

Tornado Exhaust Device
TED White paper

Ver 1.0 (ENGLISH)

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1. Introduction

1.1. Vision

TED is the first Token in our eco-friendly ecology project based on the manufacturing company Seong-gwang Smog, which owns the core technology of an exhaust device using the concept of a tornado, Tornado Exhaust Device. TED Foundation, TED Token's issuing entity, will connect blockchain to Seong-gwang Smog's various technologies that have innovative influences on improving the environment, not just the Tornado Exhaust Device.

TED Foundation has fought for a long time to prevent air pollution, emission reduction, and fuel efficiency regarding the environment and Seong-gwang Smog's carbon emission rights. The synergy will increase with the convergence of the offline manufacturing industry and blockchain's 4th industrial wave. Seong-gwang Smog has focused on technology development for the past 10 years and proved its technology through continuous product manufacturing, application to passenger and small cargo vehicles, and distribution.

Issuing and transacting TED Tokens lower barriers to entry for overseas market buyers and allow profit in currency exchange fees. TED Token will converge digital currency with an eco-technology item to expand everyday life and the blockchain token market ecosystem.

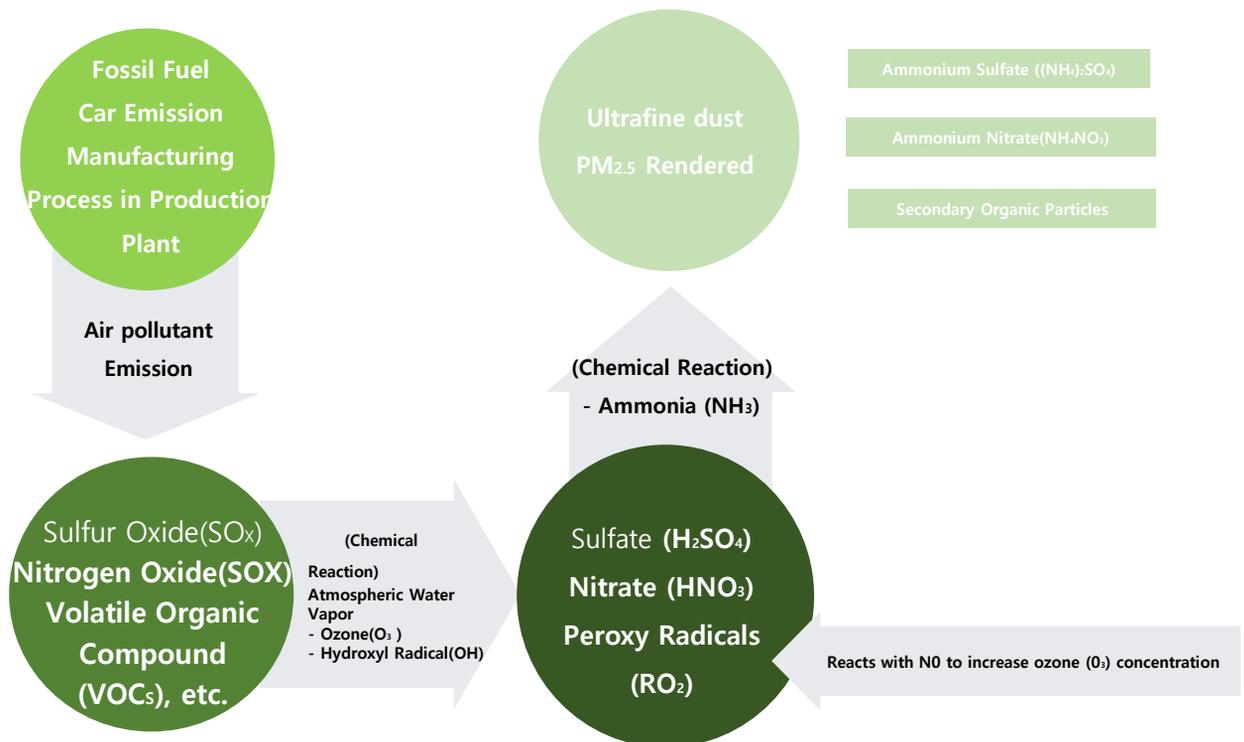
1.2. Background

With severe environmental pollution these days, various media are busy sending out negative news from around the world. Of them, the environmental pollution which directly influences our humankind is air, water, and soil pollution.

Among the above elements, air pollution inevitably incurs the fastest direct influence on humankind. The most direct cause of air pollution is fine dust, caused by sulfate, nitrate, carbon, and soot, from cars, ships, and power plants. The severe dust in Korea before COVID-19 was also mostly influenced by Chinese production plants. Also, each household has its own car nowadays, so the combustion engine and wear from tires are also main causes of air pollution.

In particular, air pollution in Korea's metropolitan area is mostly pollution from road traffic. PM 10 concentration usually occurs from product manufacturing and debris, but road traffic caused 60.8% of Seoul's air pollution, and 43.1% in Gyeonggi-do. Such phenomena are serious cases of air pollution, happening not just in Korea but across the globe.

There are innumerable pollutants on- and off-road powered by internal combustion engines across the world. Much improvement in environmental pollution prevention and fuel efficiency can be expected of these numerous pollutants, with Seong-gwang Smog's practical technology, easy application, a wide span of usage, and low investment cost.



Reference A Research on the Distribution Concentration of Volatile Organic Compounds in Busan Metropolitan Ambient Air, Rep. Busan Inst. Health & Environ, 2003
Reference A Study on the High Ozone Episode and Photochemical Smog(III), National Institute of Environmental Research, 2003
Reference It Shows If You Know, Ministry of Environment Booklet, 2016 Fine dust, What Exactly Is it?
Reference Recent Status of Fine Dust (PM10/PM2.5) and Countermeasures, Ministry of Environment, KEITI, 2019

2. TED Overview

2.1. Outline

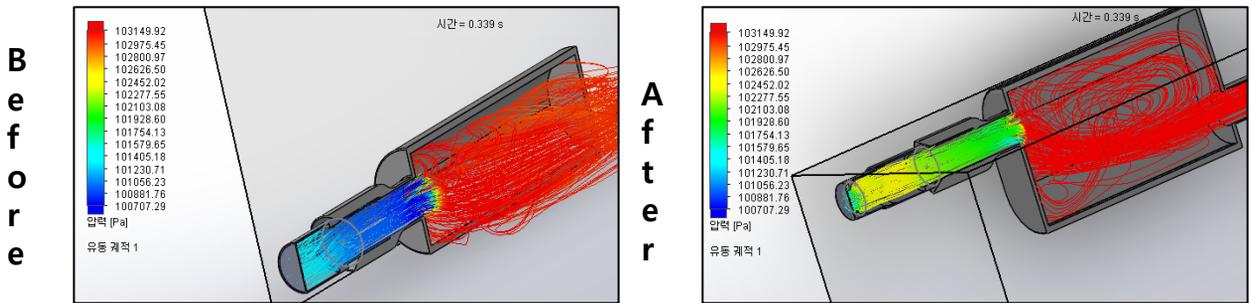
TED's vision, in a microscopic sense, is to use Seong-gwang Smog's new technology as a basis to protect the environment we live in and to pass down a better future for the next generation. In a wider sense, we hope to reverse the earth's environment a little to contribute to improving the global crisis.

It is also true that many Coin and Token ecology projects' links to the offline are not smooth. TED Foundation, starting with TED Token, will center on Seong-gwang Smog to build an ecology based on technology related to the environment. It will develop the eco-friendly industry offline and contribute directly to improve environmental pollutants and converge with blockchain technology to become the leader that pulls forth the global environment ecology.

The first technology that TED presents is Exhaust Induction Device For Improvement of Internal combustion (EIDI, an exhaust induction device that improves internal combustion efficiency and quickens emission). It is a technology device that can be used generally to reduce internal combustion emission in on-road pollutants such as small cars, trucks, buses, and even in non-road pollutants which cannot use emission reduction devices such as ships, construction equipment, power plants, and military equipment.

2.2. EIDI (Exhaust Induction Device For Improvement of Internal combustion)

EIDI, the first environment-improving technology that TED will present, is registered for a patent(10-2127140) as the world's first non-powered and non-filtered internal combustion engine emission-reducing device. It automatically adjusts the pressure in the back of a muffler to the best efficiency by improving irregular gas flow in the exhaust pipe and generating a vortex, even in increasing flow speed and changing RPM. It also induces quicker exhaust emission and internal combustion engine efficiency improvement.

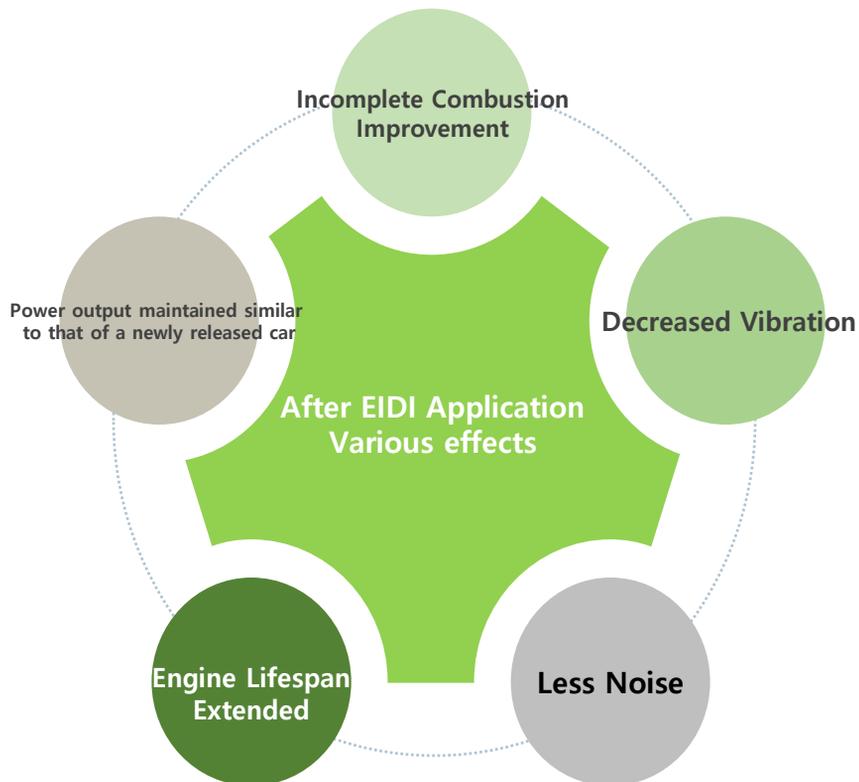


Reference Cheetah Korea & Ahju Motor College -Industry Foundation Computational Fluid Dynamics Study Report, 2018

EIDI has various advantages of a non-filter method and nitrogen oxide(NOx) reducing technology and has a different aim to that of commercialized reduction technologies that filter and reprocess emission matter.

EIDI does not require disassembly or removal of the original device, an additional device, additional space for application, or permits for structural changes. Operation is feasible immediately after application (1-60 minutes).

EIDI's purpose is to improve incomplete combustion of the internal combustion system. In case where incomplete combustion is improved, multiple side benefits follow.



Other Effects of EIDI

2.3. Technology Distribution Plan

EIDI is convenient to distribute for general usage due to easy application and affordable cost.

In terms of Korea’s ocean shipping, we will respond to vessel and port management standards (top 15 central tasks), distribute non-filter nitrogen oxide (NOX) reduction technology, and contribute to eco-friendly vessel and port transition. Also, reduction focused on large cities and metropolitan areas will allow us to take action for diesel cars and construction equipment and to contribute to eco-friendly transportation infrastructure transition.

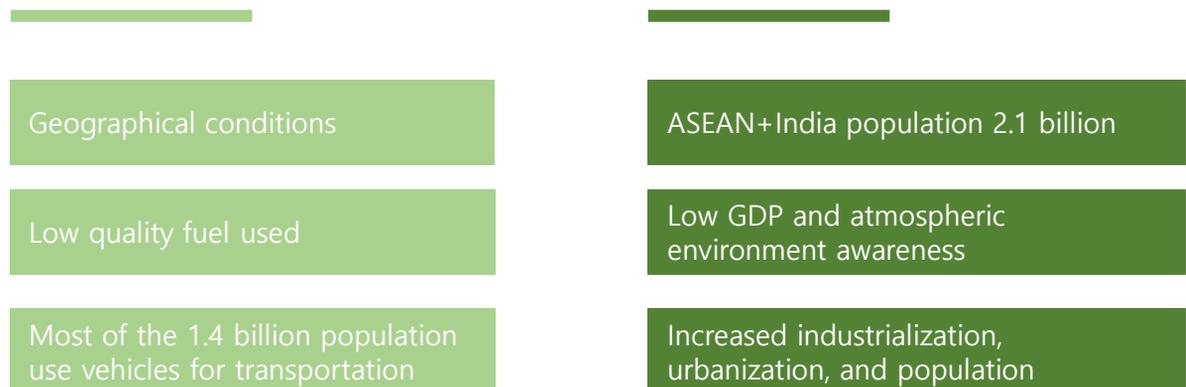
As for overseas technology distribution, it will be according to the technological level of each country’s GDP. Distribution will be focused on large cities and industrialized regions to prevent environmental pollution in advance. Markets will be expanded by prioritizing distribution to countries near Korea. It can be distributed firstly to overpopulated countries to block the biggest causes of pollution.

Eventually, the plan for overseas technology distribution will provide the highest effect on improving Korea’s environment and will also provide an economic effect.

Review of overseas causes of fine dust influencing Korea

According to Korea-US joint research, 48% of fine dust is caused by overseas influences

Southeast Asia’s central cities have the lowest quality of air; India ranks as the second most air-polluted country



Reference International Cooperative Air Quality Field Study in Korea (KORUS-AQ) 2016, Ministry of Environment, 2017

2.4. EIDI Application Before and After

Name of Vehicle	Model Year	Date of Measurement	NOX Measurement			
			Measurement Standard Per Vehicle	Before	After	Approval
Equus (Gasoline)	2006	2018-08-28	490(PPM)	6	2	Approved
Cerato (Gasoline)	2007	2019-06-08	25(%)	14	3	Approved
Sorento (Diesel)	2004	2017-10-19	20(%)	6	1	Approved
Santa Fe (Diesel)	2002	2018-10-18	25(%)	99	9	Approved
Starex (Diesel)	2010	2019-07-05	15(%)	32	9	Approved
Porter (Diesel)	2002	2018-06-25	20(%)	19	10	Approved
Porter (Diesel)	2015	2018-10-18	15(%)	75	6	Approved
Porter (Diesel)	2012	2017-01-18	15(%)	10	4	Approved
Porter (Diesel)	2010	2019-06-03	15(%)	15	2	Approved
Bongo (Diesel)	2001	2017-08-24	20(%)	15	7	Approved
Porter (Diesel)	2018	2019-05-22	15(%)	10	0	Approved
Grand Starex	2010	2019-06-13	15(%)	18	1	Approved
Toyota (Gasoline)	2010	2020-10-20	NOX Carbon Monoxide			Approved

Of Emission Inspection at a
Vehicle Inspection Station

**Nitrogen Oxide
(NOX)**

Decreased by

53~91%

2.5. EIDI Computational Fluid Dynamics Result – By Ahju Motor College

Test Vehicle (for IM240 Mode Drive Test) : Santa Fe Diesel



Model	2016 Santa Fe
Number of Cylinders	4
Displacement	1995CC
Rated Output	186HP
Fuel Efficiency	13.1km/ℓ automatic
Transmission	6-speed automatic
Fuel	Diesel

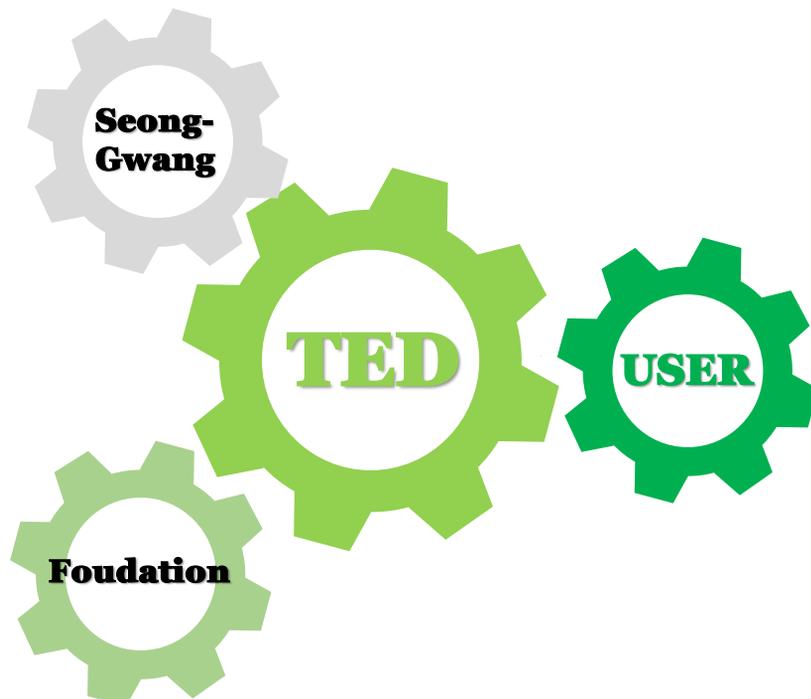
IM240 Hot mode test result (Indoors equipment test)			
	Before Application	After Application	Increase or decrease
Unburned hydrocarbon(HC)	0.009 g/km	0.004 g/km	55% decrease
Carbon monoxide (CO)	0.619 g/km	0.015 g/km	97% decrease
Nitrogen oxide (NOX)	0.003g/km	0 g/km	Significant decrease
Carbon Dioxide (CO ₂)	155.55 g/km	117.71 g/km	24% decrease
Per-liter mileage	17.20km/ℓ	22.90 km/L	33% improved

2.6. TED EcoSystem

Starting with EIDI, introduced previously, TED Foundation and Seong-gwang Smog already have innovative technologies that can improve environmental pollution and will apply these in reality step by step.

However, those technologies do not require so much capital or infrastructure. TED Token participants will become active participants in eco-friendly projects by owning TED Tokens. They will have even stronger partner relationships through events to be planned by the Foundation. TED ecosystem is an ecosystem we inevitably must choose and will be our best gift to our own selves in the current times and to future generations to come.

Token participants can receive discounted purchases (when using Tokens) on eco-friendly technology products from TED Foundation and Seong-gwang Smog. The ecosystem allows a cooperative influence as a direct and indirect participant in environmental pollution improvement by participating in reward events through owning (staking) a certain number of Tokens for a given period.



TED EcoSystem

3. Team Members

3.1 TED Foundation

3.1.1 TED Co-Representative CEO Kim Hoon

**Currently Co-Representative CEO of FileSystem and Filecoin Korea
Previously Strategy Information Analyst and Leader of Global
Economic Information Business Team, Global Economic News**



3.1.2 TED Co-Representative CEO Ahn Jun-Beom

**Currently Co-Representative CEO of FileSystem and Filecoin Korea
Previously CEO of Shinhapcheon**



3.2 EIDI Technology Team

3.2.1 Hong Keum-pyo, CEO of Seong-gwang Smog

Previously CEO of Monodesign

Previously CEO of Injin

Previously CEO of Carbon Holdings

Previously CEO of Cheetah Korea



3.2.2 Han Seung-hoon, Director of Technology at Seong-gwang Smog

Previously CEO of SH Koramtech - Automation Equipment Engineering

Previously CEO of Taesung – metalwork, prototype development



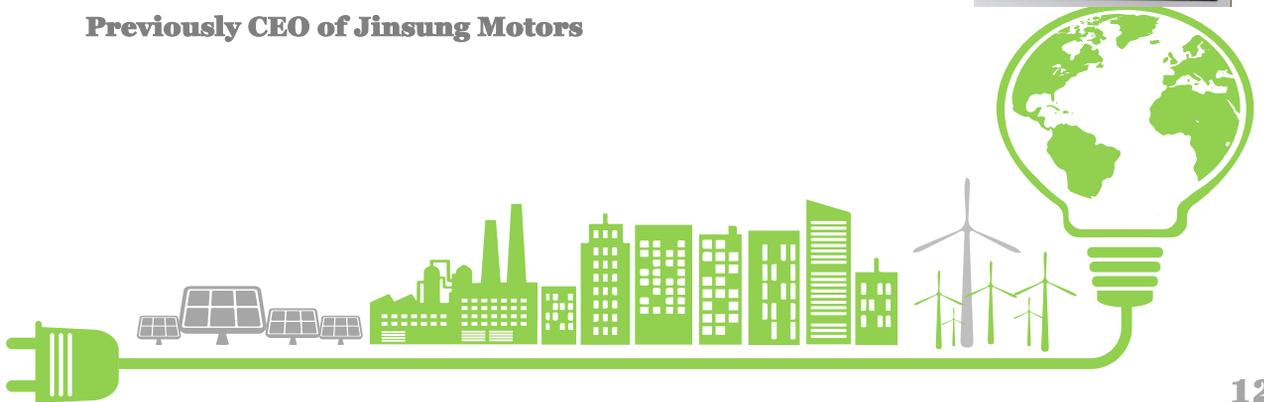
3.2.3 Kim Jeong-hoon, General Manager at Seong-gwang Smog

Previously Repair Technician at Daelim Honda

Previously Superbike Racer in J'S Racing Team

Previously Dealer at BMW Dongsung Motors

Previously CEO of Jinsung Motors



4. Advisors

4.1 Ham Dong-ho, Ph.D.

Doctor of Science in Environmental Energy,

Texas State University, U.S.

Technical Director, Lloyd's Register, U.K.

Head of Business Division, TUV Germany

Professor, Jackson State University

Adjunct Professor, Hanyang University

(2002~2012)

High-speed Rail Tech Transfer Localization

Team Leader (Head Researcher)



5. Partnership

5.1 DATAM

Carbon Reduction-proving Project Based on Blockchain Technology



5.2 FileSystem - Filecoin Corea

Builds and operates a decentralized distributed cloud server system

5.3 Sinokor Merchant Marine Co., Ltd.

**Shipping company providing logistics services based in Asia and Europe
216 ships owned and 6,000 sailors and employee members**

5.4 Foryourcell

**An eco-friendly company that protects humans from bacteria and virus,
and saves the natural ecosystem
www.foryourcell.co.kr**

5.4 ABTI (ArBitrage Technical Influencer)

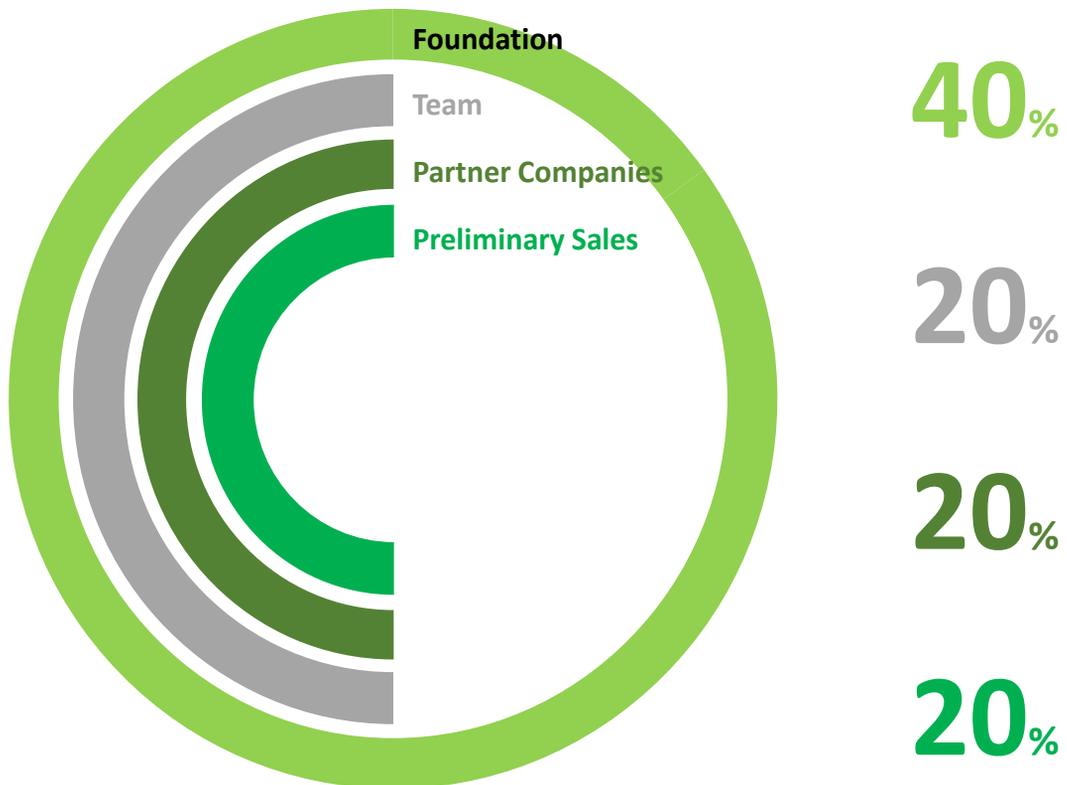
Blockchain finance IT program development and blockchain consulting

6. TED Token

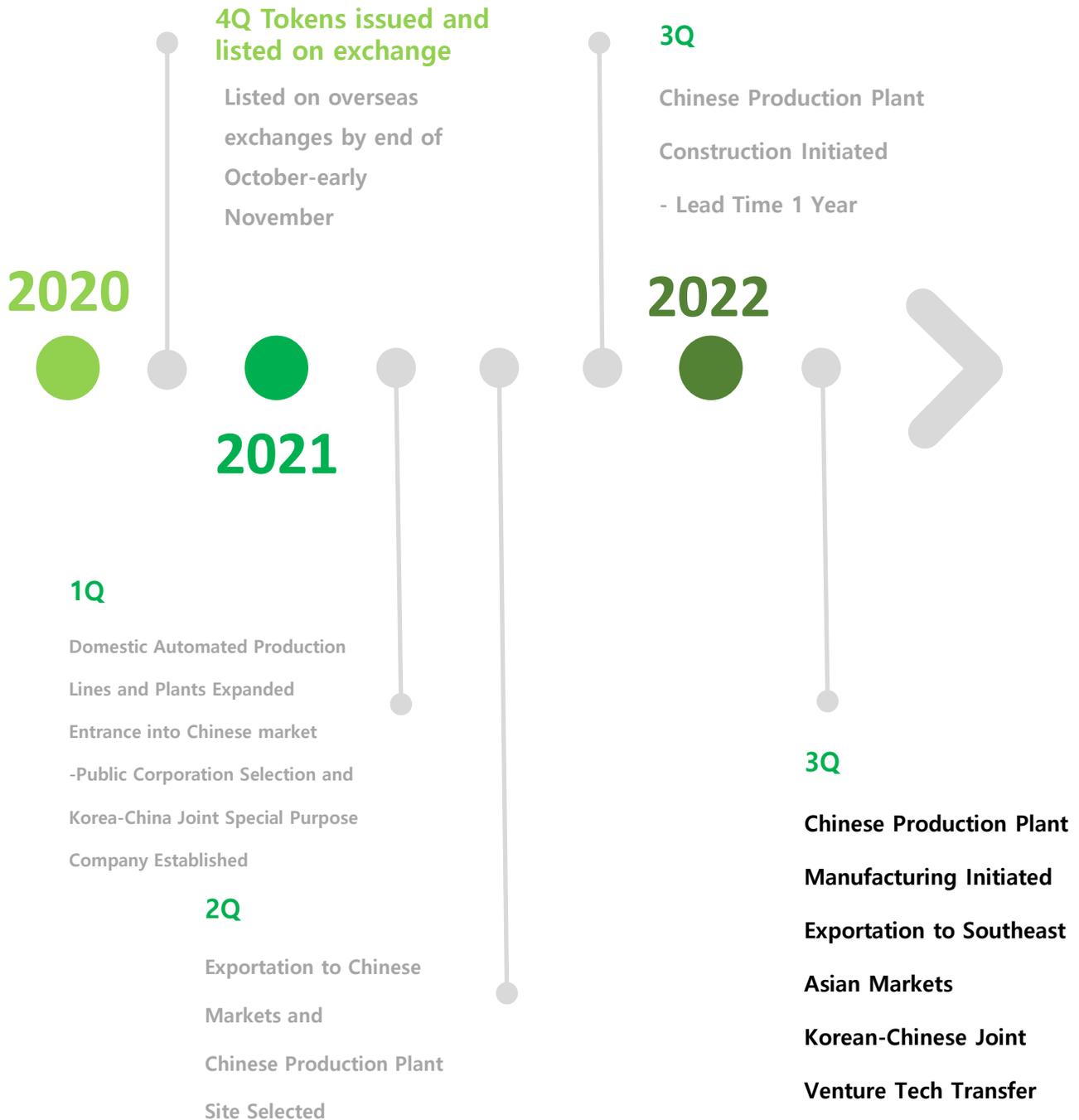
6.1. TED Token Information

Token Name	TED
Platform	
Total Token Supply	2,000,000,000 TED

6.2. TED Token Allocation



7. Road Map



Exemption Clause

This document contains a summary related to TED's business and projects and is not final.

Also, it has been edited at the point of documentation, therefore the contents in this document may be irregularly changed or updated and is not guaranteed to not change at later times.

If there are any inquiries related to the contents of this document, consult a certified public accountant, lawyer, or other professional expert.

1. The purpose of this document is to provide a summary and introduction of the platform that TED is preparing. This document is not legally binding and is not intended to be used as basis for investment decisions or to provide certain recommendations. Therefore, it should not be interpreted as a selling or purchasing proposal from TED issuers or distributors, and the document itself should not be the basis for contracting or investing decisions.

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Investment risks

TED advises on various types of risks, including significant risk in purchasing cost financial loss to the purchaser. The below suggested information on risk and uncertainties are not guaranteed of accuracy.

The buyer is assumed to purchase and agree to purchase TED regardless of risk as-is without any warranty in purchasing or owning TED.

1. TED is based on Ethereum blockchain technology. Many types of tokens are based on Ethereum smart contracts, but it is vulnerable against mining attacks such as 51% attacks and double payment attacks. Issues in Ethereum blockchain may cause financial losses to TED owners.

2. TED is currently in development. Legal, technological, administrative regulatory, and other such influences are subject to change; TED holds no responsibility to compensate in cases of loss or depreciation of TED's value due to changes in market interest and other inevitable causes.