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IT Solutions - a Managerial Tool



Presented By

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We will look at the following:

- IT Solutions – Need / Origin
- IT Solutions in Shipping
- Market - Demands
- Future
- Word of Caution - Concerns



IT Solutions - a natural progression in any modern industry

- As technology advances, the processes become more complex. Be it designing, building, operating or monitoring.
- Manual operation is no more an option
- Qualified Manpower become scarce and expensive.
- Information become a need of the moment than a need of the hour.
- Information today is useful, information tomorrow is history.

Some of the earlier solutions came from Process Industry

- Remote reading
- Remote measuring
- Remote monitoring
- Remote control

All of above became a necessity for various reasons.
And no doubt the efficiency and economics improved.

Shipping

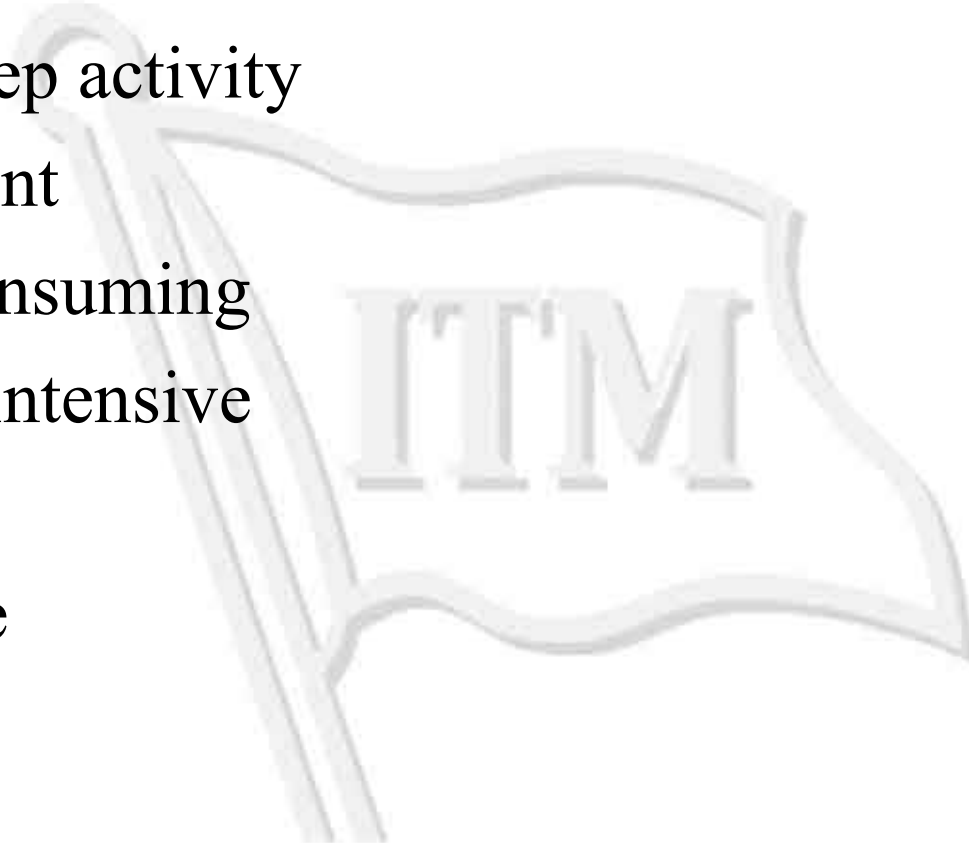
- Traditionally behind Shore Industry
- Globalization – boundaries are broken.
- Industrialisation – traditional way of doing business is changing.
- Scarcity of qualified personnel on board and ashore.
- All of above requires that a Safe, efficient, competent, environmentally conscious and economical way of working is the order of day.

Old Times

- Information Flow - traditional
 - Crew - Radio Officer - Master - Radio Officer - Radio Transmission - Office - Radio Room - Manager - Superintendent & Back.
 - Mail /Documents: Crew - Master - Agents - Postal Service - Office - Distribution – Superintendent & back.
 - Technical / Commercial Reports:- Radio / Mail – distribution- Superintendent & back.

Drawbacks

- Multi-step activity
- Inefficient
- Time consuming
- Labour intensive
- Costly
- Reactive



Change Requirements

- Traditional to System oriented.
- System oriented to Process oriented.
- Reactive to Pro-active.
- Be able to Plan, Implement, Monitor and Improve on a continuous basis.
- Need to monitor our Systems and Processes.
- And, in order to do that we needed tools to bring information instantly – Business enabler
- Open up communication Channels

We needed to..

- Therefore, we followed a simple basic theme of Capturing Data at source, Store it well, so that the data can be managed and used effectively and in the manner desired.
- Brings information to the table instantly
 - Able to Plan
 - Implement
 - Monitor
 - Modify/improve and it goes on...
- We are using this in a systematic and orderly fashion to ensure Safety, to improve our process and our systems

Present Times

- Rules & Regulations - IMO/ SOLAS /Class
- Flag State requirements
- OPA – 90/ISPS
- USCG
- Port State Controls
- Oil Majors
- Insurance Underwriters
- TMSA

Tanker Management

- Requirements:
 - Regulatory:
 - ISM
 - SOLAS
 - CLASS
 - MARPOL
 - PSC
 - FLAG STATE
 - ISPS

Tanker Management

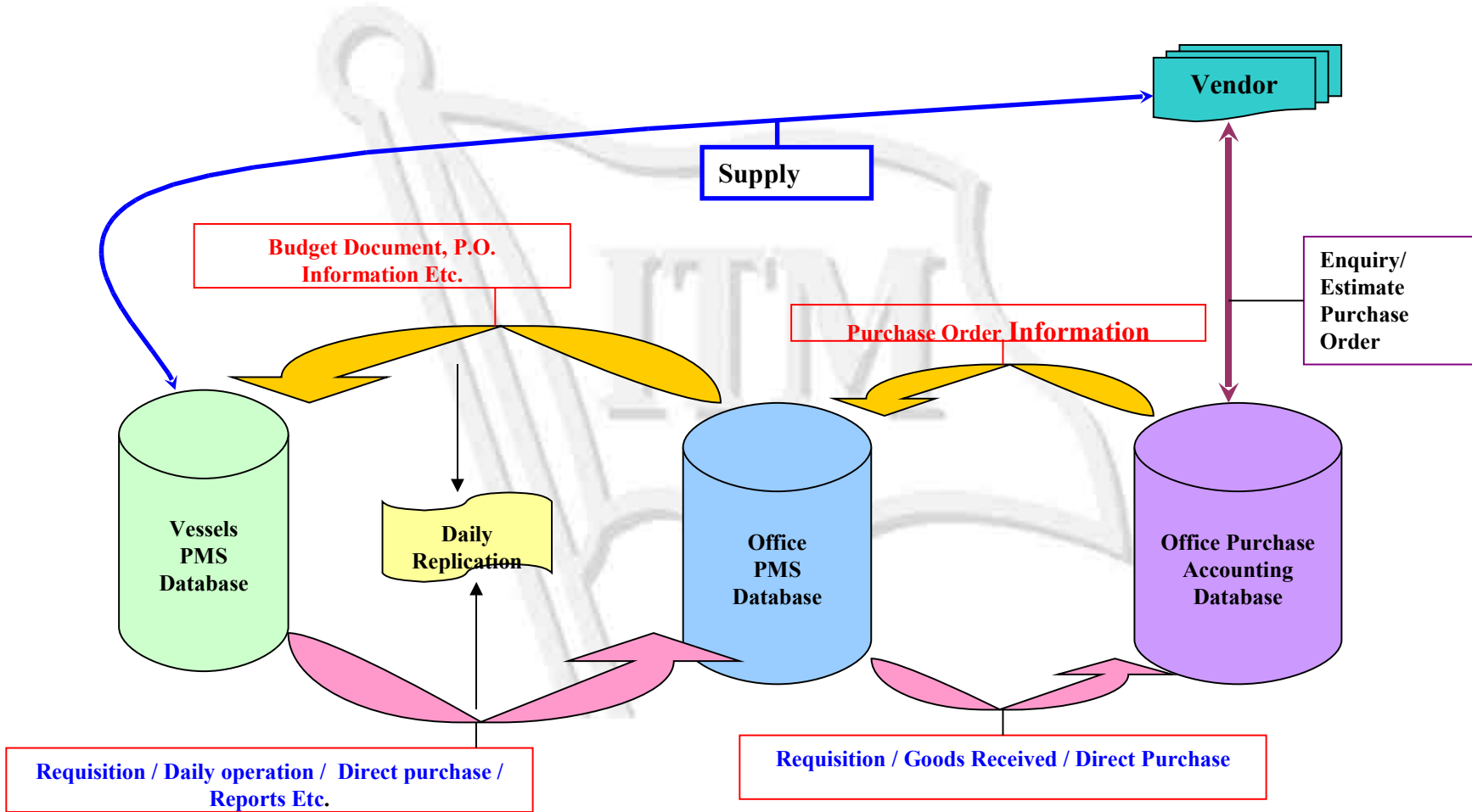
– MARKET DRIVEN

- OIL MAJORS
- TMSA
- GLOBAL
- TERRITORIAL
- OPA 90
- EPA
- ENOAD

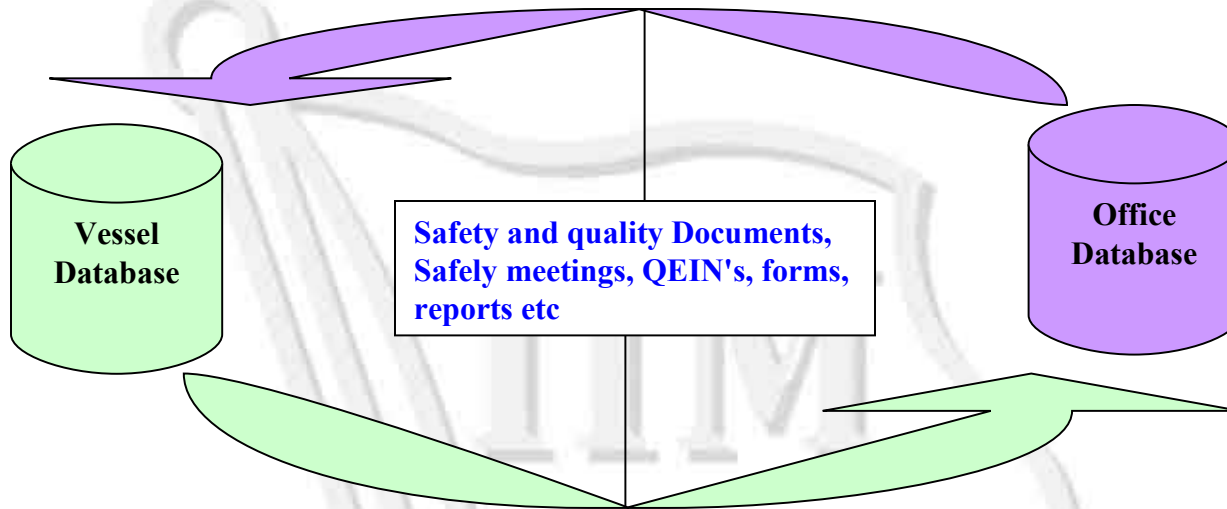
The IT systems comprises of:

- ➡ .The Planned Maintenance System
- ➡ .Safety and Quality Management System.
- ➡ .Portage Bill System
- ➡ .Ships Surveys and Certifications Information System.
- ➡ .Remote Monitoring System
- ➡ .Purchasing and Accounting System.
- ➡ .Crew Information and Management System.
- ➡ .Digital Notices to Mariners and Chart Correction System.
- ➡ .ITM Online Reporting System for Vessel Owners.
- ➡ .Office e-mail net-work

Planned Maintenance System

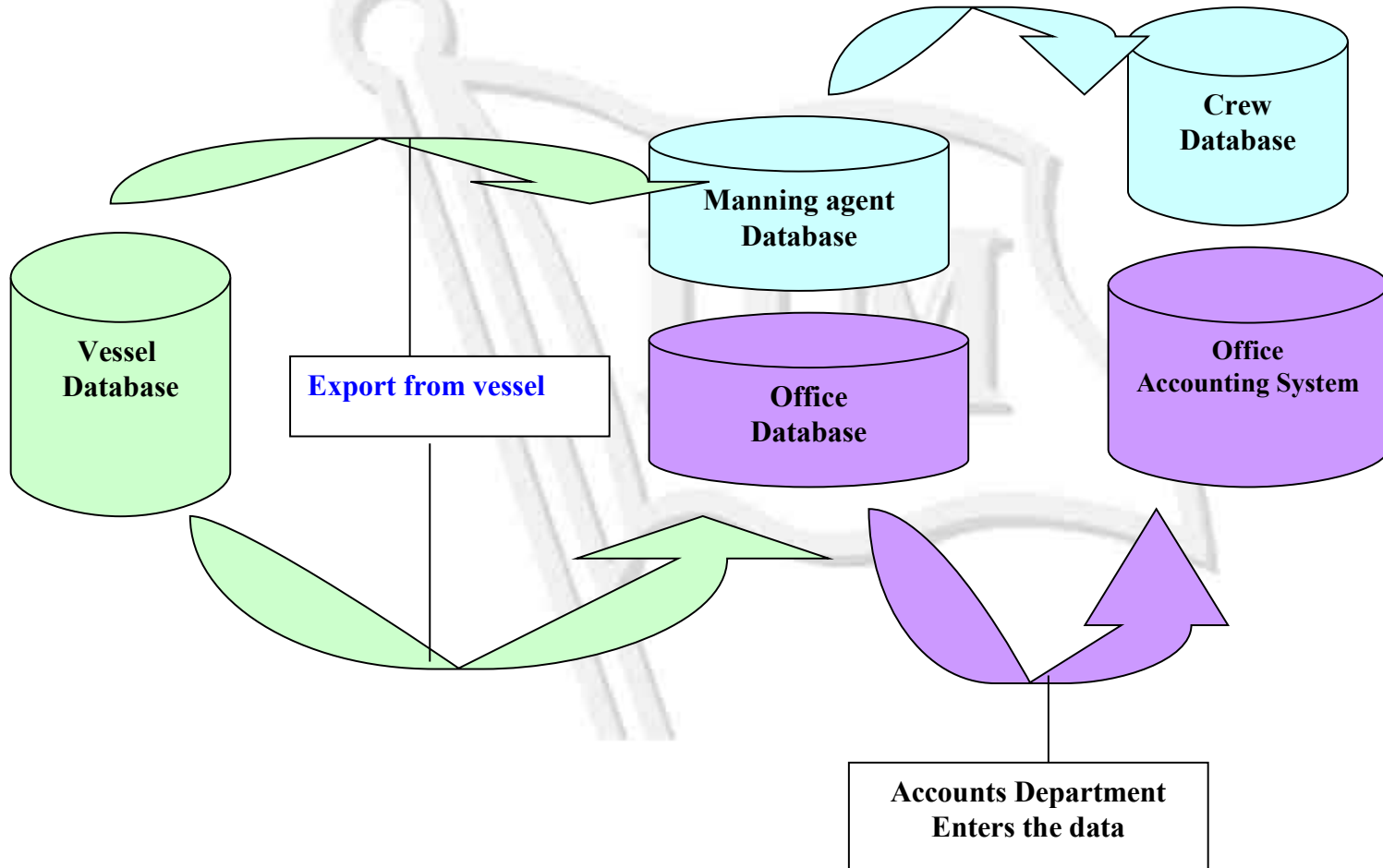


Safety and quality Management System

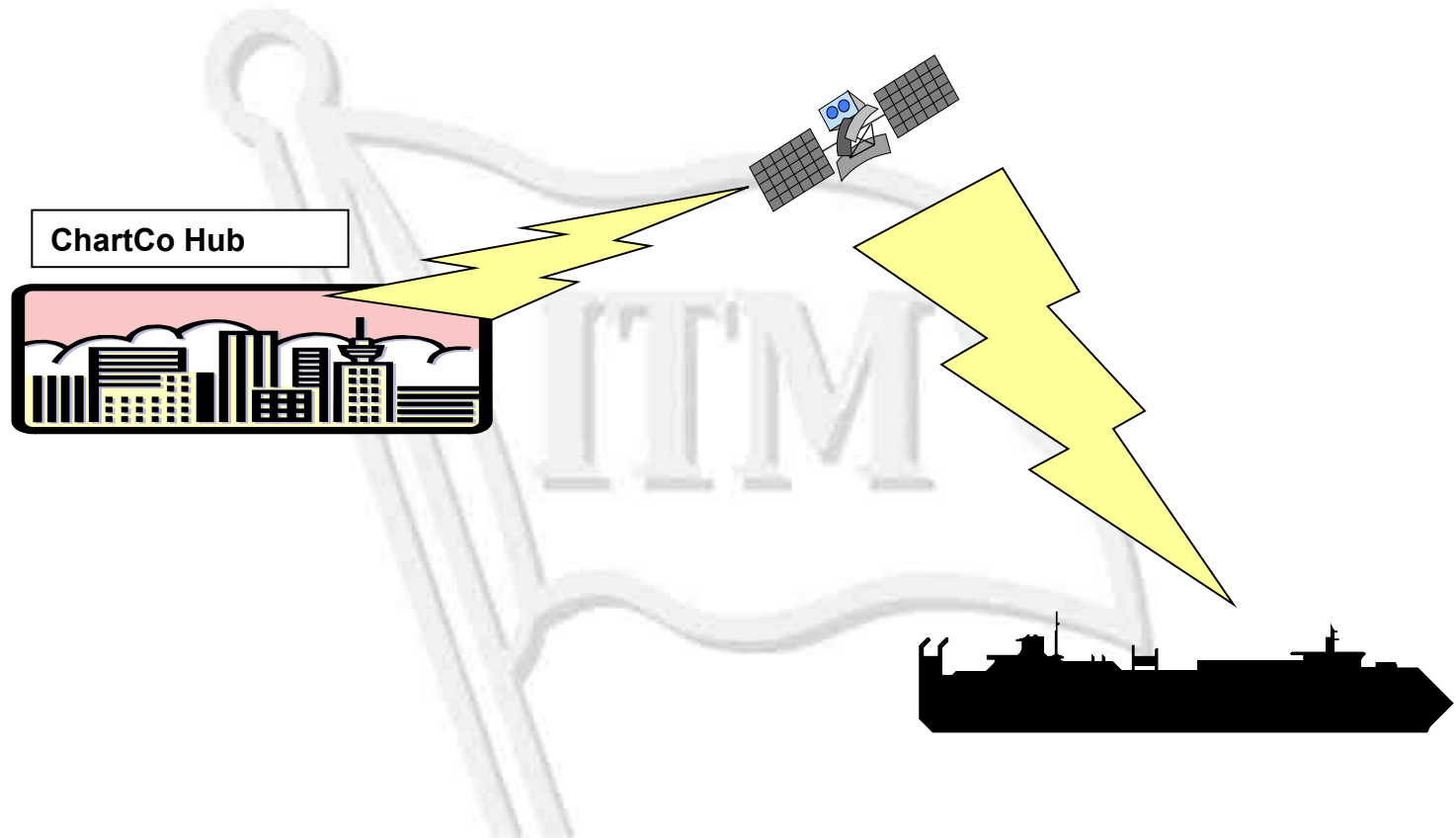


- ☞ Vessel data is specific to the type of vessel. Such as Tasks of each Rank onboard, Forms, Safety and quality manuals, procedures, Safety meeting Records, CARS, Knowledge exchange document etc

Portage Bill System ships accounting package



Digital Notices to mariners and Chart corrections



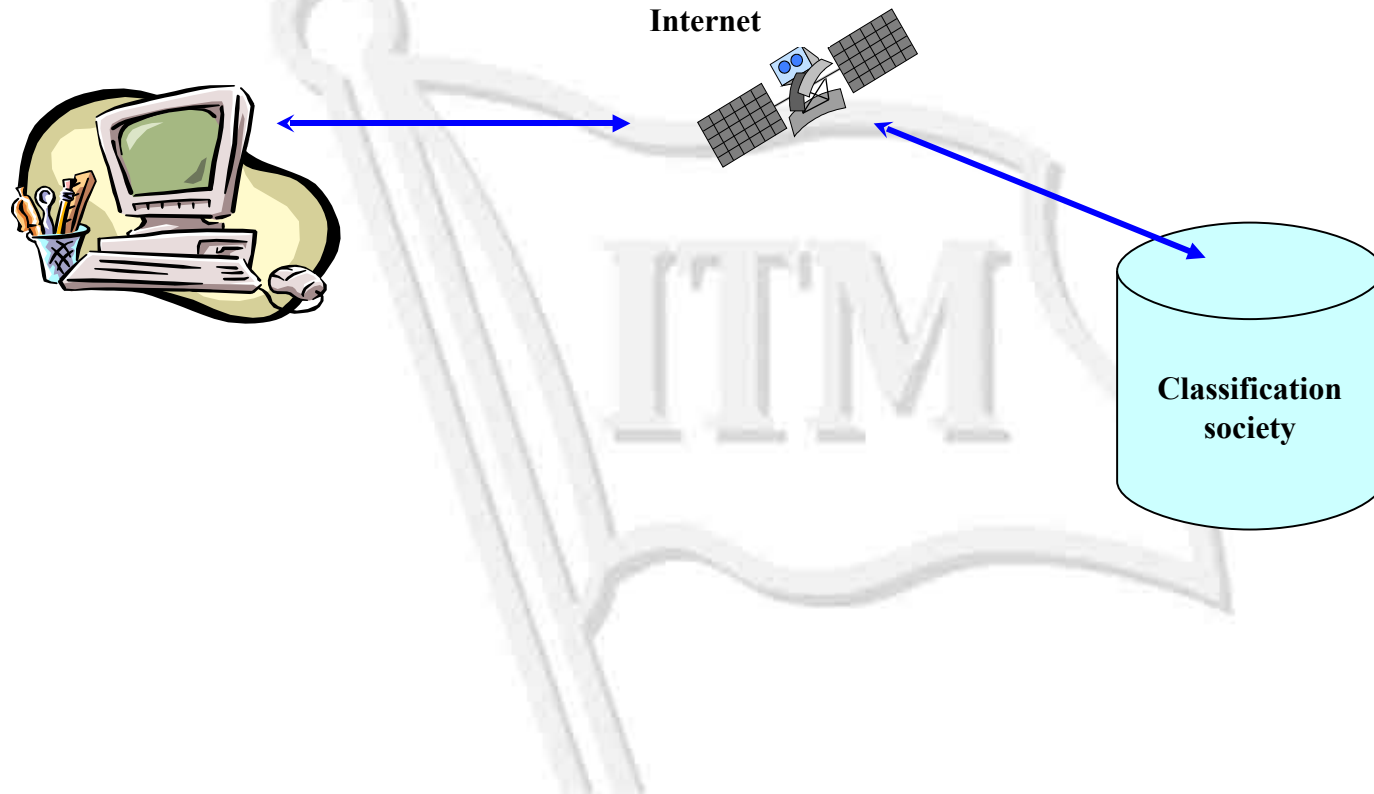
Ships Classification Society Information System/1

- ★ ABS Safenet
- ★ DNV Exchange.
- ★ LRS Class Direct

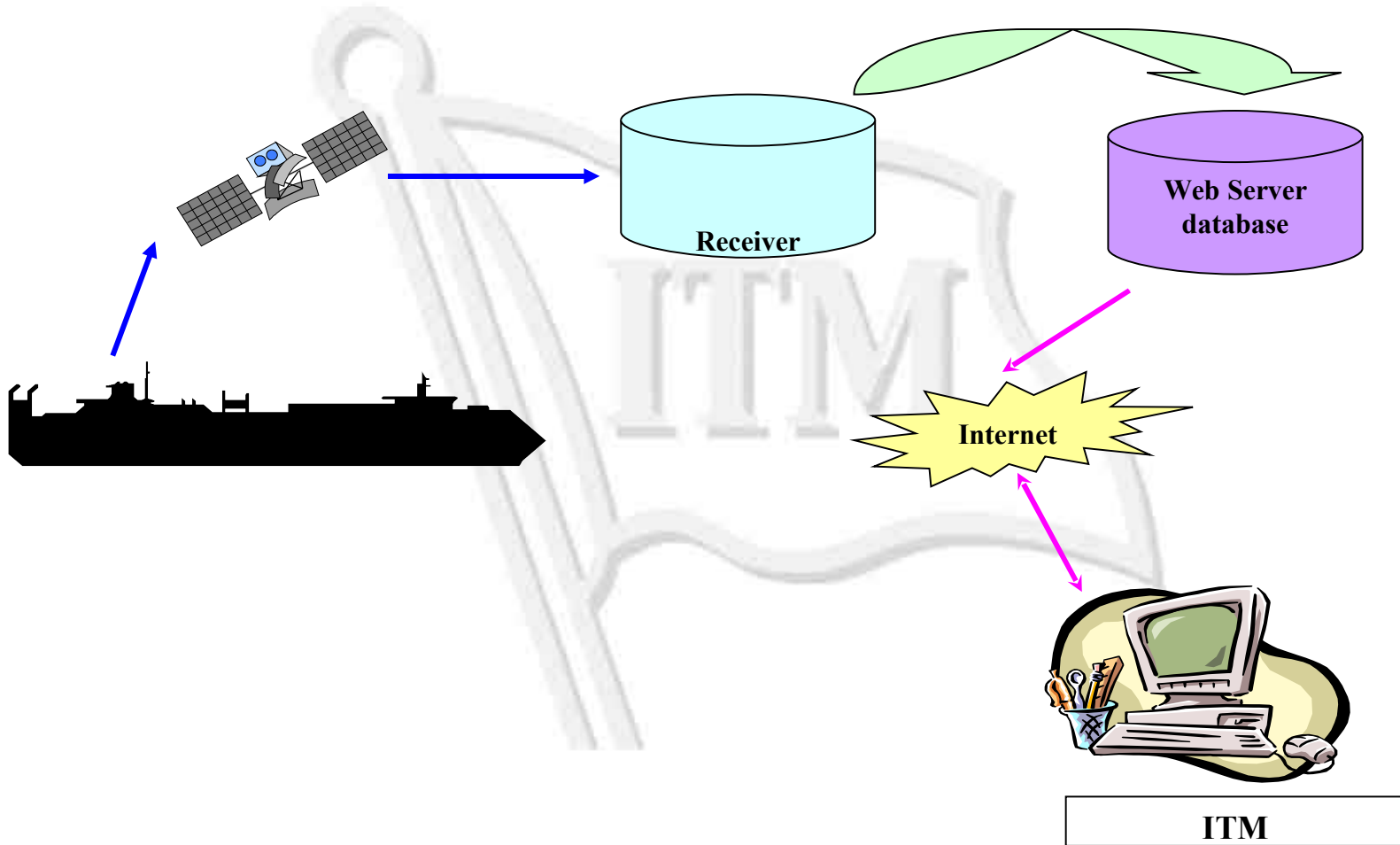
☞ The above classification societies have their own website. Any person in the office can directly see the vessels Survey, certification and reports on the web.

☞ Data exchange between ships and the classification society is on email.

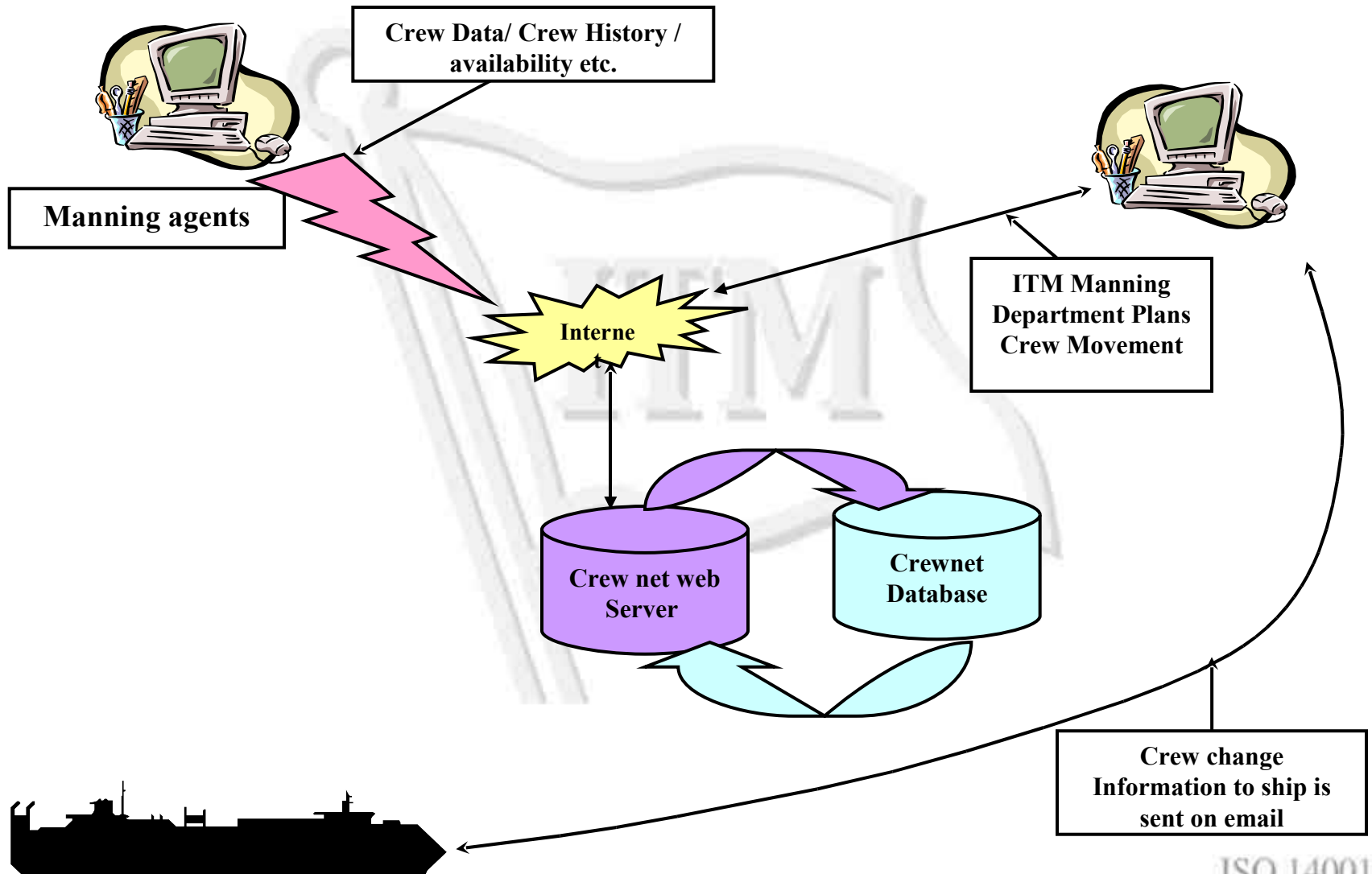
Ships Classification Society Information System



Remote vessel monitoring system

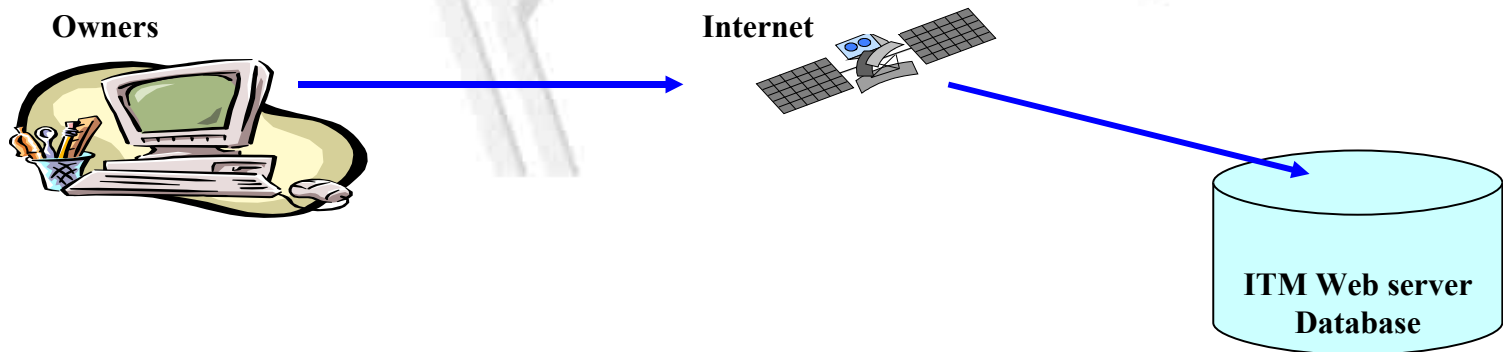


Crew information and Management system

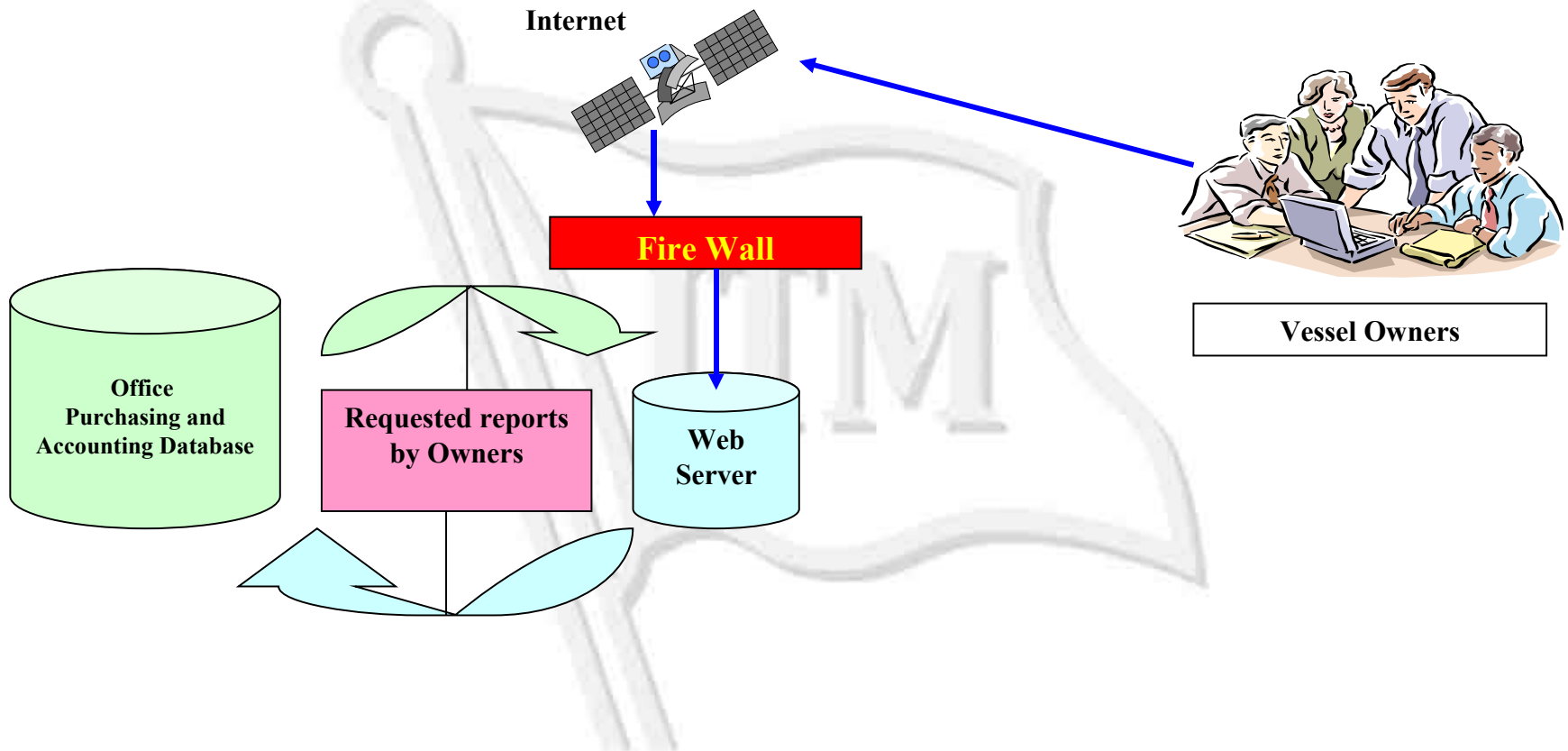


ITM Online reporting/1

- ➡ The vessel owners can view the financial reports for their ships through the ITM Online reporting system. This system is web based and the web server is hosted in the ITM office in Dubai.
- ➡ Data exchange between Owners & Office is through ASP (application server pages) hosted onto the web server. The Owner just simply logs onto Internet and connects to the site, which after authentication allows the Owner access to his fleet data, which is in the Purchasing & accounting system in the office.



ITM Online reporting/2



Future

- Do we know ? ?
- Man Power - Qualified Staff – Sea/Shore
- Ever Changing Industry Requirements
- Market Demands will multiply
- Only thing permanent may be the change itself
- Process Oriented than System Oriented
- Good Systems and Processes is a must for survival.
- Therefore good tools is a must.

Word of Caution

- Multitude of Products – Selection is Critical
- Standards – Hardware & Software
- Set Up – Platform approach
- Compatible
- Configuration
- Lay Out – Physical / Electronic



Thank you for your time

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ALWAYS SAFE