

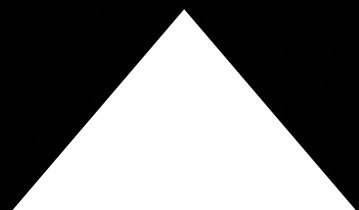
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# BYN BLACKYAK

SUSTAINABLE STRATEGY FOR  
COEXISTENCE |

BASECAMP IN YOUR NEW LIFE, BYN



- Launched a small equipment store 'Dong-jin' in Seoul(1973)
- License contract with GORE for product development and sales (1994)
- Established a BLACKYAK Germany branch (2014)
- Acquired Swiss outdoor product R&D lab 'DNS' (2019)
- Built a new system for domestic PET waste recycle into fashion (2020.7)
- Achieved a 'UN GRP Certification' top grade (2021)
- Achieved 29 awards in ISPO Munich (~2023)
- Outdoor mobile platform 'BAC' with 0.5 million members (~2024)



BLACKYAK®  
KIDS

nbu



1973

2024

# OUR MISSION

## COEXISTENCE OF HUMAN AND NATURE

Nature is the origin, the present and the future of our business. We love her. It is therefore our responsibility to protect and preserve them. At BLACKYAK we take this responsibility very seriously. It is just as important to us that the employees of our producers receive a fair wage and that we help people in need with our own projects. We've all learned a lot about sustainability in recent years - and we're learning more every day. We have already been able to successfully implement some projects. But this is just the beginning.





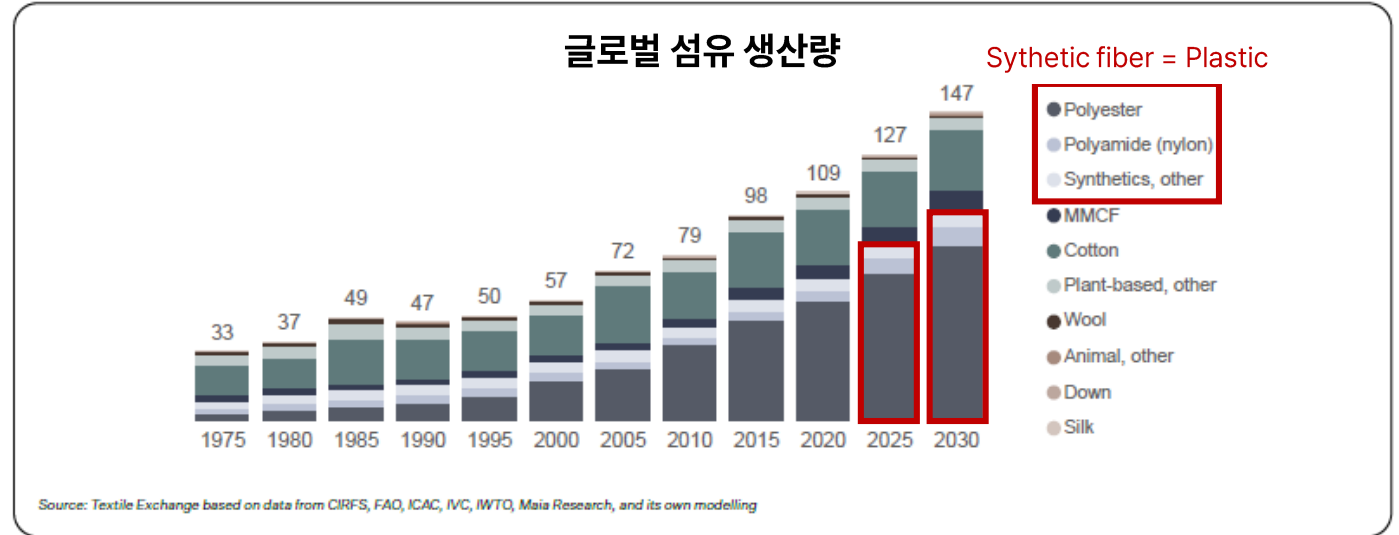
<사진 출처: AFP 연합뉴스>



<사진 출처: Shutterstock>

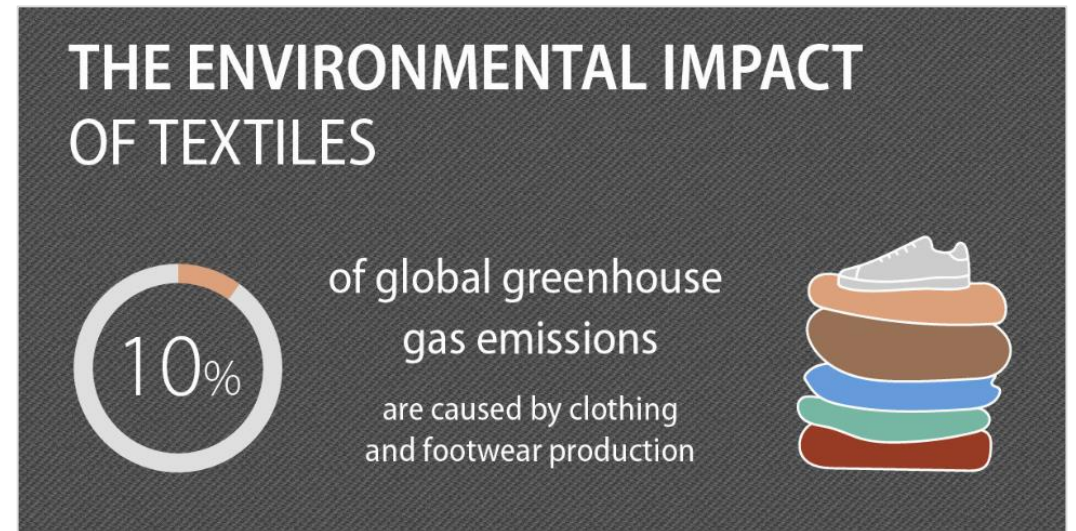
**And plastic wastes together**

# Plastic and Fashion



<패션/섬유 소재 종류별 사용 비율> Textile Exchange 'Preferred Fiber & Materials Market report 2023'

## Responsibility of fashion industry for plastic waste & GHG

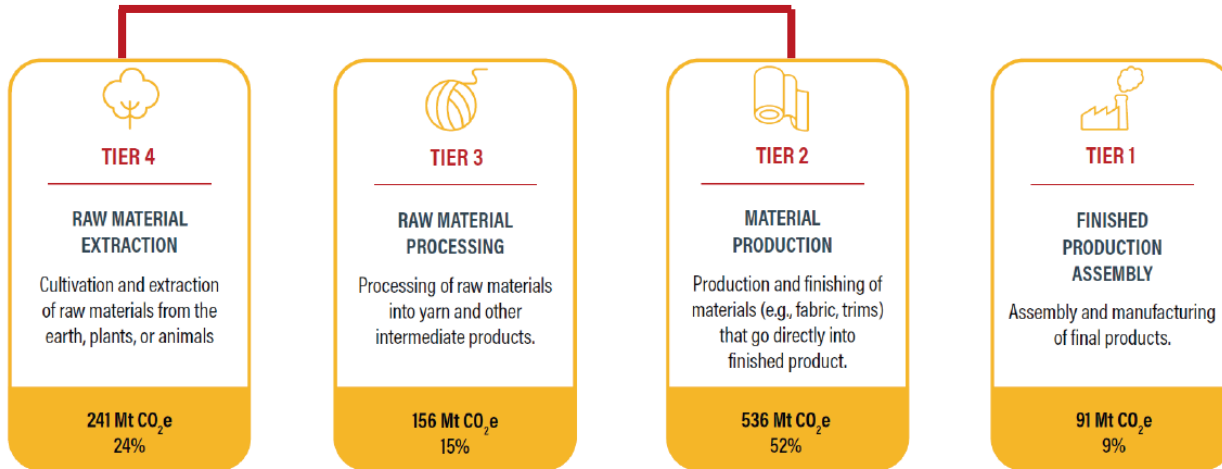


<Suits you - and the planet: Why fashion needs a sustainability revolution> World Economy Forum 2021.Sep. 22

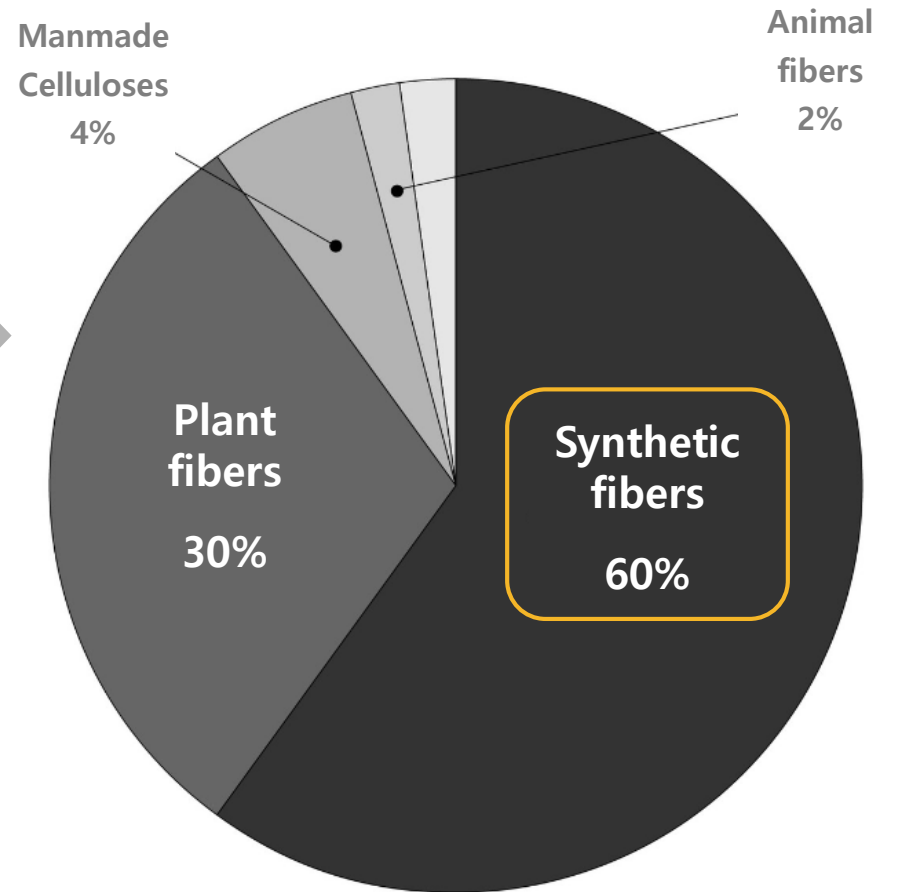
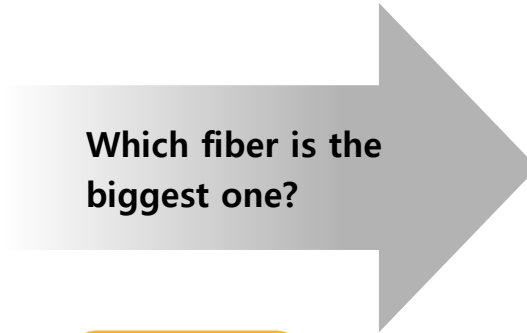
# Plastic and Fashion – Synthetic fiber

70% of CO2 Emission in the fashion industry comes from **textile production.**

The biggest emission  
(Raw material ~ Fabric)



Roadmap to Net Zero: Delivering Science-Based Targets in the Apparel Sector, WRI, 2020

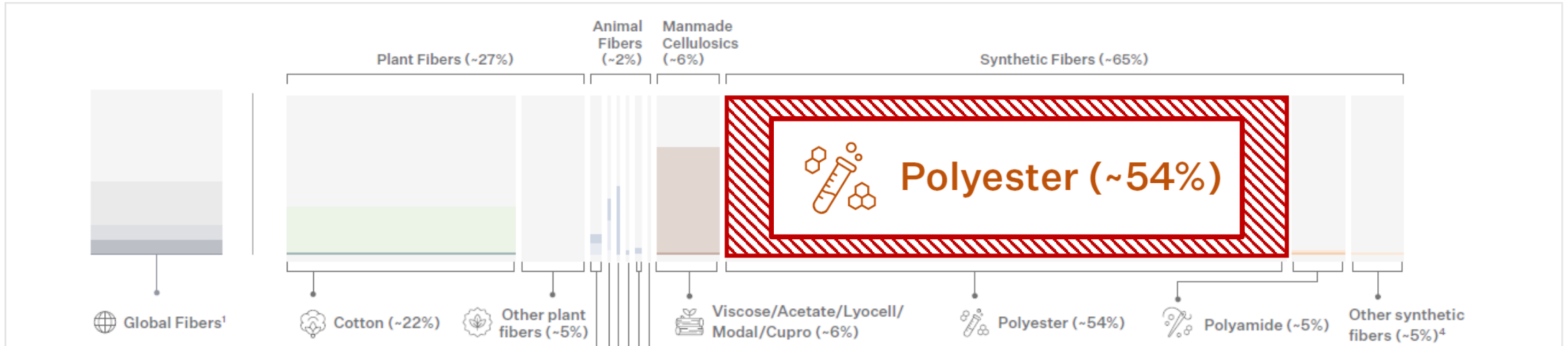


<폴리에스터가 왜 나빠?>, instagram, cqr official

# Plastic and Fashion – Polyester

글로벌 섬유 종류별 사용 비중

<패션/섬유 소재 종류별 사용 비율> Textile Exchange 'Preferred Fiber & Materials Market report 2023'



**Polyester, a dominant textile material**

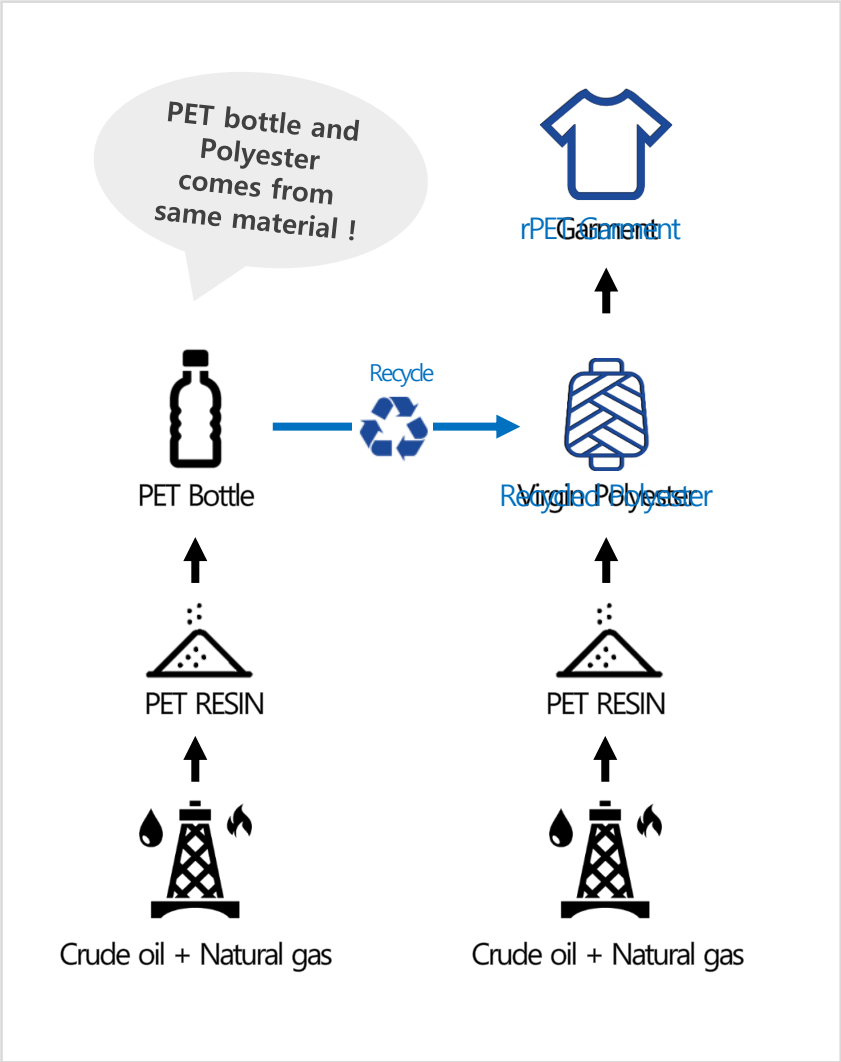


**Develop Sustainable polyester = Bigger impact to the earth**

VIDEO

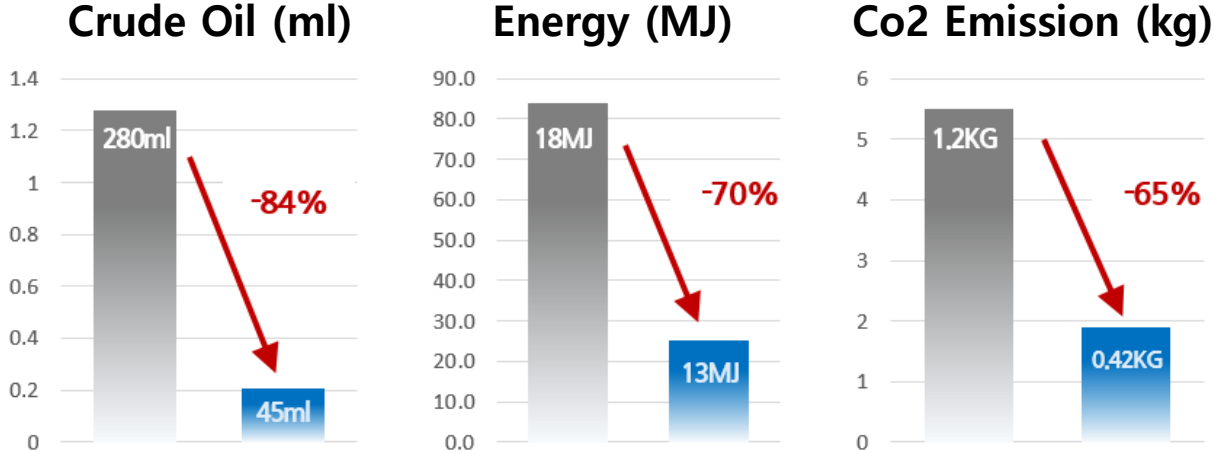


# Solution : Recycled PET



## Requirement for a T shirt

Virgin Recycled



The use of crude oil in plastic making contributes to global warming. Bruno GERVET. 2007. The Stockholm Environment Institute. 2008.



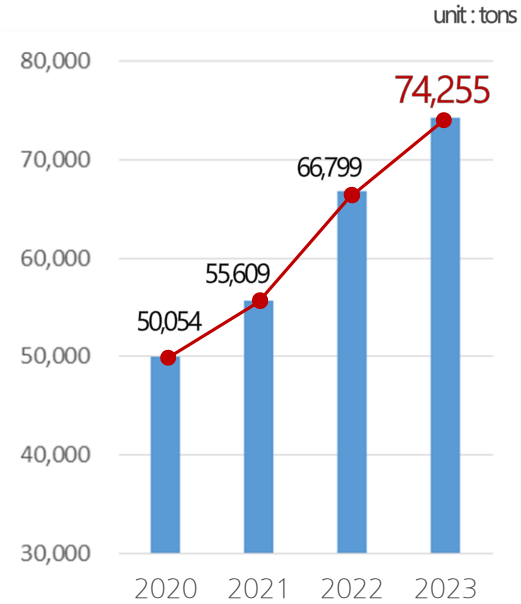
Recycled PET is a great solution for sustainable fashion !

# But, imported recycled material from outside

재활용은 내가 지킨다!!  
나는 분리수거 하는데  
페 페트병을 사온다고?



## Recycled PET filament yarn import



관세청 - 수출입 무역 통계



"Sustainable Fashion!"  
(which recycles neighbor's waste)

# S. Korea plastic waste & PET bottle

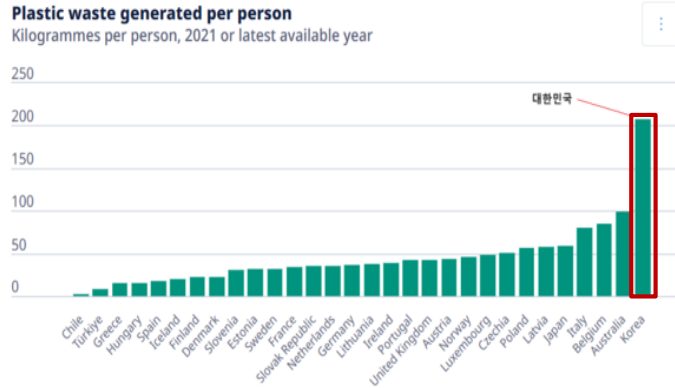


## Environment at a Glance Indicators

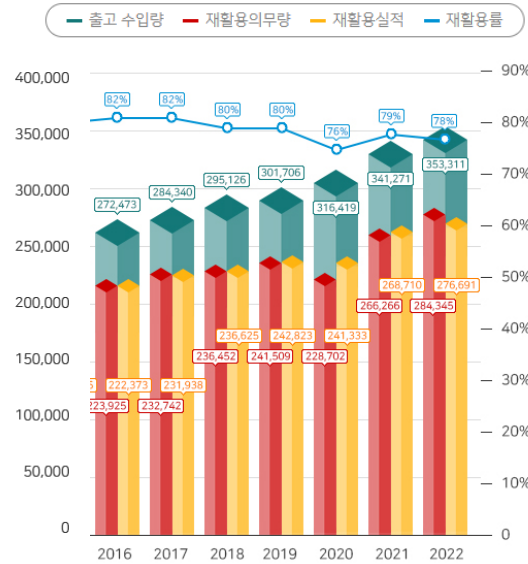


Average amount of plastic waste a year per capita

**S.Korea is the 1st in OECE**



OECD < 한눈에 보는 환경지표 보고서 2024. 6. 28.>



S.Korea produced 350,000 tons of PET bottle in 2022, and 300,000 tons (85%) are recyclable transparent bottles.

1인당 연간 소비량



	PET bottle	플라스틱컵	비닐봉투	플라스틱배달용기
1인당 연간 소비 개수	109 개	102 개	533 개	568 개
1인당 연간 소비량 <sup>2)</sup>	1.6 kg	1.4 kg	10.7 kg	5.3 kg

그린피스 <플라스틱 코리아>. 2023

Transparent (85%)

Colored, Mixed (15%)



한국순환자원유통지원센터. <재활용 의무이행 실적>

# Well begun is half done, but...

Separation



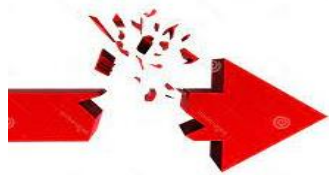
Collection



Recycling

Fashion

# Problems



**No separate discarding and collecting**

# Problems



## People

"Not Recyclable?"

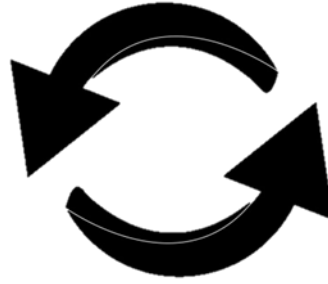
- Complicate to separate
- **One mistake ruin all**
- **Lack of information**
- Avoid recycled garment



## Collector

"Mix up anyway"

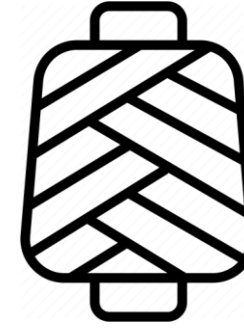
- **No separate collecting system**
- Time & Speed is money
- Managed by private business
- No reason to improve



## Recycle corp.

"No reason to improve"

- **No machine only for K-rPET**
- **No reason to risk taking**
- Not enough demand from buyers
- No reason to improve



## Filament Manufacturer

"Korean rPET quality is not acceptable"

- Not enough demand from buyers
- Stable quality of imported rPET
- **Affordable price of imported rPET**
- No reason to improve



## Fashion Company

"Sustainable Fashion!"  
(which reduce neighbor's waste)

- Limited access to K-rPET fabric
- **Affordable price of imported rPET**
- **Not enough demand from customers**
- Keep eco friendly strategy with imported PET

# Solution #1 – Corporation collected PET

Producer  
Collected  
PET  
recycle



Deliver

"No mixed up at all !"



Mineral  
water corp.

"Collect only clean PET bottle"



Recycle corp.

"New recycle machine only for K-rPET"

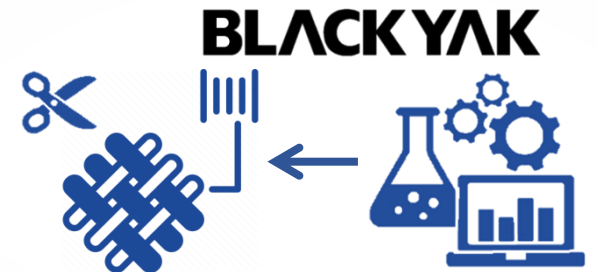


BYN



Filament yarn  
Manufacturer

"High quality K-rPET filament yarn"



R&D + Techinque

"We add function for outdoor condition"



**The 1<sup>st</sup>  
recycled  
K-PET**

**Fashion!**





# Solution #2 – Citizen collected PET

Citizen  
Collected  
PET  
recycle



**Deliver**

"No mixed up at all !"



**Recycle corp.**

"New recycle machine only for K-rPET"



**Filament yarn  
Manufacturer**

"High quality K-rPET filament yarn"



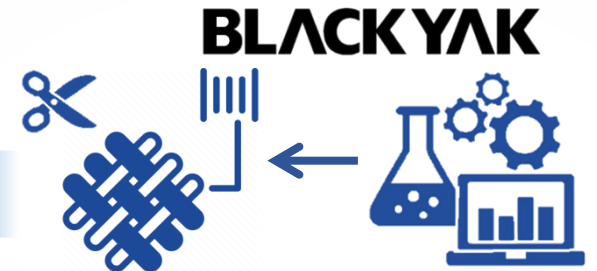
**Citizens**

"Collect only clean PET bottle"

## BYN MISSION



**고품질 자원순환체계 확장**



**BLACKYAK**  
**R&D + Techinque**

"We add function for outdoor condition"

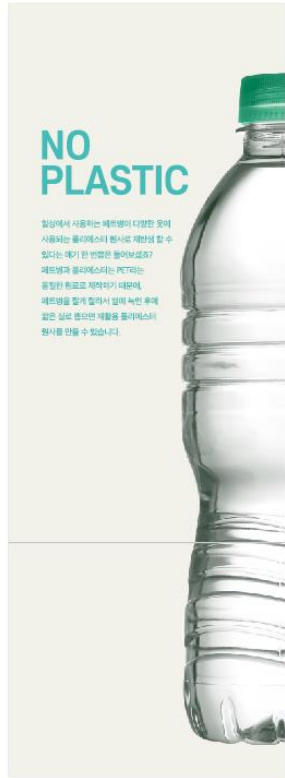
# Solution #3 – PET Shredder

What

Change PET bottle to Flake by crushing

How

Bulk down process is essential for distribution

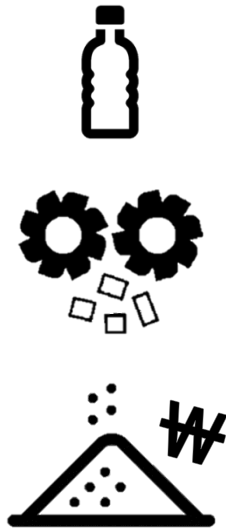


최측면

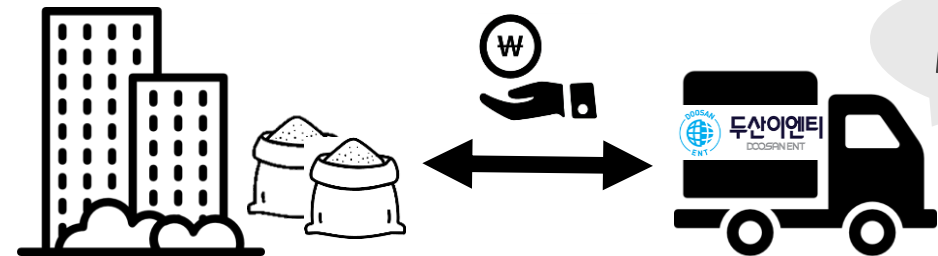


정면

Skip Pressing stage!  
Reduce volume by 10%



- Crush PET bottle into flake.
- Additional space for waste sources + manage efficiently
- Make profit by selling flakes to recycling corporation.

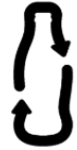


We will buy rPET !

# Achievements (~ June, 2024)

(500ml=15g)  
Recycled PET  
bottles

**73 Million**



73 million PET  
bottles in a row

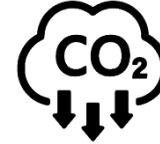


From South Pole  
to North Pole

(rPET LCA data)

Reduced  
Carbon Emissions

**1,406  
Tons**



Reduced Co2

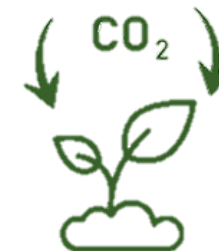


1.2 Million Miles  
driving emissions

Carbon Absorption equivalent to

Planting  
Pine-Trees

**173,000**



Carbon Absorption of  
a 30 years old Pine-tree

**X**

173,000 Trees

**Domestic waste Recycle = Bigger & Better Impact for the planet**

# TOP Quality & Performance



The top performance & sustainable outdoor garment with  
GORE-TEX



TRACHET GTX Jacket #1

# Korean rPET campaign

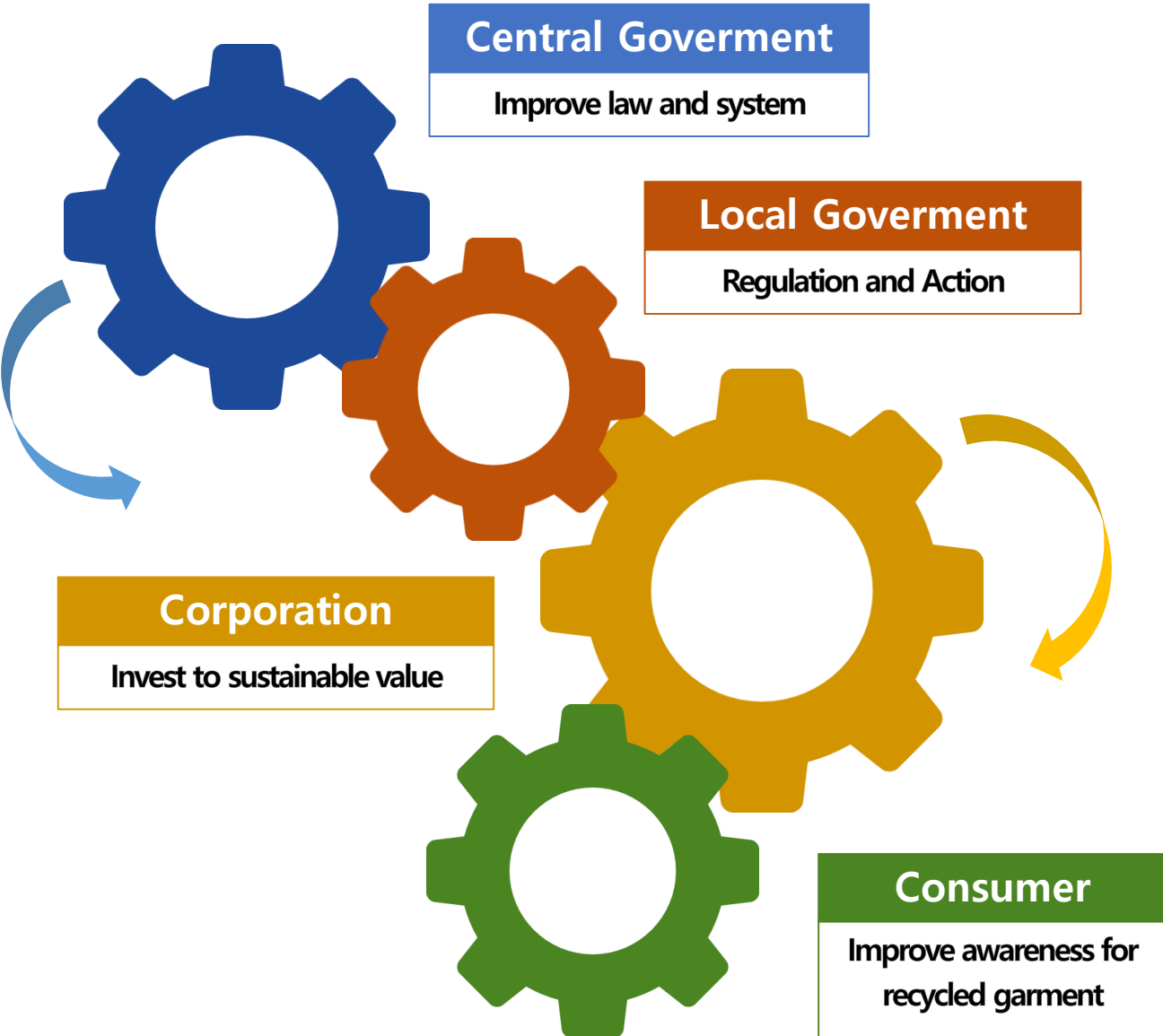
**대한민국 페트병 완전독립운동**

세탁을 위한 제품을 위한 페트병 수입, 이제 막아야 합니다.  
100% 우리 페트병으로 우리 땅을 지킬 수 있게  
'투명페트병 분리 배출'을 시작합니다.

1. PET 병을 재활용합니다
2. PET 칩을 만듭니다
3. PET 칩에 첨가제를 혼합합니다
4. PET 칩을 다시 사용합니다
5. PET 칩을 재활용합니다

우리 삶의 지속가능성을 위해  
국민과 지자체, 정부와 기업 다 함께 만들어 갑니다.  
여러분의 참여를 기다립니다.

BLACKYAK nqu



# Partners



- 천안시
- 아산시
- 당진시
- 서산시
- 공주시
- 보령시
- 계룡시
- 논산시



# Partnership - Government



환경부

Ministry of Environment



해외 VIP 소개 (한정애 前 환경부장관)

- ▶ UN Climate Change Conference (COP26)  
Glasgow, UK, 2021
- ▶ Booth Exhibition in National Pavillion



대한민국 국방부  
Ministry of National Defense



- ▶ Army, Navy, Marine, Air-force, and Police uniforms
- ▶ Same design with sustainable and performance



Local  
Governments



- ▶ Build PET Separate discarding and collecting system
- ▶ Link every single steps in the rPET supply chain
- ▶ Close the loop with r PET uniforms, Sourvenir...

# Partnership - Corps



“원더풀 피플은  
세상을 바꾸고 있어요”



- ▶ Coca-Cola collaborate for ECO Campaign (2021~)
- ▶ Produce campaign rewards for participant
- ▶ Develop a new item with various recycled materials



맥도날드에서 시작된  
페플 플라스틱의  
+ 사회가 인생?



- ▶ Korea McDonald's Crew uniform
- ▶ Recycle plastic wastes come from McDonald's
- ▶ 1 Jacket = Made of 41 PET bottle



STARBUCKS®

#가치위해같이버려요

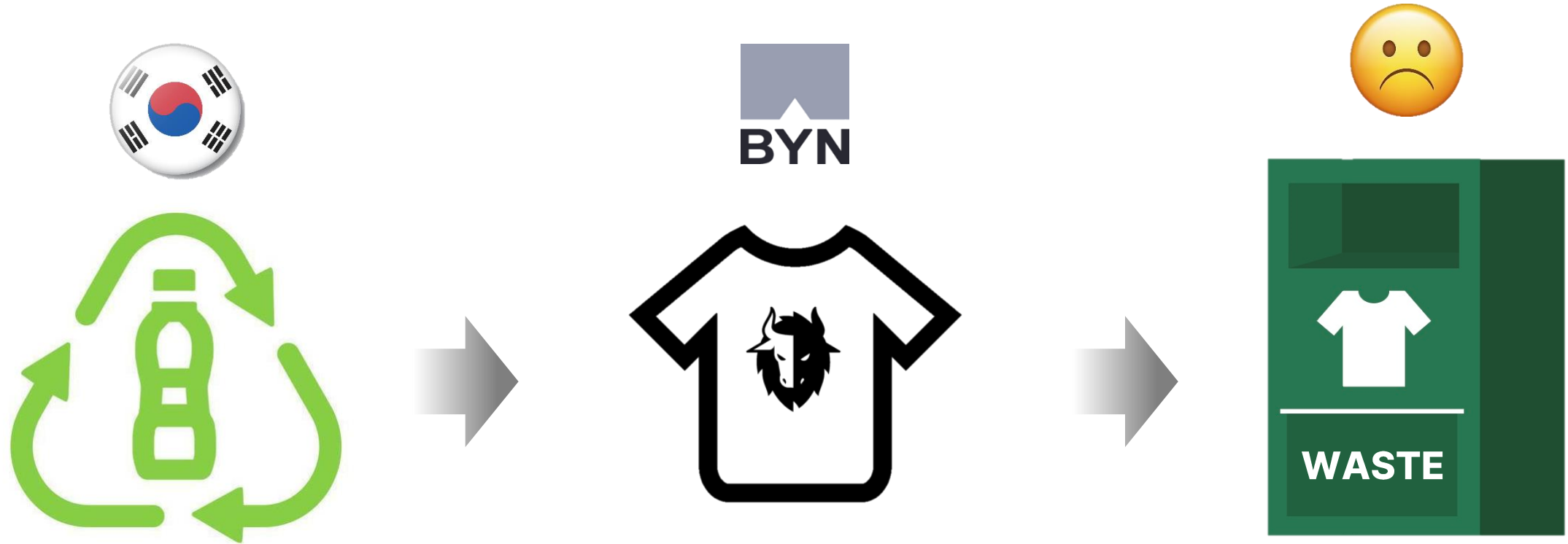
플라스틱의 의미 있는 두 번째 라이프



- ▶ Separate discarding campaign in the store
- ▶ Recycle plastic wastes into the synthetic insulation
- ▶ Bags, cushion, and Pouches



# Next project – Move to circular economy



**Need a solution for closed loop recycling system**

# Next project – Move to circular economy



EUROPEAN  
COMMISSION

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN  
PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL  
COMMITTEE AND THE COMMITTEE OF THE REGIONS

## EU Strategy for Sustainable and Circular Textiles

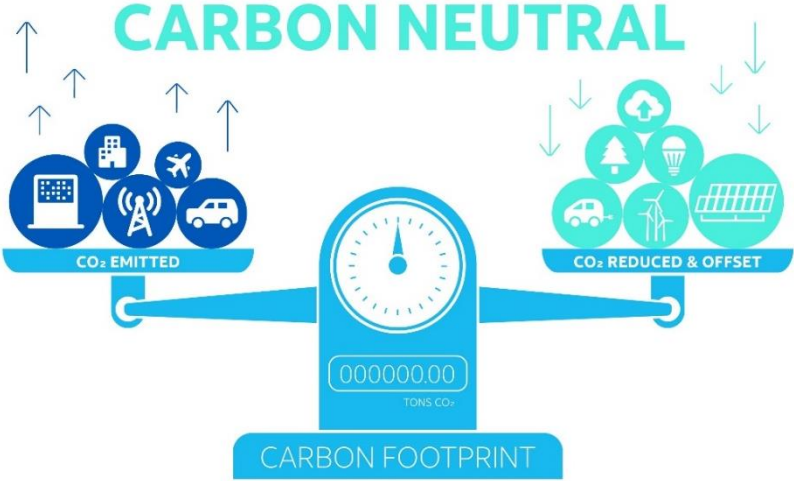
A specific source of growing concern is the **accuracy of green claims made on using recycled plastic polymers in apparel** where these polymers do not come from **fibre-to-fibre recycling**, but in particular from sorted PET bottles. Beyond the risk of misleading consumers, footwear, and in the development of binding product-specific ecodesign requirements. The Commission also encourages businesses to **prioritise their efforts on fibre-to-fibre recycling** and rather make claims on achievements to address this important challenge in closing the loop for textile products.

EU 집행위원회 - 지속가능 및 순환형 섬유 전략



## Fiber to fiber recycle is a next mission for global textile biz

# Conclusion



衣食住

Coexistence of nature and human



# Thanks

BASECAMP IN YOUR NEW LIFE, BYN