Production facilities with an indoor area of 32 thousand square meters,
- About 1800 engineers and technicians
- 4 production halls with different production features for different business lines





Electronics Manufacturing Services Customers

- Turkey's well-known brands such as
 - Arçelik
 - Beko
 - Vestel
 - Aselsan
 - Havelan
 - Roketsan in Turkey
- Global brands such as Redring, Haceb and Haier, worlds biggest white appliances manufacturer





Quality Assurance Systems

Strong quality management system and important quality documents and accreditations for EMS

- ISO 9001:2015 Quality Management System
- ISO 9001:2015 Quality Management System
- ISO14001:2016 Environmental Management System
- ISO 20000-1:2018 IT-Service Management System
- ISO 27001:2013 Information Security Management System
- ISO 22301:2012 Business Continuity Management System
- ISO 13485:2016 Medical Devices Quality Management System
- IATF 16949:2016 LOC. Automotive Quality Management System
- Facility Security Certificate- PT and R&D
- NATO Security Certificate- PT and R&D
- CMMI-DEV, V1.3
- Authorized Economic Operator Certificate
- COVID-19 Safe Production Certificate
- AS9100 rev.D (Work in progress)
- Ohsas 18001 (Includes PT in Institutional Context)





Certificates

- After Sales Service Qualification Certificate
- Technological Product Experience Certificate
- Service Qualification Certificate
- Domestic Goods Certificate
- ISO 27001 Certificate
- ISO 14001:2015 Certificate
- TS EN ISO 9001:2015 Certificate
- R&TTE Directive: 1999/5/EC Compliance
- CMMI Level 3 Certification
- AS9100: 2016
- IATF 16949: 2016
- Facility Security Certificate



An aerial photograph of a city, likely Taipei, is shown with a semi-transparent blue overlay. The image features a network of white lines connecting several location pins, which are small white circles with a brown pin icon. The pins are scattered across the cityscape, with lines radiating from a central point near the middle of the image. The text "Thank you..." is centered in the middle of the image in a white, sans-serif font.

Thank you...