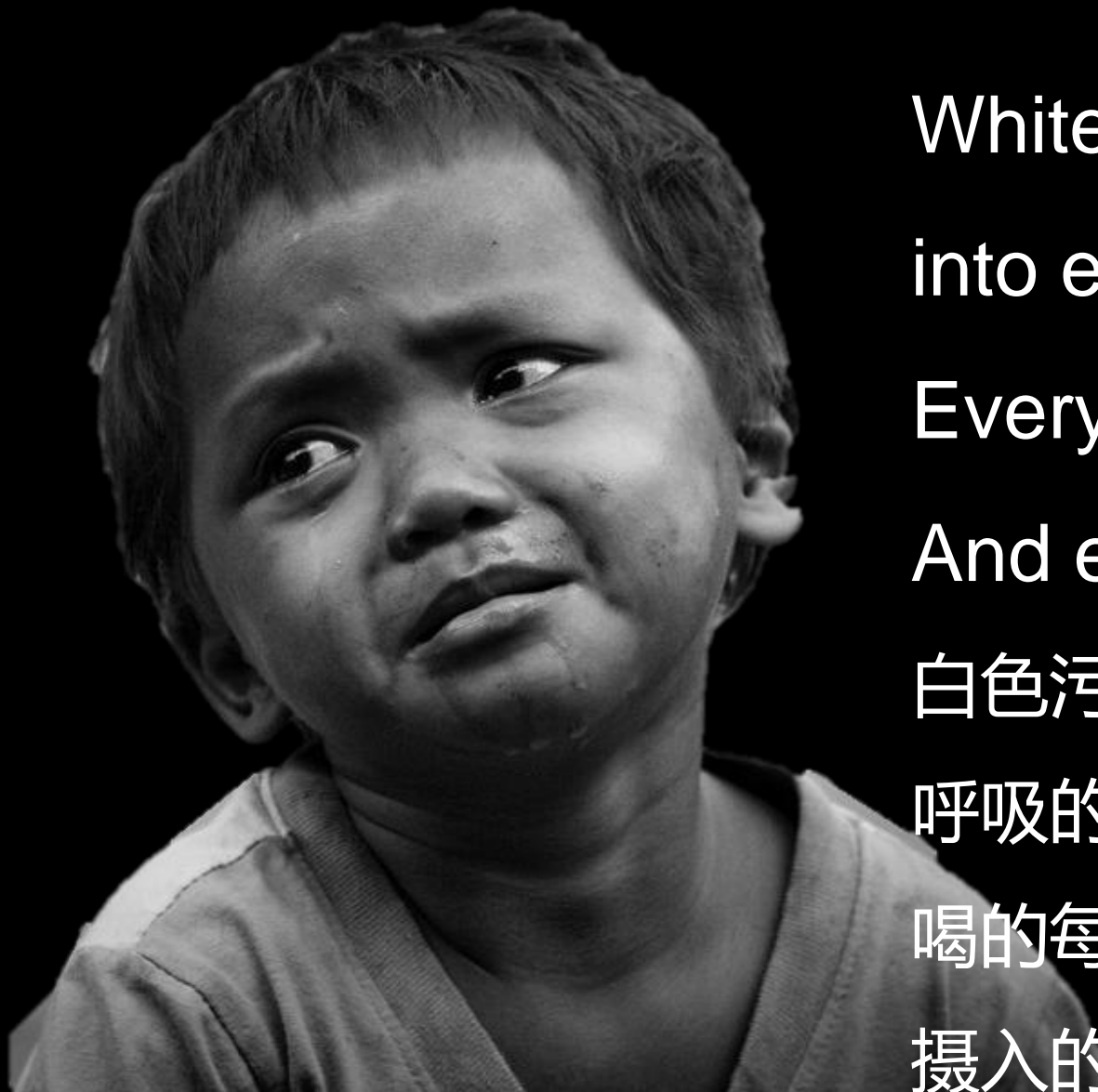




# Stone Plastics:

Starting a Green Revolution in the Plastics Industry

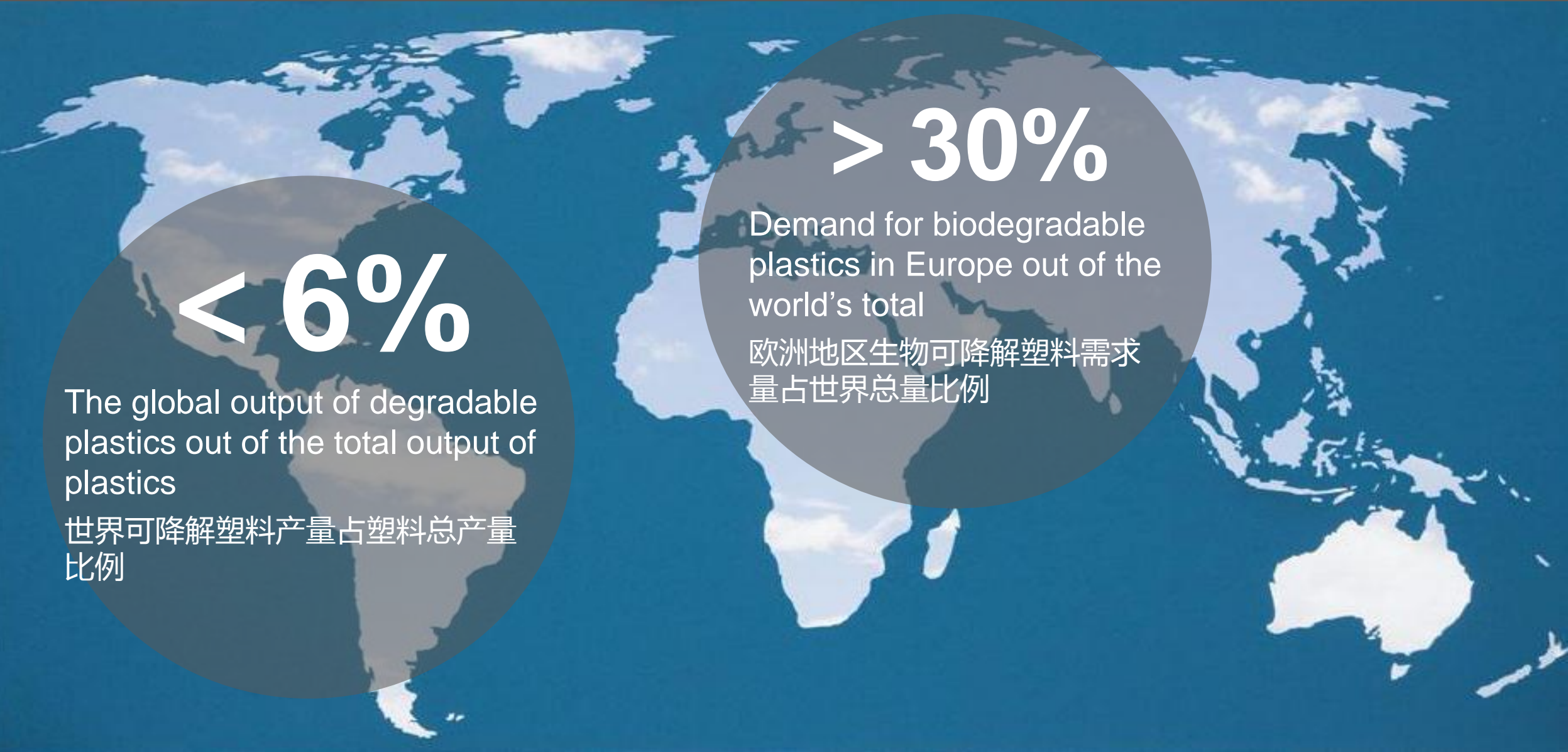
石塑，掀起塑料工业绿色革命



White pollution may have seeped  
into every breath you take,  
Every drop of water you drink,  
And every kind of food you take in...

白色污染可能已经影响到你  
呼吸的每一口空气，  
喝的每一滴水，  
摄入的每一份食物...

High costs have restricted the mass popularization and application of degradable plastics.  
昂贵的价格，限制了可降解塑料的大规模普及应用



< 6%

The global output of degradable plastics out of the total output of plastics

世界可降解塑料产量占塑料总产量比例

> 30%

Demand for biodegradable plastics in Europe out of the world's total

欧洲地区生物可降解塑料需求量占世界总量比例



**MBS** 石头造  
MADE BY STONE

We believe that we can make some changes to make eco-friendly products  
**usable, affordable and readily available.**

我们相信我们能够改变一些事情让环保产品 “用得了、用得起、乐得用”

Inorganic Powder  
(Calcium Carbonate)

无机粉体 ( 碳酸钙 )

**Powder Modification Technology**

粉体改性技术

**Masterbatch Component Ratio Research**

母粒组分配比研究

**Polymer Blending Technology**

高分子共混技术

Synthetic Resins

合成树脂

**70%-90%**

Stone Plastic Masterbatch

MBS石塑母粒



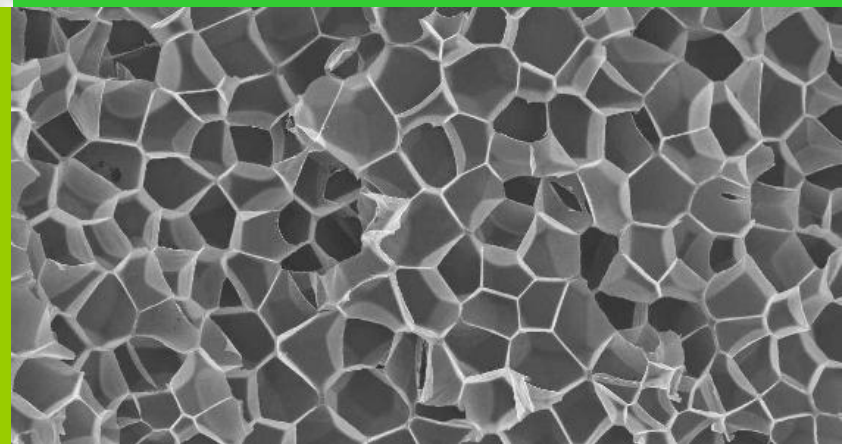
# 1 Polymer Polymerization Technology

高分子聚合技术



# 3 Microporous Materials Technology

材料微孔技术



# 2 Integrative Degradation Technology

集成降解技术

62

Patented  
Technologies

专利技术

8

International  
Certifications

国际认证

4

High-Tech  
Product Titles

高新技术产品称号

# 67%

Stone plastic materials can extensively replace traditional plastics in various fields.

石塑材料可大范围、多领域替代传统塑料



Film Blowing  
吹膜应用



Injection Molding  
注塑应用



Blow Molding  
吹塑应用



Vacuum Forming  
吸塑应用



Casting  
流延应用



Rolling  
压延应用



# Stone Plastic Products

MBS石塑制品

Eco-friendly

高环保

High  
Performance

高性能

Low Cost

低成本



Eco-friendly  
高环保

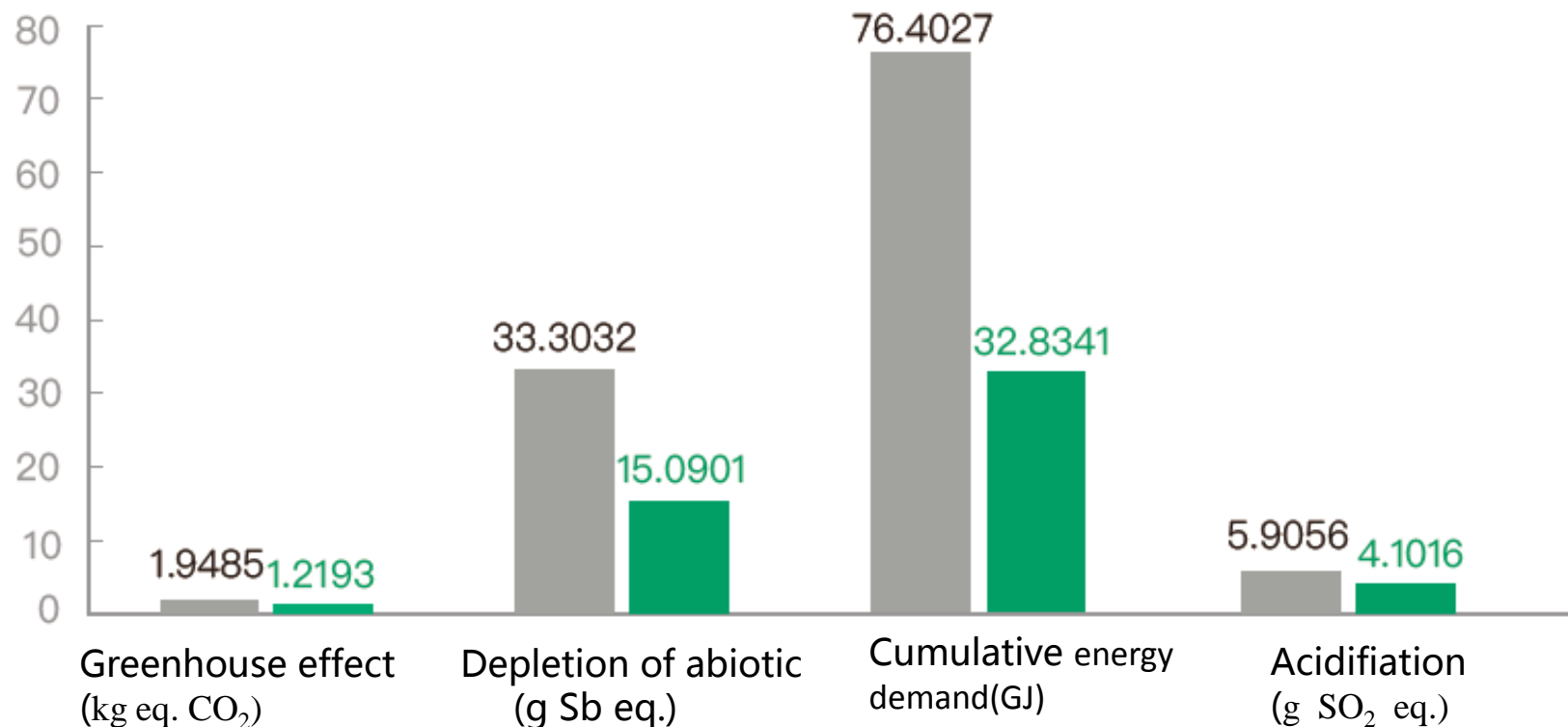
62.6%

Carbon emissions from  
producing 1 kg of stone plastic  
masterbatch compared with  
traditional plastic

生产1千克石塑母粒碳排放量

Based on the ISO14067 Carbon Footprint Standard  
基于ISO14067产品碳足迹国际标准体系

Traditional plastic masterbatch Stone plastic masterbatch





Eco-friendly  
高环保

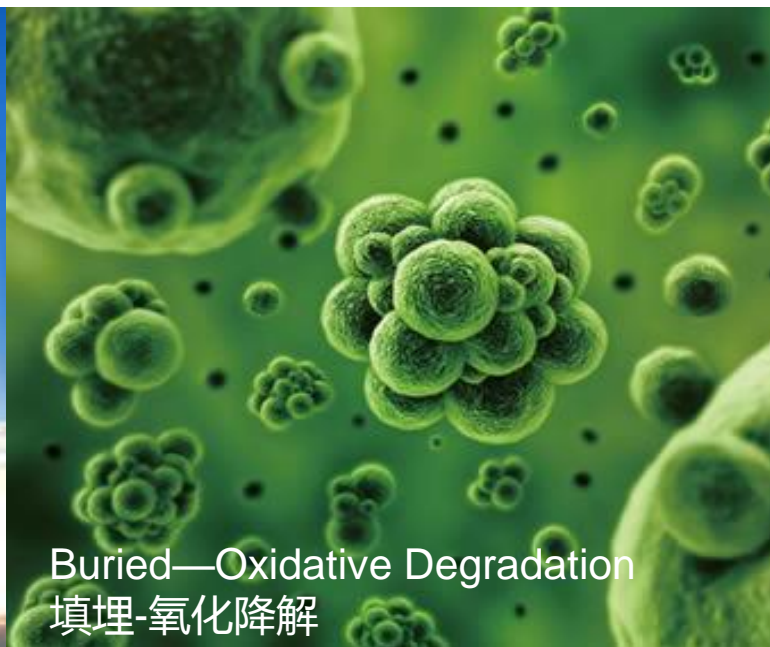
Integrative degradation technology allows stone plastics to be disposed of in various environments, which come from and return to nature.

集成降解技术适应多种处理环境，来源于自然并回归自然

## Degraded into calcium carbonate and returned to the soil



Thrown Away—Light Degradation  
自然遗弃-光降解



Buried—Oxidative Degradation  
填埋-氧化降解



Incinerated—Thermal Oxidative Degradation  
焚烧-热氧降解



## Reduce Air Pollution

Directly incinerated into calcium carbonate without coke adhesion or toxic waste gases

**减少大气污染：**直接焚烧为碳酸钙粉末，不产生结焦粘附，不产生有毒废气



## Reduce Water Pollution

No toxic or hazardous substances will be released during oxygenolysis, greatly reducing the impact on the seawater, organisms and ecosystem

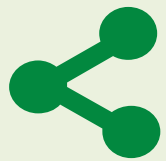
**减少水体污染：**氧化分解过程中不释放有毒有害物质，对海洋水体、生物及生态系统的影响大幅降低



## Reduce Soil Pollution

Returned to environment as calcium carbonate after its usage, with no need for manual recycling. Hence reduces soil pollution

**减少土壤污染：**使用后无需人工收集回收，以碳酸钙形式回归环境，降低土壤污染



High Performance  
高性能

# Stone $\geq$ Petroleum

## 石头 $\geq$ 石油

Micro foaming technology is adopted by MBS, making the density of stone plastic products infinitely close to that of petroleum-based products, and giving stone plastics performance comparable to traditional plastics.

利用微发泡技术使石塑产品密度无限接近石油基类产品，并在性能上与传统塑料比肩

**1.05**

Stone Plastic  
Products

MBS石塑产品



**1.00**

Traditional  
Petroleum-based  
Plastic Products

传统塑料产品



Low Cost  
低成本

Are the stone plastic products expensive?

MBS石塑产品贵吗？

NO!

**Biodegradable Plastics**

生物降解塑料

1.5-2.5

**Traditional Petroleum-Based Plastics**

传统石油基塑料

1

**Stone Plastic Products of MBS**

MBS石塑材料

< 1

↑ 40%

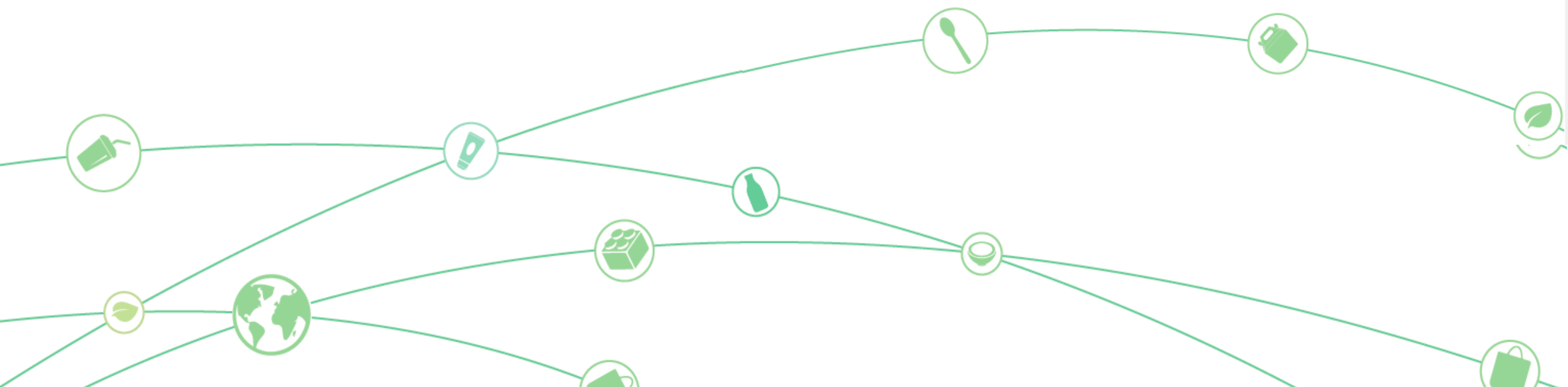
The increase of the plastics processing industry profit.

综合提升塑料加工业约40%的利润




The production process and equipment of stone plastics is **highly compatible** with that of traditional plastics. With **low costs**, stone plastics can promote the eco-friendly transformation and upgrade of the plastics industry **efficiently**.

石塑材料生产工艺设备与传统塑料具有高兼容性,能低成本、高效率推动塑料行业向绿色产能转型升级





An aerial photograph of a lush green lawn. A world map is formed by thousands of small, light-colored stones scattered across the grass. Three people are lying on their backs on the lawn, their bodies positioned over different continents of the stone map. The text is overlaid on a semi-transparent white rectangular area in the center of the image.

MBS convinces that,  
the greatest value of technology should not only benefit the lives of mankind,  
but also contribute to **better harmony between man and nature**,  
and better meeting user demands, so that science and technology can have a  
greater possibility of **benefiting more areas**.

MBS相信，科技成果最大的价值不仅仅是惠及人类生活，还应该使人类与自然环境更加和谐美好；更多地考虑使用者的需求，让绿色科技成果有更大可能性普惠更多地区。



# In the future,

MBS will provide updated and more innovative technologies and solutions, and allow science and technology to play a more important role in the harmonious development of man and nature.

未来MBS将提供更新、更好的创新技术和解决方案，让科技在实现人与自然和谐发展的道路上发挥重要作用

1

Enhance the inorganic powder content in stone plastic products, further improving the product degradability and reducing product costs on the basis of good performance.

提升石塑制品无机粉体含量，保持良好应用性能的同时进一步提高产品降解能力并降低产品成本

2

Combine stone plastic degradation with biodegradation to develop completely degradable materials with high performance and high cost-effectiveness.

将石塑降解和生物降解相结合，形成高性能、高性价比的完全降解材料

3

Increase research on stone plastics application processes and put them into more extensive use.

加强石塑材料应用工艺研究，让石塑材料应用领域更加广泛



Thank you