



NanoMaterial in Europe : A procurement Perspective



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MESSAGE FROM OUR CEO



**EU IMPORTS OF NANOMATERIALS
FROM DIFFERENT COUNTRIES**



**THE EUROPEAN MARKET FOR
NANOMATERIALS**



THE MARKET SHARE



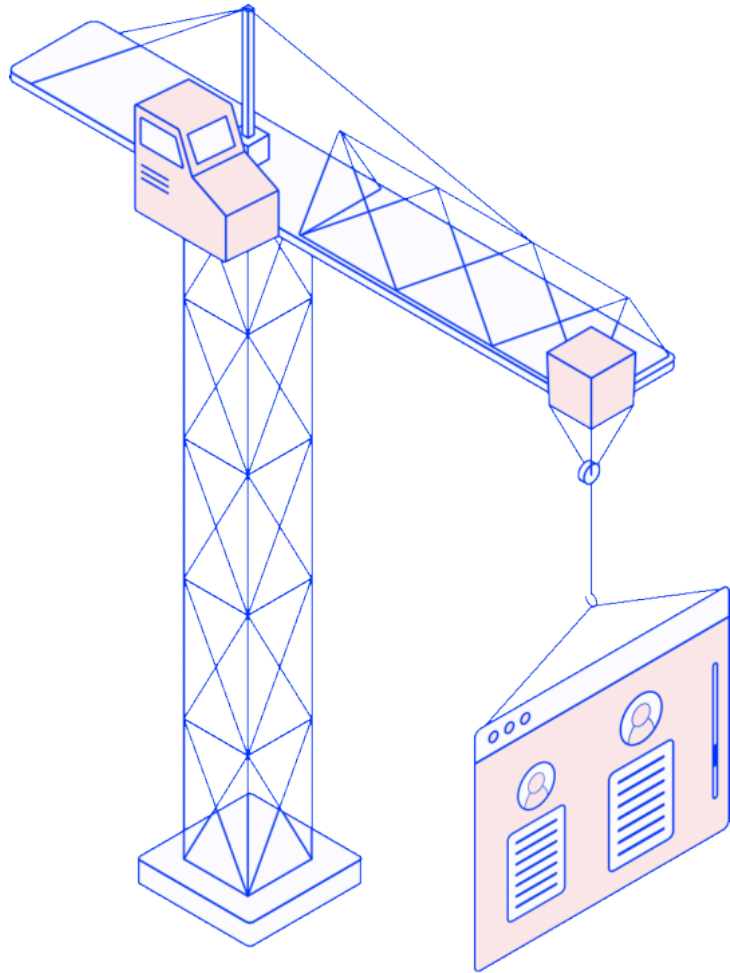
**TYPES OF NANOMATERIALS IMPORTED
FROM OTHER COUNTRIES**



WHY SOSTIE ?



Executive Summary



The European market for nanomaterials is a dynamic and evolving landscape, presenting both opportunities and challenges for companies seeking to procure these innovative materials. Sostie, a leading provider of sustainable **supply chain solutions for nanomaterials**, offers a comprehensive approach to navigating this complex market and ensuring sustainable and ethical sourcing practices.

Key strengths of the European nanomaterials market include a strong **R&D ecosystem**, a comprehensive **regulatory framework**, and a growing **domestic production base**. However, challenges such as reliance on imports, environmental sustainability concerns, and the need for collaboration among stakeholders also exist.

Partnering with **Sostie** provides companies with a competitive advantage in the European nanomaterials market and contributes to a more sustainable future for these transformative materials. By collaborating with Sostie, companies can navigate the complexities of the supply chain, adhere to strict regulatory requirements, and minimize their environmental and social footprint.

Message From Our CEO

THE EUROPEAN MARKET FOR NANOMATERIALS IS A DYNAMIC AND EVOLVING LANDSCAPE, CHARACTERIZED BY A COMPLEX INTERPLAY OF TECHNOLOGICAL ADVANCEMENTS, REGULATORY FRAMEWORKS, AND MARKET DYNAMICS. SOSTIE, A LEADING PROVIDER OF SUSTAINABLE SUPPLY CHAIN SOLUTIONS FOR NANOMATERIALS, IS WELL-POSITIONED TO NAVIGATE THIS INTRICATE ENVIRONMENT AND OFFER ITS CLIENTS COMPREHENSIVE PROCUREMENT STRATEGIES



Michael Hanzl, CEO

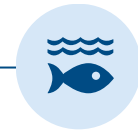
The European Market for Nanomaterials

The European market for nanomaterials is a dynamic and evolving landscape, characterized by a complex interplay of technological advancements, regulatory frameworks, and market dynamics. Sostie, a leading provider of sustainable supply chain solutions for nanomaterials, is well-positioned to navigate this intricate environment and offer its clients comprehensive procurement strategies



R&D EXCELLENCE

Europe's strong R&D ecosystem in nanomaterials has led to a plethora of innovative nanomaterials for diverse applications.



REGULATORY FRAMEWORK

The European Union (EU) has implemented a comprehensive regulatory framework for nanomaterials, including the Nanomaterial Regulation (EU) 2017/780.



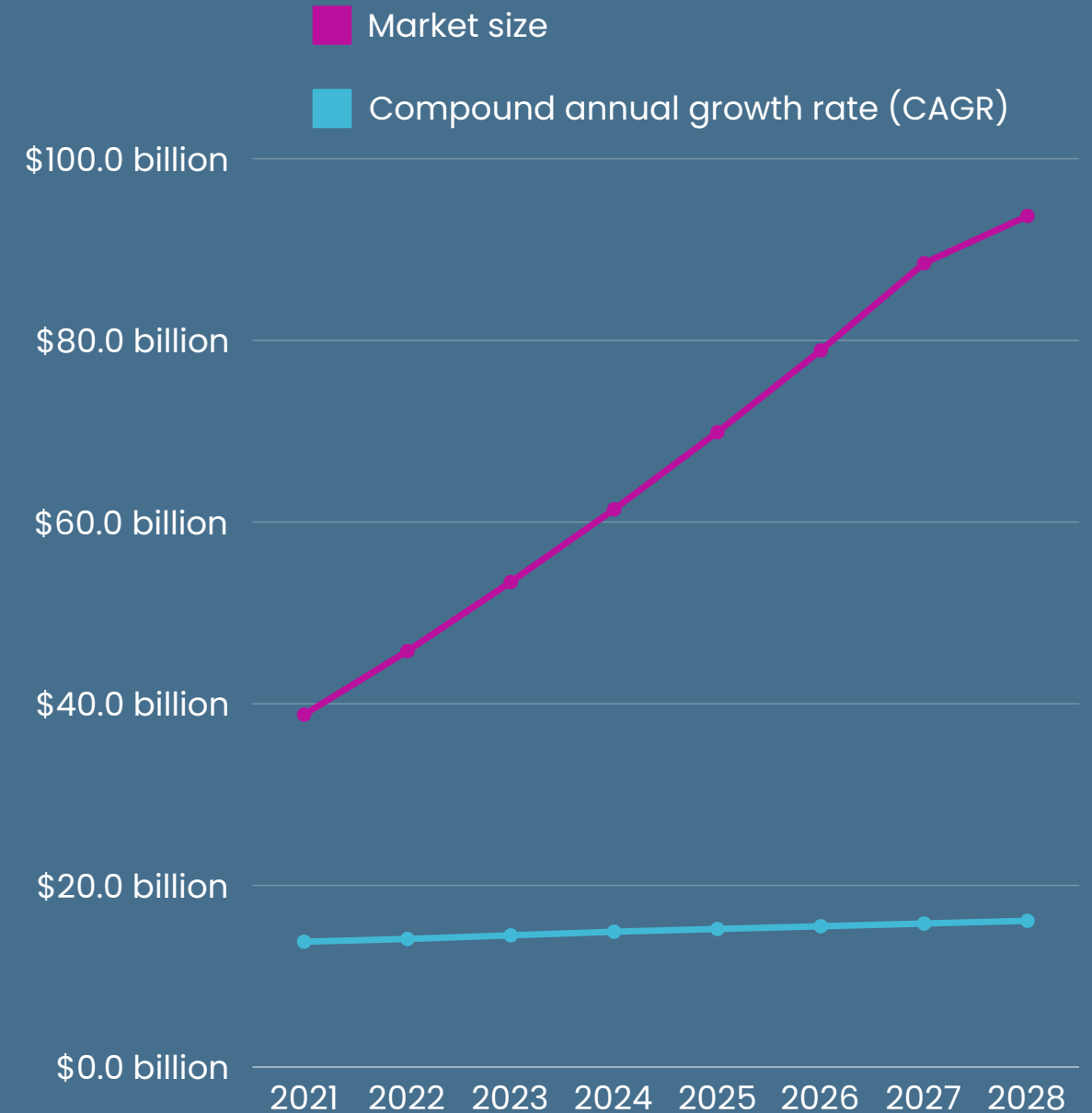
DOMESTIC PRODUCTION

The rise of domestic production is helping to reduce Europe's reliance on imports and strengthen its supply chain resilience.

TYPES OF NANOMATERIALS IMPORTED FROM OTHER COUNTRIES

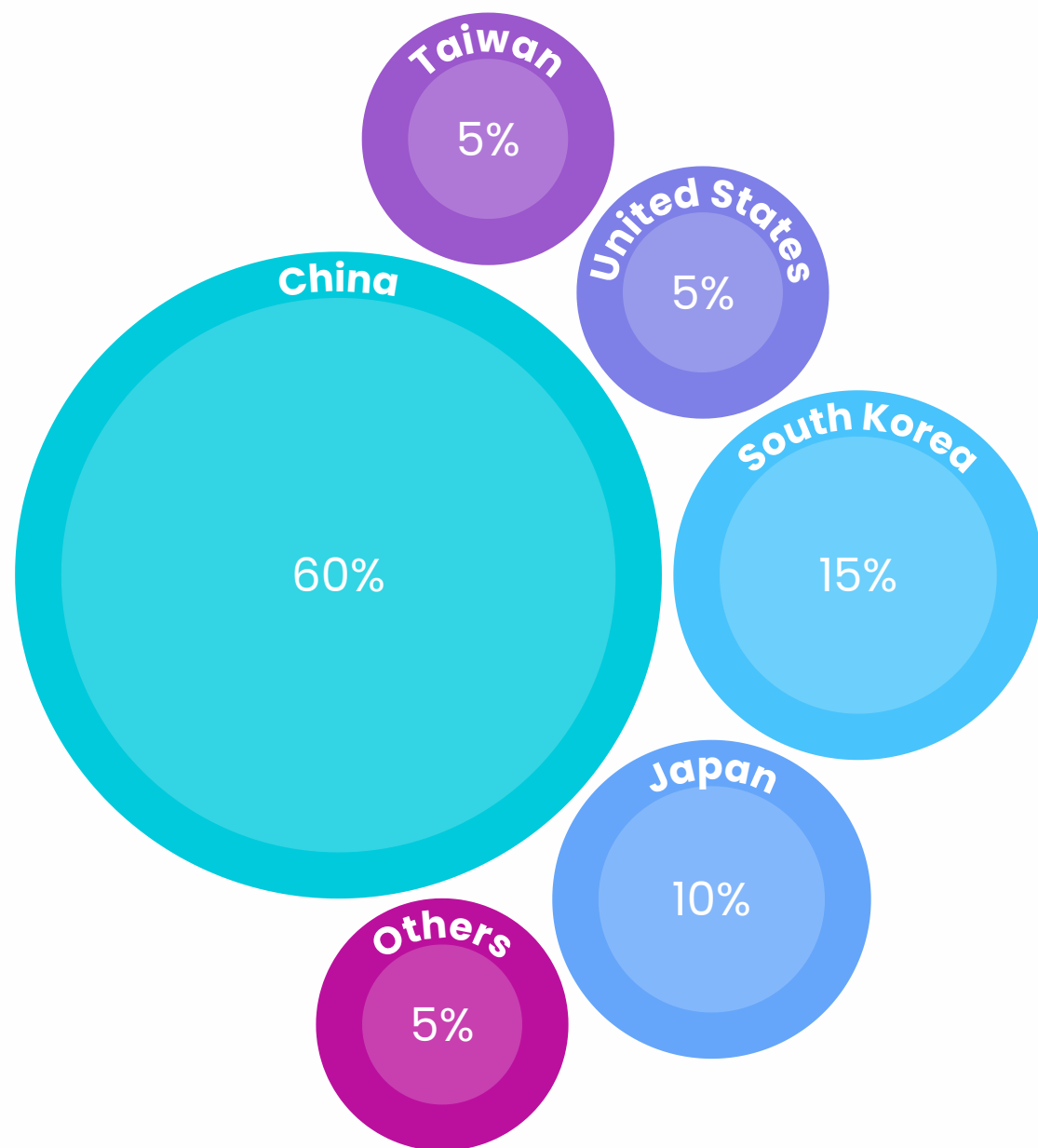
Category	Nanomaterials	Applications
Metal oxides	Titanium dioxide (TiO ₂), Zinc oxide (ZnO), Silicon dioxide (SiO ₂), Aluminum oxide (Al ₂ O ₃), Cerium oxide (CeO ₂), Antimony tin oxide (ATO), Copper oxide (CuO), Bismuth oxide (Bi ₂ O ₃), Cobalt oxide (CoO), Iron oxide (Fe ₃ O ₄ , Fe ₂ O ₃), Magnesium oxide (MgO), Manganese oxide (Mn ₂ O), Zirconium dioxide (ZrO ₂)	Pharmaceuticals, cosmetics, sunscreen, catalysis, electronics
Metals & Quantum Dots (QDs)	Silver (Ag), Gold (Au), Nickel (Ni), Platinum (Pt), Palladium (Pd)	Bioimaging, drug delivery, sensors
Carbon-based NMs	Carbon black, Carbon nanotubes (single, double- or multi-walled), Graphene and graphene oxide, Fullerenes, Graphene Quantum dots	Electronics, composites, energy storage, batteries, solar cells
Dendrimers, polymers	Dendrimers, polymers	Drug delivery, tissue engineering, cosmetics
Nanoclays	Nanoclays	Cosmetics, packaging, catalysis
Nanocellulose	Nanocellulose	Packaging, textiles, composites

Distribution of EU nanomaterials market by type [1]



SOURCE : NANOWERK (2023). EU NANOMATERIALS MARKET TO REACH \$93.7 BILLION BY 2028. RETRIEVED FROM: [HTTPS://WWW.NANOWERK.COM/](https://www.nanowerk.com/)

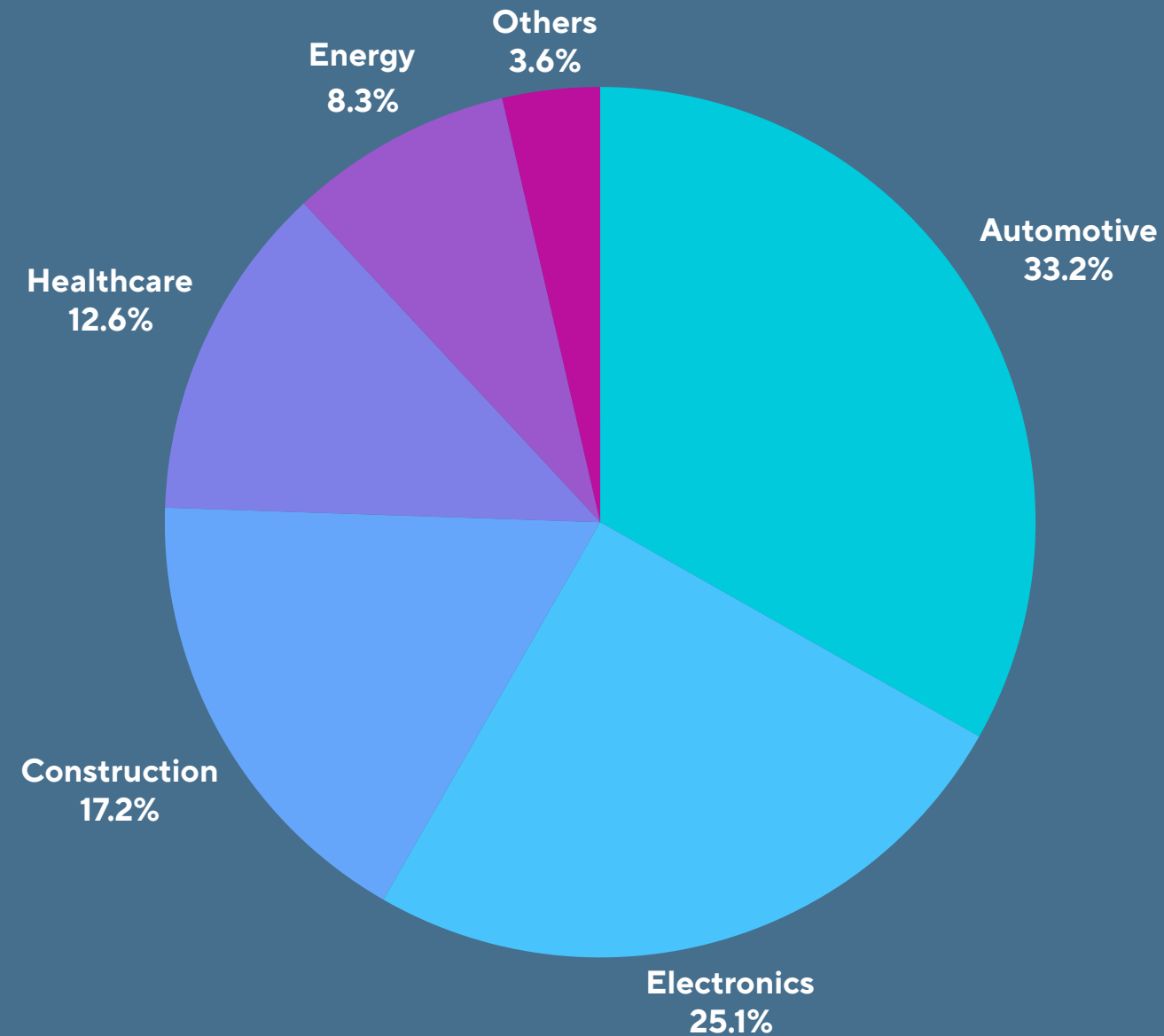
EU imports of nanomaterials from different countries



THE EU IMPORTS A SIGNIFICANT PROPORTION OF ITS NANOMATERIALS FROM CHINA, SOUTH KOREA, AND JAPAN. IN 2021, CHINA ACCOUNTED FOR OVER 60% OF EU IMPORTS OF NANOMATERIALS, WHILE SOUTH KOREA PROVIDED 15% AND JAPAN 10%. THE UNITED STATES AND TAIWAN ALSO SUPPLIED NANOMATERIALS TO THE EU, WITH SHARES OF 5% EACH. THE REMAINING 5% OF EU IMPORTS OF NANOMATERIALS CAME FROM OTHER COUNTRIES.

The Market Share

Nanomaterials are used in a wide variety of applications across various industries, including electronics, healthcare, automotive, and construction. The EU is a major consumer of nanomaterials for these applications, and the demand is expected to continue to grow in the coming years.



Why Sostie ?

Sostie plays a crucial role in helping European companies source, procure, and use nanomaterials responsibly while minimizing their environmental and social footprint. For sustainable supply chain solutions for nanomaterials. Sostie can help buyers in the following ways

1

DUAL SOURCING

We identify and establish strategic partnerships with multiple suppliers to minimize reliance on any single source.

2

INVENTORY OPTIMIZATION

We optimize your inventory levels to balance cost-effectiveness with product availability, ensuring you have the right materials at the right time.

3

SUPPLY CHAIN VISIBILITY

We provide real-time visibility into your supply chain, enabling you to proactively identify and address potential issues.

Acknowledgements

Sostie is a leading provider of sustainable supply chain and procurement services for nanomaterials in Europe. The company's expertise, coupled with its commitment to sustainability, has positioned it as a trusted advisor to European companies seeking to source nanomaterials responsibly. Sostie's services have helped companies reduce their environmental impact, improve their social responsibility performance, and align their nanomaterials procurement practices with their sustainability ambitions.



MICHAEL HANZL

CEO & Founder



DORIS HANZL

CFO



WOLFGANG TRIBEL

Consulting Partner
DACH



PAUL LOCKYER

BD manager - USA



EKATERINA
KRASNOCHAROVA

Business Consultant



MARTA
KARCHKHADZE

Sourcing Specialist

Contact Information



SOSTIE
WE FIND A WAY

SOSTIE INC.
3665 BONITA BEACH ROAD, SUITE 1-3
BONITA SPRINGS, FL 34134
USA

SOSTIE OG
TULLNERSTRASSE 45
A-3425 LANGENLEBARN
SALES@SOSTIE.COM
LITHUANIA

SOSTIE UAB
J. SAVICKIO STR. 4,
LT-01108 VILNIUS,
LITHUANIA

SALES@SOSTIE.COM
WWW.SOSTIE.COM

