









MARINE TERMINAL MANAGEMENT TRAINING PROGRAM

Long Beach, CA

September 14-18, 2015



A Few Select Trends in Container Terminal Planning & Operations:

Blame it all on PFR.



Paul F. Richardson Associates Inc.





OPERATIONAL & FINANCIAL ANALYSIS

TRANSACTIONAL ADVISORY

ADVISORY & CONSULTANCY SERVICES

Leveraging our experience as practitioners

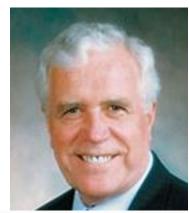
Developing and executing strategies across an unrivaled network

Use of detailed simulation and sophisticated modeling of operations

- Business Planning
- Asset Optimization
- Supply Chain Design
- Capital Expenditure Planning
- Operational Expense Analysis
- Benchmarking
- Productivity Engineering

- Due Diligence
- Business Asset Valuations
- Mergers & Acquisitions Support
- Facility & Asset Divestiture
- Financial Projections
- Privatization
- Concessions
- Enterprise Valuations

- Feasibility Studies
- Strategic Plans
- Market Research
- Market & Pricing Strategies
- Target Customer Development
- Information Technology Integration
- Project Management









From the PFRA Vantage.

- One of the "benefits" of providing advisory services, is that your usually cast in the "middle of several fire-fighting drills"....
- We have all heard, read and maybe have been involved in the latest, to include:
 - Larger vessels and alliance needs,
 - Spikes in arrivals/departures,
 - Delays in the stakeholder chain (e.g. labor, hours of operation, and such items as chassis),
 - Required and needed improvements to port related infrastructure.



A Few Select Trends in Container Terminal Planning & Operations:

The mantra to MTMTP!

Technology!

Alternative Gateways! 30 20 8) 100 200 500 1000 2000 5500

- P3's!



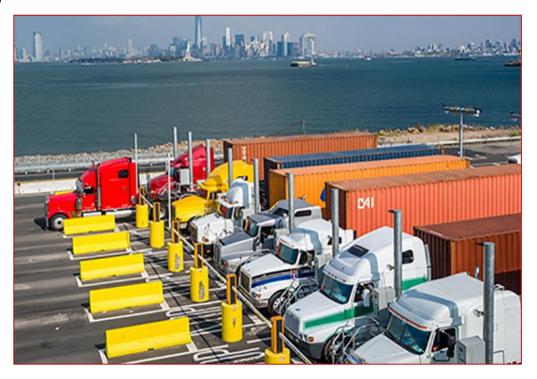
Its all about the gate.

Gate

- Pre-notifies
- Truck ID, container availability
- RFID
- Truck Management
- Tracks truck in yard
- Automates transactions

OCR

- Gate
- Yard
- Vessel
- Equipment Control
 - TOS
 - Directs ops in real time
 - Controls functions for yard.





A Few Select Trends in Container Terminal Planning & Operations:

It's the standard everywhere, even at alternative gateways.

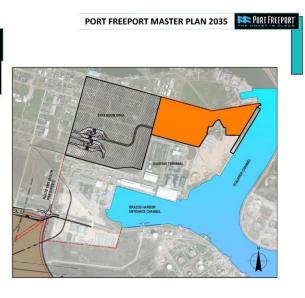




Right next door to Houston.

05
Phase II (Gate Complex)

- Within the next five (5) years, Port Freeport will have to undergo the creation of a new gate complex.
- This will be for all cargo, and incorporate the roadways along the port property lines.



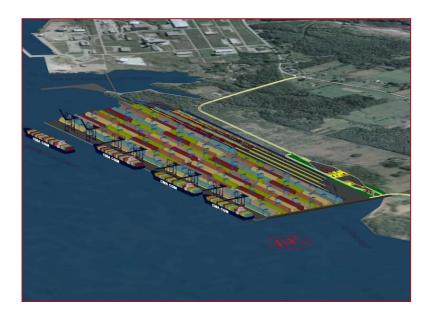
- Two years ago, it didn't really exist.....today, its "sold out".
- Why?
 - Technology applications
 - Throughput capabilities
 - A "clean alternative"

INTERIM STATUS REPORT-MAY 2014



More new gateways.

- The "Prince Rupert of the East"......
 - The closest port in North America to the Suez Canal.
 - Another "canvas".





Technology and what it brings!









Maritime Cyber Assurance

- Single largest issue now coming at us....
- If a commercial standard is not created; one will be regulated for us.....
- Where do we stand today?

Forget the problems with chassis!

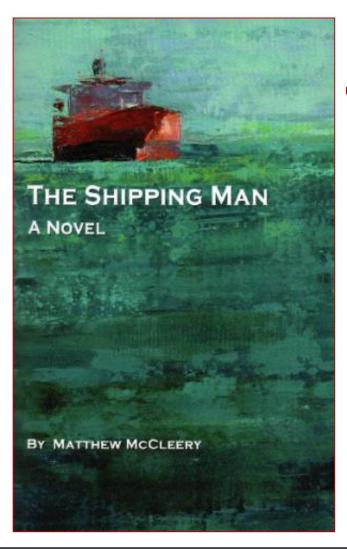


They have done it!

- The patents are there,
- The users and standards are there,
- The money is there.
- When will they be on the terminal?



Is Wall Street the new Port Authority?



They are driving the bus!

- They already have had the terminal play,
- In many instances, control operating companies,
- Dredging is being monetized with the shortfall of USACE funding,
- They are very active in most of the newer projects e.g. concessions,
- They are increasing their vessel portfolio,
- It is all about supply/demand.