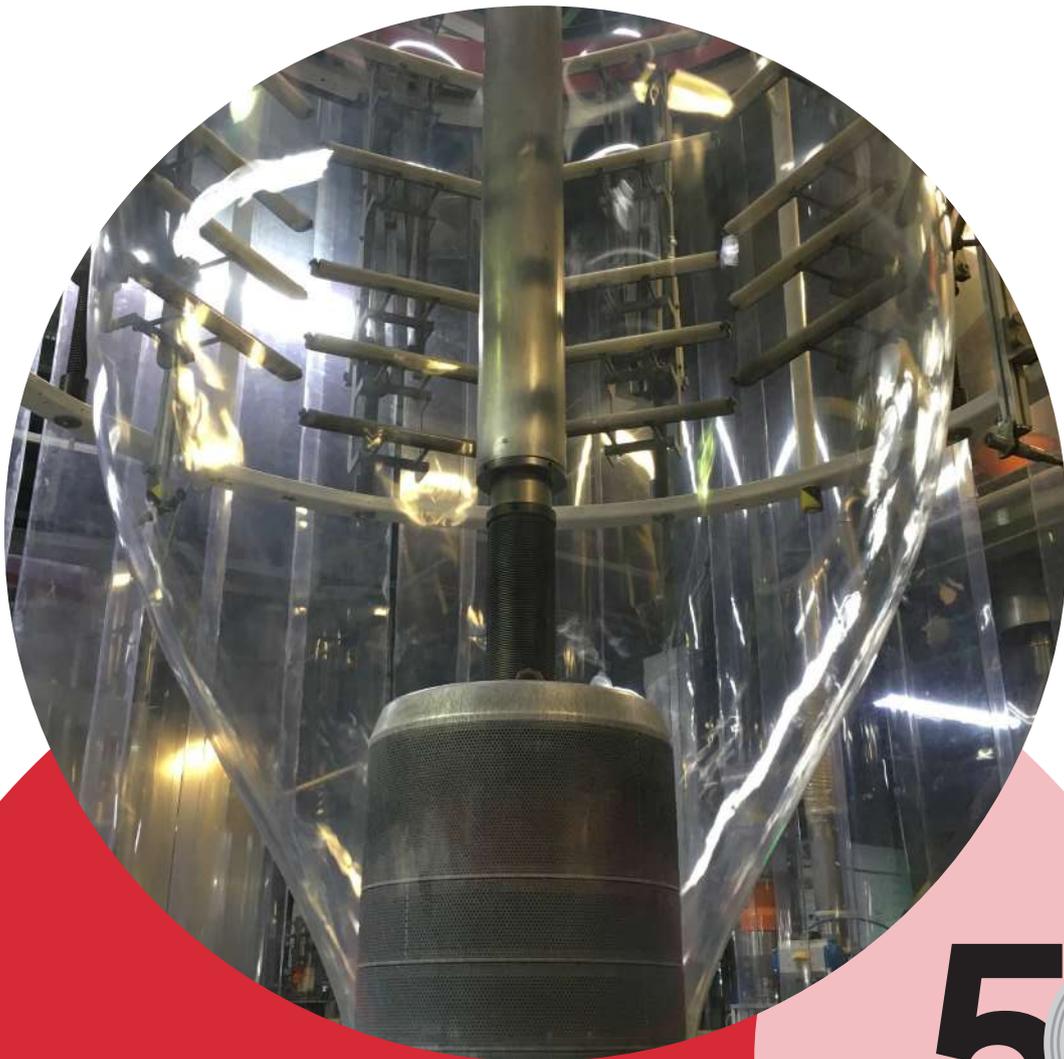




INNOVATIVE PACKAGING SOLUTIONS



ENGLISH



WE ARE GREEN AND FRUITFUL LIKE OUR HILLS

WE ARE TRANSPARENT AND FLEXIBLE LIKE OUR FILMS



ITP Profile



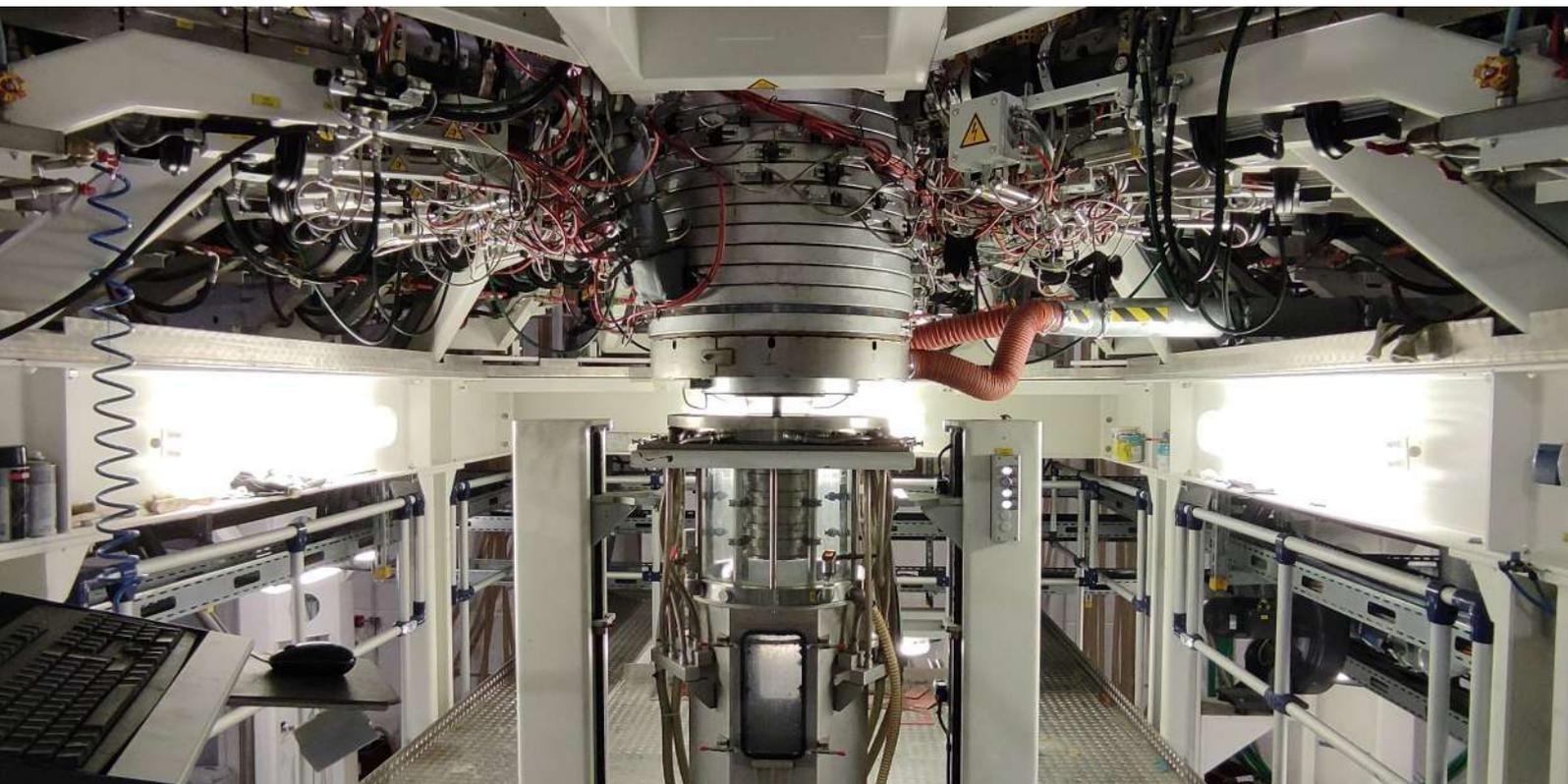
COMPANY PROFILE

ITP - Industria Termoplastica Pavese - is a part of that category of family businesses that form the backbone of Italian industry. Established in 1972, it operates in the plastics sector, producing **polyolefin films for food and industrial packaging**, and for **surface protection**.

The ITP product range meets a number of production requirements: collation shrink films for beverages; industrial films for surface protection; co-extruded flexible films for lamination and thermal lamination for food applications, with different characteristics and features (peelable, sealable, barrier, resealable, anti-fog and anti-UV).

ITP also offers solutions to food producers such as films for the frozen food market, including **compostable versions**, and Clearpack® **vacuum skin films**.

ITP plant is located in Bosnasco, in the province of Pavia (Italy). It covers a total area of 100,000 m² with 250 skilled employees. Production capacity exceeds 40,000 tonnes per year, of which over 45% is exported. ITP lately **invested 40 million euros in a brand new production site**, featuring latest generation cutting-edge technology, allowing meaningful film thicknesses reduction, while still ensuring high standard performances.



COMPETITIVE FEATURES

Product innovation is our key competitive feature. Since the company's foundation in 1972, our commitment is to create innovative packaging that responds promptly to change and evolution: from market trends to new social and ethical awareness, to environmental protection and reducing pollution. Every product is thus an effective, sustainable solution to the varying needs of a changing world.

To achieve this, ITP has developed solid partnerships with Universities, laboratories, and scientific institutions in Italy and throughout the world. Over recent years, our commitment has produced 14 patents and underpins the strategic course of the company.

ITP's management system has achieved third-party certifications in accordance with the main international standards; we've also obtained product certifications concerning **Compostability** (TÜV Austria), **Recyclability** (Cyclos-HTP) and **Sustainability** (ISCC Plus and PSV).

In our new plant we have recently implemented a **disruptive technology** for the production of **coextruded bi-oriented barrier films**, which allows the consolidation of ITP in the food flexible packaging market.

We are able to produce new lines of **lid films**, **bottoms** for thermoforming with **reduced thickness**, **shrink bags**; these are packages that extend the shelf life of the products, thus counteracting the problem of food waste.



RESEARCH & DEVELOPMENT

This is the keystone of our business model. Our R&D department is housed in an 800 m² laboratory, where a team of technical experts – all qualified chemicals and engineers – are involved in using sophisticated measuring and inspection equipment to monitor the quality of the raw materials and the

compliance of the finished products with the agreed standards, as well as the performance achieved by **new prototypes**.

ITP works with Italian Universities and with the National Council of Research. The presence of a **pilot blown extrusion line** greatly facilitates the study of new materials and the development of new formulations. Recently, ITP has invested 40 million euros in the evolution of food packaging.

The result of this constant activity is the deposit of 14 patents. The main research areas concern renewable raw materials; compostable and biodegradable raw materials; the reduction of film thickness intended for packaging; foodstuff protection to increase its shelf-life and consequent reduction in waste.

We also participate in working groups for the **evaluation of NIAS** (non-intentionally added substances) and Regulatory Affairs Group in the Plastic Rubber Industry Association.

Individual quality plans are issued for each customer, to ensure that the

ITP Profile



SUSTAINABILITY

Management System in ITP is certified by external bodies in accordance with the main international standards.

We have also achieved various **product certifications**: OK Compost (TÜV Austria) for product compostability, PSV (Second Life Plastic) for the use of post-consumer recycled raw material and Cyclos HTP for recyclability.

We have been awarded the ECOVADIS 2022 Silver Medal for corporate social sustainability performance.

ITP is also a proud member of Operation Clean Sweep® for stringent containment measures for plastic pellets within its facility to prevent them from ending up in waterways.

A special attention to our collaborators is brought about with an intense and continuous training program regarding **health and safety at work** but also vision and values of the company, **strategy** and future projects, sustainability, **knowledge of processes**, organised flows and products. Important aspects of the link with the Territory are the active participation of ITP in projects with small entrepreneurs, adherence to structured initiatives in favor of the territory, of which we are also spokesmen and participation in decisions as advisory members, making our direct contribution.

In 2022 ITP became a **Benefit Company** and published its first **Sustainability Report** relating to the performance of the year 2021.

ITP Profile

HISTORY & CERTIFICATION PATH

1973 With only 8 employees, ITP begins the production of single-layer shrink films for the ceramic, brick and beverage sectors

1990s Birth of the technology of co-extruded films, up to 7 layers, suitable for the packaging and protection of fresh food

2000s The first important collaborations are with Universities for the development of new high-tech films, with reduced thickness

2023 With over 250 employees and the new production plant with triple bubble line, ITP expands its offer

1972 ITP was born in the north of Italy from the initiative of a group of entrepreneurs who believed in the industrial development of plastic materials

1980s Development of the ClearSkinPack®, adhesive films on cardboard, films for lamination and protective films for surfaces

1993 – ISO 9002 Quality in manufacturing and assistance of product

2002: ISO 14001 Care for the environment

2003 – OHSAS 18001 Workers' health and safety

2004 – ISO 9001 Quality in process and products

2013 – BRC / IOP Standard of quality for food safety

2015 – OK COMPOST 100% compostable products

2016 – Decree 231/2001 Responsibilities of directors

2018 – Ethical Code

2019: PSV Products with post-consumer materials

2020 ITP is an increasingly sustainable and innovative company leading the green packaging revolution

2020 – Cyclos HTP 100% recyclable products

2021

BRC Mod.10 Prevention of dispersion of plastic waste in the environment

ISCC Sustainability of the products throughout the supply chain

ECOVADIS Silver Medal for Corporate Social Sustainability performance

PRS Green Label Controlled reuse and shared usage of pallets CP type

**2022 – Benefit company
Sustainability Report**

2023 – LCA Study

ITP Profile

EQUIPMENT



extrusion lines
(up to 7 layers)

Triple Bubble[®]
extrusion line



flexographic
printing facilities

HP Indigo
digital printing facility



rewinders and
cleanroom

regeneration
plants



ITP IN THE WORLD



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ITP Technology



DIGITAL PRINTING

ITP can provide high-profile printing solutions with HP Indigo technology, which provides the flexibility to meet any need.

HP Indigo is the most sustainable and efficient solution for on-demand flexible packaging production: printing the highest quality and value, with a non-stop production system that meets the needs of established as well as emerging brands.

THE BENEFITS OF DIGITAL PRINTING:

- Small/very small print runs
- No plant costs
- Maximum product customization including:
 - ▶ Variable data (letters or numbers)
 - ▶ Collage (images or photos that change from pack to pack)
 - ▶ Mosaic
 - ▶ Anti-fraud / anti-counterfeiting / brand protectors
- Banding combinations even with different repeat range





TRIFLEX

ITP introduces the innovative Triflex film line, created with a state-of-the-art production system in Italy for the extrusion of **bi-oriented barrier film**, ushering in the new era of food packaging:

- **Reduced thicknesses of up to 30%**
- **Excellent mechanical properties in both directions**
- **Excellent optical properties**
- **Controlled shrinkage**

Choosing products from the Triflex line means securing the highest quality available on the market, thanks to the advanced technology and know-how gained by ITP over 50 years in the field of plastic film production using the blown film extrusion system.





Thickness reduced by 30%

ITP film is ultra-thin while maintaining unchanged mechanical and optical properties. Thus, we reduce the input of plastic into the market.



Coextruded monofilm

Replacing the laminated film with the new coextruded film results in a thinner and lighter film. Lower environmental contribution.



No use of glues

The Triple Bubble® production line makes it possible to produce multilayer films without lamination, thus avoiding the use of glues.



Reduced storage space

The 30% reduction in thickness also brings benefits in terms of logistics, due to the reduction in space requirements.



Reduced downtime

Given the same bulk, these coils count 30 percent more product, reducing interruptions to replace them.



Savings on transportation costs

A product packed with lighter packaging ensures the reduction of shipping charges for commercialization.

This family of bioriented barrier films has three basic characteristics:

- **MONOFILM:** Triflex films are coextruded, so they do not need to be laminated to acquire special mechanical and functional characteristics.
- **LIGHT:** Reduced thickness of 30% compared with laminated films makes Triflex products lighter and space-saving.
- **BRILLIANT:** The 3-bubble extrusion makes Triflex film extremely bright, for optimal performance in food packaging.

Triflex films are both ecologically and economically **sustainable** because they eliminate the lamination step; the reduction in film thickness results in less material consumption and therefore a reduced carbon footprint.

The space required for storage by the customer decreases; given the lower weight, transportation costs are reduced as is the environmental contribution compared to traditional film.

Triflex products are ideal for **vacuum food packaging**; this application, typical of films produced with this technology, combines high transparency with good thermoformability and high puncture resistance.

This preservation technique extends the shelf life of cold cuts, meat, fish, poultry, cheese, and rice and is considered the packaging of the future, in line with the needs to **reduce food waste**.

FILMS FOR FLEXIBLE PACKAGING



Triflex T-Lid
Film para tapa superior de bandejas

Innovative coextruded film for top lidding applications, without lamination on biaxially oriented films. Triple Bubble® production results in high stiffness and toughness, as well as excellent transparency and gloss.

Added with an anti-fog additive, it seals plastic trays, preventing food spoilage through its oxygen barrier. Its great transparency improves product presentation on the shelf.

Ideal for ready meals, fresh pasta, meat, fish and seafood. Its ultra-thin thickness and light weight reduces carbon footprint and logistics costs.

Triflex T-ShrinkPack
Thermoforming barrier film

Coextruded high-barrier, shrinkable, and thermoformable multilayer film.

Designed to replace rigid trays.

Features excellent mechanical properties, high shrinkage and relevant optical properties.

Ideal for meat, poultry, fish, cheese.

Being very thin and lightweight, it reduces package weight, optimizing logistics costs and reducing carbon footprint.



FreezyPeel
Peelable film for frozen food

An innovative easy-open film for frozen food packaging that is a combination of convenience, safety and sustainability. FreezyPeel film bags can be opened by simply pulling the two flaps, as with potato chip packets, offering unprecedented accessibility to frozen food.

The unique and innovative formulation provides the necessary resistance to low temperatures and a surface gloss that enhances printed images.

Monomaterial coextruded film, 100% PE, recyclable.



FOOD

FILMS FOR FLEXIBLE PACKAGING



ClearSkinPack® *Invisible Vacuum Skin*

It's a skinpack film to pack every kind of fresh food. This high barrier coextruded film, with easy opening system, is "invisible" on the shelf of stores.

Thanks to the high barrier, the sustainable film protects the food products, providing longer shelf life to help to fight food waste. Suitable for packaging of cheese, frozen food, cold cuts, meat and fish, crustaceans, and ready meals. Available in a microwavable and printable version, even onto cardboard.

Deepflex *Bottom for thermoforming*

With a flexible and mono-material structure, this film allows the creation of a full PE package.

Ideal for meat, fish and cured meats.

The disappearance of incompatible polymers and the presence of EVOH of less than 5%, make the product fully recyclable, with identification coding of the material LDPE 4.



RecyBariflex® *Monomaterial film for packaging*

A single PE replaces PET/PE and BOPP/PE laminates. 100% monomaterial PE for doypack, pouches, stand-up pouches and top for trays in direct contact with food.

High barrier to oxygen and water vapor, with EVOH <5% in weight.

It has obtained the certificate for recyclability of the packaging by Cyclos Institute.

Digital printing allows to have customized packaging because it is perfect for small runs.



FILMS FOR FLEXIBLE PACKAGING



Combioflex®
Compostable film

Fully compostable film, according to the European EN13432 standard and DIN-CERTCO certified. This monofilm seals onto itself and is very resistant to high temperatures, for the packaging of frozen food.

It can be laminated to other compostable materials, such as regenerated cellulose, PLA or paper. "Ok Compost" certification by TÜV Austria.

ProBar®
Film for rice

Film for vacuum and modified atmosphere applications, suitable for VFFS packaging. It has high impermeability to gases.

In the vacuum version it resists puncturing thanks to its high thickness. It's characterised by high weldability even in the presence of residues.

This film is printable in flexography, or with digital technology, ideal for limited lots.



Cerealflex
Film for cereals

Monofilm easy to open but with tenacious sealing.

Specific for the packaging of breakfast cereals, in doypacks and bags.

In the high oxygen barrier version, it prevents the oxidation of foods such as dried fruit and chocolate, and external contaminants - MOSH and MOAH - from coming into contact with the packaged product.

Printable in flexography, or with digital technology, ideal for limited lots.



FOOD

FILMS FOR RIGID PACKAGING



PaperG *Liner film for Paperboard or cellulose fiber trays*

The liner film for thermal lamination to cardboard trays is recommended for food contact of cheeses, fresh meats, processed meats, prepared products, frozen, chilled, salads and fruit.

Cardboard tray replaces common plastic bottoms. The final packaging boasts at least 80% less plastic.

Zero waste during the thermal lamination process to the cardboard below.

Serie F® *Film for thermal-lamination*

They comprise a wide range of self-adhesive products for permanent adhesion of semi-rigid sheets (PVC, PET, PP, PS, EPS), aimed primarily at production of food packaging containers.

The barrier, non-barrier and peelable versions meet the storage and practicality needs required by the end consumer. These films are produced through co-extrusion of polyolefinic resins. Neither glues nor solvents are used for production.



PACK REVOLUTION BY ITP

ITP wants to express the transparency and commitment to sustainability that have inspired its research since its origins. Therefore we created the Pack Revolution brand, which identifies a series of highly sustainable products, which combine the protection of the environment with the optimal and safe preservation of food.

Mono-material, compostable, recyclable, ultra-thin films with a high PCR content: our sustainable films are all certified and pave the way for the green renaissance of packaging.

FOOD

FILMS FOR LAMINATION



Sealflex® - Peelflex® - Bariflex®

Sealflex® - They seal to the bottom even in presence of contaminants (oil, dust, ecc.).

Peelflex® - Easy-open version onto different supports, including PE, PVC, APET, PS and PP. Designed so as not to interfere with the perfect integrity of the package.

Bariflex® - With high barrier that can be adapted according to need. Available also in anti-UV version and antifog. Oxygen permeable films lengthen the shelf life of fresh food.

Re-sealflex® *Reclosable film*

Films for lamination to bi-oriented supports.
Peelable and reclosable films suited for the sealing onto PE, PET and PS trays.
They allow the user to conveniently reclose the package up to 10 times after the first opening, preventing the remaining food to be wasted or the use of additional packaging material to protect it.



ProSeal® *Film for rice*

Film for lamination, suitable for VFFS packaging.
High weldability even in the presence of residues; it's available in peelable version.
This film is printable in flexography, or with digital technology, ideal for limited lots.



FILMS FOR INDUSTRIAL APPLICATIONS



Surface protection **Masking film**

Coextruded film created to protect surfaces and avoid damage during subsequent handling and processing. It's easy to apply and remove: no glue residue on the surface after film removal.

It has excellent mechanical properties and thermoformability.

Main applications: Plastic sheets (PMMA, PC, ABS, etc.), Steel and metals, HPL Laminates, Glass.

Coloured and printable versions are available.

ClearSkinPack® **Industrial skin film**

It is a film for the packaging of objects with different weights, on a cardboard support. High transparency and exposure for the packaged object at the point of sale enables optimal viewing of the object content.

These films are also particularly strong and thus suitable for the protection of sharp objects such as screwdrivers, knives, etc.



Adhesive & Coating film **Film for PE labels and coating**

With our advanced technology, we can obtain qualitative characteristics of uniformity of thickness, necessary in the production of self-adhesive labels.

We use high-rigidity coextruded polyethylene to produce transparent, white, pearly labels with metallic effect, matt effect, or paper effect.

Film for Coating is a high dimensional stability PE film suitable for undergoing the coating process with glues and/silicones. It can be made in various colors, printed, and added with UV protection.



COLLATION

SHRINK BUNDLING FILMS



Film for tissue

Mono and bi-oriented shrink films for use in industrial packaging processes of paper products, home furnishings, detergents and industrial automotive.

Our Ultraterm films have excellent optical and shrinkage properties. Their structural rigidity and mechanical strength are such that they minimize the risk of breakage during transport and handling,.

Flexographic printing in up to 10 colors improves visibility and brand identification at the point of sale.

Film for beverage

Line that includes mono and bi-oriented shrink films for industrial packaging processes of mineral water and soft drinks.

Our Ultraterm films have excellent optical and shrinkage properties. Their structural rigidity and mechanical strength are such that they minimize the risk of breakage during transport and handling,

Flexographic printing in up to 10 colors improves visibility and brand identification at the point of sale.

Suitable for beverages, rice, cereals, canned goods, coffee, pet food, milk and oil.



RecyTermoPCR® PCR shrink film

Sustainable film for secondary applications with $\geq 50\%$ post-consumer recycled.

Suitable for beverages, rice, cereals, canned food, coffee, pet food, milk, and oil.

High resistance and perfect shrinking.

100% recyclable heat-shrinking film containing at least 50% post-consumer recycled (PCR).

Printable version also for photographic images.





**OUR EXPERTS CAN CREATE THE RIGHT FILM
FOR YOUR SPECIFIC NEEDS AND MARKET APPLICATIONS.
LET'S TALK ABOUT YOUR REQUIREMENTS!**





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