



# **P.&T.** s.r.l. - **P**ort and **T**erritory

(updated march, 2007)



## **P.&T. s.r.l. - Port and Territory**

### ***Denomination***

P.&T. S.r.l. – Port and Territory

### ***Address***

Operative office: vico Giannini, 2/1 – 16124 Genova  
Tel / fax +39 010 2518881  
E-mail [ptsrl@mclink.it](mailto:ptsrl@mclink.it)  
Website: [www.portandterritory.it](http://www.portandterritory.it)  
Legal office: Via Giuseppe Biancheri 7 – 16153 Genova

### ***Company presentation***

P.&T. was established in Genoa in 1997 on the initiative of managers and engineering specialists coming from important Italian industrial concerns, plant engineering and installation Groups, Port Authorities and port operators. Their target was to put their patrimony of home and international experiences achieved in complex system engineering at the community's service.

### ***Company's mission***

European Union is pursuing a new model of development, economically durable as well as environmentally and socially sustainable.

P.&T. identifies solutions and promotes system projects according to EU guidelines.

As regards port and territory systems intervention fields – constituting the focus of its mission – P.&T. exploits and enhances the territory excellence factors, promoting logistic, technological, infrastructural, organizational and managerial solutions, aimed at:

- the remediation and protection both of natural and built-up environment,
- the creation of new durable jobs connected to long lasting economical activities,
- the improvement of social conditions and life quality.

### ***Services***

P.&T. can develop:

- system engineering activities, from strategic planning, technical-economical feasibility studies, up to basic projects relevant to material and immaterial components, organised in terms of system;



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- promotion of designed initiatives, involving european economic interest groupings as well as national and international technology suppliers able to implement such initiatives according to EU purposes and guidelines;
- promotion of innovative, integrated logistic solutions in goods manufacturing, merchandising and distribution fields;
- promotion of the environmentally sustainable technologies as regards port and territory fields.

### Intervention fields

Owing to its Company mission, to the professional competence and experience of its engineering specialists and for the technology and designing contributions of home and foreign partners co-operating with it, P.&T. is able to effectively develop its mission in the following fields: strategic planning, logistics, environment, sustainable technologies.

The main features of P.&T. interventions may be summarized as follows:

#### ➤ **Strategic planning**

This kind of planning involves the organic multi-sectorial approach, the use of multi-disciplinary competences and of systemic integration tools to configure, compare and finally select the best options, on the base of their quantitative effects on economy, environment and community foreseen at different time horizons.

P.&T. can support public and private decision makers in planning the use of resources involved in the systems they are managing (port, territory, infrastructure, transport, town, environment, industrial system, etc.) in order to achieve the multiple objectives normally set by said decision makers. These objectives are synthetised by sustainable and long lasting economical, social, environmental development.

P.&T. can support Local Institutions, Port Authorities, port Operators, in developing Port Strategic Plans, Infrastructure-Transport-Logistics Strategic Plans, Town Strategic Plans (residential and productive areas, goods and people urban mobility, remediation and protection both of natural and built-up environment, etc.) and in forecasting impacts (overall or specific) produced by their implementation.

#### ➤ **Logistics**

Nowadays, logistics expresses the actual control that global operators can exert on world economy. As a matter of fact logistic aims to forecast the ultimate demand of each continent, to plan where and what shall be produced, to organize and manage transports, storage, to care for goods ultimate processing as well as their distribution to the customers worldwide.



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P.&T. can develop plans and projects both at local territory level (town logistics), at national level (logistic platforms and multi-modal networks) and international level (transport and logistic co-operation between Northern and Southern Range European Ports and the connected multi-modal interchange platforms along the continental corridors).

P.&T. can develop master plans, basic projects, feasibility studies about infrastructure, organization and management options concerning the planning and the development of innovative solutions for all those chain activities ranging from production to final distribution. Furthermore, P.&T. can involve the most important transport infrastructure managing organizations (Shipping-Lines, Ports, Railways, etc.), trade and distribution global operators, technology producers and building contractors, as well as – if necessary – financial groups to transform the project initiatives worked up together with a.m. partners into reliable industrial plans.

### ➤ **Environment**

The model of development until now pursued by industrialized Countries has proved unsustainable. The reasons thereof lie in the unrenovable energy and polluting technology used, in the town planning patterns adopted, in the consumer model pursued.

EU guidelines privilege the preservation of the environmental resources, the use of renewable energies, the application of environmental sound technologies, new town planning patterns based on the conviviality of residential and productive functions, the sustainable mobility of goods and people, the long-lasting products, the recyclable packages, the agro-foods derived from organic agriculture.

According to EU guidelines regarding sustainable development, P.&T. addresses its project solutions at urban and extra-urban systems level towards the use of technologies, kinds of energy, manufacturing processes, products, organization of the different town-functions being able to redirect and govern the “metabolism” of town and territory systems towards EU sustainable goals.

P.&T. can prepare environmental sound projects and impact assessments regarding: town planning projects, infrastructure systems, logistic systems, goods and people mobility systems, waste collection, recycle and disposal systems as well as other town service systems.

### ➤ **Sustainable technologies**

P.&T. contributes to the achievement of EU sustainable goals also in the innovative sustainable technologies field adopting them in its projects of port and territory systems or promoting their diffusion singly.



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### P. & T. strategic projects

P.&T. is bearer of strategic projects:

- Project of a new Atlantic route Far East – East Coast USA (vs. the Pacific route Far Est – West Coast USA) for ultra large vessel container-ships, via Europe by railway dry channel Genoa-Rotterdam (submitted by P.& T. since 1997 to EU organisations, the railway land corridor Genoa-Rotterdam has been inserted in TEN-T as strategic axis by the EU Commission in 2003)
- Master plan of new jobs and long-lasting economic activities, through the reconversion into logistic platforms of the European sites in steel transition [1997]
- Long-lasting new jobs and economic activities project for steel transition costal area in Genova-Cornigliano: multi-modal logistic platform (air, ground, sea), Distripark and Trade & Distribution Center and recovery of the coexistence with town-functions (residential area and town-services)
- Project of Sustainable Development National Agency for the euro-mediterranean area (aiming at implementing the U.E. euromediterranean strategies for the creation of a peaceful, sustainable and common prosperity area)
- Project for landfills remediation and new “waste-to-energy” management of the urban methabolism, implementing WHO and EU guidelines on MSW cycle management, and adopting bio – oxidation, bio – digestion and plasma atomization to completely convert wastes into biogas and syngas (togheter with riusable molten slag) to produce thermo – electrical energy and hydrogen (also usable for sustainable urban mobility)

### Main references (contracts)

- Contribution to Savona Port bulk and containerized cargo Strategic Planning and relevant promotion activities (*Autorità Portuale di Savona*). [1998]
- Mapping of industrial dismissed areas in the Savona and Alessandria territories, in view of new sustainable initiatives (*Società per la bonifica e valorizzazione di Campi*). [1998]
- Sustainable development urban plan for the Grosseto city and feasibility study of the Grosseto interport (*Comune e C.C.I.A.A. di Grosseto*). [1999]
- Assistance to Taranto Industrial Association to promote a Port and Airport Distripark, (*SISRI - Consorzio per lo Sviluppo Industriale e di Servizi Reali alle Imprese - Taranto*). [2000]
- “The Mediterranean Option” research first phase (new world route connecting North America to Far East, through European “land-bridge”) (*Fondazione della Banca Nazionale delle Comunicazioni - ISFORT*). [1999-2000]



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- “The Mediterranean Option” research second phase (world logistics scenarios and connected guidelines for the re-organisation of Italy logistic platform) (*Fondazione Banca Nazionale delle Comunicazioni -ISFORT*). [2000-2001]
- Organization and contribution on “The Mediterranean Option” International Conference (Rome, March 2001), with the participation of UE (DG TREN), New York, Singapore, Rotterdam ports, ESPO (European Sea Ports Organisation) and the main world shipping companies and European rail transport and logistic operators (*ISFORT and Fondazione BNC*). [2001]
- Study on the infrastructures and economic activities in Alessandria Province. (*Energia e Territorio SpA, Alessandria Province*) [2002]
- Alessandria Logistic Platform (PLA): master plan, business plan and assistance to the project implementation relevant to 200 hectares inclusive of a Distripark. (*Energia e Territorio S.p.A.*) [2002]
- Feasibility study of the Genoa port-Distripark (*Genoa’s Chamber of Commerce*) [2002]
- Definition of the Industrial Plan for the Port of Genoa Multi-Purpose Terminal (*Finservice SpA – Scerni group and Argo Finanziaria – Gavio group*) [2003]
- Design of the “Goods Distribution Center” for the city of Lucca (*Lucca’s Chamber of Commerce and Lucense SCpA*). [2003-2004]
- Basic design and business plan for “Genoa Distriport”: a public port system “all-mode all-user” for Genoa-Sampierdarena port (*Consorzio: Gruppo Gavio, Gruppo Clerici, Gruppo Scerni, Gruppo Campostano*). [2003-2004]
- Basic project for High-Tirrenian Sea logistic macro-region and relevant law proposal frame: ports, airports, interports, distriparks, sea and land motorways, railways (*Parma’s Chamber of Commerce*) [2004]
- Val Bormida Distripark feasibility study (*V.I.O. Vado Intermodal Operator SCpA*) [2004]
- Long distance railway shuttle service study on the Italian section of the Genoa-Rotterdam corridor (*SLALA – Sistema Logistico dell’Arco Ligure ed Alessandrino*) [2004]
- Study on a Distrifruit platform feasibility in Oristano port area (*Oristano Province*) [2005]
- Feasibility study for the Taranto Port Distripark (*Europrogetti & Finanza – Distripark di Taranto*) [2005]
- “Italy Pier” Logistic Masterplan; first research module: the Genoa-Rotterdam corridor (*Fondazione BNC – ISFORT SpA*) [2005]
- Feasibility study on plasma technology application to convert special and harmful wastes to clean energy (electricity, thermal energy, hydrogen) (*Lucense SCpA – Lucca*) [2005]
- Clean energy production from plastic waste plasma conversion: industrial plan for the Fenice Capanne Energy Recover Center (*Consorzio C.A.R.E. – Centro Avanzato Recupero Energie*) [2005]
- Strategic plan to internazionalize Piemonte Region in transnational logistic activities (*Regione Piemonte – ISFORT SpA*) [2006]



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### Activities in progress

- “Italy Pier” Logistic Masterplan: extension of the research to the all transnational “Genoa – Rotterdam” corridor (*Fondazione BNC – ISFORT SpA*)
- Assistance to Taranto Local Bodies (Distripark di Taranto SCpA, Taranto Province, Taranto Port Authority, etc.) in implementing priority projects (defined in the feasibility study) (*Europrogetti & Finanza – Distripark di Taranto*)
- Assistance to Lucense SCpA in the implementation of the ecological Goods Distribution Center of Lucca
- “Italy Pier” Logistic Masterplan: “Gioia Tauro – Rotterdam” railway corridor (national route) (*Fondazione BNC – ISFORT SpA*)
- Assistance in plasma technology implemetation at Lucca’s paper mill district, to convert pulper in energy resources (*Lucense SCpA – Lucca*)
- Organization of added value logistic platforms along the “Genoa – Rotterdam” corridor and evaluation of labor and economic impacts (*Regione Liguria – ISFORT SpA*)
- Definition of a community project to implement in the period 2007 – 2009 the various components (infrastructural, organizational, telematics) of the transnational corridor “Genoa – Rotterdam” (ports, airports, railway network, interports and distriparks inside the Nord Ovest italian area) (*Regione Liguria – Regione Piemonte*)

### Strategic projects promotion

- ❑ “Waste to energy” MSW conversion for 67 Genoa Municipalities (national pilot project) to be implemented in Monte Scarpino landfill. The project includes: “landfill – mining” and remediation by accelerated bio – oxidation, MSW dump fraction turning into compost, thermo – electrical energy production from combustible fraction (coming from MSW and landfill) by adoption of plasma technologies and gas turbine – steam turbine combined technologies (in ccooperation with Enplus)
- ❑ Project for added value logistic activities relevant goods transported by sea and by air (Malpensa distripark in integration with the port of Genoa) (*proposal in cooperation with RINA SpA*)

### Main patented P.&T. projects (in cooperation with industrial partners)

- ❑ “Double deck” container terminal (doubling capacity and strenghtening security of port terminals), internationally patented together with Fantuzzi-Reggiane Group and Sintagma Sviluppo Progetti
- ❑ Floating eco-technological platform (autonomous sea platform carrying disposal technologies, including plasma converters) to be used as coastal waste-problem solving and clean energy generating center (national patent)



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### **Present cooperation**

P.&T. established (and is establishing) organic co-operation with important national, european, US and canadian Companies operating in the fields of interest of P.&T., such as: port engineering (traditional and floating: terminal container, petrolchemical terminals, rigassification platforms, floating airports, ecc), transport and logistics engineering, energy and environment engineering and connected sustainable technologies.

### **Profile of P. & T. experts**

P.&T. holds high level skills in its operative fields. The P.&T. specialists are well known at home and at international level for their references in the fields of Strategic Planning, Logistics, Energy and Environment and connected Sustainable Technologies.