

Blockchain Based YTU Greenstars Certification Program for a Better Solution in Sustainability



YTU

GreenStars

GreenStars

GreenStars is a program which environmental, social and economic sustainability is **evaluated**, **encouraged** and **rewarded** with a systematic, comprehensive and holistic approach in all areas that can contribute to sustainable development, such as the public, education, residential units, as well as the production, service and construction sectors.



“Leave No One Behind”

The Necessity for a Platform

Maintaining International Competitiveness



Paris Climate Agreement, which aims to keep the global temperature rise below 2°C as much as possible.

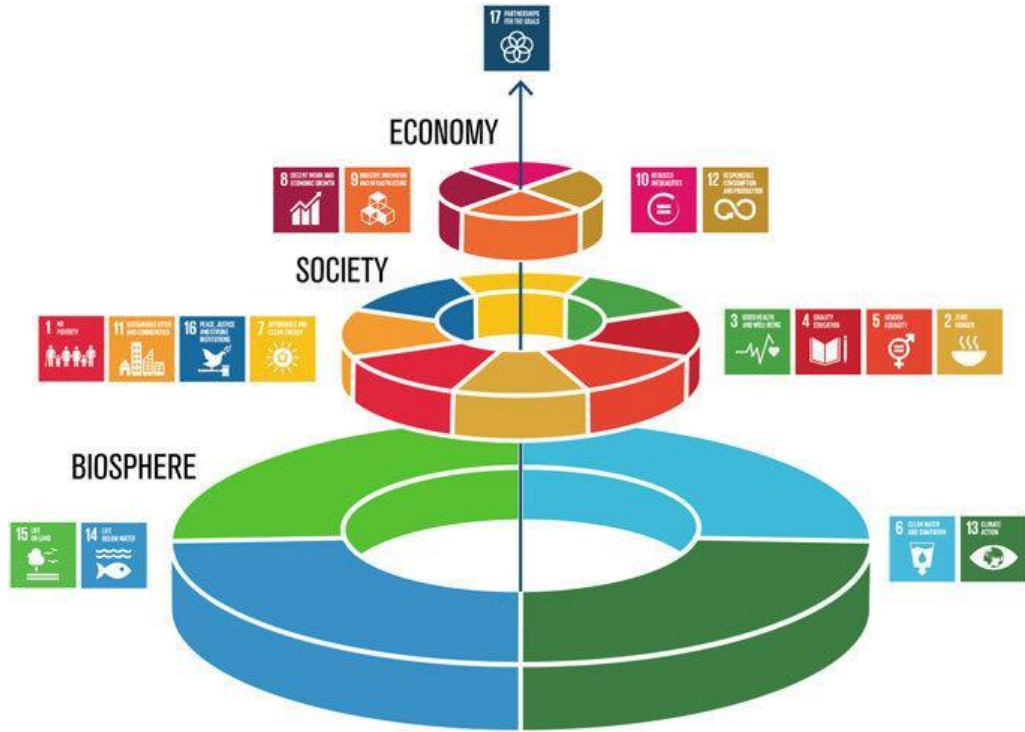


Publication of the European Green Deal, aiming for a climate-neutral Europe by 2050



Shaping all country policies, especially trade and industry, on the basis of green transformation

The Necessity for a Platform



- It requires multidisciplinary studies of Engineering Sciences-Social Sciences-Educational Sciences.
- Evaluating the performance levels of stakeholders on the basis of 17 SDGs,
- Comparing applications on a global scale
- In order to evaluate the achievements within the framework of objective criteria,

The **GreenStars Platform**, where Turkey's first domestic standards were created, was established.

3 BASIC PRINCIPLES OF SUSTAINABILITY

There are basically three principles in the field of corporate sustainability.

- **ECONOMIC**
- **SOCIAL**
- **ENVIRONMENTAL**





Sustainable Development Goals

Rating

The organization-based percentages of the program prepared by the United Nations in line with the 17 SDGs are determined and reported.

SDG



GreenStars PLATFORM – MAIN PROCESSES



Blokchain Infrastructure



End-to-End Monitoring and Control

Blokchain Infrastructure

1 Traceability

4 Quality Assurance

2 Smart Contracts

5 Financial Transactions

3 Global Reach

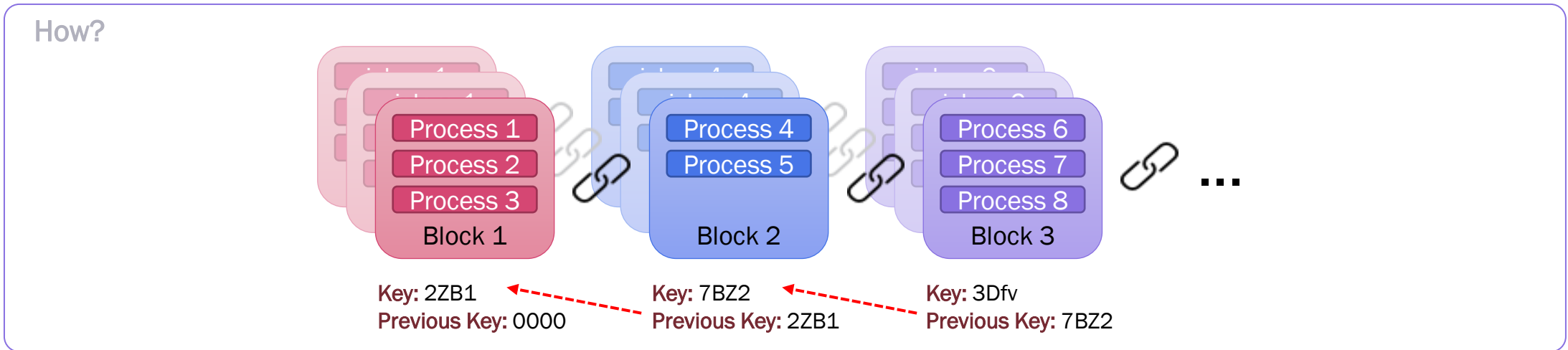
6 Cost Advantage

What is Blockchain?

Blockchain is a technology that provides secure transaction recording and tracking on a network of multiple participants.

Records on Blockchain:

- Shared with all participants
- Confirmed by all participants
- Cannot be changed
- Cannot be deleted



Blockchain Network Structure Requirements

Operational efficiency

Simplifying processes

Active control

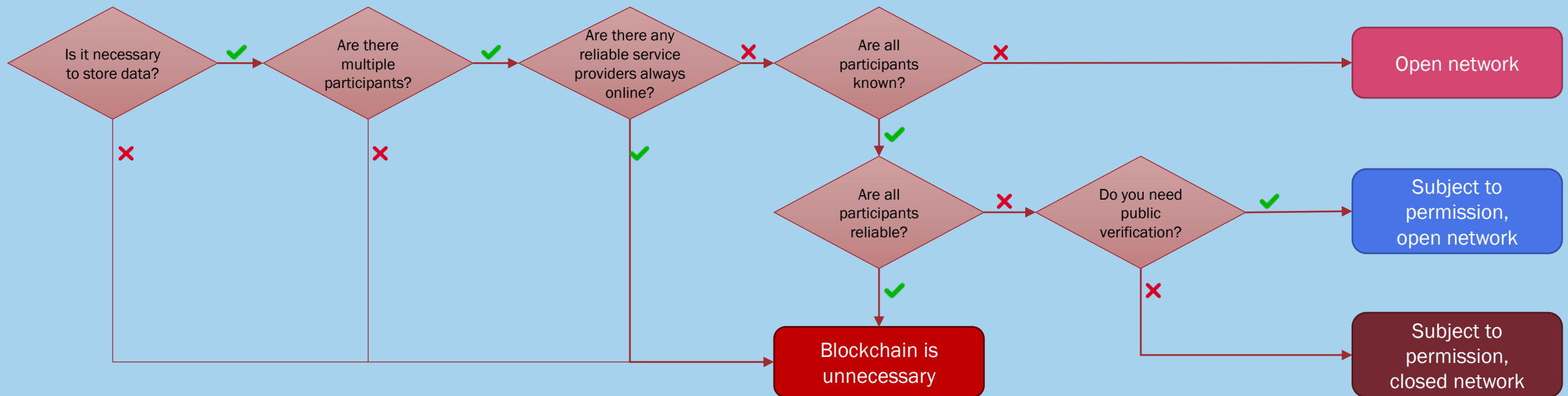
Less risk

Faster reconciliation

Service continuity

Transparency

Appropriate Blockchain network type assessment



Industries and areas that will be affected by Blockchain



Supplier Chain



Energy



Public



Finance



Education



Health



Transportation



Associations



Identity



Textile



Real estate



Industry



According to TÜBİTAK's 1st Blockchain Workshop Report, the general application areas of blockchain are as follows: :

Banking
FinTech
Money Transfers
Creating and Storing Valuable Documents
E-Commerce and Payments

Stocks and Exchanges
E-Notary Person-to-Person
Borrowing and Distributed Loan Systems
Donation Systems and Micropayments
Cloud Computing and Secure Cloud Storage

WorkFlow Scheme



Web Page



www.greenstarscertification.com

All documents and documents required for YTU GreenStars Certificate are available on the designed web page. In order to start the certification process, a user account is created on the web page on behalf of the institution.

Declaration of Compliance



Declaration of Conformity

Who Can Be on the Sustainability Commission?

- Senior executives of the company
- Experts in the field of sustainability
- Human Resources Specialists
- Engineering Disciplines
- Quality Managers
- Chief Inspectors
- Occupational Health and Safety (OHS) Experts
- Strategic Planning Experts
- Sociologists, Psychologists





Evaluation Criteria

Questions will be answered under 7 main headings.

- Infrastructure
- Information Education Organization
- Environmental Management
- Administrative Processes
- Human Resources
- Social
- Management Systems

There are **196 questions** that are expected to be answered.

Answers from the **last two years** will be required.

The answers to these questions will have an impact on the

Sustainable Development Goals.

← Cevap girişi Key Digital AS / 2021

İnsan Kaynağı

Sosyal Oluşumlar

İdari Süreçler

Altyapı

Çevre Yönetimi

Yönetim Sistemleri

Bilgilendirme - Eğitim - Organizasyon

✓ Tamamla ve gönder

▼ İK1

Kurumda yıl sonu itibariyle çalışan sayısı



Kurumda çalışan, sözleşmeli ve sürekli olarak istihdam edilmiş ofis çalışanı, işçi, teknik, idari ve yönetim kadrolarının tamamını kapsamaktadır. Belli bir iş sözleşmesi kapsamında geçici olarak istihdam edilmiş, bir yıldan kısa süreli anlaşması olan ve geçici görev ile kurumda bulunan çalışanlar hariç tutulmalıdır.

2020:



2021:



Kaydet

▼ İK2

Kurumda çalışan sözleşmeli veya bir yıldan az süre ile anlaşmalı çalışan sayısının toplam çalışan sayısına oranı



Belli bir iş sözleşmesi kapsamında geçici olarak istihdam edilmiş, bir yıldan kısa süreli anlaşması olan ve geçici görev ile kurumda bulunan çalışan sayısının toplam çalışan sayısına oranıdır. (Örneğin; 0,15 değeri için %15 giriniz.)

2020:



2021:



Kaydet

▼ İK3

İki yıldan fazla çalışan sayısı



Kurumda başladığı sigorta başlangıç tarihi baz alınarak iki yıldan fazla süre boyunca çalışan sayısıdır.

2020:



2021:



Kaydet

▼ İK4

Haftalık toplam standard çalışma saati



Haftalık toplam çalışma saati girilmelidir.

Data Entrance System

1-Day Field Inspection



Evidence Document Control

Field Control

Certification

Reporting the Inspection

CERTIFICATION

If at least 4 SDGs are met



YILDIZ TECHNICAL UNIVERSITY



GreenStars



çedbik



GY::DER



T.C. İSTANBUL VALİLİĞİ

LC Waikiki

SEZGİN GROUP

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YTU- Davutpaşa

