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Presentation

PIANC

Port Productivity

Working Together

PIANC - Maritime Commission

Core business of MarCom

Identify areas in the seagoing marine navigation sector needing evaluation and technical recommendations and establish working group to address.

PIANC - Maritime Commission

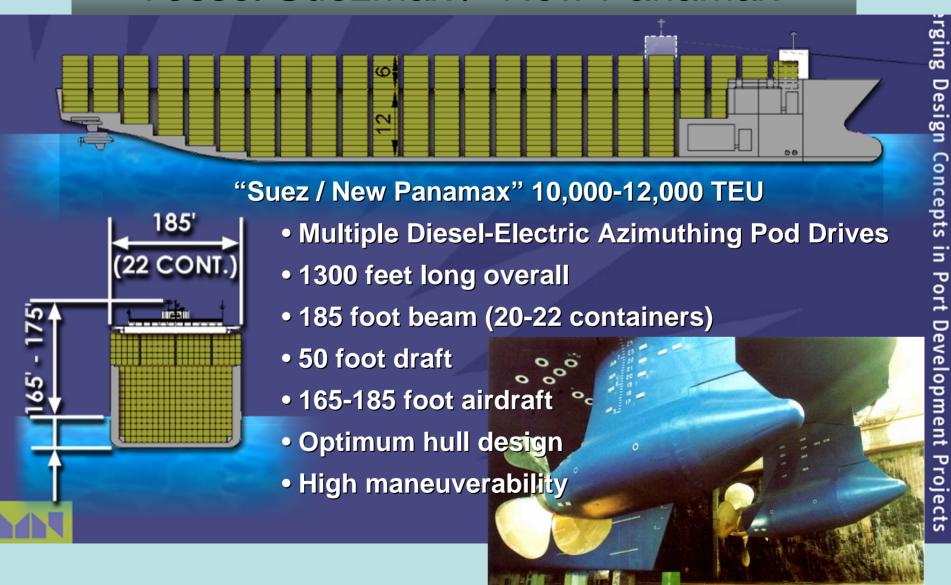
Changes in the Shipping Industry

The most spectacular change is the growth of the world transport of containers and with that the increase of ship dimensions.

This leads to larger cranes, deeper quay structures and wider channels and basins. Furthermore, it is the business attitude of the major shipping companies, which leads to greater "dynamism" in their choice of ports of call, affecting the competition between ports and terminal operators.



"Most Likely" 10,000-12,000 TEU Vessel Suezmax / "New Panamax"



What is your Goal?

What is your goal to increased productivity?

- Volume
- Accuracy
- Reliability
- Speed/Service
- Lowest cost
- Marketability
- Flexibility

Three Elements of Container Yard (CY) Capacity

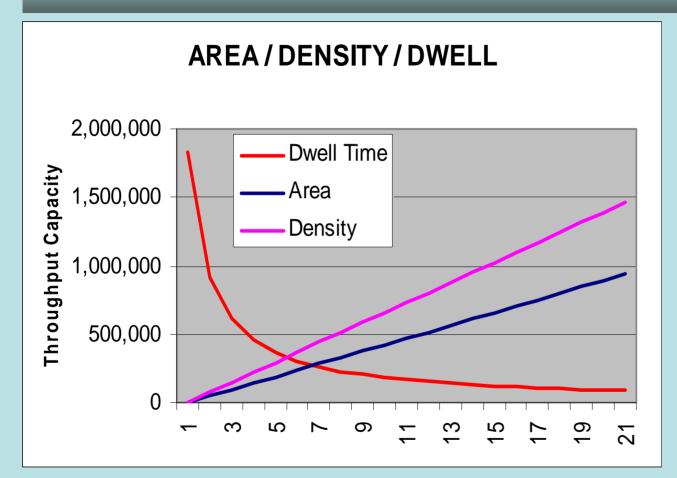
Area

Density

Dwell time



Terminal Capacity





High Dwell Time is Devastating to Capacity!

Increased Productivity

Reduced Dwell Time is Important, but not the only consideration

- Capacity may meet demand
- May not reduce costs
- May not be what the customer wants

What are we trying to achieve?

- Lower Operating Costs?
- Increased Capacity?
- Happier Customers?
- Increased Competitiveness?
- Most Advanced Technology?

Productivity Benchmarks

- TEUs per hectare per year
- TEUs per m of berth
- Moves per crane
- Box Dwell Time
- Crane Transfer Rates
 - Working Rate
 - Moves per shift
 - Moves per year
 - Operating hours
- Gate Moves

Gate Moves

- Transactions per hour per lane
- Transactions per hour per clerk
- Cost per transaction

Truck Turn-Time

Solutions – Japanese Ports

- EDI installed
- Negotiations with labor unions
- Extension of customs' hours
- Improved logistics functions
- Developed M&R system
- Established one-stop procedures integrating land and marine operations

Challenges

Infrastructure

Role in Intermodal System

Training for the Future

Working Together

PIANC

U.S. Section, PIANC

U.S. Army Corps of Engineers

Conclusions

- Challenges not insurmountable
- Reasonable application of technologies
- Reasonable cooperation of labor
- Resources that are available to you, such as PIANC

Acknowledgements

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