

Yonca Teknoloji is established in 2006. It is a software company having broad experience on information and communications technologies. The company is providing ICT solutions for enterprises and businesses, conducting R&D on IoT, Machine Learning, Big Data, Data Mining and creating SAAS Internet Applications.

Yonca Teknoloji is in Ankara University Technopark – technology development zone. It employs highly skilled dynamic team of 12 people: 3 junior, 3 mid-senior and 6 senior staff in average 10-year experience. Major customers of the company are Turkish Electricity Transmission Company, Georgian State Electrosystem, Turkish Academic Network and Information Center, BRISA Tyres, FNSS Defense Systems and Atlas Global Airways. The company is skilled on secure internet applications, enterprise software solutions, information retrieval, data mining and big data, distributed systems, data aggregation and consolidation.

## Company's Related Capabilities

### 1. Technical Knowledge on Healthcare Coding Systems and Terminology Service

Yonca Teknoloji has a commercial “Computer Assisted Coding System” product called TIG Panel (<http://www.tigpanel.com>) It is utilized in medical centers and assisting clinical coders for ICD-10AM and ACHI coding. TIG Panel benefits Turkish natural language processing and text mining and machine learning technologies, processes electronic health records to make clinical coding faster, more precise and more accurate. The product is developed with the academic support of Ankara University School of Medicine. In another ongoing R&D project the company is developing a software for phenotyping patients based on electronic health records and building anonymous patient phenotype datasets/databases to be used in data mining applications in health. In this project UMLS, SNOMED and LOINC terminology indices and ICD coding system will be utilized. Yonca Teknoloji has built Turkish health sciences corpus and published open access for academic research. Corpus is used for Turkish natural language processing in medical texts.

### 2. Technical Skills on Data Catalogue and the Central Platform Components

Yonca Teknoloji is providing data processing solutions Turkish Academic Network and Information Center. This service includes:

- Information retrieval from academic context; extracting metadata from articles, classification and clustering based on organizations, authors, reference and citation analysis
- Building country-wide entity databases for academic organizations, institutions and authors from academic context
- Building and maintaining country-wide academic journal management and publishing system ([www.dergipark.gov.tr](http://www.dergipark.gov.tr))

Data handling and management, big data analysis, machine learning and natural language processing technologies are used to deliver this service.

### 3. Technical Capability on Developing Interoperability Solutions

Yonca Teknoloji has developed and maintaining TCAT platform (<http://www.tcat.teias.gov.tr>) for Turkish Electricity Transmission Company. It is capacity auctioning tool for cross border electricity trading with Turkey and bordering EU countries. It is developed in accordance with ENTSO/E (<http://www.entsoe.eu>) interoperability requirements. Platform is also working integrated with Energy Exchange Istanbul ([www.epias.com.tr](http://www.epias.com.tr)). Another version of TCAT platform is also deployed in Georgia as GCAT ([gcat.com.ge](http://gcat.com.ge)). GCAT is itself interoperable with TCAT platform.