





Who we are

Founded in 1999, PHSE is today a market leader providing GDP compliant time-critical and temperature-sensitive transport solutions to the pharmaceutical, biotech and life sciences industry, serving the hospital, home care and clinical research channels. PHSE is proud of its clear market leadership position in Italy. It ranks internationally among the few providers specialising exclusively in the healthcare segment and in the management of worldwide shipments by air, land and sea of



pharmaceuticals, biotech, clinical trials and biological samples, at any required temperature conditions.

The year 2020 marks an important step in the development of PHSE's international platform, which counts 4 acquisitions between 2021 and 2023: TEK Freight (UK), Rapida Time and Temperature (India), Duimex (Italy), Bio Transportes (Brazil), Air Plus and Bio Pharma Logistics (Italy).



24

Years of time and temperature sensitive healthcare logistics



over

606

Direct employees



over

475

Owned vehicles



33

Full GDP compliant Hubs and Transit Points



over

1ml

Annual shipments, over 90% cool



7

International locations in Italy, UK, USA, Brazil, India, Singapore, Spain



The global specialist in time and temperature sensitive supply chain solutions



Worldwide presence and expertise

GDP compliant time critical and temperature sensitive logistics solutions to the pharmaceutical, biotech and life sciences industry.

01. Punctuality and strict adherence to storage temperatures

Fast transit times similar to traditional express courier services.

02. Exclusive use of own personnel and vehicles

Limited use of sub-contractors.

03. Active and sustainable cold chain

Our model does not require the use of isothermal packaging for secondary packaging or data loggers for temperature tracking.

04. Real time temperature & location monitoring

Real-time visibility of temperature and shipment status.

05. Multi-temperature management

Temperature-controlled transport:

- ◆ From -80°C to -180°C cryogenic
- ◆ -20°C frozen
- ◆ +2°C to +8°C refrigerated
- ◆ +15°C to +25°C ambient temperature

06. ESG Sustainability Report

Transparent reporting of results on environmental, social and governance impacts.

Our strength



Pharmaceuticals

Pharmaceuticals, biotechnology products, clinical trials, vaccines, generic drugs, over-the-counter products, lifesaving products, veterinary medicines, radiopharmaceuticals.



Active pharmaceutical ingredients (API)

Pharmacologically active raw materials.



Biological samples

Biological materials, organs, blood, plasma, stem cells, bone marrow stem cells, embryos, oocytes.



Cell and gene therapies

Advanced and precision therapies.



Investigational medicinal product (IMP)

Medicinal products still in clinical development.



Diagnostics product and medical devices

Medical devices, in vitro diagnostic (IVD) products and reagents.

We deliver health and improve lives

#AnyWhere #OnTime #WithLove



Last mile distribution

PHSE is today a global specialist in healthcare active temperature controlled distribution, focusing on hospital, home and clinical laboratory channels. More recently, it has developed a strong focus on home deliveries and direct-to-patient services for clinical trials.

Customs services and trade compliance advisory

PHSE is able to offer customers comprehensive brokerage services and trade compliance advice and support. It has significant experience managing brokerage services in the biopharma/healthcare sector and offers customers the assurance that their brokerage operations will be managed in a compliant and efficient manner.

Air freight

PHSE, which recently renewed its prestigious IATA CEIV PHARMA certification until 2025, moves and ships high-value pharmaceuticals, clinical trials, biopharmaceuticals, APIs or radiopharmaceuticals around the world by air in accordance with the prescribed guidelines.

Dangerous goods management

PHSE is a specialist logistics provider with significant expertise in the safe and compliant management of dangerous goods UN Classes 2 to 9, including toxic, flammable, corrosive (chemicals), infectious (biological products) and radioactive (radiopharmaceuticals) substances, via multiple modes, including road, air and sea transport.

Road freight

Road freight is a core capability of PHSE. The company provides GDP compliant temperature controlled domestic and international road transport services on a worldwide basis for all load configurations from small parcels to pallets size shipments, from vans to large articulated trucks, and temperatures from -30°C to +25°C.

Radiopharmaceutical logistics

PHSE is a global leader in the transportation of radiopharmaceuticals for therapeutic and diagnostic uses. Customers rely on PHSE to provide compliant services on a worldwide basis that ensure that shipments arrive on-time and within specification.

Our solutions

100% Cool

Sea freight

Thanks to the well-established experience in refrigerated sea freight, collaboration with the most reliable and efficient ocean carriers, and extensive global network for port-to-port and door-to-door services, PHSE guarantees the cold chain and thus the quality and integrity of the product, from origin to destination.

Packaging & technology

PHSE has always been a pioneer in offering biopharmaceutical logistics services. This is where INNOPLUS' activities come in. The company, a subsidiary of PHSE, specialises in the development of packaging solutions for the cold chain and smart trackers for monitoring temperature-sensitive products.

Innoplus has recently enhanced its portfolio with the launch of the LIFE+ reusable containers validated by TÜV according to the recognised ISTA 7D standard cycle.





Biological samples logistics

Management of sensitive biological shipments transport including organs for donation, blood, cord blood, plasma, stem cells and bone marrow stem cells.



Clinical trial logistics

PHSE offers effective logistical support at every stage of a clinical trial, from pre-clinical to first-in-man / Phases I to IV.



Home Care Direct-to-Patient

Service of hospital drugs at patients' homes and direct-to/from-patient solutions to support clinical trials to enable patients to participate in trials around the globe.



Urgent deliveries

PHSE urgent and expedited transport service is designed to efficiently resolve emergency situations that may occur on a daily basis.



Dedicated transport

Dedicated transports, handled exclusively for a customer, allow for any type of temperature-controlled and non-temperature-controlled shipment.



Cell & gene therapy

Complete 360 degree solution from initial patient collection, manufacturing logistics, shipping of AMTPs to infusion sites.

Our special services



Quality & compliance

In a complex sector subject to strict regulations and oriented towards customer satisfaction, PHSE has set as a fundamental pillar the implementation of an integrated digitised Quality/Health and Safety/Environment system (e-QMS), including a unified consistently applied and global Quality Management System(QMS) which allows a wide range of technologically advanced and "green" solutions to be proposed and monitored throughout the temperature-controlled supply chain, guaranteeing product integrity and traceability.

The PHSE team works daily in the field to ensure the monitoring and implementation of "best practices" in all domestic and international transportation , global air and ocean freight forwarding, dangerous goods transport, home delivery and primary transport activities.

Constant training

Constant training of internal resources is a focal point for PHSE's business success, in order to standardise processes and apply contingency plans or customer communications in accordance with the stipulated Quality Agreements.

The fleet

The vehicle fleet, which is constantly being renewed with "green" and "thermally" innovative solutions, consists of vehicles equipped with ATP certificate, bulkhead, dual refrigeration engine, printer, satellite connection for security and temperature management.

PHSE has obtained GDP 2013, ISO 9001 and 14001, TAPA TSR, CEIV certifications and Authorization to D.L. 219.

Confirming its constant commitment to Quality/Health and Safety/Environment, PHSE has also obtained the certification issued by the Life Sciences Logistic Council with a high rating in the areas of: Governance, GDP, 231 and Sustainable Development.

Unique company software

PHSE, in addition to offering GDP-compliant transport, has a unique company software - validated by an external company qualified according to GAMP 5 and FDA CFR 21 part 11 - for monitoring and tracking temperature and shipments of its global network. In addition, for foreign transports it uses its own networks (UK, USA, Singapore, India, Brazil) or qualified suppliers experienced in Life Science transports.



For PHSE, innovation has always been a key aspect. Since its establishment, it has always invested considerable resources in equipping its specialised transport solutions with a high level of responsiveness and control. With this in mind, the company's IT department has developed a GDP-certified digital tracking platform in-house that includes the components of:

**Temperature
Live Control**

**GPS Live
Control**

Logistics 4.0



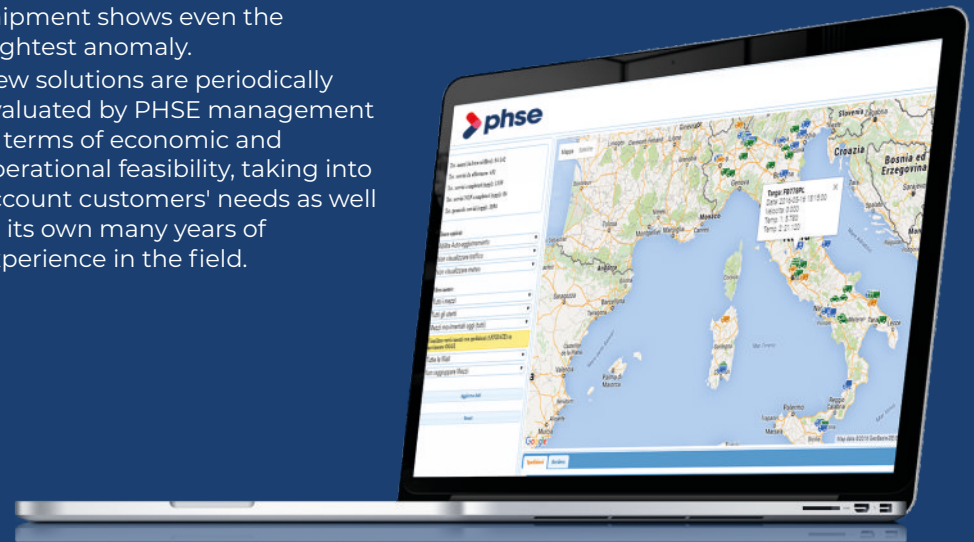
PHSE Real-time Tracking Solution

This monitoring system allows PHSE customers to check the status, temperature and location of the shipment in real time.

PHSE Real-time Control Tower

The Control Tower, operating worldwide, monitors all shipment data to ensure total control of the entire vehicle fleet: temperature, position of each vehicle, opening/closing doors, warnings, average speed, kilometres travelled, fuel consumption, driver's name. Through this technology, prompt action can be taken in the event that a shipment shows even the slightest anomaly.

New solutions are periodically evaluated by PHSE management in terms of economic and operational feasibility, taking into account customers' needs as well as its own many years of experience in the field.





The innovative RFID technology solution is used in phse's hubs and transit points to improve the visibility of customers' distribution processes.



- It provides accurate tracking of the location and temperature of each individual package from collection to delivery points;
- It promotes a proactive approach by providing alerts if a package is missing, enabling immediate action to address potential issues;
- It improves customer service by minimising additional costs and delays;
- It improves supply chain efficiency by increasing accuracy and eliminating distribution errors and returns;
- It improves performance monitoring;
- It strengthens supply chain security.

RFID tracking technology

RFID Real-time visibility



RFID labeling

Automatic sorters and RFID printers located in our HuBs and branches apply an RFID tag, characterised by a unique identification code, to each parcel of the shipment.



Data collection and management

An advanced platform automatically collects and processes RFID data from the phse network into value-added information. The data collected, which is immediately visible on the dashboard, makes it possible to check the history of each individual package in real time.



End-to-end traceability

The technology enables complete tracking of each individual package during the transport phases from collection to delivery to the recipient, increasing the quality of service delivery and reducing hidden reverse logistic costs and the residual risk of operational errors.

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