



MAXIMIZING INVESTMENT AND UTILIZATION

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Two perspectives

**How to increase
use of the
facility**



**How to improve
the capacity of
the facility**

issues

Issues

- Cruise terminals have a very low utilization rate
 - Seasonally
 - Weekly
 - Daily
 - Hourly
- Whenever ports begin to optimize use, new competitive facilities are created lowering the use
- Cruise lines push for certain dates and times keeping utilization low
- Terminals are becoming increasingly more expensive
- Low utilization = low capital capacity

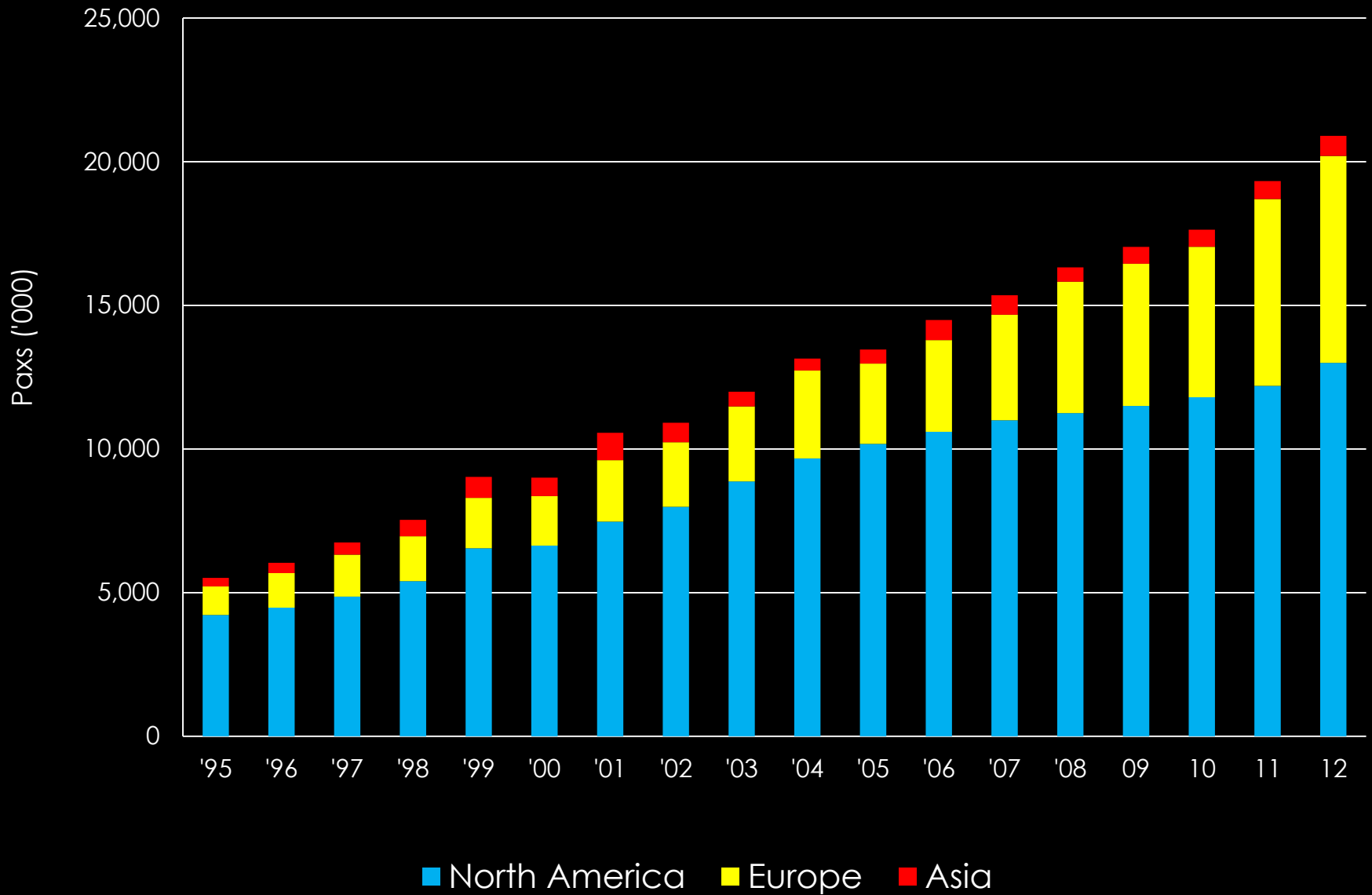
What drives low utilization?

- Interport competition
 - Come to my port – I will offer a Saturday berth
- Lack of cruise line competition
- Inability for ports to have meaningful discussions with cruise lines
- Lack of desire by cruise lines to change timing
 - Imagine an airport where people only begin vacations in the weekend?
- Lack of recognition of the strategic place of the port

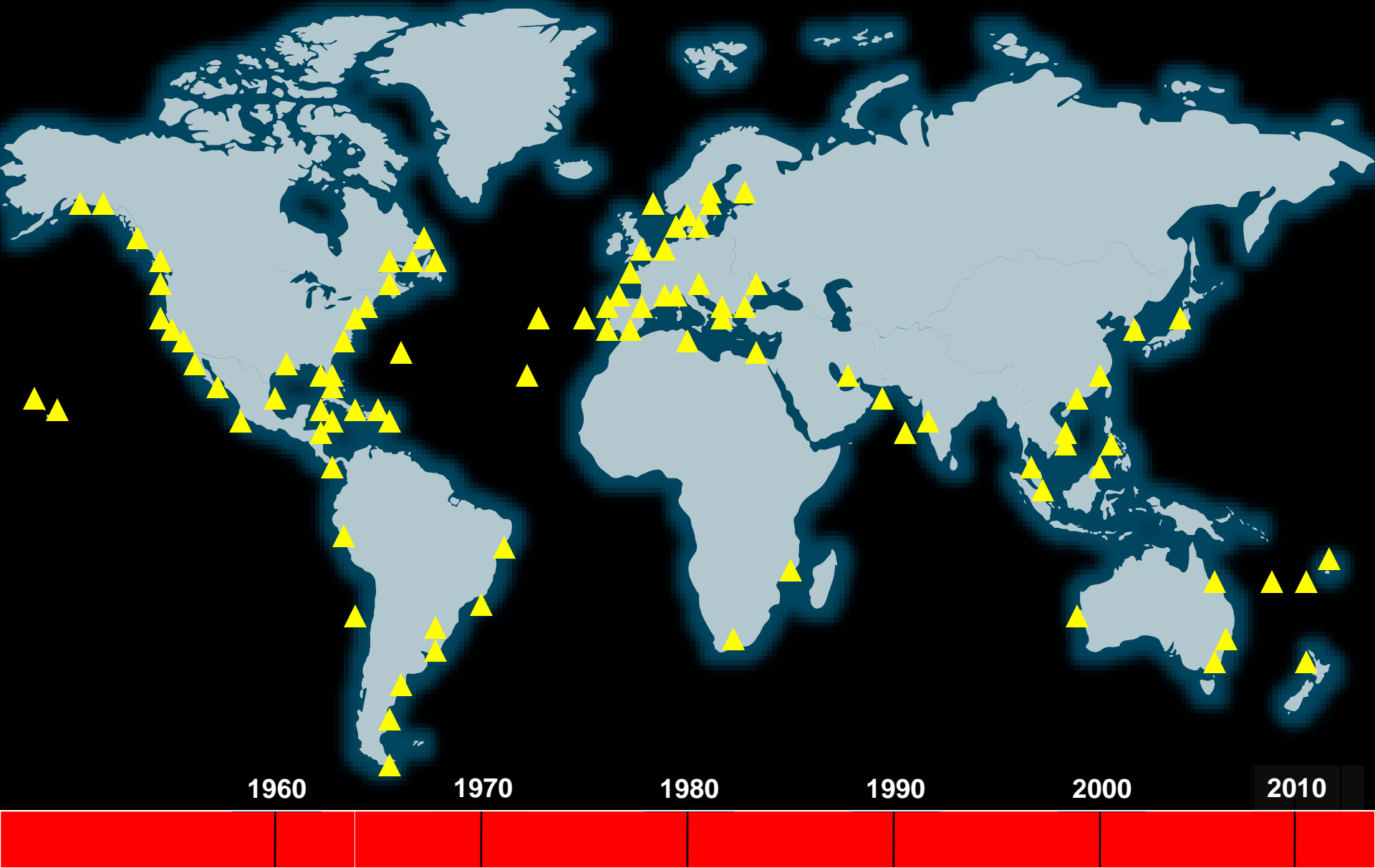


berth utilization

Global growth



Global expansion



Growth factors affecting ports

- Natural potential for development
- Timing of cruise line expansion and strategy
- Interline competition
- Seasonality (by month)
- Daily fluctuations

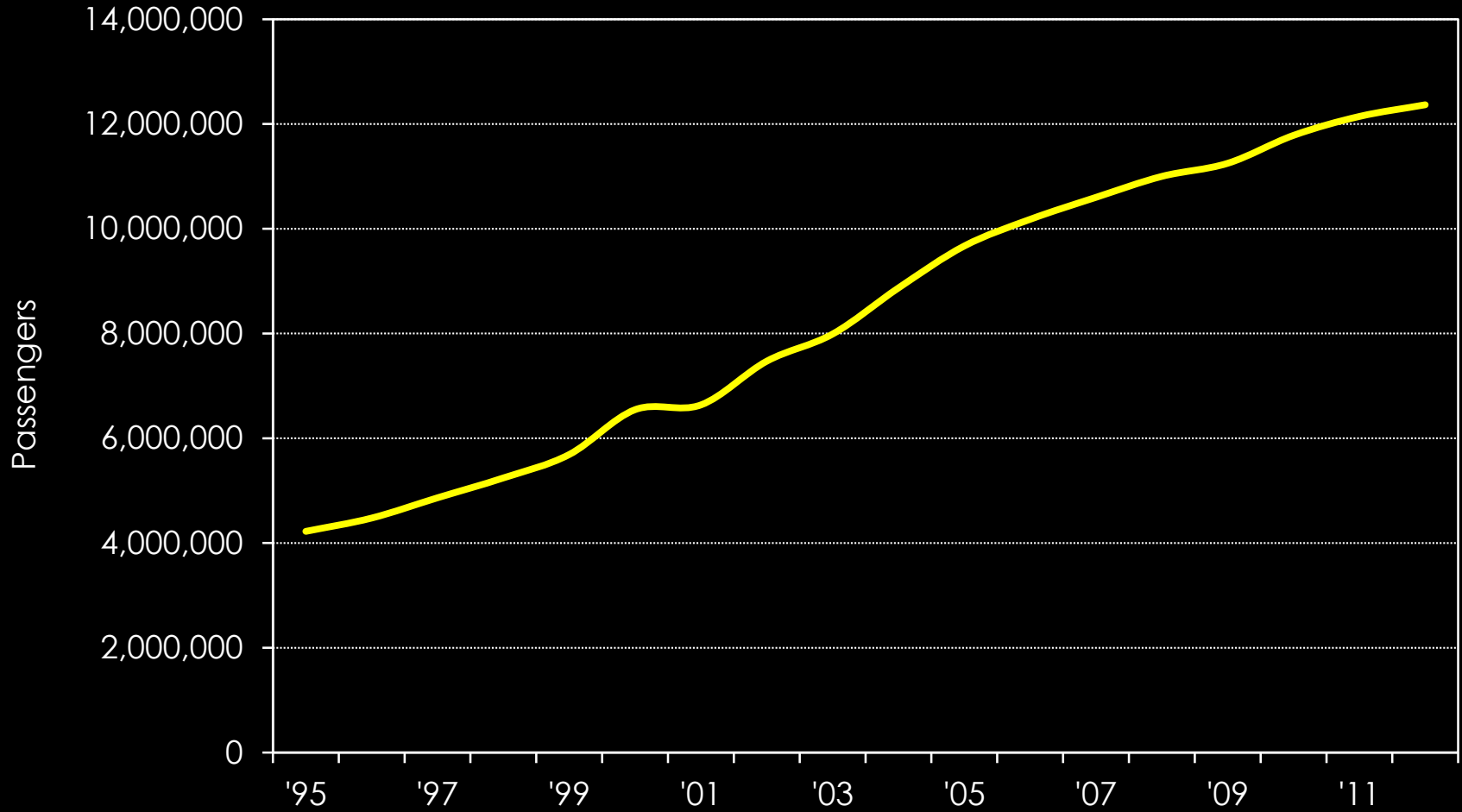


The 5 phases of port growth

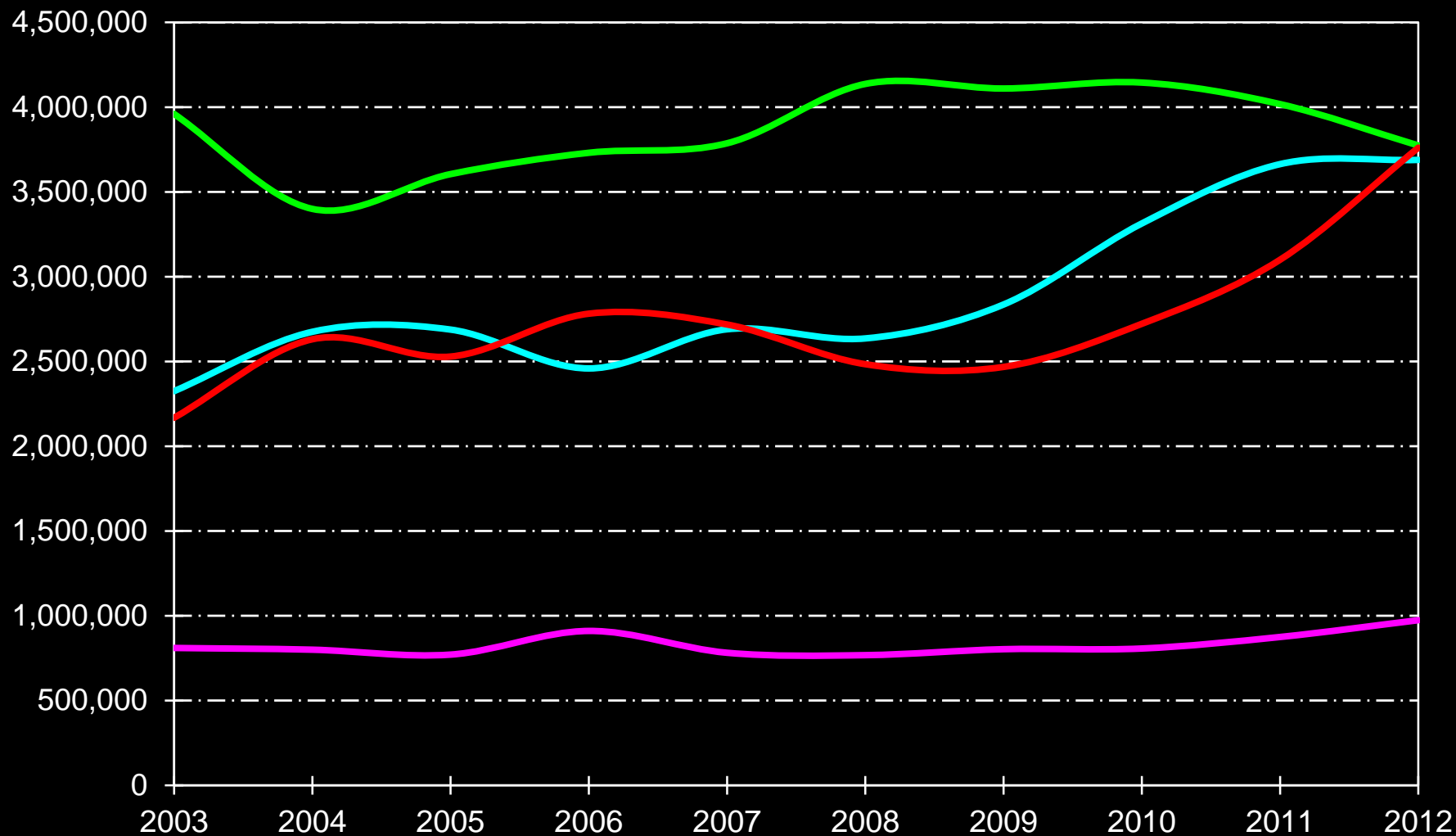
- 1 Growth through small ships
- 2 Growth through increases in ships and ship size
- 3 Growth through increases in ship size and decreases in numbers of ships
- 4 Growth through increases in size and number of ships
- 5 Back to growth in ship size



North American passengers

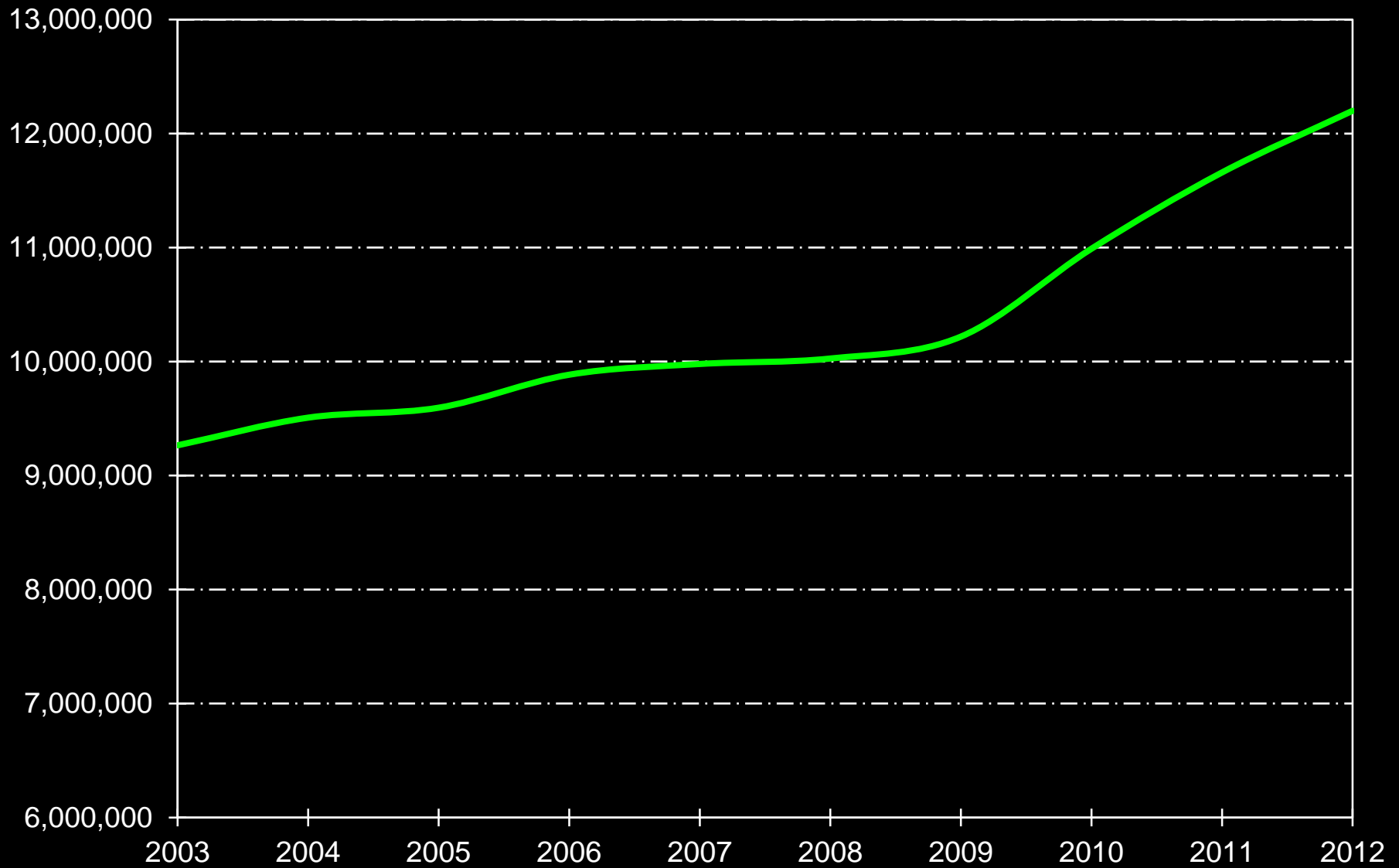


Regional homeport passengers (multi-day)



Port of Miami Port Everglades Port Canaveral Port of Tampa

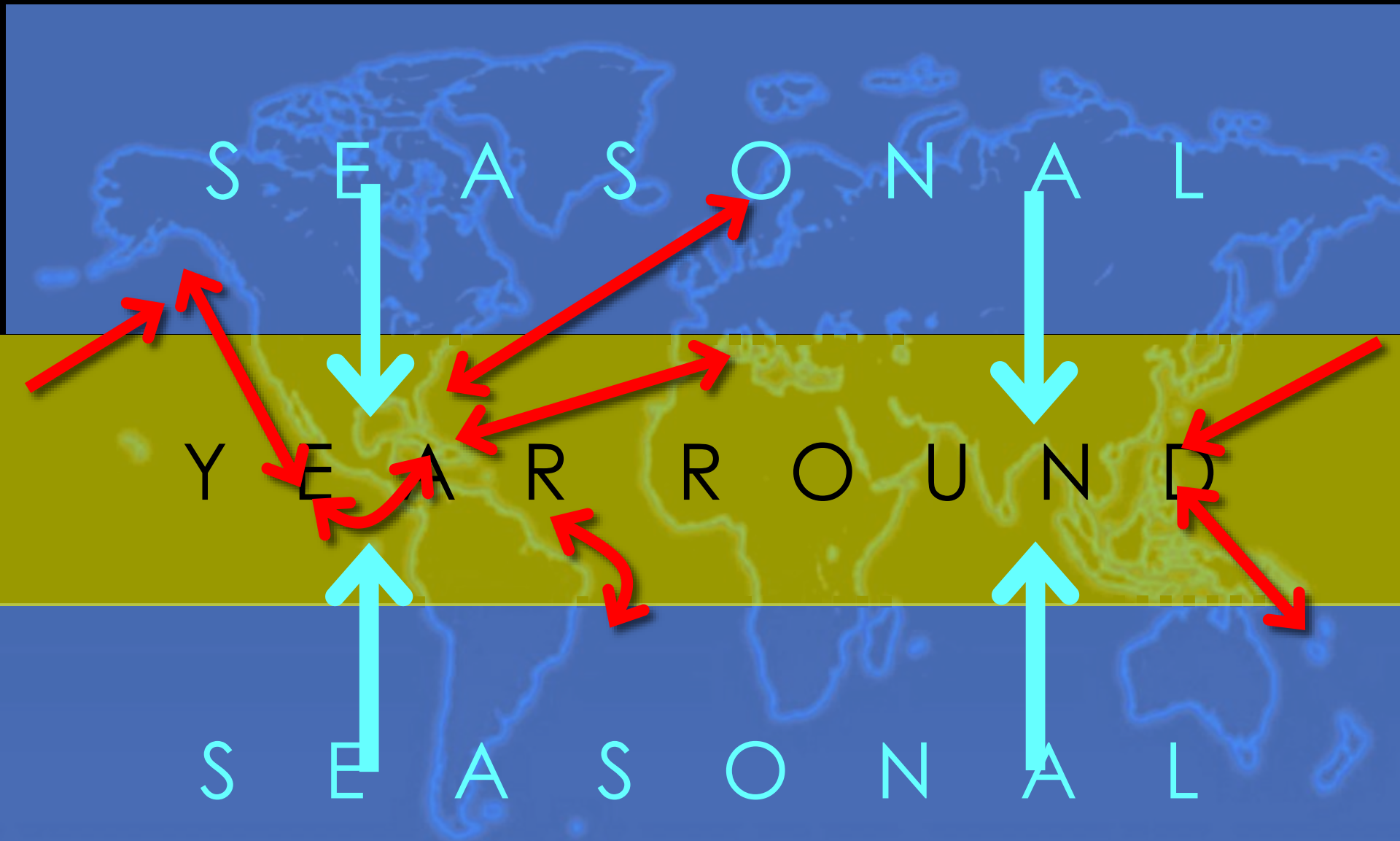
Florida homeport passengers



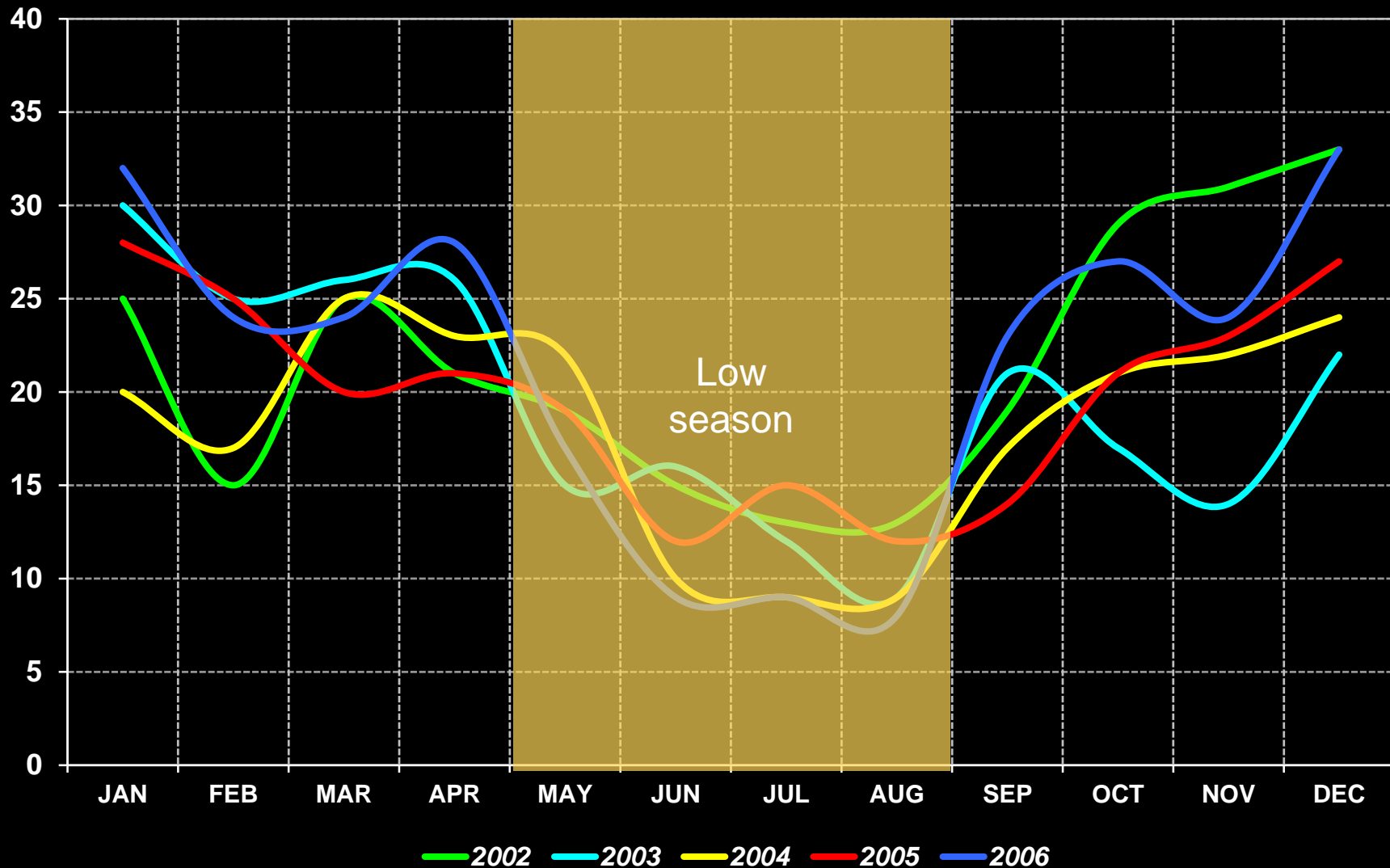
Keys

- Growth is not unlimited or linear
- Growth occurs in steps as capacity is added
- Lines tend to compete with each other at the same port, therefore causing large and fast increases
- There are glass ceilings at each port
 - Growth will diffuse to many ports as the lines continue to globalize
 - Lines do not compete with themselves
 - Capacity issues

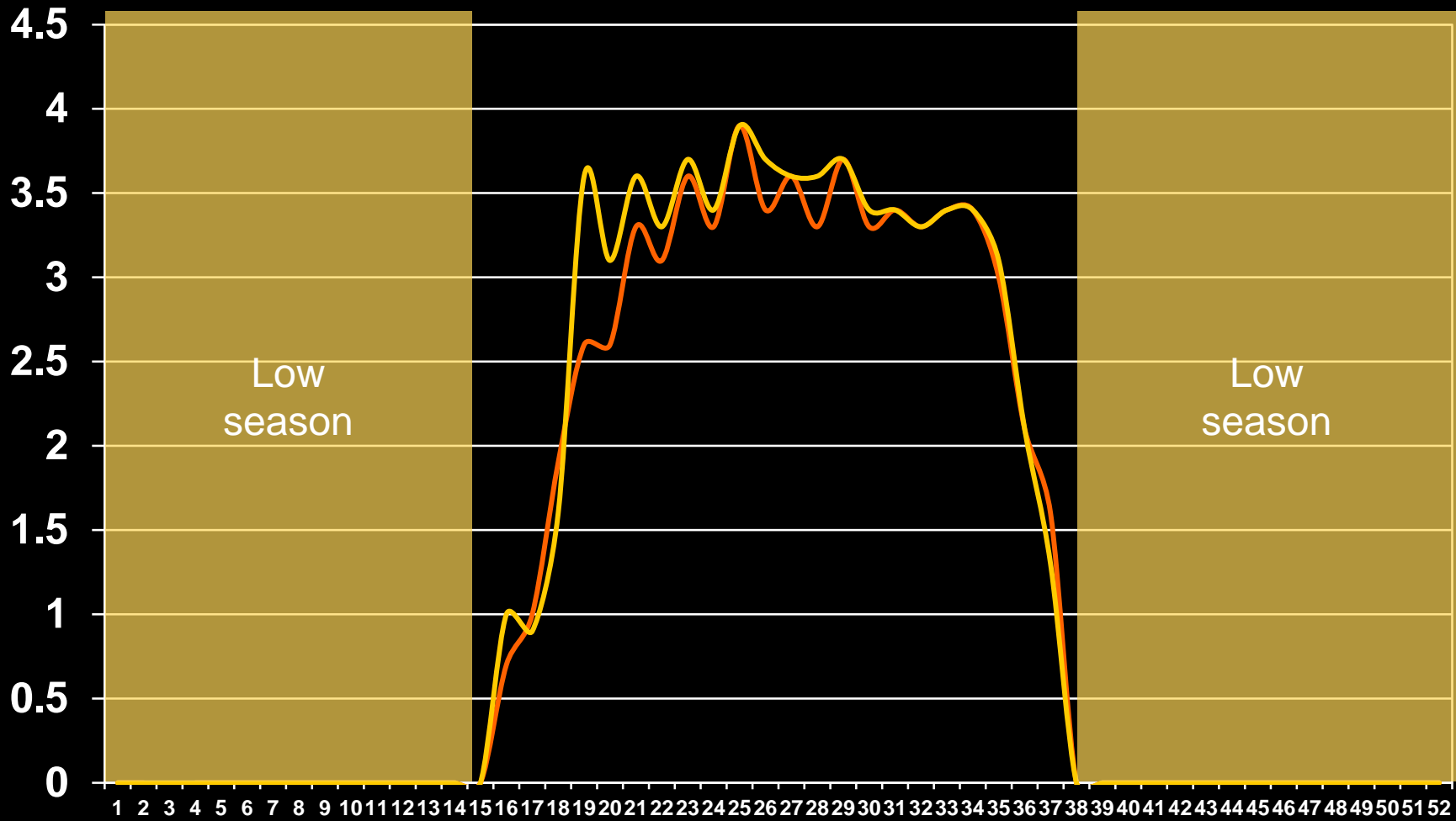
Seasonality



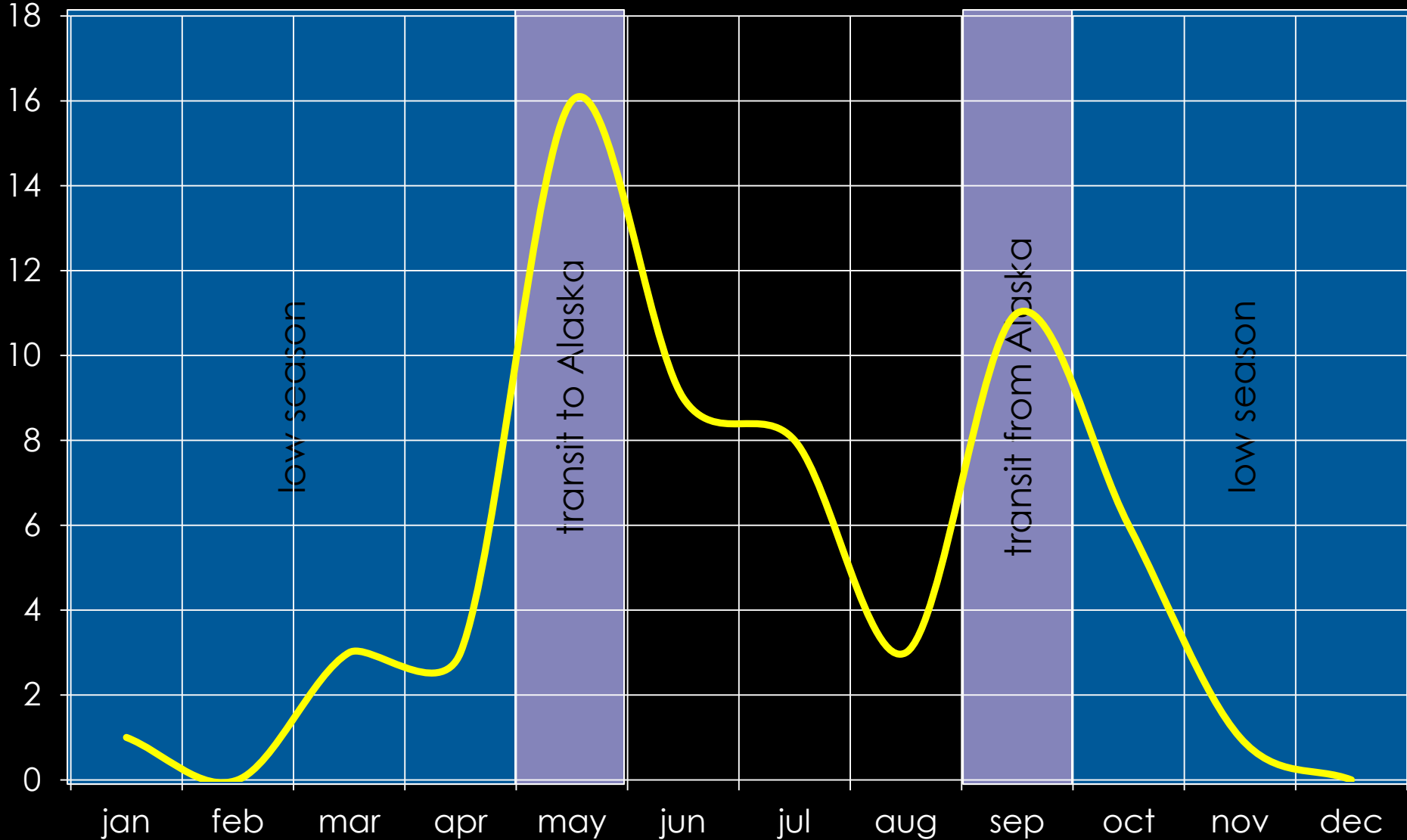
Warm weather seasonality (Los Angeles)



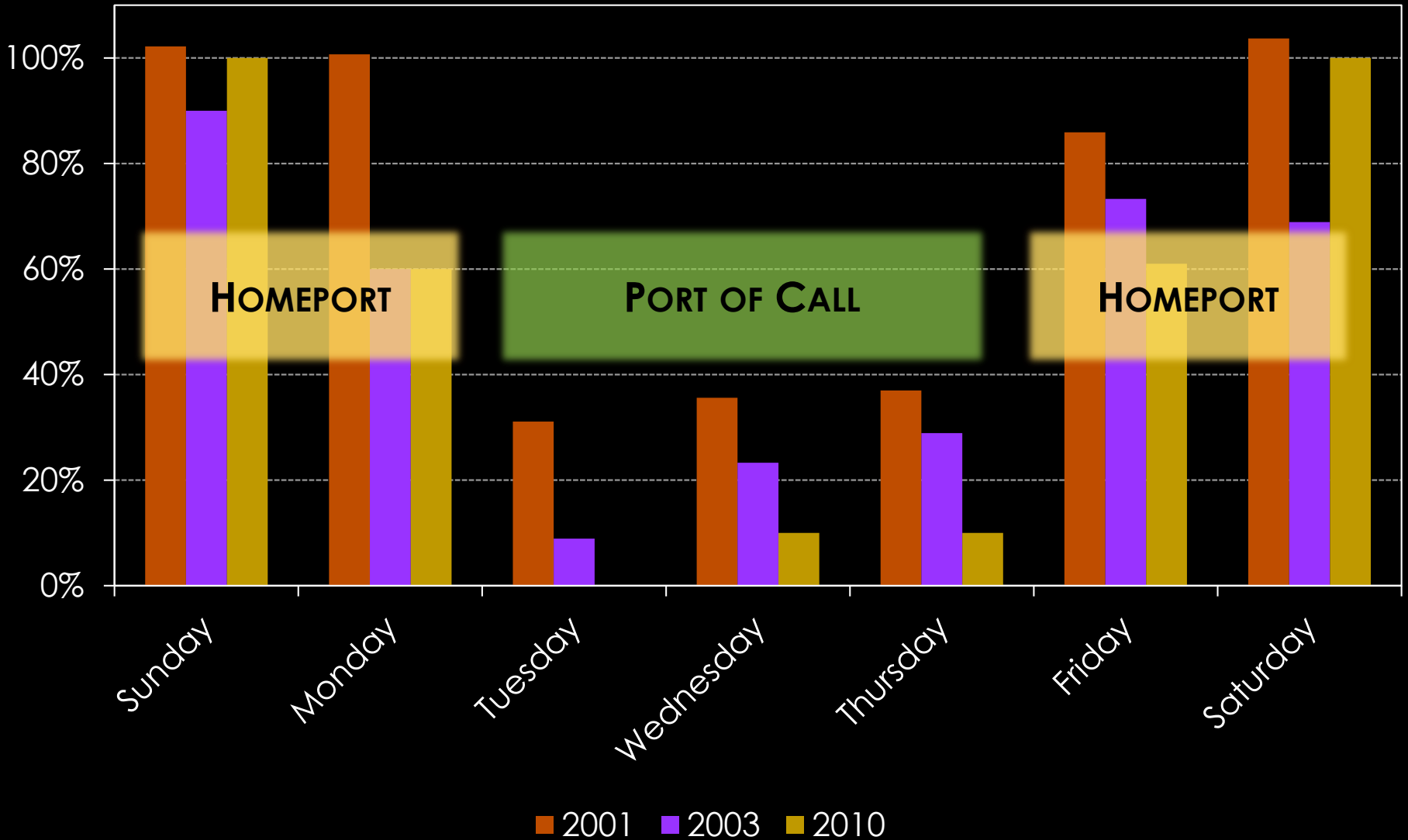
Cold weather seasonality (Alaska)



Yearly seasonality (SF)



Berth demand by day



Current trigger for facility demand

- Very specific for each port
- Driven by:
 - Seasonality
 - Peaking patterns
- On average each homeport should handle 300,000 passengers per berth increasing to 500,000
- Designing a new facility cannot be triggered by a single event
 - A port cannot build for a single peak day or week
- Provide facilities once the weekend berth occupancy reaches 90%
- Most ports wait for a customer to request a berth they don't have

North America homeport terminal demand

- If we add 100 more ships in the next 15 years
- Assume 50% to other markets
- These 50 ships will require = 75 homeport berths/week
- If 40% are seasonally deployed that translates into 105 berths/week
- Utilization of 4 days a week = 25 terminals
- Utilization of 5 days a week = 20 terminals

**WE WILL OUTSTRIP NA CRUISE PORT CAPACITY IN LESS THAN 10
YEARS AND ONLY IF:**

- build larger ships
- weekday departures
- full use of the entire coastal port system

costs



Both scenarios offer challenges

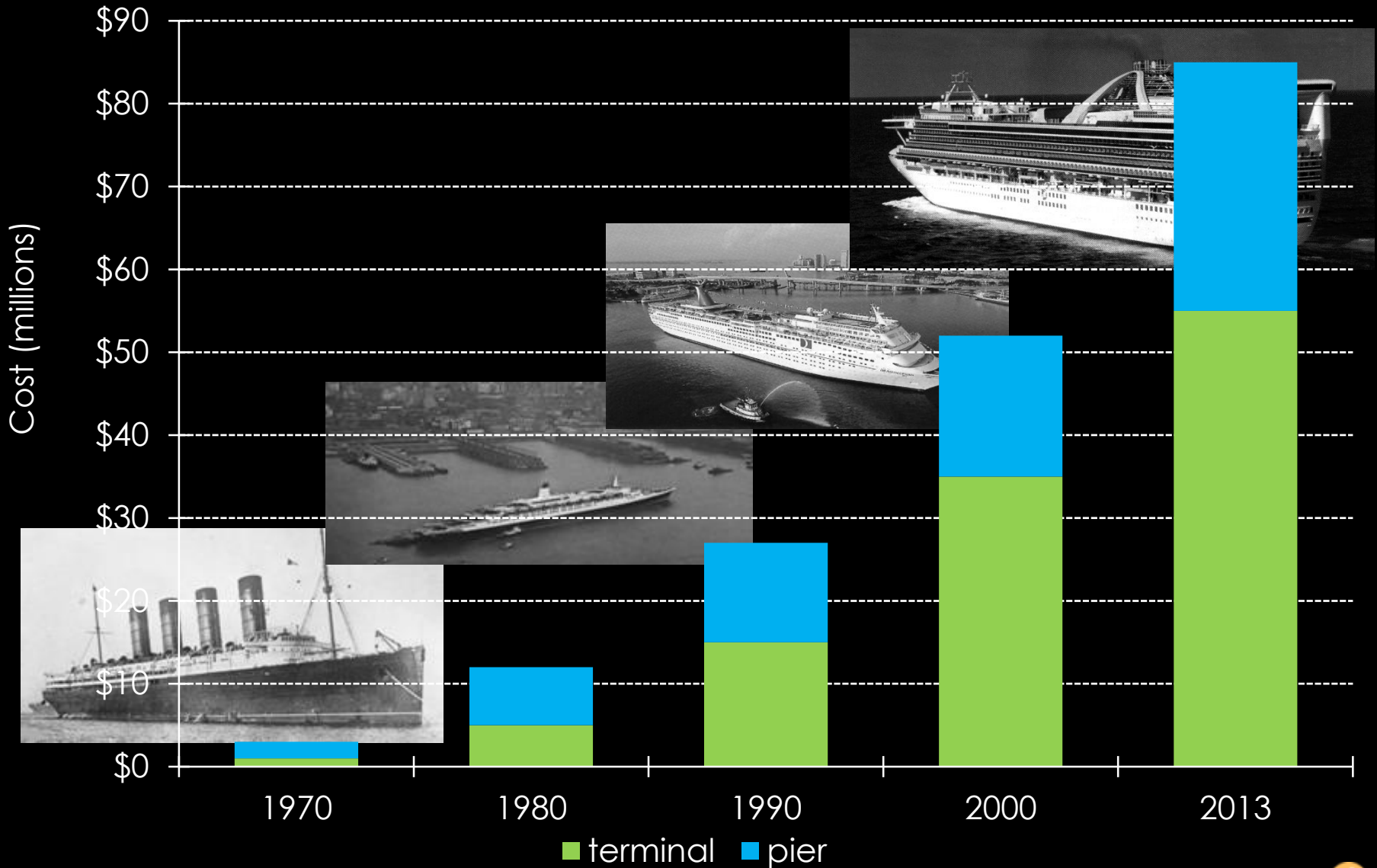
- Start-up ports

- Lack of certainty
- High start-up costs
- Low volumes
- Slow ramp up to profitability

- Legacy ports

- Fixing an old terminal could be as expensive as a new one
- Incremental increases
- Rare that legacy ports have huge jumps in traffic
- Usually large incremental costs

Development costs



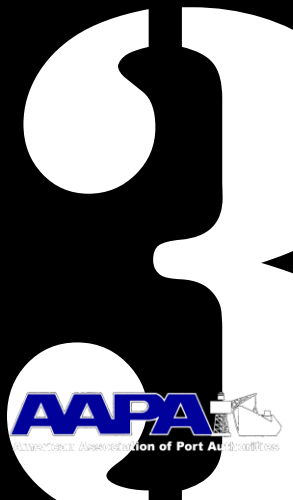
What is driving the costs?

- Inflation
- Size
- Parking
- Equipment
- Security
- Two level operations
- Multiple gangways
- Elevators, escalators

20 TO 25 TERMINALS AT \$50 TO \$100
MILLION

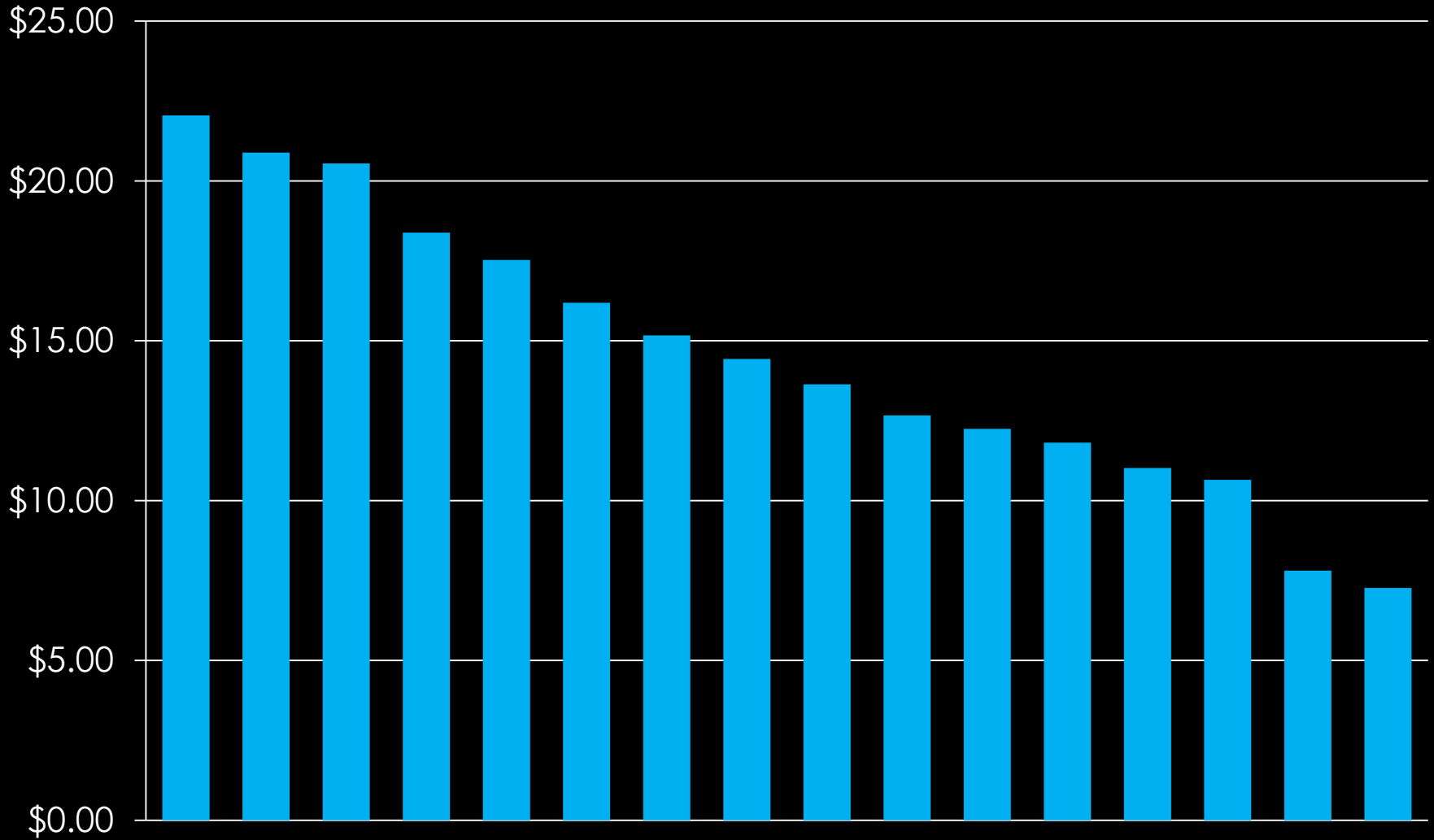
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\$1 TO \$2.5 BILLION IN INVESTMENT



income

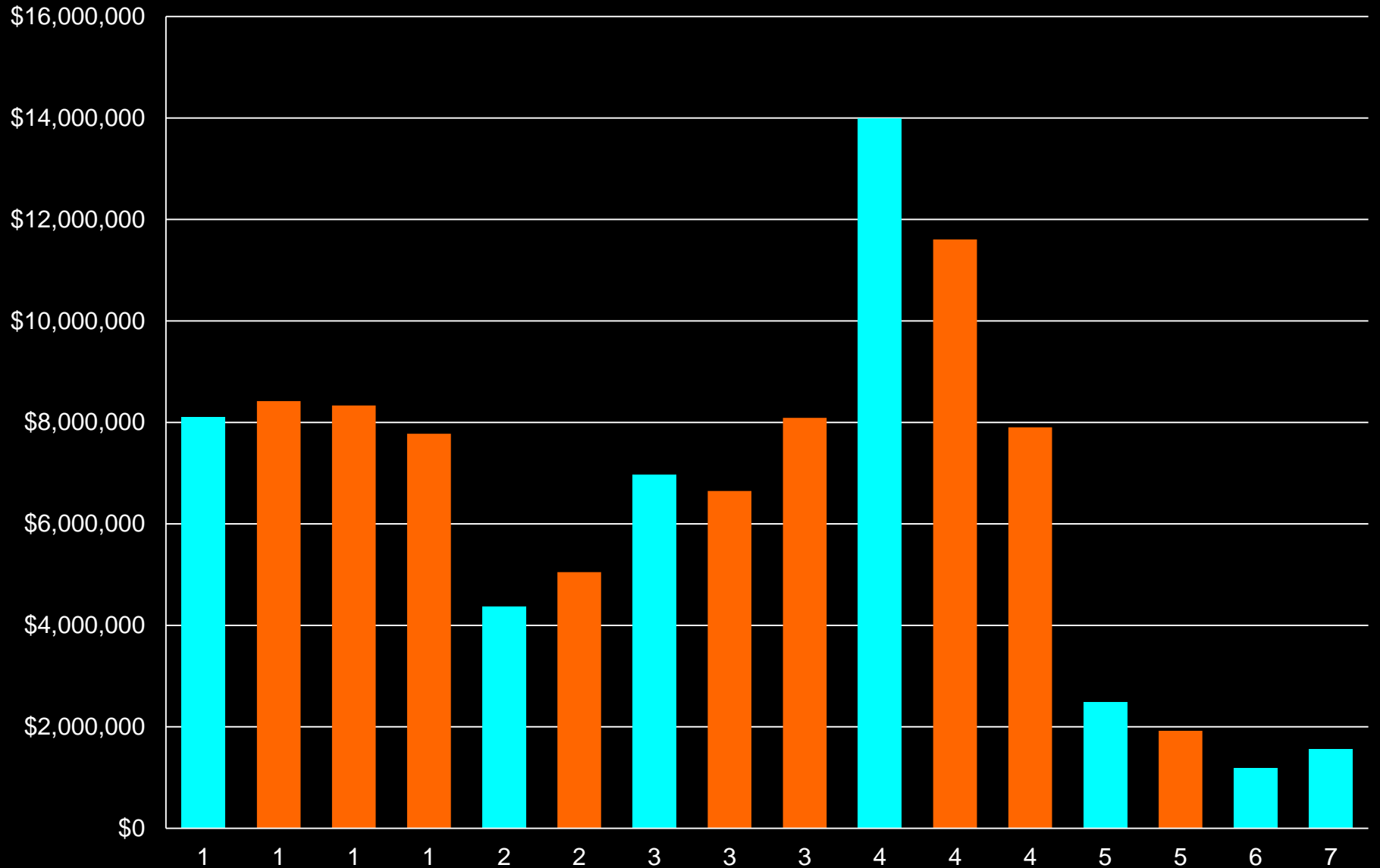
Marine gross income per passenger (major US home ports)



Revenues

- On average the total per passenger charge in the US is \$14.52
- This varies widely by region
 - West coast is lowest at \$9.01
 - North Atlantic is highest at +\$19.00
 - Legacy ports average at \$15.51

Gross revenues per terminal



Evolution of cruise line involvement



NO AGREEMENTS

VOLUME GUARANTEES

DIRECT INVESTMENT

VOLUME AND RATE GUARANTEES

Agreements

- Cruise lines are strategically looking for longer agreements
- They know that cost will be switching more favorably to the ports in the future
- They want to control the remaining berths
- Ports are signing agreements at record rates

Optimization

- Agreements and pricing need to begin to reflect the pricing realities of the peaking patterns to:
 - Incentivize higher utilization
 - De-incentivize overbuilding
- Differences need to be meaningful to affect change
- The concept can be developed for the full group of itineraries to make it meaningful to all

Two perspectives

**How to increase
use of the
facility**

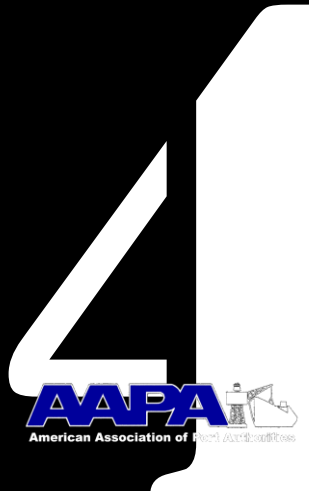


**How to improve
the capacity of
the facility**

What does this mean

- Getting it right from the start
- Building for expansion
- Building for changes
- Do not overbuild

designs



Two types of development

- Legacy ports
 - Are redeveloping older terminals for the new realities
- Start-up ports
 - Are developing for new capacity from the on-set



solutions

Realities today

- All ports started with low cost solutions
- Using existing abandoned berths and warehouses
- Low investments

- Those easy solutions are all exhausted
- Few if any berths are available

- Ports are building new

Concepts

- New concepts must be utilized
- More expensive at first – but cheapest in the long-run
- Break the mold and look to future common sense solutions

Legacy vs. new ports

- Legacy ports

- The legacy ports have huge problems
- Most built cheap and fast and now the solutions are complicated and expensive
- Most terminals over 10 years old are obsolete
- Yet the volumes are marginally larger

- New ports

- Have huge jumps in volumes
- No track record to be decisive

Existing growth development model

- Ports wait for the cruise line to call
- Then you have at best 24 months to deliver a facility

- But.....

- Terminals are now much more complicated, expensive and difficult to execute

- Planning is essential

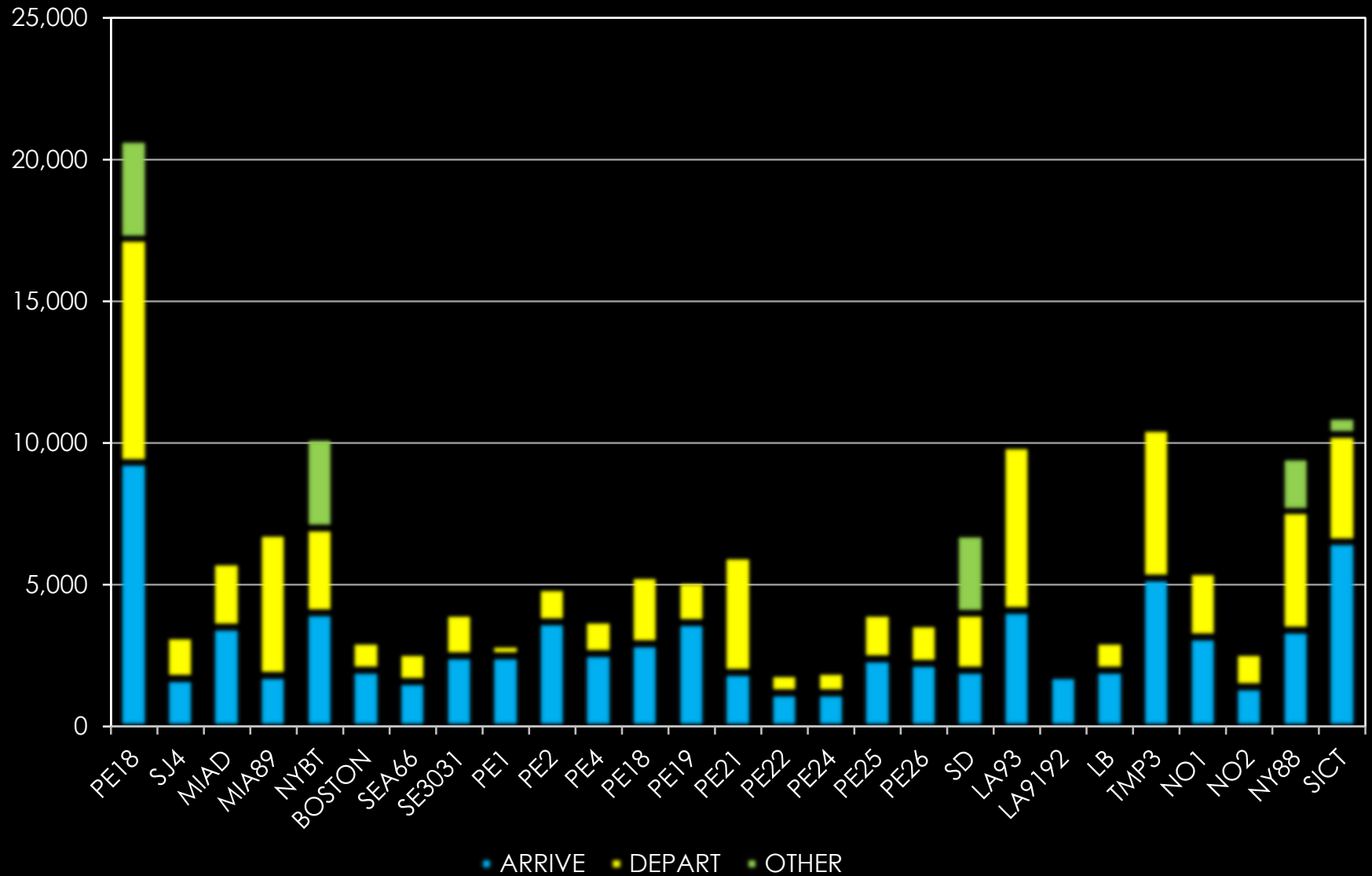
criteria



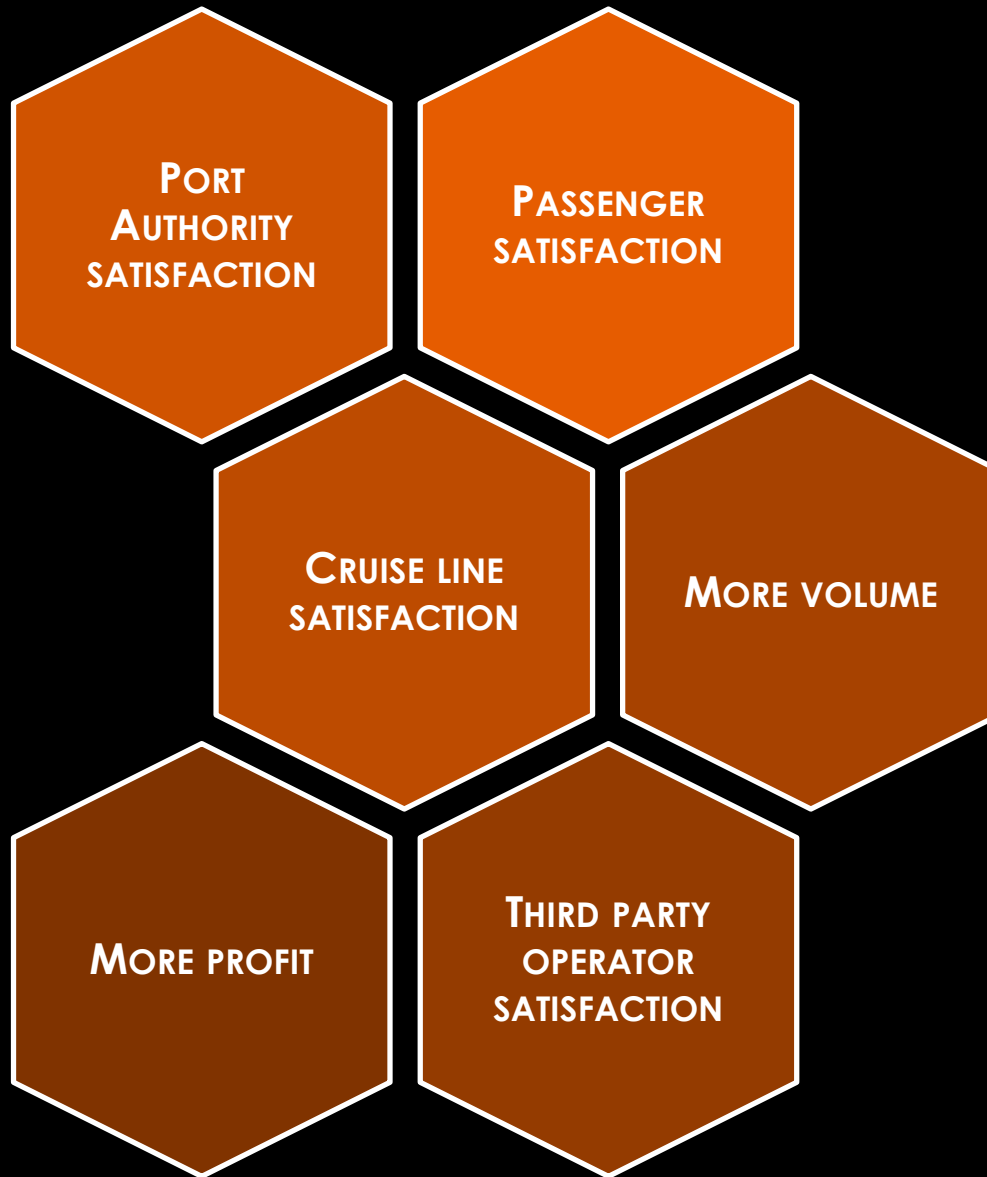
Terminals

- More complex
 - Security
 - CBP
 - Baggage handling
- More expensive
- Ever changing
- Transportation issues

Cruise terminal area comparison (mt²)



How do we measure success?



General guidelines (homeport)

- Currently depending on region or size:
- **North American** terminals can vary from 3.5 to 7.0 m² per passenger
- **European** terminals vary from 1.6 to 3.0 m² per passenger
- **Asian** terminal are being designed with +4.0 m² per passenger

Performance standards

- **Passenger experience**
 - Time
 - Flow
 - Queues
 - Spaciousness
 - Direction
 - Friendliness
- **Cruise company**
 - Cost
 - Efficiency
 - Labor
 - Turn around time
 - Passenger experience
- **Ports**
 - Revenues and costs
 - Volumes



Performance standard

- Establish levels of terminal performance to match frequency or likelihood of demand
- Size the terminal with the Base Design Load (**BDL**)
 - Time to clear the ship
- Provide processing capacity for Peak Design Load (**PDL**)
 - Flow and capacity
- Concentrate on throughput improvements to reduce space needs

conclusions



Conclusions

- Optimize traffic
 - Do not over build
 - Create pricing to reflect the scarcity of the asset and the demand
 - Adjust pricing to incentivize full use
 - Promote 24-7 use of the facilities
- Optimize design
 - Get it right
 - Master plan
 - Design to a standard



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