### ESG & BLACKYAK

#### - BYN Plastic Resource Circulation Project -



UN SDGs Consultant BYN BLACKYAK CEO Kang Tae-sun

**BASECAMP IN YOUR NEW LIFE, BYN** 

© 2019 BYN Co., Ltd. All Rights Reserved

This report is solely for the use of personnel. No part of it may be circulated, quoted, or reproduced for distribution outside BYN BLACKYAK Co.,Ltd. without prior written approval from business planning department. This material will be used by the author during an oral presentation, it is not a complete record of the discussion.



### What is **ESG**?

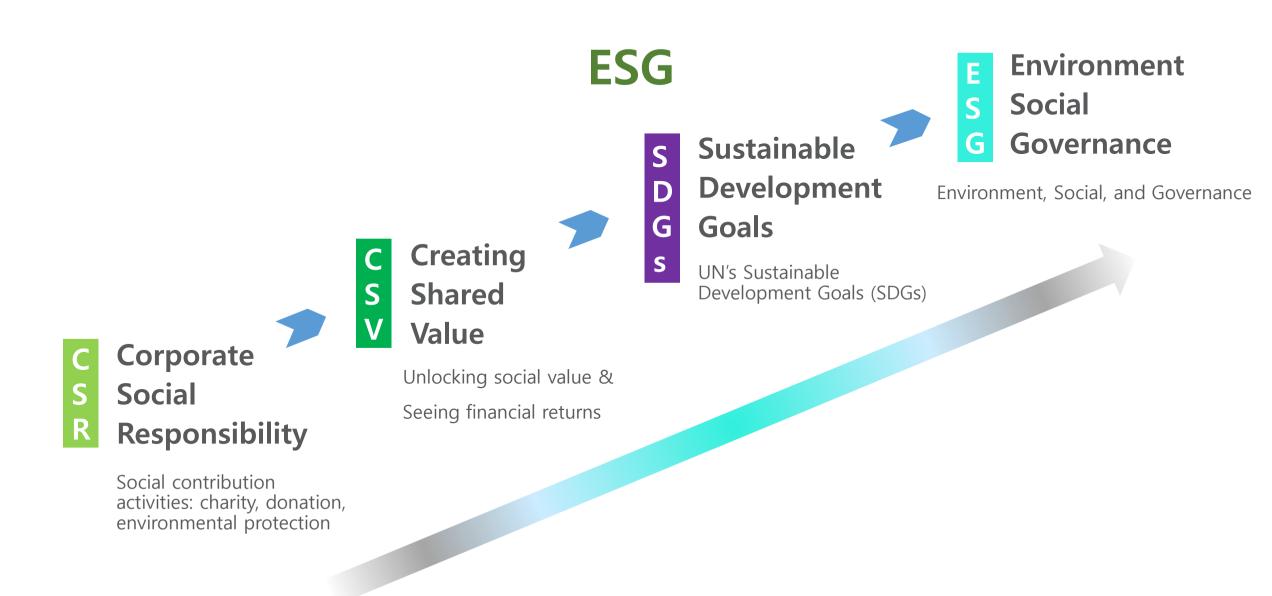
Environment

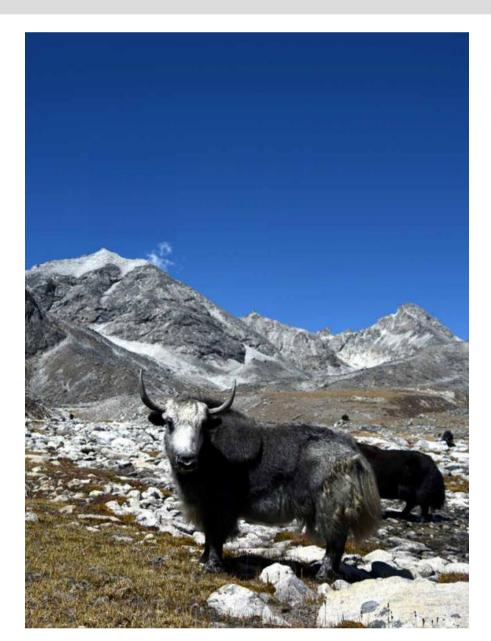
Social

Governance



Social contribution activities: charity, donation, environmental protection





#### E Environmental S Social G Governance

Yaks, the only animal that climbs Himalaya, provide us with eco-friendly warm wear made of their shed hair, and leave grass roots untouched and only eat branches and leaves, **presenting humans and Mother Nature with <u>sustainable</u> <u>environment</u>.** 

They carry luggage over rugged hills with us, and their dung is a valuable natural resource to bald highlands, **attracting people around and <u>keeping community interests up</u>.** 

After spending their whole lives in the Himalayas, the premium leather of yaks is reborn as luxury brand products, thus **ending its life in the form of** <u>social return</u>.

#### **BLACKYAK is ESG**

#### **Outdoor Spirit**

### **Outdoor Spirit = Noncompetitive, pioneering, process**

We head to the mountains knowing how priceless the value of every moment of overcoming any hardship with nature is, rather than competing with others for the top.

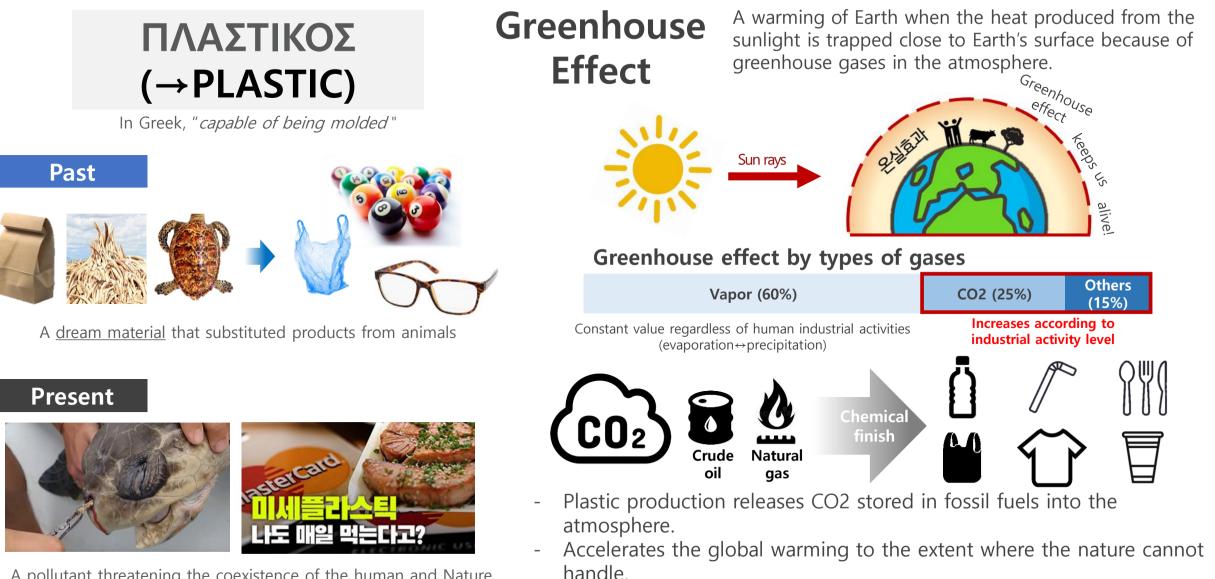
The essence of mountaineering is not about ascending a peak but about climbing the more difficult route by pushing yourself beyond the limits of your mind and body. *Mummerism*, Albert Frederick Mummery (1855-1895)



### Domestic Plastic Bottles Recycling Project



#### **Environmental Pollution & Global Warming Caused by Plastics**

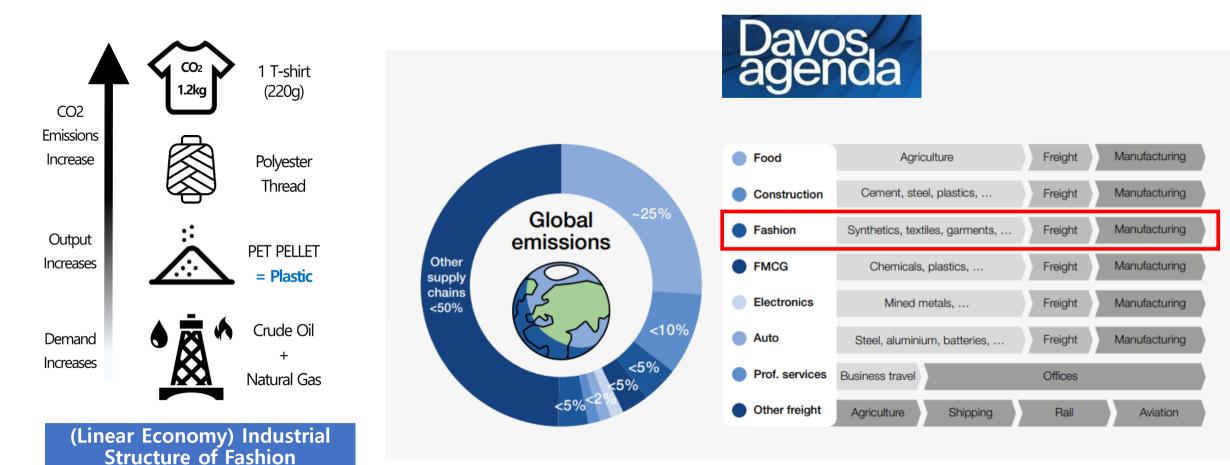


A pollutant threatening the coexistence of the human and Nature

Must achieve carbon neutrality by balancing carbon emissions and

#### **Environmental Responsibility of Fashion**

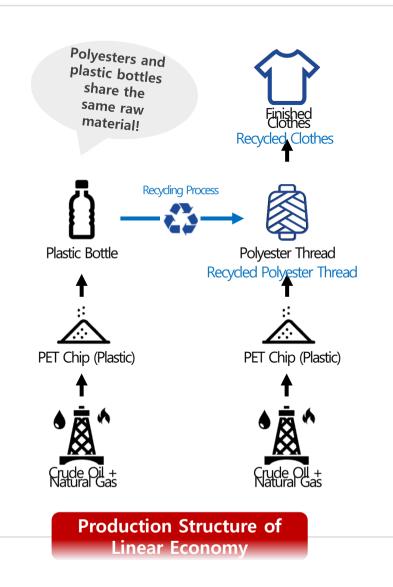
**Polyester**, the main raw material used in the **fashion industry**, is synthetic resins (plastics) produced by fossil fuels processing.



Davos 2021 Insight report. 2021.

Top Greenhouse Gas Emitting Industries (Food – Construction – <u>Fashion</u> – Chemicals...)

#### **Eco-friendly Effect of Using Recycled Polyester**



#### Comparison of requirements for 1 T-shirt Unrecycled Recycled Crude Oil (L) Energy (MJ) CO2 Emissions (kg) 1.4 90.0 6 80.0 1.2 280m 18MJ 5 1.2KG 70.0 1 -70% -65% -84% 60.0 4 0.8 50.0 3 40.0 0.6 30.0 2 0.4 0.42KG 20.0 13MJ 1 0.2 10.0 45m 0 0.0 0 The use of crude oil in plastic making contributes to global warming. Bruno GERVET. 2007.

The Stockholm Environment Institute, 2008.

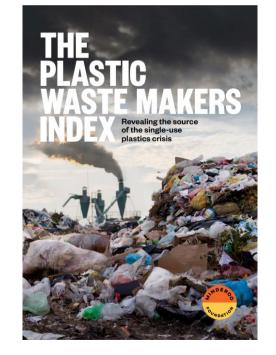
Polyesters made of recycled plastic bottles (rPET) is the solution!!

#### **Eco-friendly Fashion that Helps Reduce International Waste**



Press release from the Ministry of Environment. 2020.

#### **Plastic Consumption in Korea**





Minderoo Foundation (a private philanthropic company in Australia) Report 2020

Annual Average Consumption of Singleuse Plastic Waste per capita

Korea, Top 3

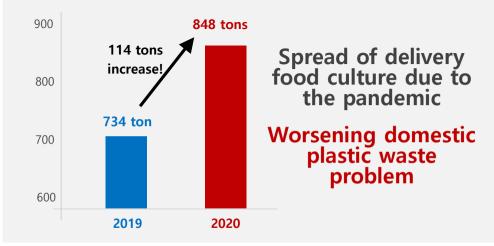
Based on 2019 Emissions





Chungnam National University/Greenpeace. < Plastic Korea >. 2019

#### Increased Amount of Plastic Waste in Korea (2019 $\rightarrow$ 2020)

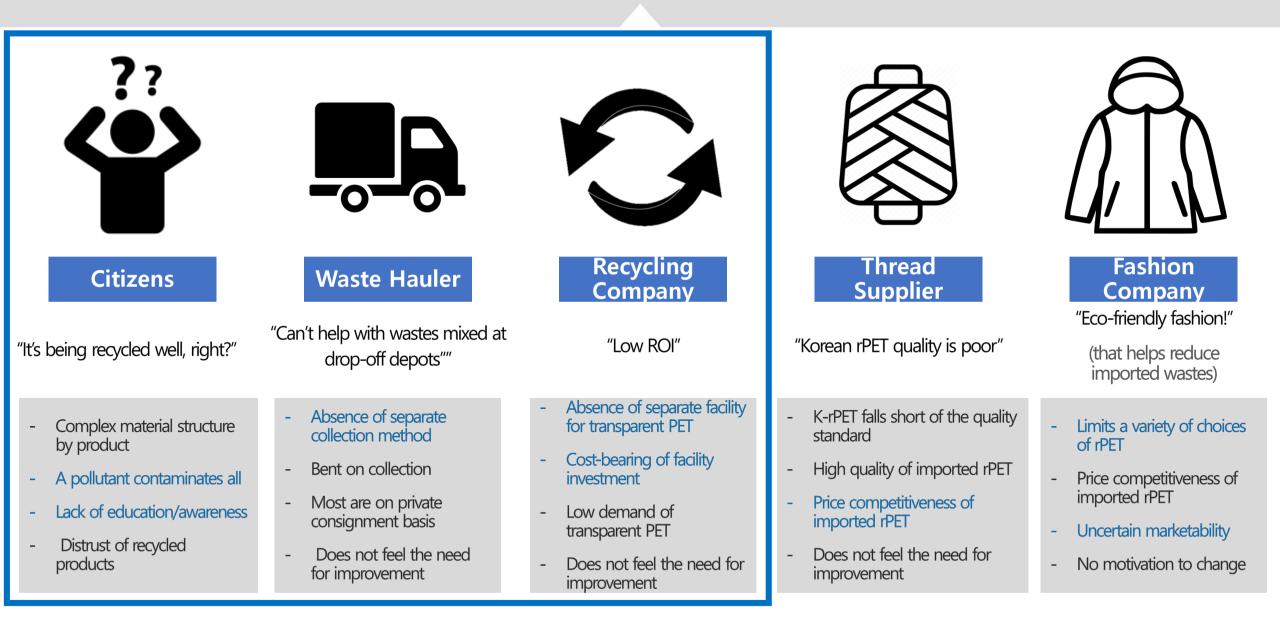


**Problem of Recycling Domestic Plastic Bottles** 

# The First Stage of Recycling The Problem of Disposal/Collection



#### **Problem of Resource Circulation by Stages**



#### Waste Sorting

#### > Inadequate waste sorting + removal of labels



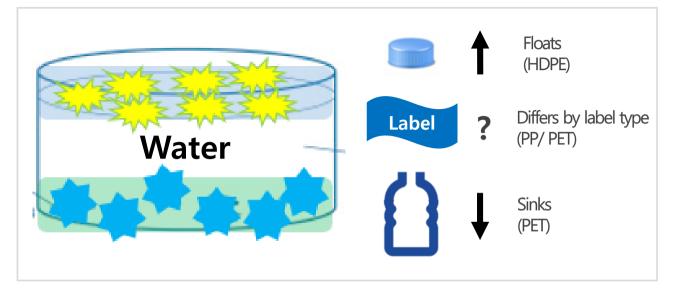
Gravity separation method that makes flakes float

< Plastic bottle body vs cap> = separable, but

<Plastic bottle body vs label>= Impossible to separate completely



Jan. 2021





#### Problem - polluted while collecting, separating, and recycling



Multiplex housing (Apartments) collection



Housing (Low-rise, single) collection



MBC News Today, Dec.13, 2019

- Mixed and polluted even if well sorted

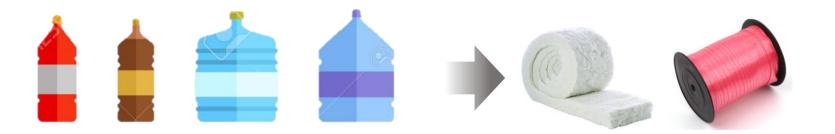
#### **Recycling Creates Low Added-value**



MBC News Pre Desk. Dec. 22, 2021 <Best in delivery...but, in recycling?>

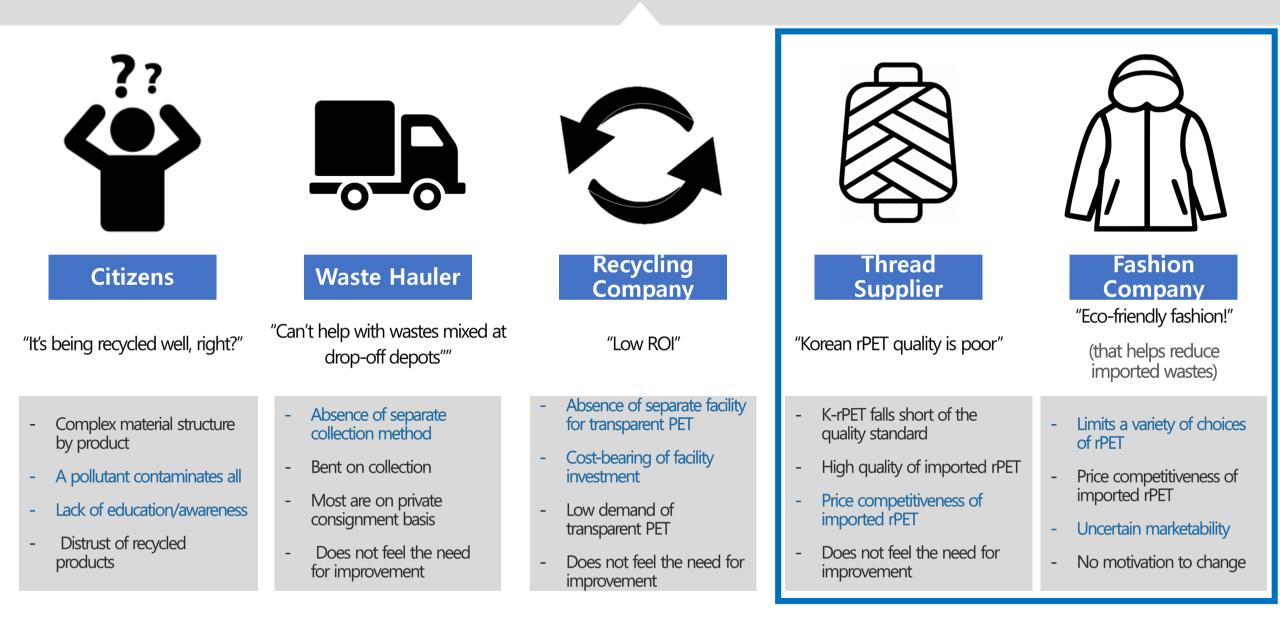


PET recycling company (flake factory) manual sorting

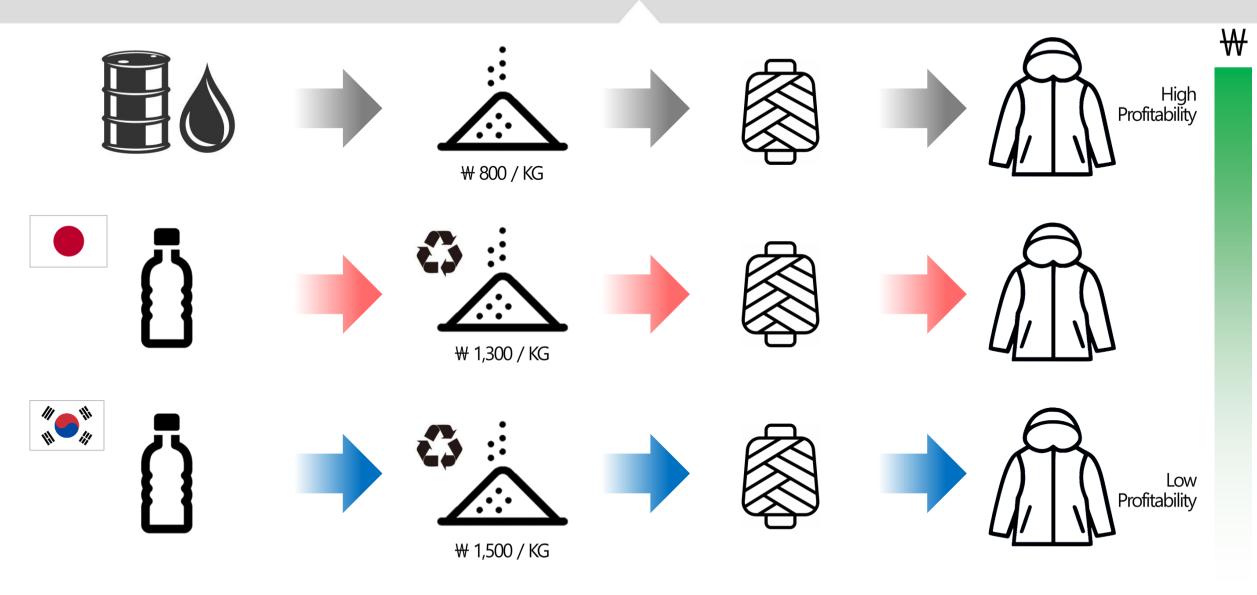


Domestic transparent plastic bottles are recycled into poor quality fillers, cords, and etc.

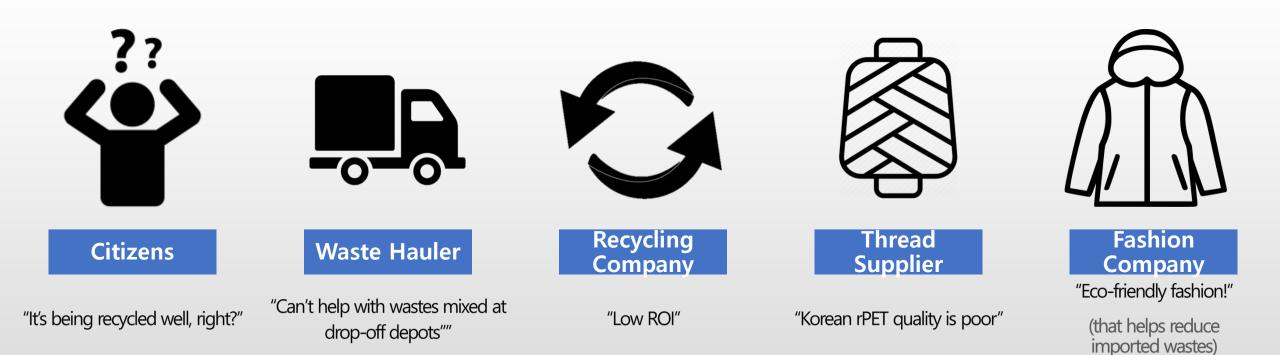
#### **Problem of Resource Circulation by Stages**

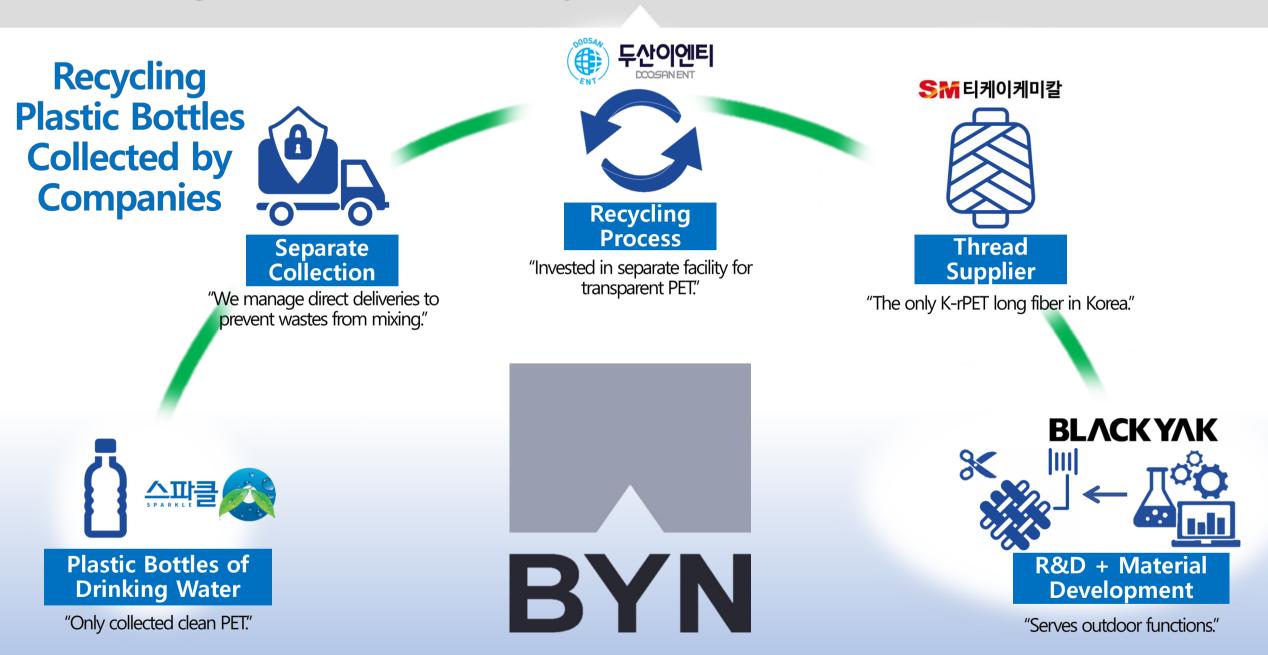


#### Businesses are not determined enough to improve



Hard to improve due to the low profitability of Korean PET-recycled products









## Turning used and thrown away plastic bottles into plastics that serve as a plus factor to the Korean society!

### **BYN Resource Circulation System "PLUSTIC"**

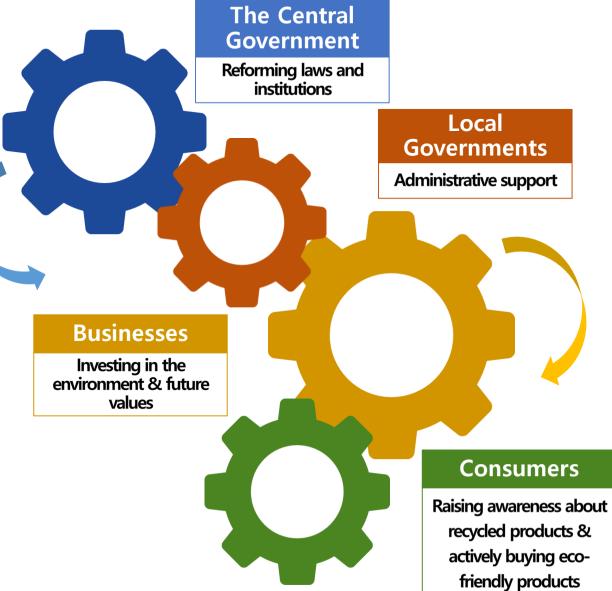


#### **MOU & Partnership**



#### **Moving Towards Plastic Independence**





#### UN Climate Change Conference 2021(COP 26)



Participated in UN COP (Glasgow, the U.K.) and ran 'Korean Booth' – Introduced as Korea's circular economy & carbon neutrality case





Korean Booth. COP26.

Minister of Environment Han Jeoung-ae giving a briefing on NDC 2030. COP26

#### UN Climate Change Conference 2021(COP 26) - Glasgow, the U.K.



BYN displaying the resource circulation system, COP26.

Introducing K-rPET to global VIPs, COP26

#### **Conclusion and Proposal**



Clothing, Food, and Shelter

#### **Conclusion and Proposal**

#### ESG management is the right path.

Rather than competing with others for the top, giving concerns about how we can coexist with the nature, both in environment- and business wise, is what sustainable ESG management truly is about.

> Just like the "black yaks" in Himalayas, we tenaciously walk the right path.

# Thank you.