











Bulk Handling









Logistics



Barge Terminals



Company



Operating since 2003 Vector Port and Transport Solutions (Vector PTS) is offering a full range of consulting services to the insurance and port and transport industry.

It has gathered an extensive portfolio covering the commercial and technical management of marine terminals and intermodal facilities for automotive, container, dry bulk, general cargo and heavy lift and steel handling.

Our consultants have participated in a wide range of international projects in **Europe, Middle East, Africa, the Americas** and **Asia**, embracing all aspects of port and transport work, both as the prime consultant and in a supporting role to other specialists, including the **arbitration** and **insurance** sectors.

Vector PTS has helped **to plan**, **redesign and streamline** operations, providing safe, cost-effective facilities and management systems.

Vector PTS brings a high level of expertise in management consulting to both re-engineering and startup projects:

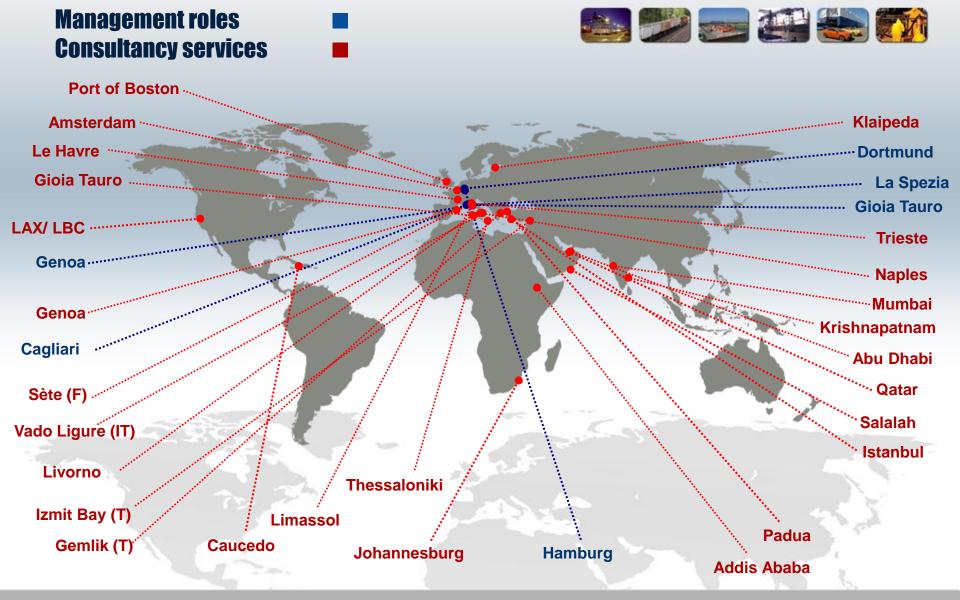
- **Terminal efficiency projects** for conventional operations and semi automated operations.
- Planning and supervision of handling equipment design and development for container, roro and automotive and intermodal facilities.

Services offered include master plans and market studies plus...

- Port and transport management consulting, including design, capacity assessment, maximisation and start-up management, business process mapping, organisation, IT and due diligence audits
- Implementation and assessment of Terminal Operating Systems (change management)
- **Expert support** for shareholder agreements and JV negotiations, international arbitration (ports and terminals) plus insurance claims and dispute cases
- Project and tender management... plus others
- Expert support for business interruption mitigation (ports and terminals) plus JV negotiations and shareholder agreements.

Areas of Activities









Management expertise gained globally

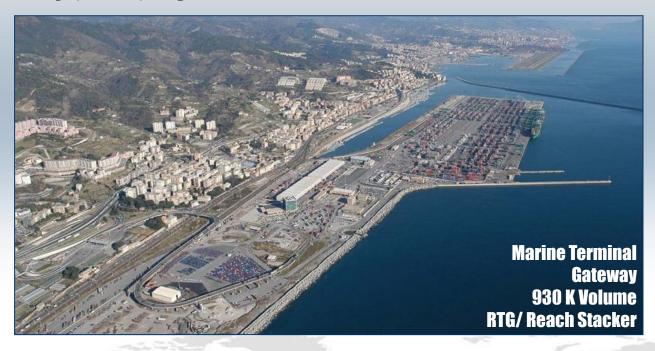








Voltri Container Terminal Europe, Genoa, Italy





Request: Operational, technical & engineering reorganisation

- **Result:** Crane and shift productivity increase > 35%
 - Equipment productivity increase > 11%
 - Contract labour cost reduction > 10%
 - Cost reduction running repair maintenance > 10%





Eurogate Technical Services Europe, Hamburg, Bremerhaven, Wilhelmshaven





Marine Terminals Gateway 7.8 M TEU Volume Straddle Carrier/ RMG

Task: Technical & engineering services for group container terminals

- Facts: 670 employees
 - 75 STS cranes & 400 straddle carriers
 - 16 RMG cranes
 - Turnover: @130 Mio Euro







Somarsid, Sosersid, ArcelorMittal Med France Europe, Fos sur Mer, France





Ore, steel, project cargo Gateway

Task: Operational management dry bulk, steel, and heavy lift cargo terminals

- Facts: 3 terminals 11 Mio tons/ year and 750 calls/ year
 - Iron ore, steel products and heavy lift/ project cargo

Management





Medcenter Container Terminal Europe, Gioia Tauro, Italy





Marine Terminal Transshipment 2.3 M TEU Volume Straddle Carrier Operation

Request: Reorganisation of operations

Result:

Implementation of world class standard

- Crane and shift productivity increase > 13%
- Terminal expansion and investment planning
- Organisation enhancement from 600 K to 2.3 M TEU
- Definition of an outstanding IT terminal monitoring system

Management





Container Terminal Dortmund Europe, Dortmund, Germany





Inland Terminal Seaport Link 50 K TEU Volume Rail Mounted Stacking Cranes

Request: Company reorganisation

- Result: •
- Revenue increase > 2.5 times
 - Improvement of service quality
 - Implementation of rail shuttle service
 - Implementation of maintenance system





CONSULTANCY:

✓ Business Process Mapping

- Design, Equipment and Capacity planning
- Health checks & Technical Due Diligence
- Tender processes & Technical specifications
- Health, Safety Environment
- ✓ Training
- Legal and insurance work
- Market studies





Business Process Mapping



Business Process Mapping





APM Terminals Vado Ligure, Italy





Marine Terminal Project Gateway / Transhipment 750 K TEU Capacity Semi-automated Operation

Business Process Mapping for a semi-automated terminal

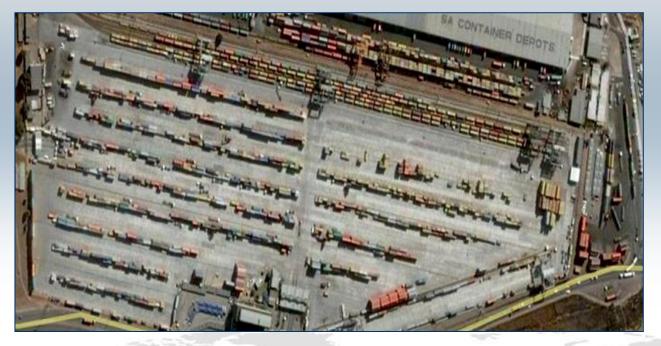
- Assessment of the existing map
- Contribution focused on specific regional industry insight

Business Process Mapping





City Deep Rail Terminal Johannesburg, South Africa





Inland Rail Terminal 400K TEU Capacity Reach Stacker Operation

Business process mapping

- Preparation for implementation of a new TOS (terminal operating system)
- Guidance on the TOS transition
- Description of required business and organisational changes
- 'Best Practice' business processes





Design, equipment and capacity planning



Design, capacity & equipment planning





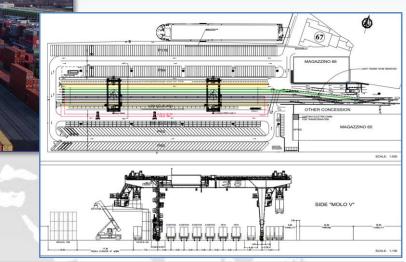
Evyapport Turkey



Container, RoRo and Intermodal facilities

Interporto Pado Italy

Samer Seaports & Terminals Italy



Design, capacity & equipment planning





Kumport Turkey





Marine Terminal Project Gateway 1.5 M TEU Capacity Reach Stacker/ RTG Operation

Design, equipment & capacity planning

- Assessment of terminal capacity and machinery park (technical due diligence)
- Equipment specification & tender support





Health checks & Technical Due Diligence



Buyers Due Diligence

Cyprus Port Authority Limassol, Cyprus



- Multi-purpose terminal - RoRo
- Passenger terminal
- Car handling

Buyers Due Diligence

- Privatisation of the Multi Purpose Terminal in Limassol
 - General cargo
 - RoRo
 - Car handling





Buyers Due Diligence

Thessaloniki Port Authority Greece



Buyers Due Diligence

- Privatisation of the port of Thessaloniki
 - General cargo & Container
 - RoRo & Steel products
 - Agri bulk & mineral bulk







Port Operation - RoRo & Container -General cargo -Passenger terminal -Agri & Mineral bulk

- Passenger and ferry terminal
- Capex & Opex assessment
- Capex & Opex modelling

Health Check

Borusan Port Gemlik, Turkey



Health check

- Organisation analysis
- Organisation proposal for operations
- KPIs







Marine Terminal Project Multipurpose Container/ steel/ roro

Photo: Courtesy of Borusan Port

slide 25

Health Check

Port of Boston

Europe, UK









River port General cargo > 3 M tons volume

Assistance to UK Government Agency

- Handling equipment choices
- Capex & Opex assessment
- Procurement support (handling equipment, workboats)





Tender processes and Technical specifications



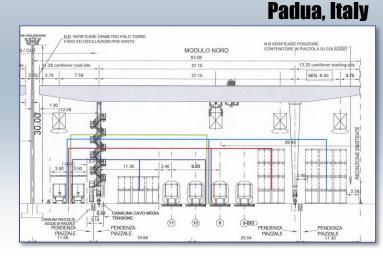
Tender processes & Technical specifications





Klaipedos Smelte Klaipeda, Lithuania





Interporto Padova

Kumport Istanbul, Turkey

Ship to Shore gantry cranes & Mobile Harbour cranes RTGs and wheeled yard handling equipment RMGs and Intermodal cranes







Health, Safety & Environment Training



Training

Port of Nouakchott (PANPA)

Africa, Nouakchott, Mauritania

SAFETY AND EFFICIENCY IN PORT OPERATION



Vector Port and Transport Solutions Ltd assists L'Institut de formation - Port of Marseilles Fos, France, Chamber of Commerce & industry Aix Marseille Provence and Chamber of Commerce Agriculture & Industry Mauritania with Port of Nouakchott PANPA holding a course focussing on port organisation, work and health safety, environment.

The course is held in the Port of Nouakchott, Mauritania and part of the European Archipelago and Sequa GmbH project dealing with the professional formation of PANPA port workers.



ARCHIPELAGO une initiative africaine et européenne pour la formation professionnelle

www.vectorpts.co.uk

Conventional cargo Container Dry bulk Liquid bulk 3.5 M tons Volume

Training courses focussing on

Port organisation and Work Health, Safety & Environment



TRANSPORT SOLUTIONS



Health & Safety

PORT AND TRANSPORT SOLUTIONS



Société Djiboutienne de Gestion du Terminal Vraquier, Djibouti





Dry Bulk Marine Terminal Grain & Fertilizer 2 M tons Volume

Review of HSE procedures (Personnel and Equipment Flow)

- Review of existing procedures
- Recommendations to the Safety Initiative Improvement plan





Legal and insurance work







Support in negotiations of shareholder agreements and joint ventures.

We have provided sound, confidential advice to several clients amongst them

- COSCO, Italy
- APM Terminals and
- Turkish clients









Support in reorganization and claims reduction



Avoid the avoidable

Deductible

Premium

A negative claims trend triggers:

- **Higher premium**
- Higher deductibles •
- Loss of warranties •
- Loss of cover •
- No insurance no business ٠

Legal

Disputes, claims and mitigation

With our operational and technical expertise in ports and terminals operation we assist in

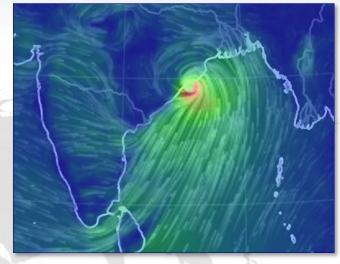
- Business Interruption mitigation
- Technical claims assessment
- Experts Witness and Expert Opinion

English law firms *Hill Dickinson, Holman Fenwick Willan, Mills & Co and Reynolds Porter Chamberlain* and insurers as *Gard, Maersk Line, The London P&I Club, and RSA,* are our clients.









Legal

/ECT PORT AND TRANSPORT SOLUTIONS

Mitigation of Business Interruption claims





Europe

- Allison Ship to Shore cranes
- Impact on operation .
- Merits of various repair • locations

Central & South America

- Allison Ship to Shore cranes • Port organisation
- Impact on operation •
- Loss of revenue/ profit
- Evaluation of applied • procedures
- Levels of structure utilization .





MEA India Asia

- Allison Ship to Shore cranes Cyclone landfall
- Impact on operation
- Loss of revenue/ profit
- Evaluation of applied procedures
- Peer reviews





MARKET STUDIES

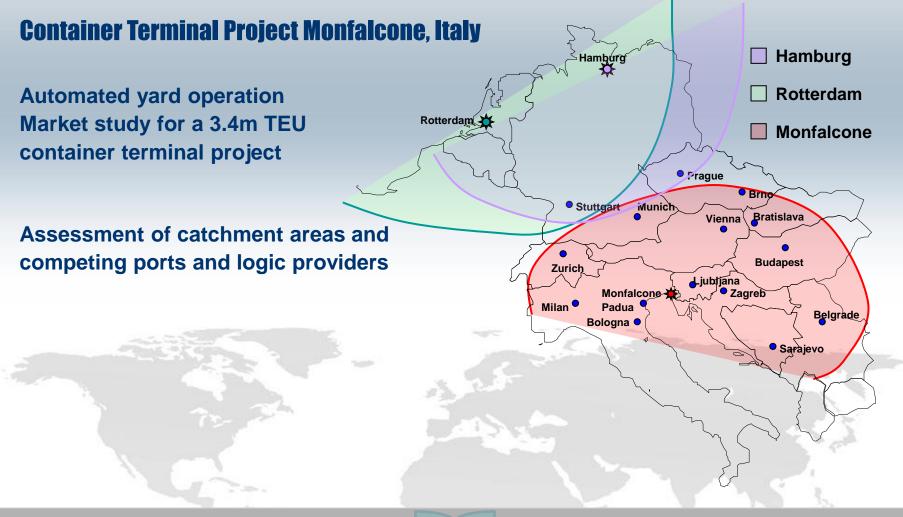
Forecasting and predictions

















Turkish ports grow on amid competition from Black Sea ports?

Black Sea 11.2 M TEU /14,000 TEU

Marmara Sea Next capacity 13.6 M TEU / 16,000 TEU

The **Marmara Sea** is developing a powerful transhipment hub system allowing 16,000 TEU vessel operation.

Marmara capacity will double by 2015 (13.6 M TEU)

Main **Black Sea** ports address 14,000 TEU vessels.

Odessa Illichivsk Taman

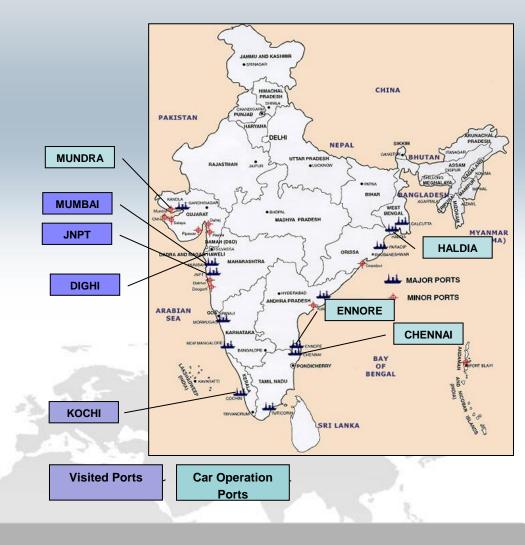
Market studies





Bi-modal transport study Mumbai

Kochi Range, India Port and transport assessment for car transportation on India's west coast Annual volume 750,000 cars.



Clients

TRANSPORT SOLUTIONS



- ✓ APM Terminals, France/ Italy
- ✓ Borusan Lojistik, Turkey
- ✓ COSCO Europe, Italy
- ✓ Ethiopian Maritime Affairs Authority*
- ✓ Environment Agency, UK
- ✓ Drewry Shipping Consultants
- ✓ Eyvapport, Turkey
- ✓ Rivalta Terminal Europa, Italy
- ✓ Hapag Lloyd, Italy
- ✓Hill Dickinson, UK
- ✓ Holman Fenwick Willan LLP, UK
- ✓ Hydro, Norway
- ✓ Interporto Bologna, Italy
- ✓ Interporto Padova , Italy
- ✓ Klaipedos Smelte, Lithuania
- ✓ Kumport, Turkey
- ✓ London P&I Club, UK

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\checkmark	PricewaterhouseCoopers LLP, USA	pwc
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Supporting role to other specialists *)



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