



structhealth

*INNOVATING RESILIENCE, MONITORING EXCELLENCE*

STRUCTURAL HEALTH MONITORING  
SYSTEMS EARLY WARNING SYSTEMS  
EARTHQUAKE/DISASTER RISK REDUCTION

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2  
4



# HELLO!

**At StructHEALTH, our team specializes in structural health monitoring (HSI) systems and early warning systems. Our experts carry out comprehensive studies on earthquake and disaster mitigation in order to provide effective solutions.**

Structural Health Monitoring (SPI) systems offer a number of benefits across a variety of industries by providing real-time data and insights into the condition of structures.

1. Early Detection of Structural Problems
2. Increased Security
3. Saving
4. predictive maintenance
5. Extended Asset Life
6. Improved Operational Efficiency
7. Data-Based Decision Making
8. Remote monitoring
9. Advanced Structural Design
10. Compliance with Regulations
11. risk reduction
12. Optimized Resource Allocation

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# ABOUT THE COMPANY

**StructHEALTH** Technology is a company with a **passionate** and **ambitious** team dedicated to pioneering advances in infrastructure resilience and delivering innovative solutions for structural monitoring. Their goal is to redefine industry standards.

**StructHEALTH** Technology aims to be a **global leader** in structural health monitoring by pushing the boundaries of technology to protect critical infrastructure around the world.

**StructHEALTH** Technology is committed to benefiting society through technology that increases **structural safety** and **longevity**, promotes sustainable development, and creates resilient communities. **The company's mission** is to **move beyond structural health monitoring needs with cutting-edge solutions.**

**StructHEALTH** Technology values collaboration, innovation and a customer-focused approach. The company seeks **partnerships** that increase its impact and provide solutions to customers' challenges.

**StructHEALTH** Technology aims to make a **significant contribution** to the field of structural health monitoring and **create a safer, more sustainable world** with the development of new generation monitoring systems.

# OUR SERVICE



## COMPANY

The application area of Structural Health Monitoring (SHM) systems is diverse and covers a variety of industries where continuous monitoring of structures is essential for safety, efficiency and maintenance. Some important application areas of SPI systems are:

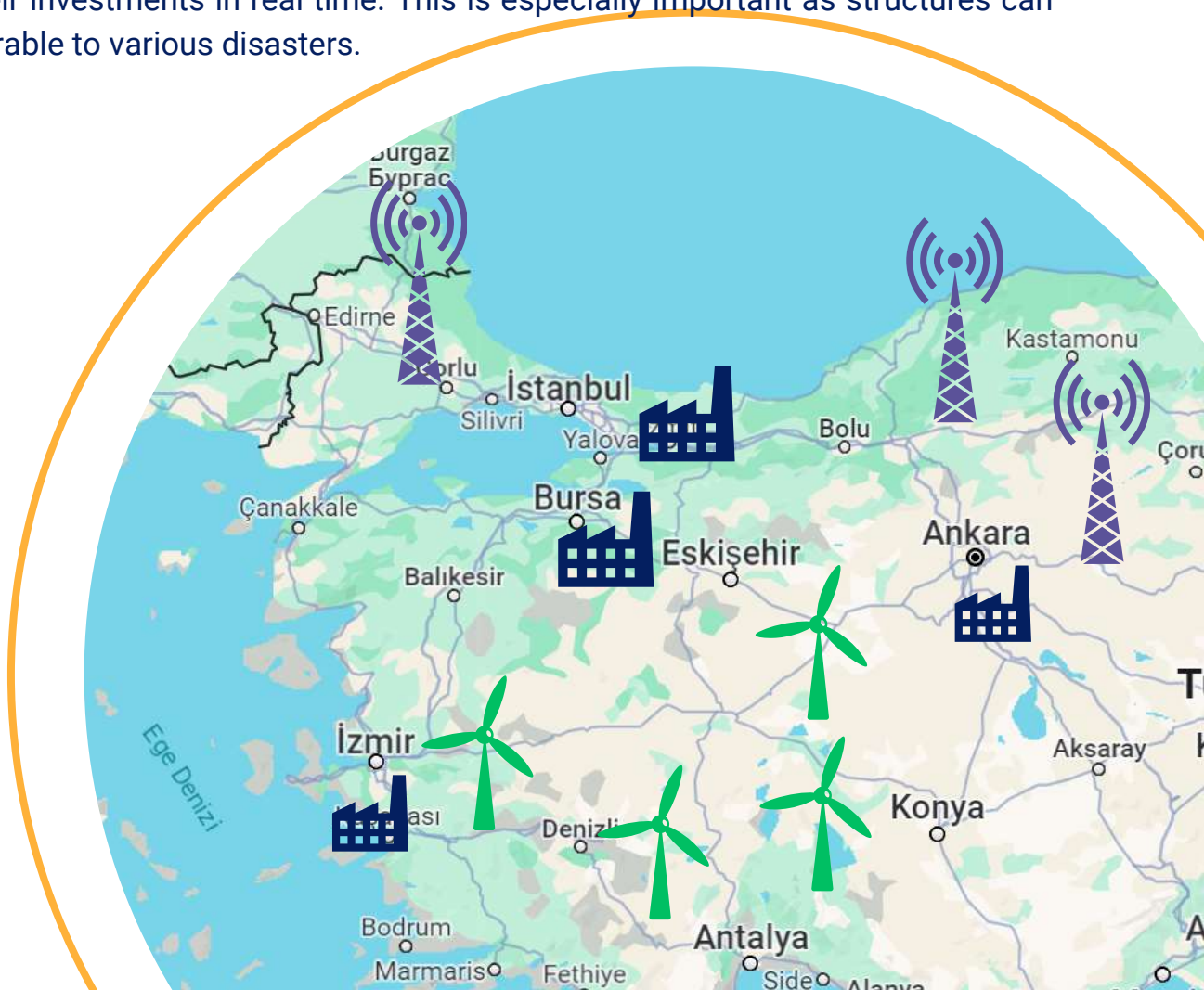
Civil Infrastructure: **Bridges/Dams/Tunnels/Motorways** and **highways/Buildings**

Energy Sector: **Wind turbines/Oil and gas pipelines/Power plants**

Facilities: **Factories/Industrial** equipment and structures, etc.

## FOCUS AREA

**StructHEALTH** specializes in monitoring the structural integrity of a variety of structures including **wind turbines, telecom towers, skyscrapers** and **factories**. Our team has developed advanced systems and algorithms that enable clients to track their investments in real time. This is especially important as structures can be vulnerable to various disasters.



# HOW WE WORK

**1** StructHEALTH produces hardware (accelerometer, inclinometer, protractor) and Software as a Service (SaaS). StructHEALTH works B2B, frequently producing reports on the health of structures.



Accelerometer and  
Inclinometer hybrid  
sensor

**2** Customers only cover the cost of electronic devices. Monthly/annual subscription models have been developed for continuous monitoring of building health.



Cloud connected  
IoT

**3** With the subscription model it offers to customers, StructHEALTH provides SaaS services in many different areas such as storing the data of their structures, processing them, constantly analyzing them, showing whether they have reached threshold values, regular reporting, indicating which structures should be responded to urgently in case of disaster, sharing data when requested, optimizing maintenance processes. .



Analyzes and  
Reports



# HOW DOES IT WORK?

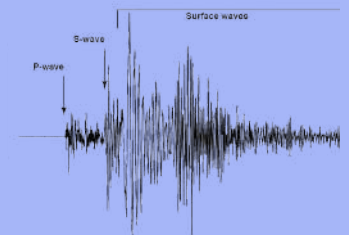
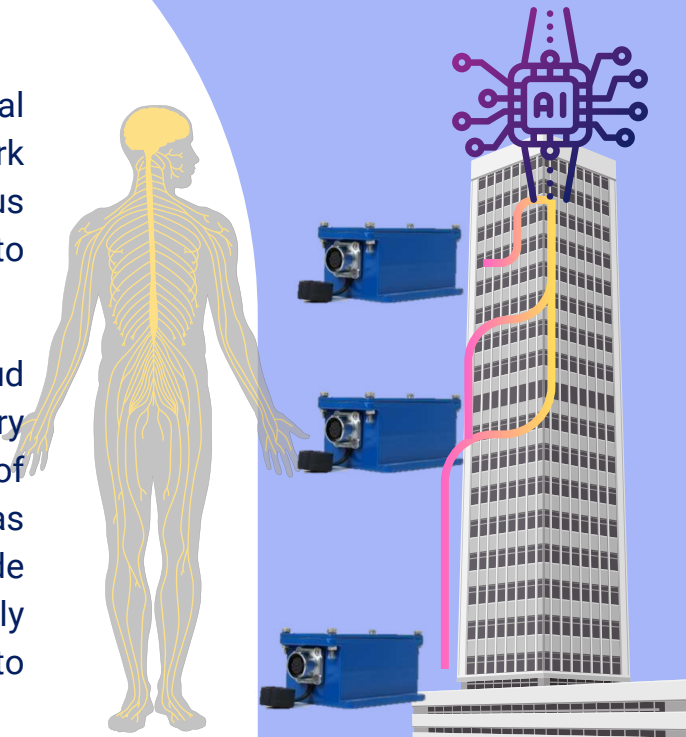
Just like in humans, electronic sensors are neural networks of structures. The sensor network surrounding the structure provides a continuous flow of data about the status of the structure to the data processing and storage center.

Electronic sensors, embedded systems and cloud systems constantly make the necessary calculations to estimate the possible risks of structures in real time. Algorithms such as structure frequency, mode shapes, mode damping, modal security criteria consistently analyze the behavior of structures according to threshold values.

*In summary, just as ECGs are taken for people, we also take ECGs for structures. Just like in humans, if rhythm disorders are found, we take action to provide urgent intervention.*

*We act as a digital stethoscope for buildings.*

It provides early earthquake detection services for organizations that use smart management systems such as factories, shopping malls and site management. Algorithms that detect the primary wave send "Earthquake" information to management information systems, which affect elevators, generators, production lines, press machines, etc. In short, it ensures that everything connected to the management system is stopped.



Early Warning Systems for Facilities



Lift



Ventilation



Escalator



Generator



Electricity



Alarm



**Higher safety factors do not guarantee that a structure will not collapse.**



# StructHEALTH TEAM,

When each member of the team is dedicated to a common goal, their collective efforts can lead to success beyond what any individual could achieve alone. With a passionate and ambitious team by your side, the possibilities for growth and success are endless.

## Management



**Erhan AK**  
Chairman of the  
Board



**Yücel SAYKAL**  
Vice President

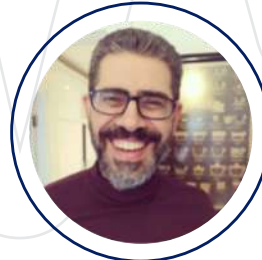


**Volkan ERGEN**  
Member

## Organization



**Volkan ERGEN**  
CEO  
Earthquake and  
Structural Engineer



**ASSOC. PROF. CAN ZULFIKAR**  
CTO  
Assoc. Prof. Earthquake and  
Structural Engineering



**Ramazan ÇUBUKCI**  
CIO  
Computer  
Engineer



**Efe ÖZCANLI**  
CMO  
Earthquake and  
Structural Engineer



**Ahmet Said SAVAŞ**  
Embedded  
Software Engineer



**Fatih AYDEMİR**  
Computer  
Engineer

# OUR PROJECTS



**IT Valley High-rise Office building**  
2018



**İGDAŞ Strong Ground Motion Monitoring System**

More than 500 sensors are active in ISTANBUL



**Burdur Hospital**  
2023



**Ferrero Duzce Factory**  
2023



**Yatağan Hospital**  
2022



**ISTANBUL – ITU University Nuclear Reactor Building**

2015



Only a few experiences are shown.





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*INNOVATING RESILIENCE, MONITORING EXCELLENCE*

SAVE YOUR FUTURE ---- START NOW

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