



Klein Systems Group Ltd.

AAPA Latin American Congress of Ports

Shared Information via MIS

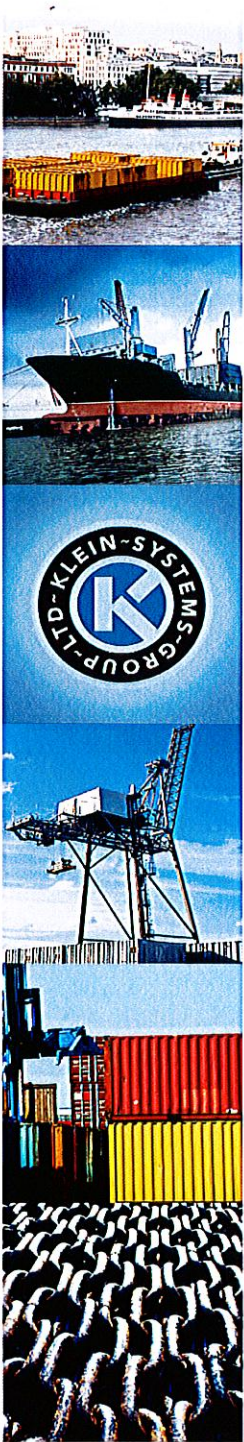
Presenter: Kent Goodhew

From: Klein Systems Group Ltd

July 9, 2009

Software Solutions to Meet the Challenging
Needs of Maritime Ports and Vessel Traffic
Regions

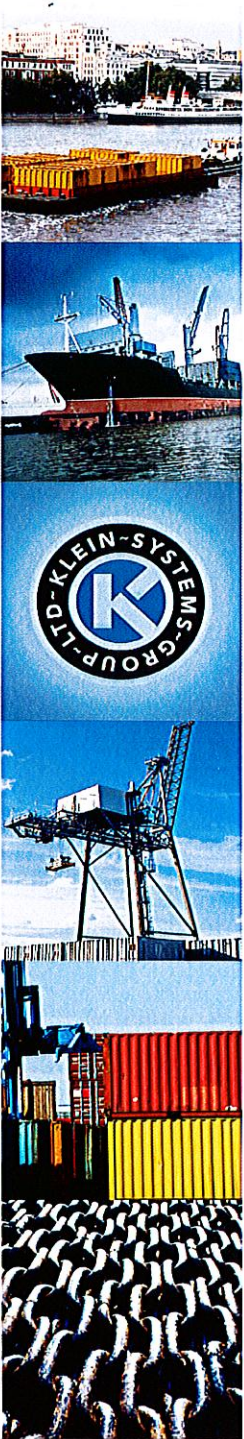
www.kleinsystems.com



Introduction

- Challenge (Information)
- Solution (System)
- Detail of types of info shared

❖ Conference Themes

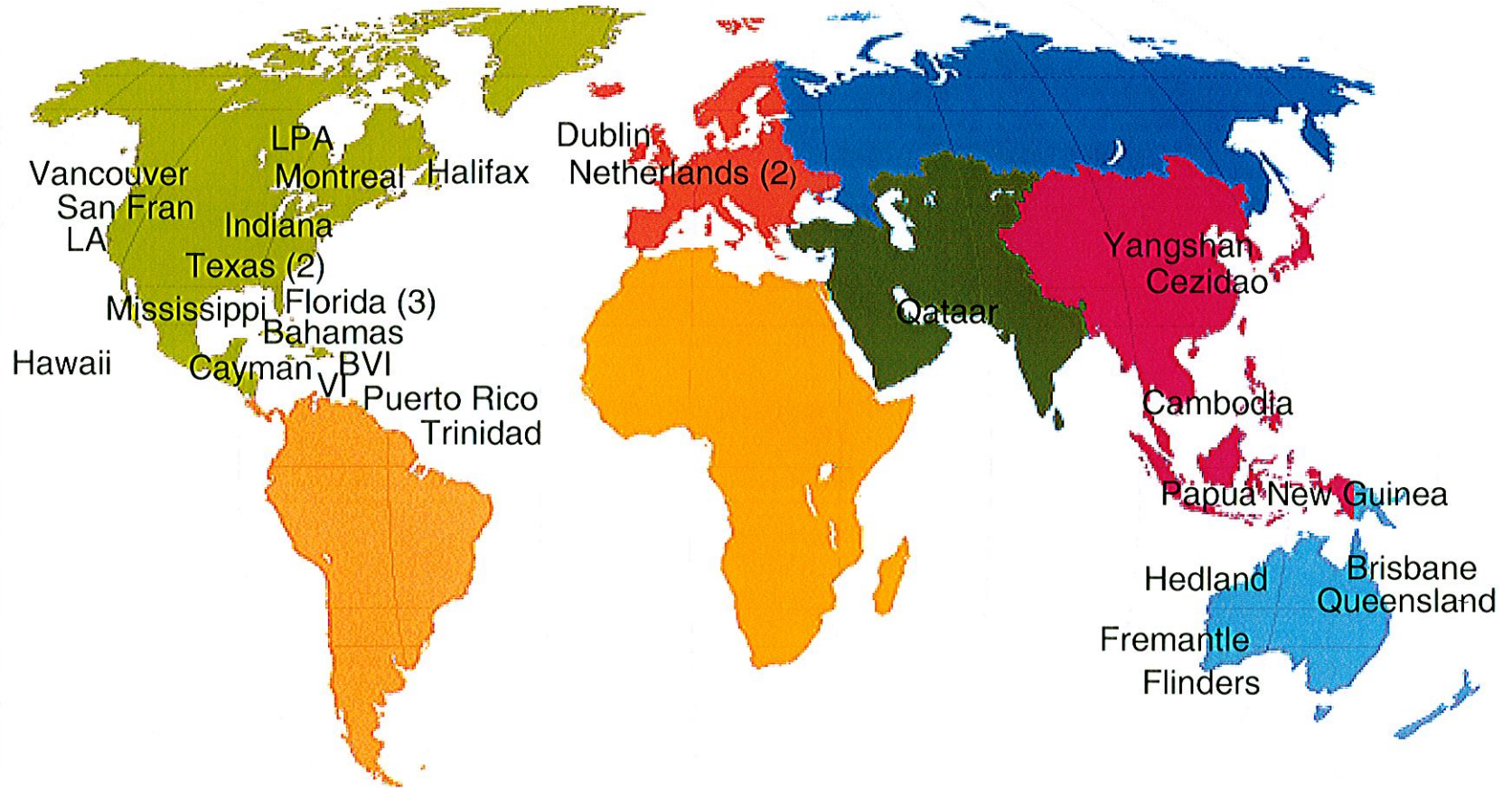
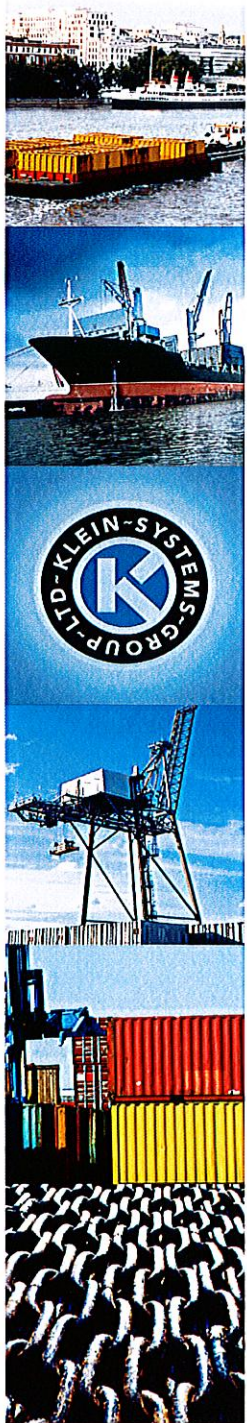


XVIII Latin American Themes

- Collaboration, Cooperation & Communication – the 3 C's
- Economic Depression – what now?
 - Strategize
 - Prepare & Plan
 - Invest x 3 for future market share

❖ Conference Themes

Global Customer Base Over 25 Years Experience

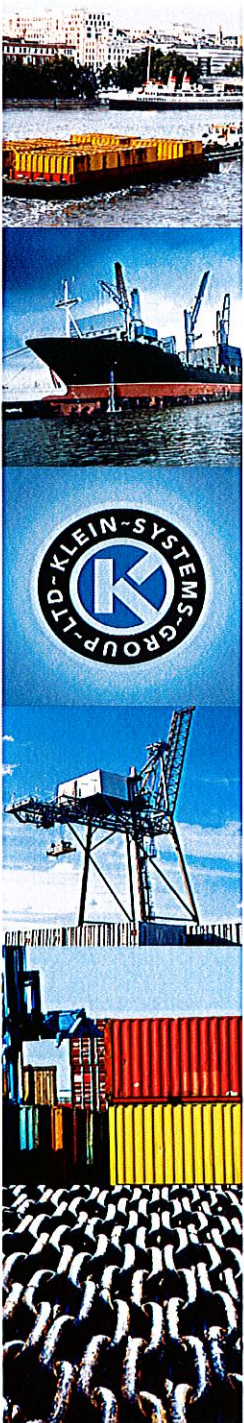




Port System

- Challenge

Operational Breadth of a Port



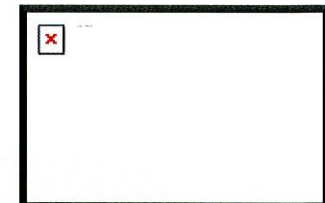
Agents & Port Community



Traffic Management



Pilot Scheduling



Boat and Launch Scheduling



Tug Scheduling



Lock Management



Port Services Planning



Waste Control



Container, Cargo & Yard Management



Cargo & Dangerous Goods



Warehouse Management



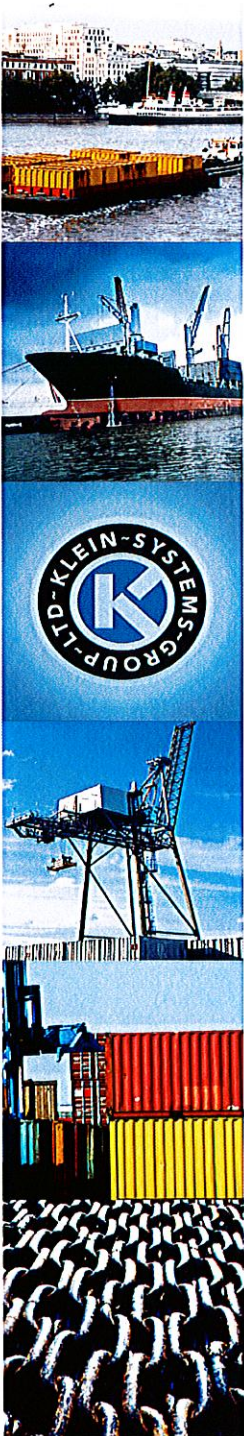
Billing & Accounting



Repetition

- A lot of Information
- Various types of users
- Information Dispersed
- Different Information Formats
- Different views of information (data, graphical)
- Dispersed locations of input and reporting
- Extensive Reporting (Detailed, General, Formal)
- Integration of all port activities (vessels, cargo, billing, property)

3rd Party Information



Lloyd's Registry



Coast Guard



Customs



Manifest



SafeSeaNet



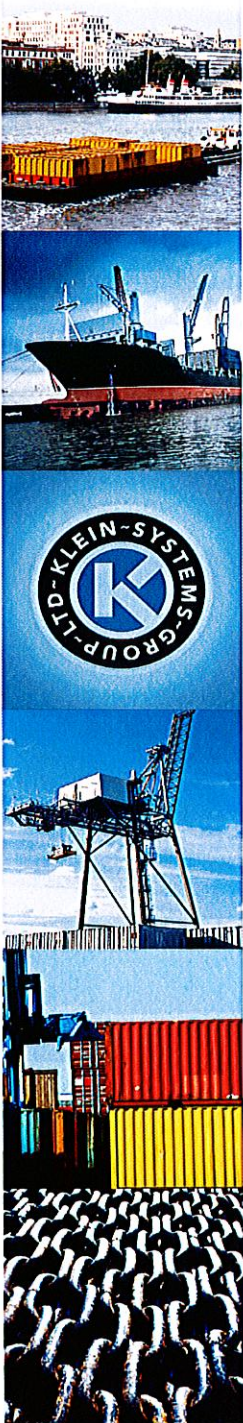
Agency / Shipping Line
EDI Message



Cruise Line
Long-Term Schedule



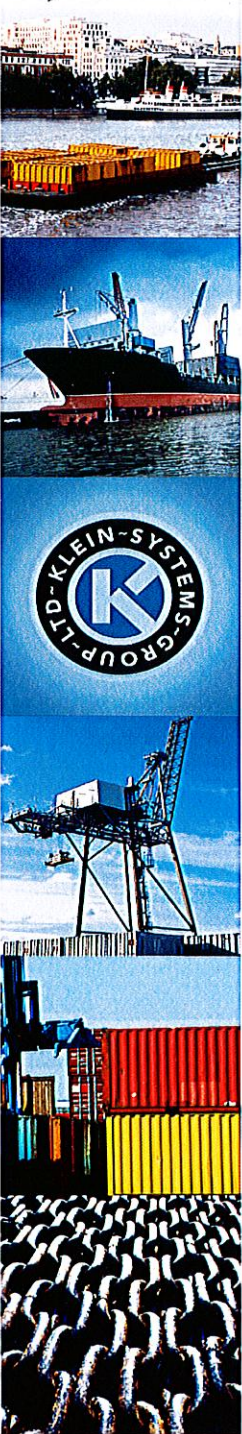
Pilot Association



Different Information Records

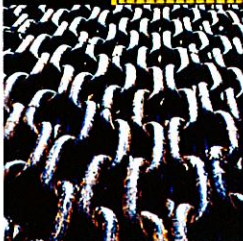
Same Information is gathered and used in different ways

- Paper, carbon copy, fax, notes
- White boards
- Magnetic boards
- Rulers
- Sticky notes
- Cargo manifest
- Agent request, confirmation
- Service providers, request, confirmation, change



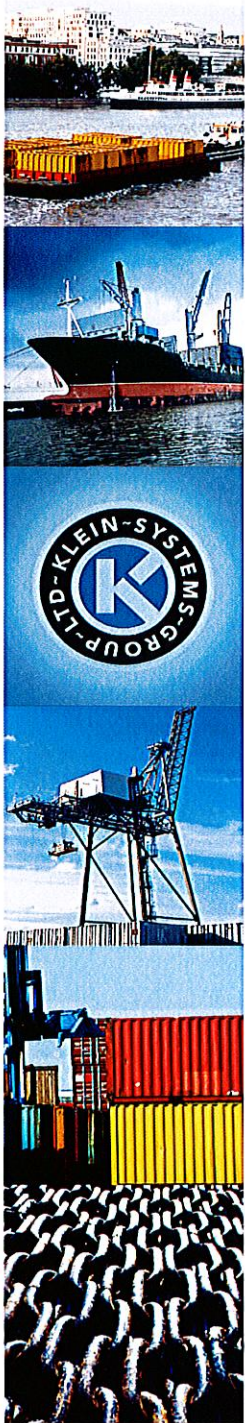
Operational Challenge

- Integrate information from Silos of Information
- Communicate and share all data and information
- Operate more efficiently with accurate & timely information



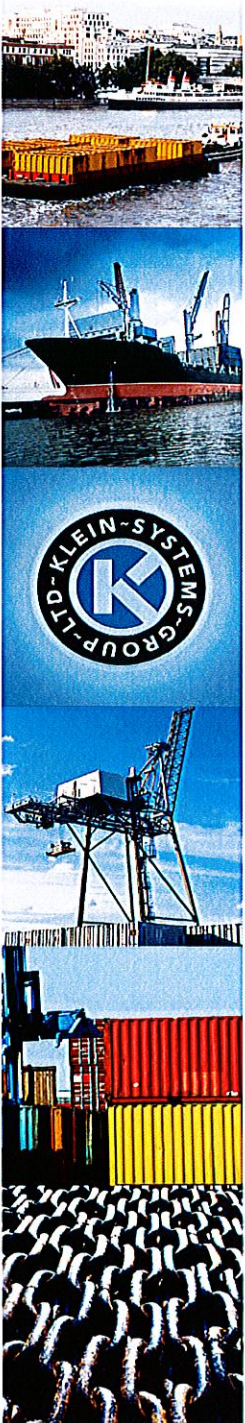
Solution

- Port MIS : Management Information System



Solution - expanded

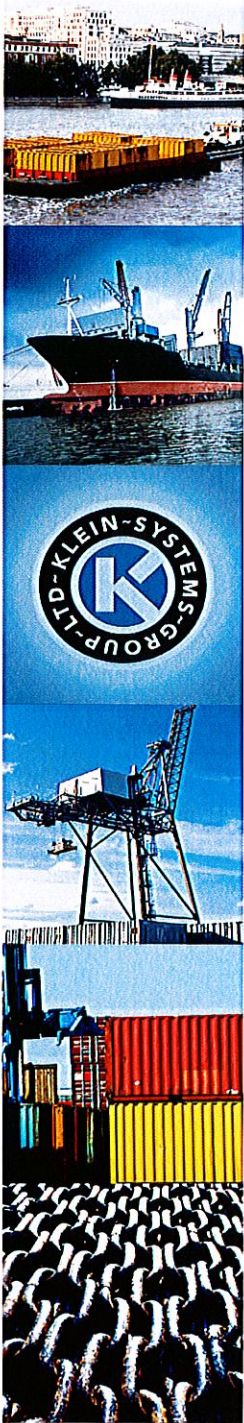
- Manage flow of info from various sources
- Enable community collaboration
- Info sharing not replication
- Accurate and timely info
- Automation of port rules
- Access rights



Port System –Detailed Results

- Information Integration (eg.)
- 3 main components of a port system interconnected

Vessel Related Info



Web Booking

Berth Planning

Resource Planning

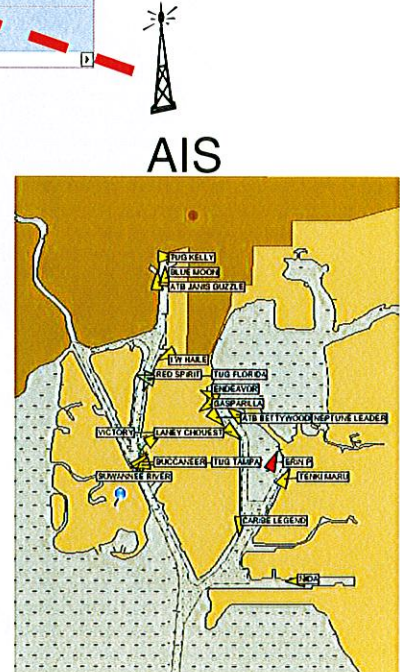
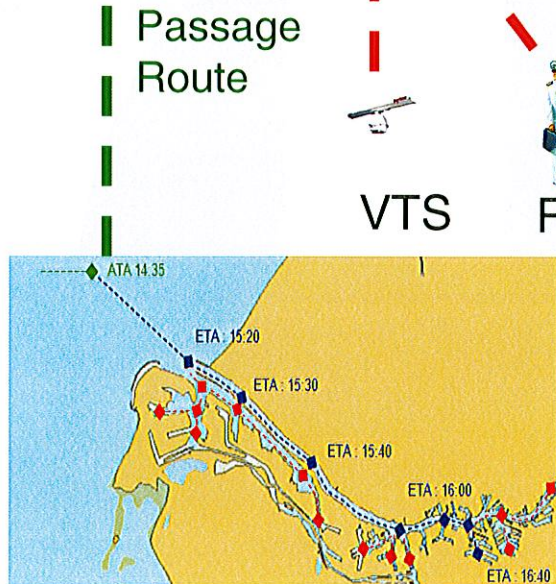
Conflicts Resolution

Traffic Control

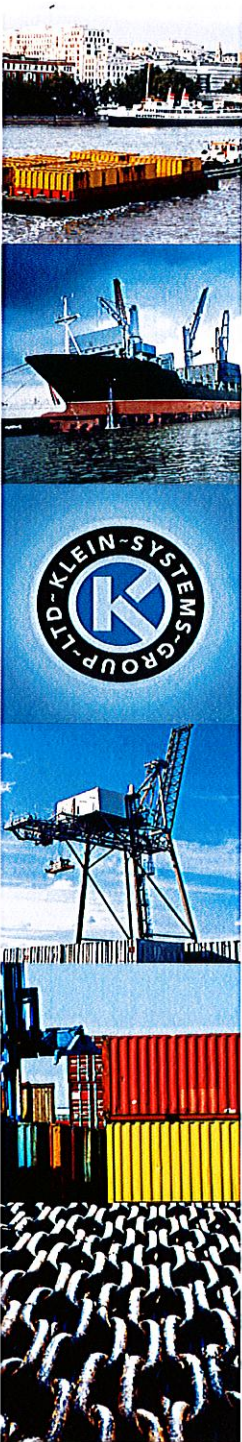
Maritime Community Collaboration

Reports

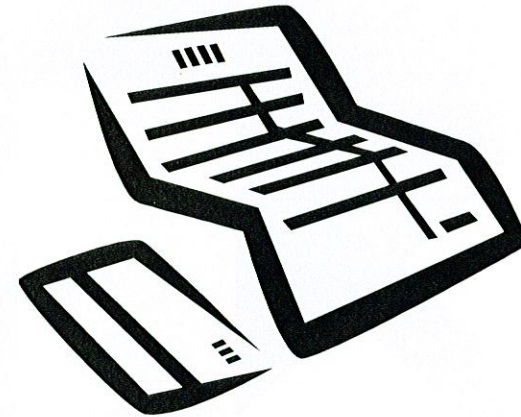
Rank	Waypoint	ET	AT	Eta Handmodified	Visible	Delay T	Delay Reason
1	SEA	03/22/2009 01:00		03/22/2009 01:00	✓		
2	SEA BUOY	03/22/2009 01:00			✓		
3	CHANNEL	03/22/2009 01:06			✓		
4	Turning Basin	03/22/2009 01:10			✓		
5	Knuckle	03/22/2009 01:17			✓		
6	30	03/22/2009 01:24			✓		



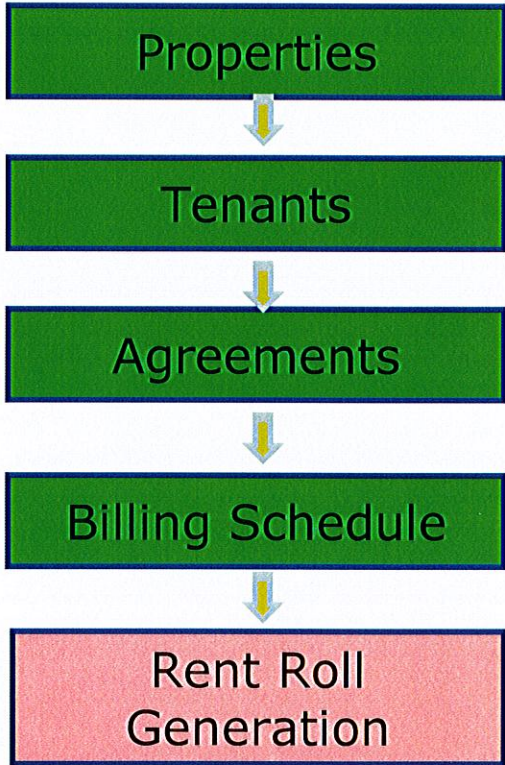
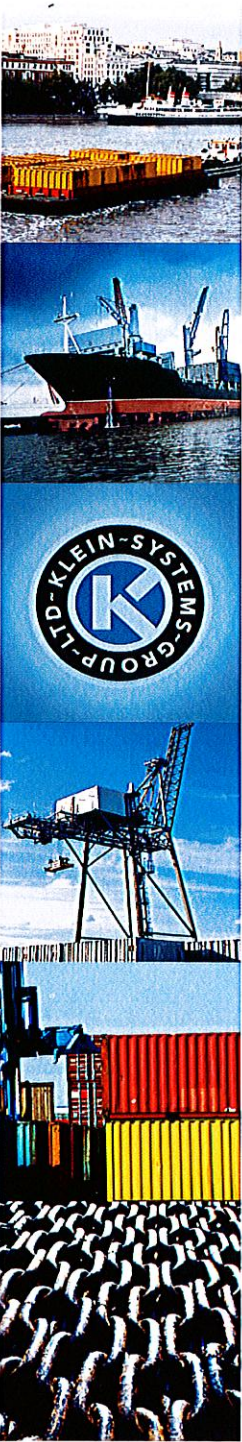
BILLING



Billing Related Info



Property Management Info



Government Website

Year	Land	Building	Just Value	Assessed 2009 Value	Tax
2009	\$1,794,450	\$1,173,570	\$2,968,020	\$2,958,030	\$2,958,030
2008	\$1,794,450	\$1,173,570	\$2,968,020	\$2,958,030	\$2,958,030
2007	\$1,682,310	\$1,064,840	\$2,747,150	\$2,747,150	\$2,747,150

2009 Exemptions and Taxable Values by Taxing Authority	County	School Board	Municipal	State/Local
Just Value	\$2,968,020	\$2,958,030	\$2,958,030	\$2,958,030
Portability	0	0	0	0
Assessed in DBI	\$2,958,030	\$2,958,030	\$2,958,030	\$2,958,030
Homestead	0	0	0	0
Add. Homestead	0	0	0	0
Other	0	0	0	0
Exempt Type	0	0	0	0
Taxable	\$2,958,030	\$2,958,030	\$2,958,030	\$2,958,030

Property Info Additional Info

Other Info

Tax # _____ Parcel # _____

Legal Description _____

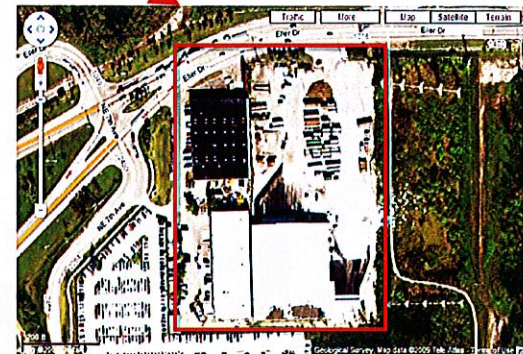
Address _____

Folio Number 504223000562 Taxes Current

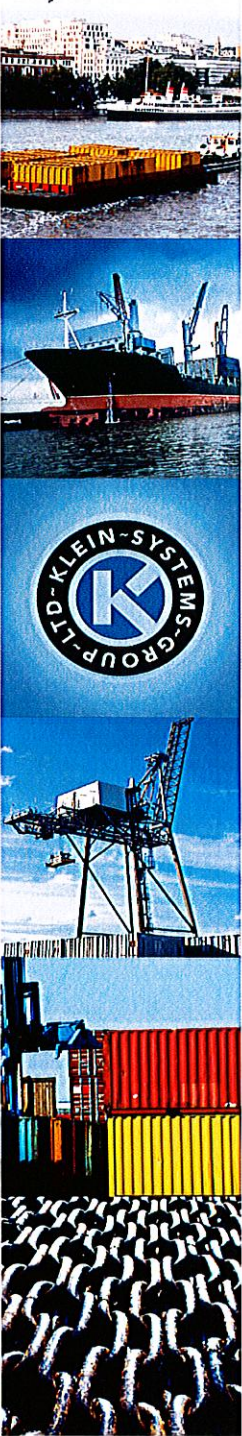
Map Info

Parking Space 50

Allocated Parking Space 0

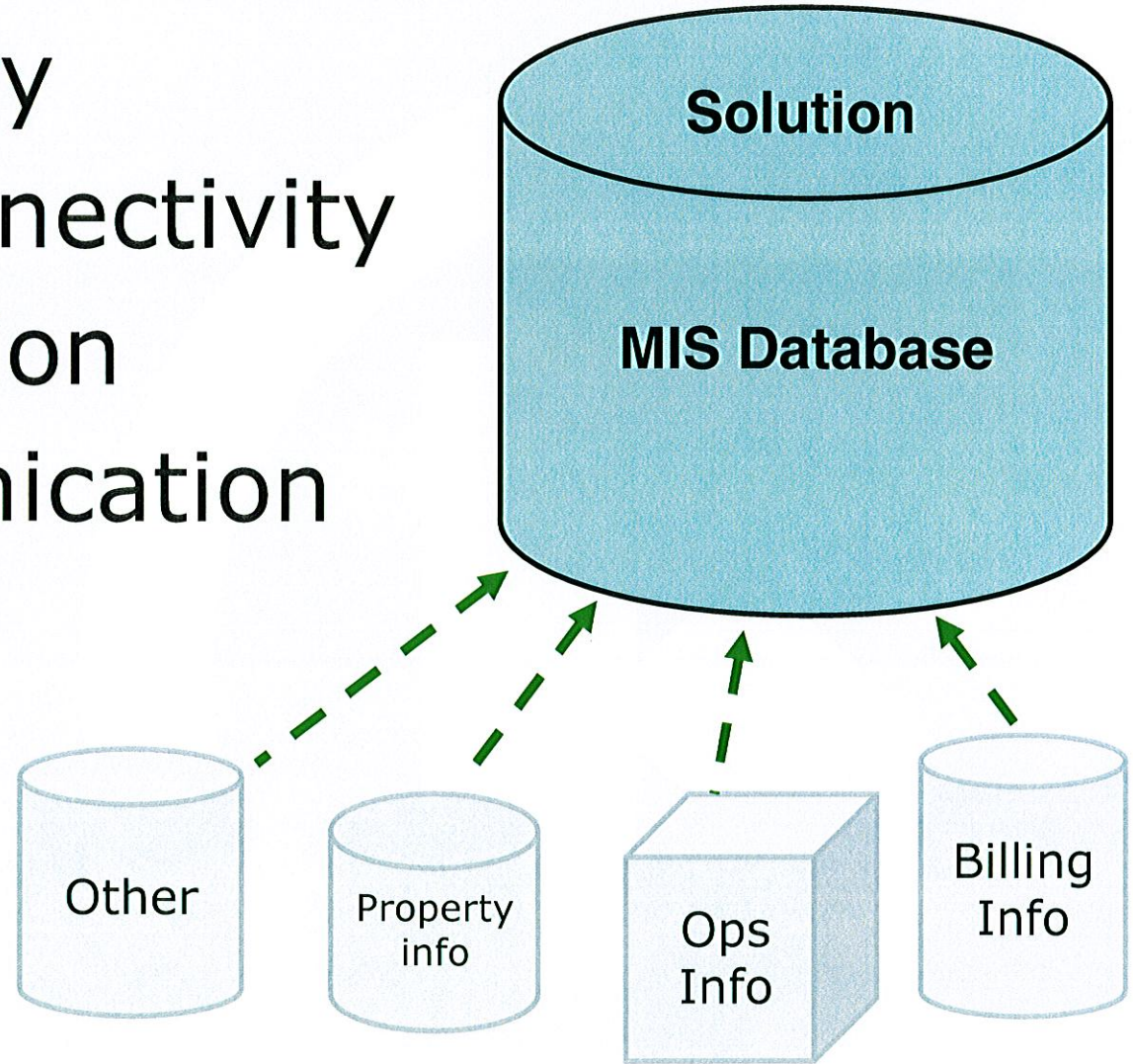


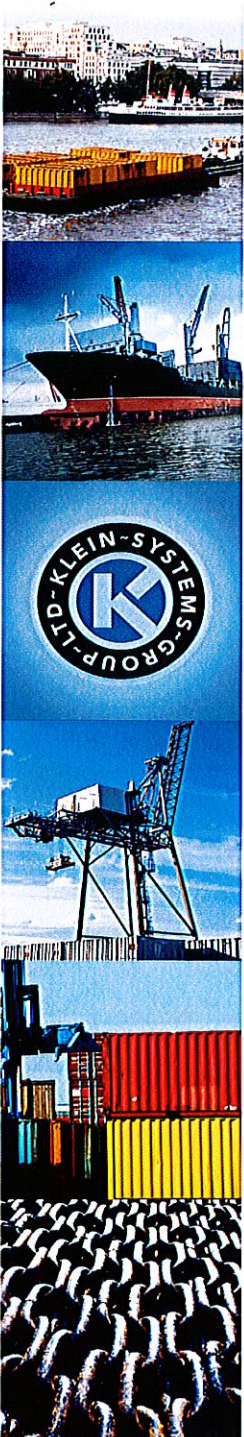
GIS System 16



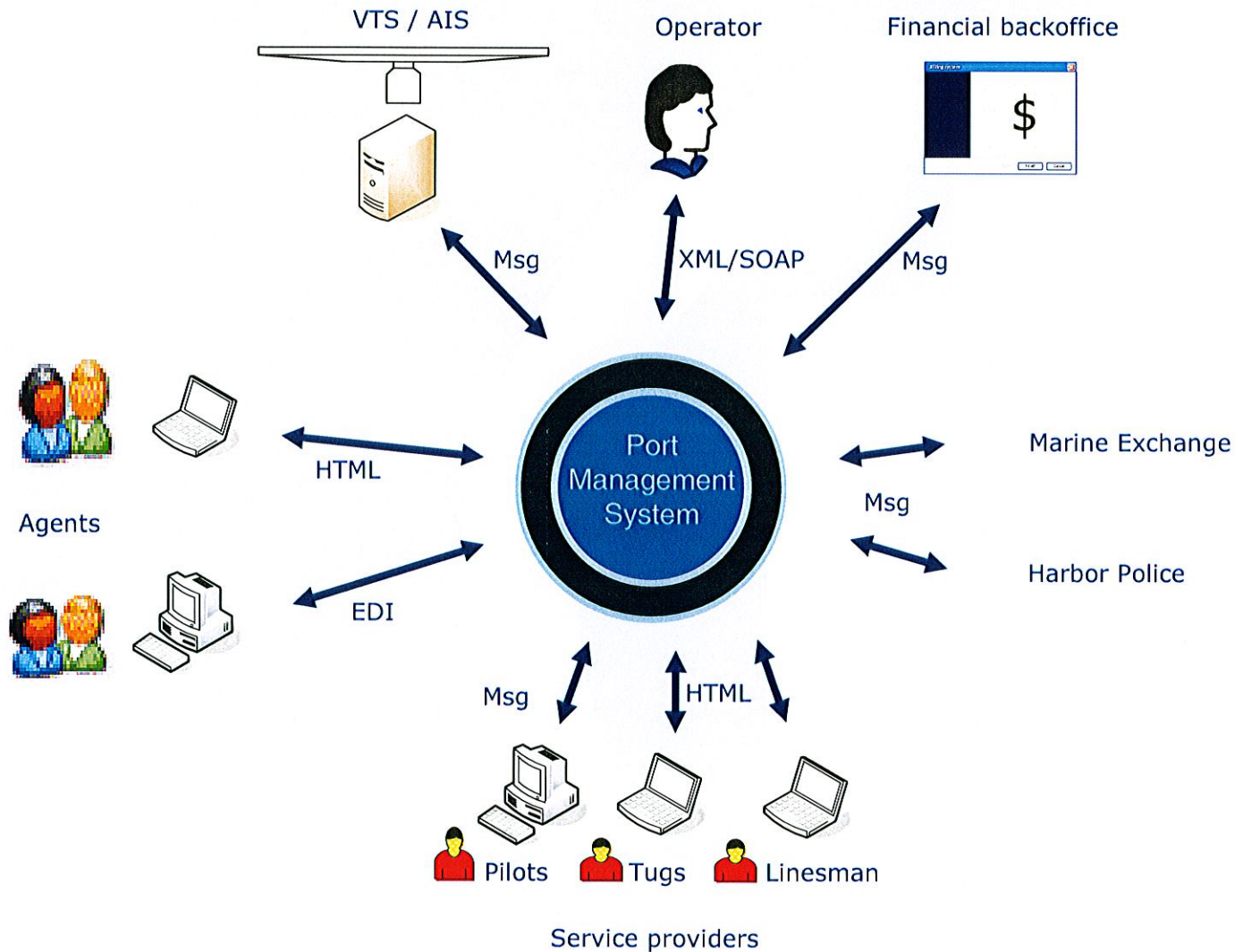
Port System

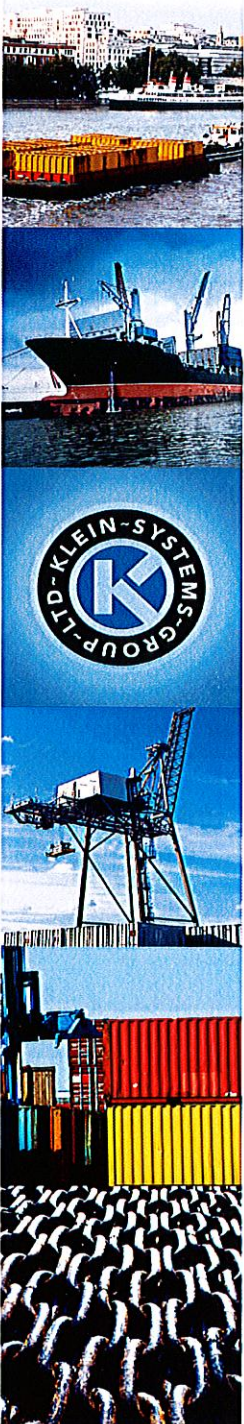
- Summary
- Interconnectivity
- Integration
- Communication



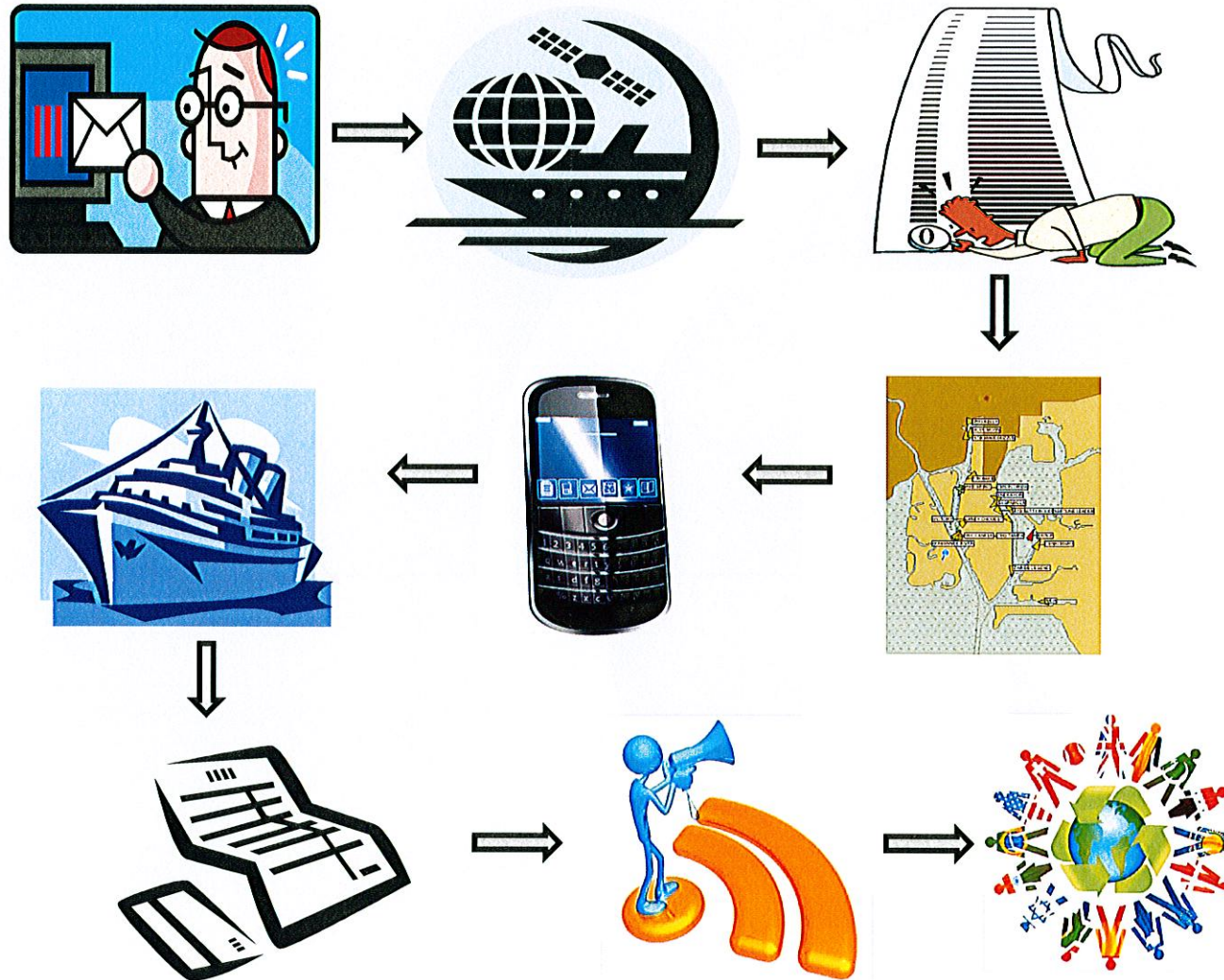


Example of a Port Environment

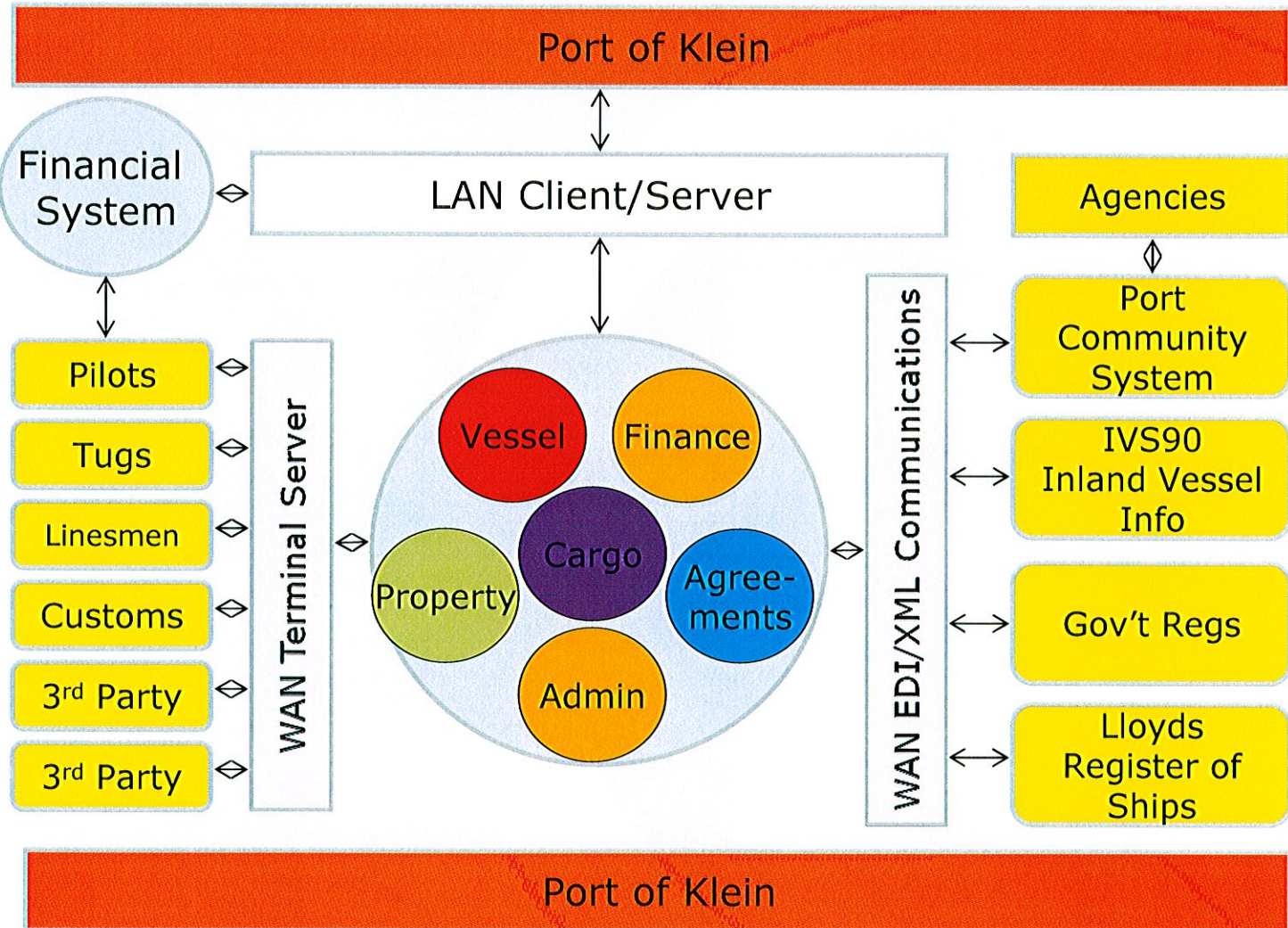




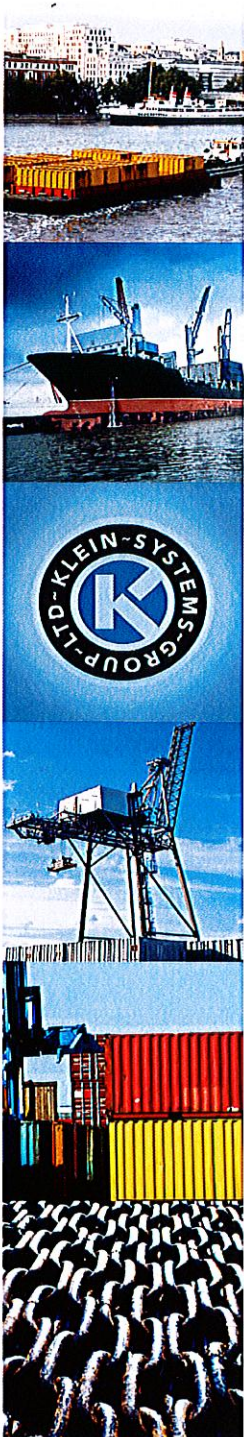
Info Entered Once and Shared



Interconnectivity



3rd Party Information



Lloyd's Registry



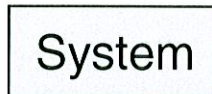
Coast Guard



Customs



Manifest



SafeSeaNet



Agency / Shipping Line
EDI Message

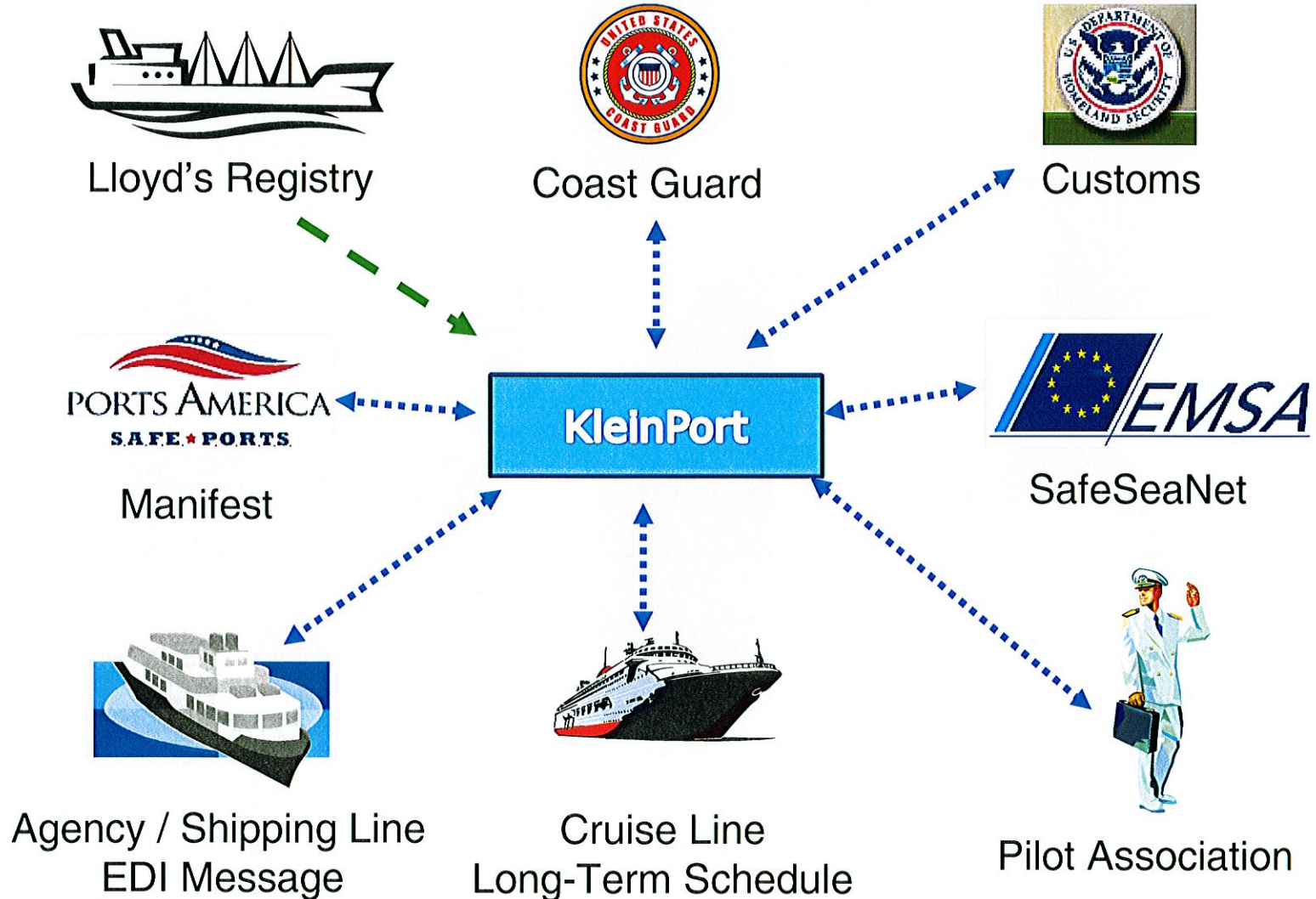


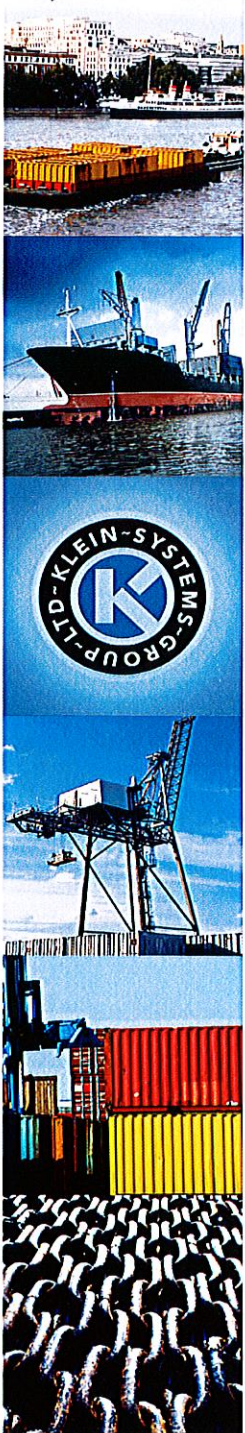
Cruise Line
Long-Term Schedule



Pilot Association

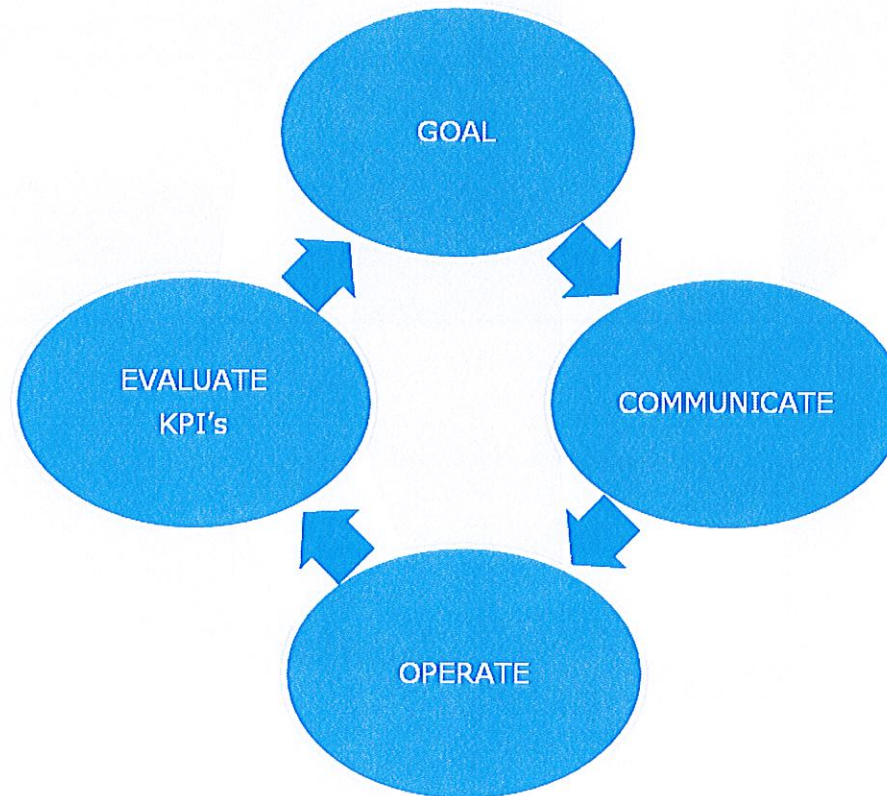
Integration

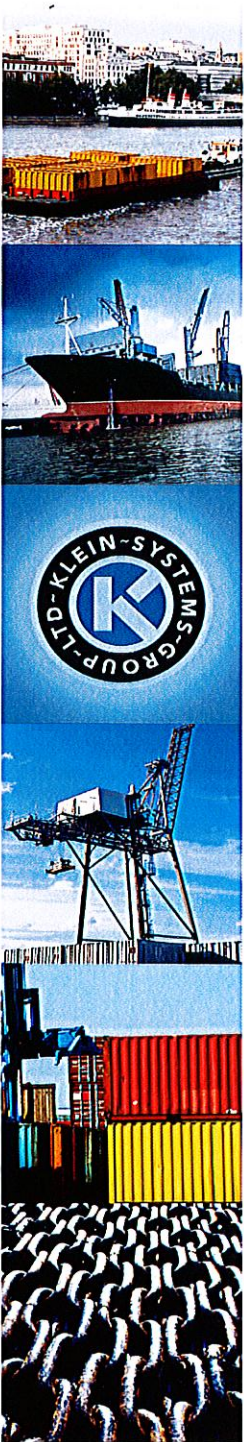




Communication

- Info in -> record
- Record -> report
- Report -> communicate



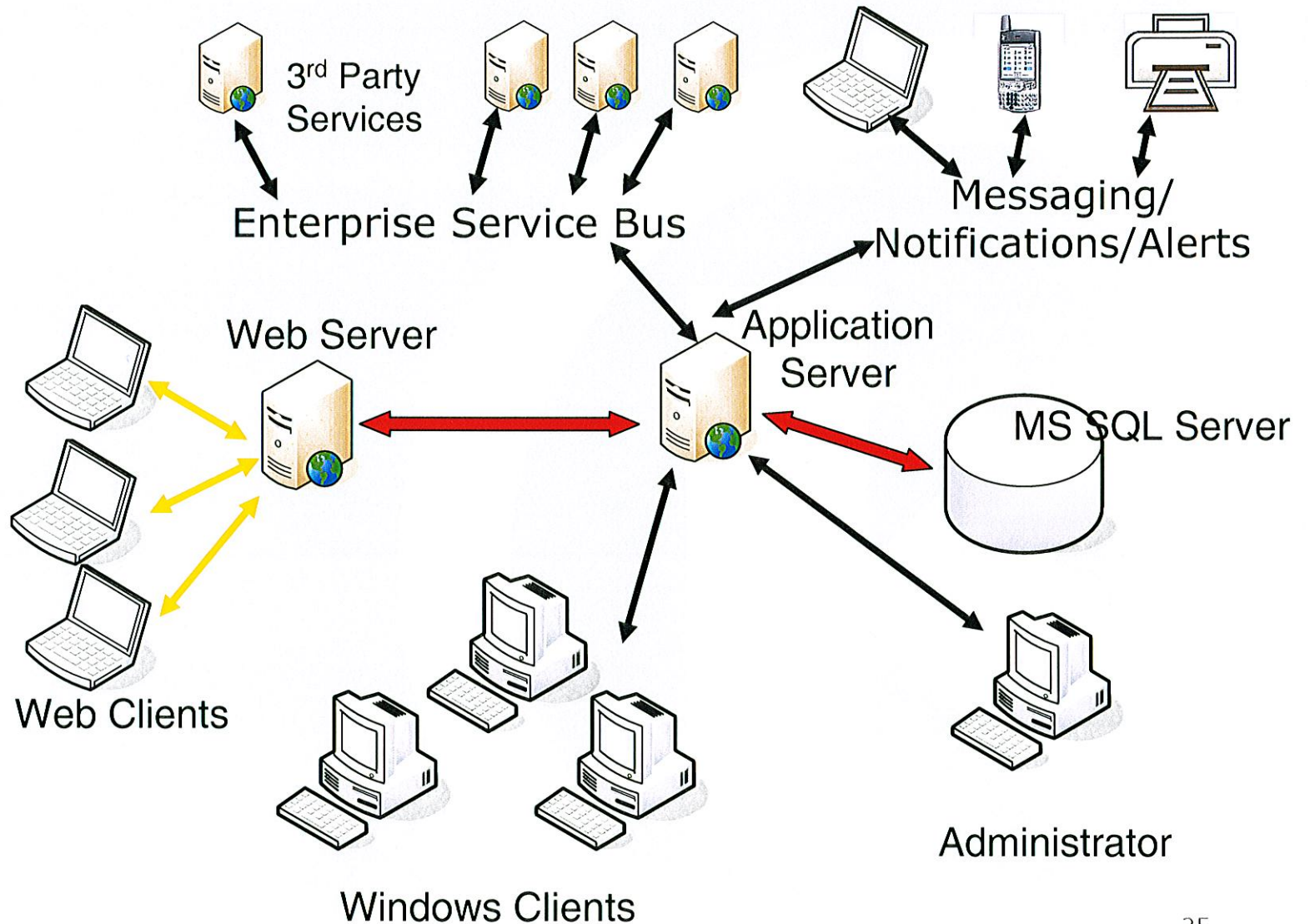


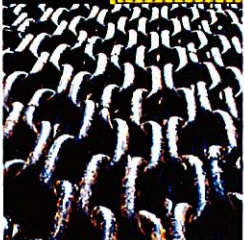
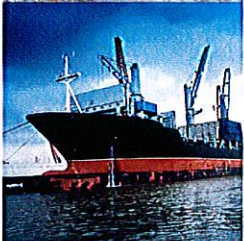
Problem Solved

- Integrate information from Silos of Information
- Communicate and share all data and information
- Operate more efficiently with accurate & timely information



Solution Architecture





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- Thank you