### 2035 MASTER PLAN

December 2011













The community was born out of its port

- The Port has had to reinvent itself as...
- The port has given way for its urban waterfront park and open space system

The community made a conscious decision to keep the port in its central urban core
As an island port it has permitted the two to coexist



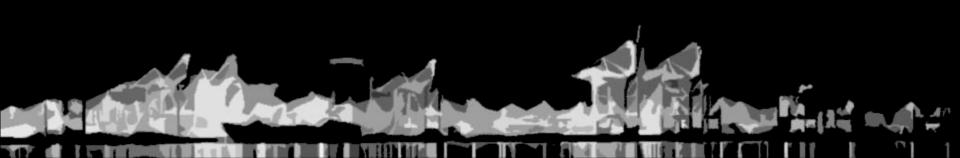
What have we learned?

Waterfronts change and evolve

- The concept of the "working waterfront" has become the focal point of many communities
- The port is a very dynamic place with lots of energy – properly channeled this energy contributes to our future

Being in the urban core – it is more challenging
The Port must have a "sustainable" strategy and plan

# the port's role



#### The Port's role

A critical piece of infrastructure of the region

Reducing the costs of products in Miami

Providing transport of goods and people

As an economic engine



#### As an economic engine

#### A platform for companies to create jobs

- The Port of Miami is a "landlord" non-operating port
- 100% of the shipping operations at the port are run by private companies
- In this capacity the port needs to create a "competitive" platform for companies to succeed
- Responsible for Miami's positioning in the international trade business
- Employs thousands directly and provides jobs and fees for thousands in the downtown for all types of services
- The health of the Port is paramount to Miami's economy



#### As a business incubator

#### As an incubator no other entity comes close The birth place of the cruise industry

- Carnival
- Royal Caribbean
- NCL
- Prestige

Shipping companies to the region

Seaboard



#### Master strategy

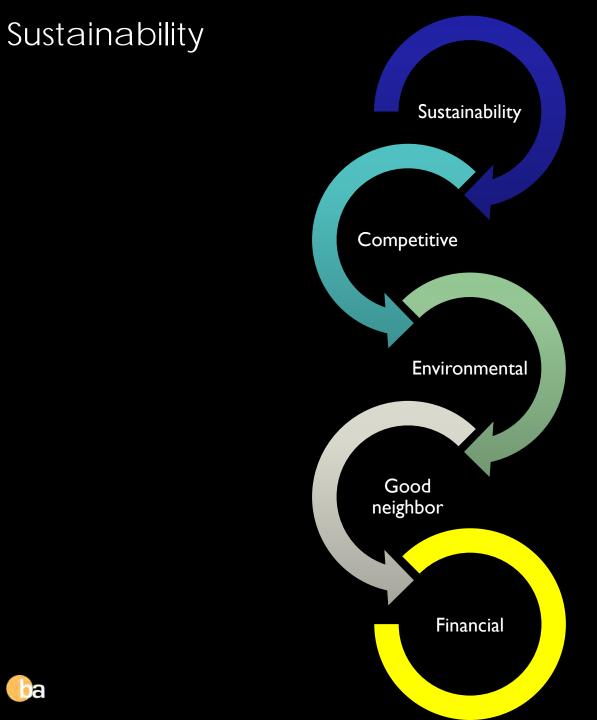
#### As a platform for growth by the private sector

#### Create a more competitive facility

#### Sustainable plan



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# the master plan



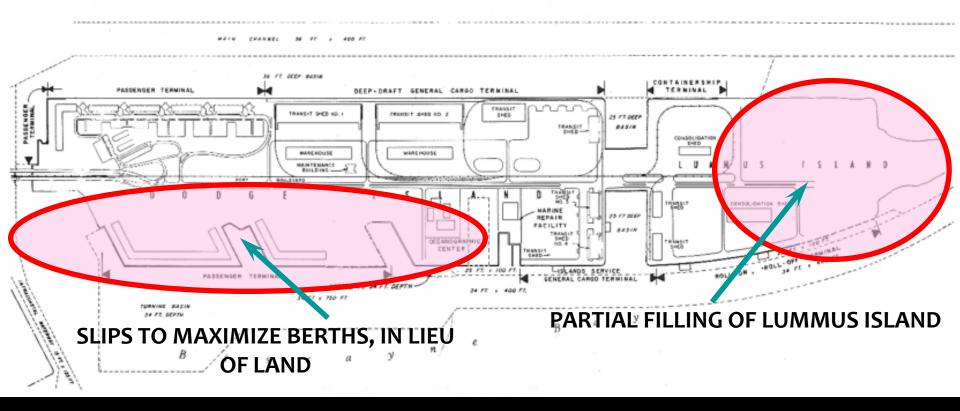
#### The Master Plan

#### As a Master Plan

- Setting a vision
- As a strategic document
  - Setting direction
  - Shifting and prioritizing capital resources
  - Focusing
  - Providing flexibility
- As a tactical plan
  - Identifying specific projects or ideas
  - Creating a sequence of events

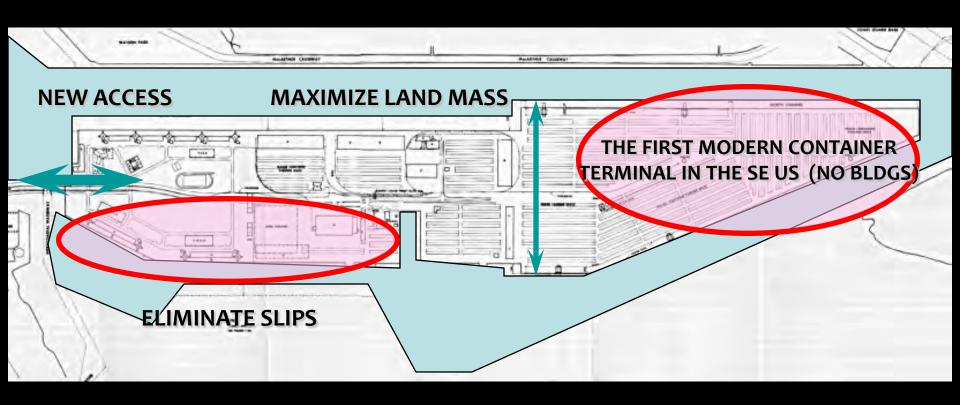


#### 1969 Master Plan





#### 1979 Master Plan





#### 1988 Master Plan



#### CARGO BERTHS





#### The Master Plan

It sets strategies and big ideas

- Each idea must subsequently meet its own tests to be implemented
  - Some pass and some do not
- The plan provides for implementation on an as needed basis
- The plan is revisited every 10 to 15 years

#### 

- Evoke a positive response for the community
- To look for opportunities



#### Mega-drivers of the Master Plan

#### Context

- environmentally sensitive area highly limiting its footprint expansion
- in the middle of the CBD creating problems and opportunities
- Cargo
  - At the farthest land transportation point from major US markets
  - A natural hinterland for cargo which determines is future
- Cruise
  - The Port has a natural glass ceiling due to industry consolidation
- Financial
  - Ability to grow on the backs of user fees
  - Competitiveness



## Sustainability Sustainability Competitive





How do we make the port more competitive?

#### Cruise – reduce operating costs

- Reduce operating costs
- Make the facilities more efficient
- Faster turn around
- Customer satisfaction

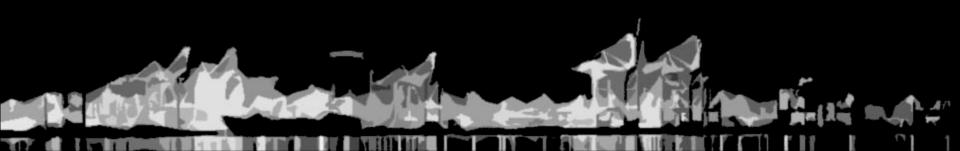
#### Cargo - reduce transport costs

- Shipping
- Transport
- Handling

#### Port – control administrative costs

Control user fees

### cruise



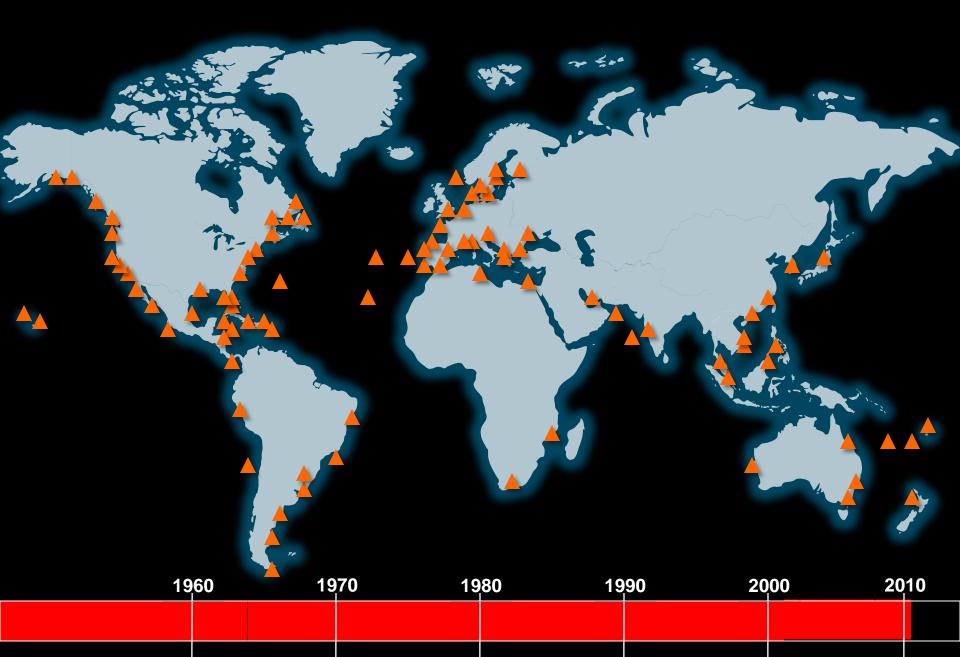
#### STRATEGY

Provide the facilities for the needs of the MEGA ships

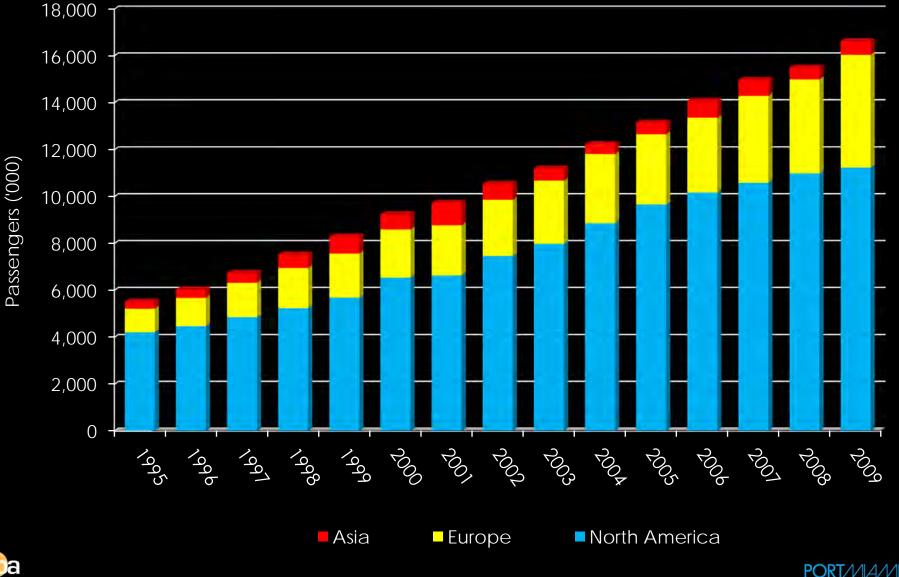


PORT/MA/M

#### Worldwide expansion



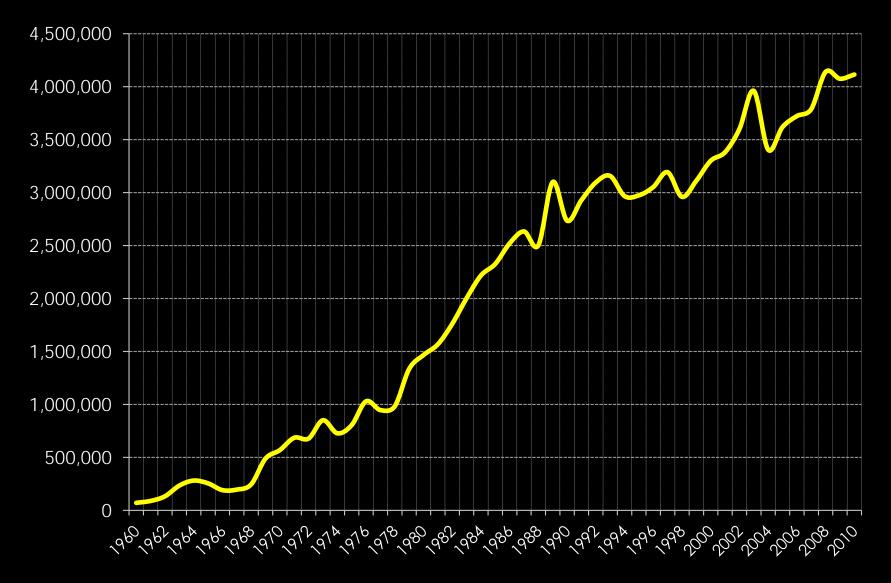
#### Worldwide and regional expansion



Sources: CLIA, PSA, B&A, 2010

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#### Port of Miami cruise growth





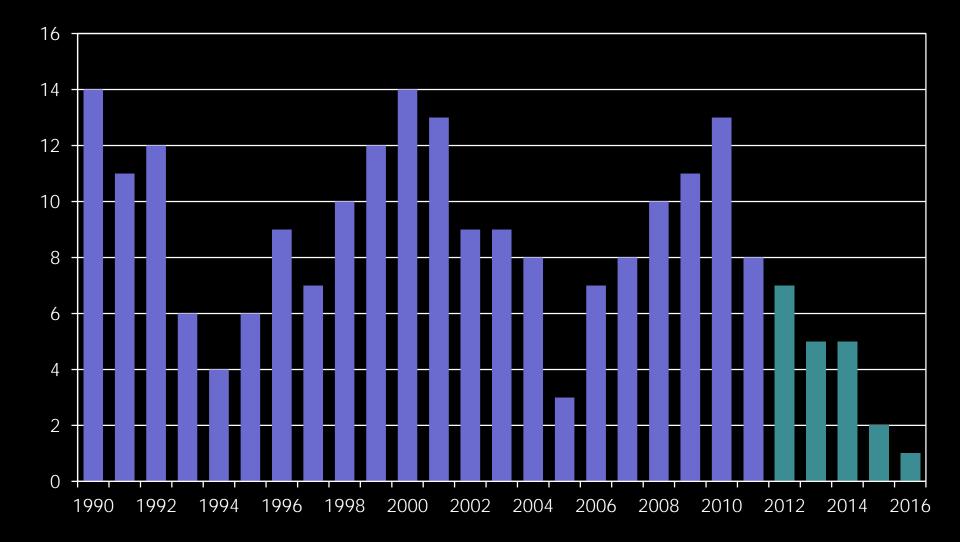
#### Port of Miami market share of North America market





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#### Cruise vessel deliveries





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#### Keys to growth

Maintain costs competitive
Passenger and cruise line satisfaction
Passenger demand for itinerary
Broaden the customer base
Efficient facilities

Measure up to other port / itinerary combinations





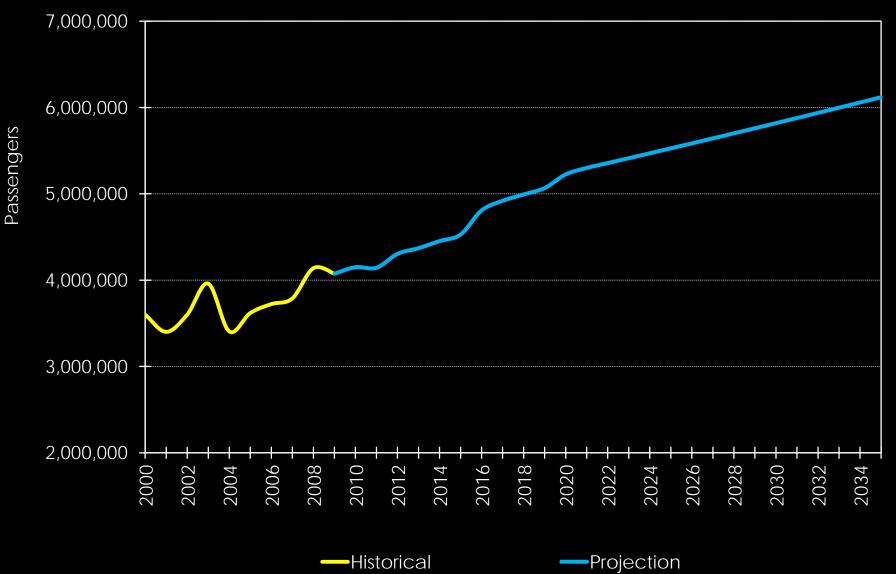
Singapore



Hong Kong



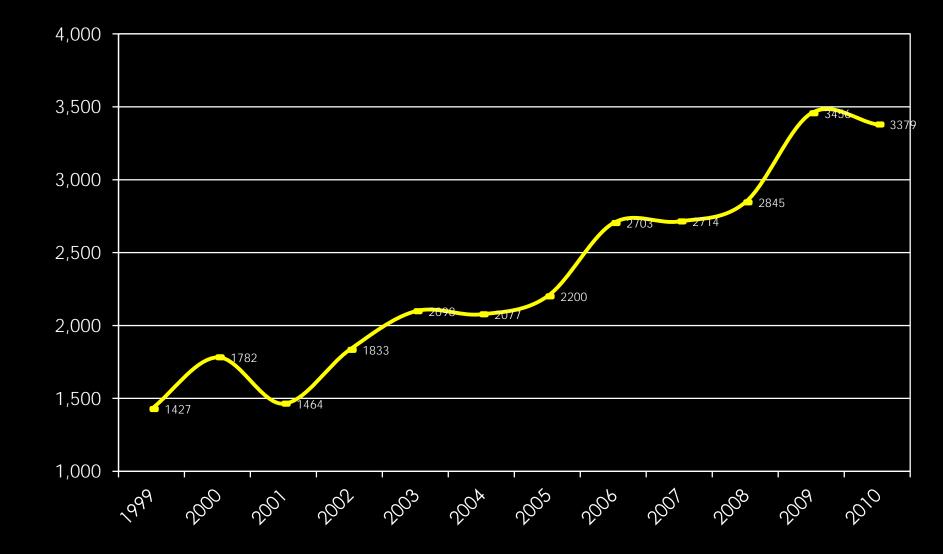
#### Passengers



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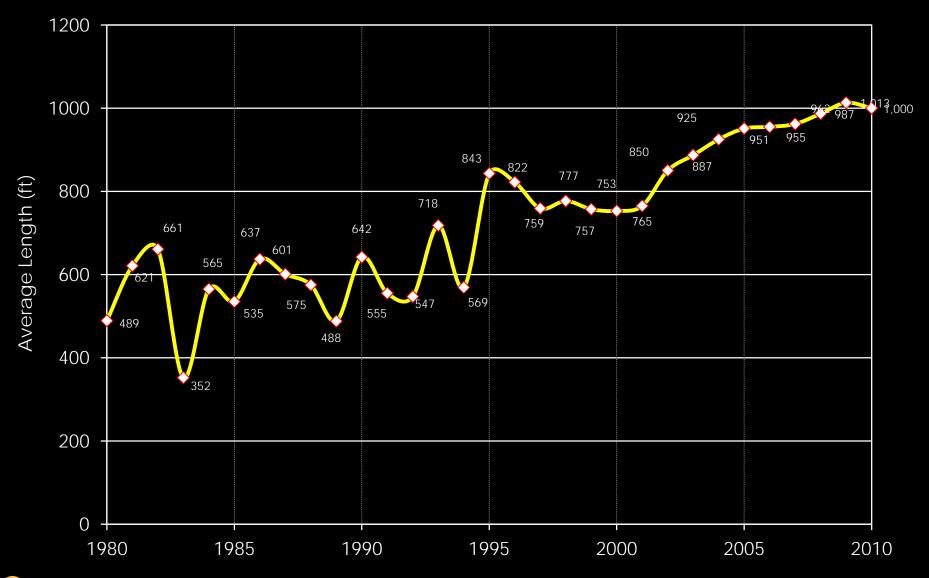
#### Average passengers per ship by year of construction\*



\* Not counting the small unique non-recurring cruise ships

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#### Average ship length by year of construction



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#### Impact of longer ships





#### Cruise findings

A total demand for 9 berths during the projection period

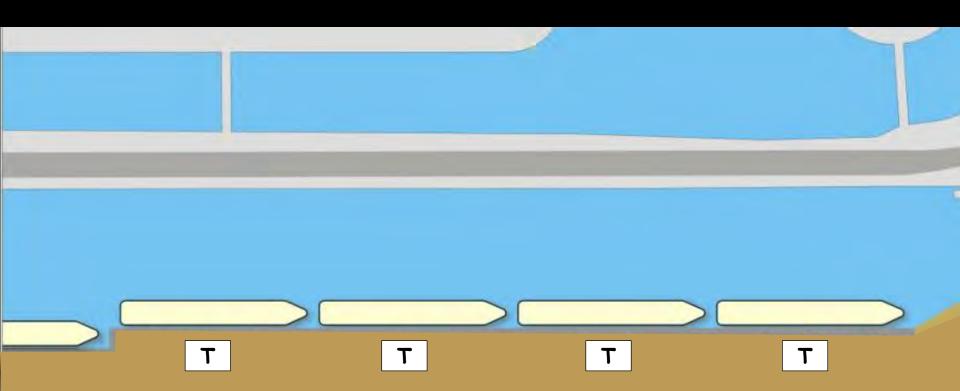
- 7<sup>th</sup> berth now
- 8<sup>th</sup> berth 2017
- 9<sup>th</sup> berth 2035
- All cruise ships larger than 900' will go to the north channel
- South terminal "J" can be the facility for the smaller ships - as the "Yacht Club" Terminal for premium cruise product



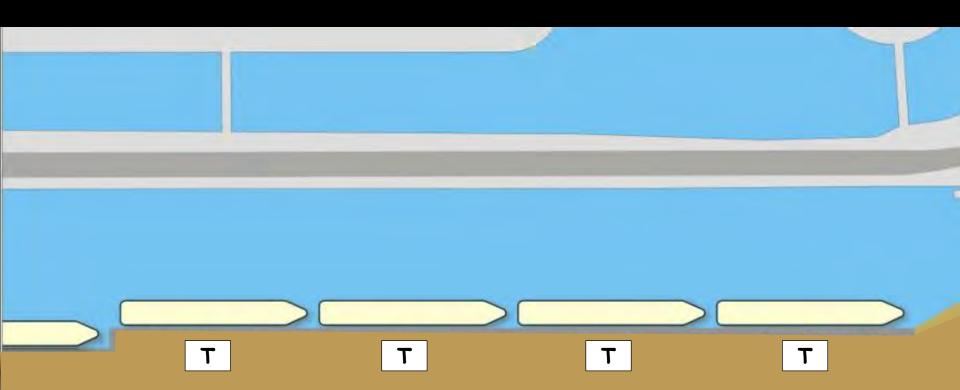
#### Berths



#### Alternative (twin terminals)



#### Alternative (multiple terminals)



#### Future cruise terminal options – Super A





The future terminal

# Focus on processing passengers at the least cost

#### Lines expect better functioning terminals

- Larger
- More comfort
- Two level operations
- Multiple gangways
- Elevators, escalators, etc



#### Performance standards

- Passenger experience
  - Time
  - Flow
  - Queues
  - Spaciousness
  - Direction
  - Friendliness
- Cruise company
  - Cost
  - Efficiency
  - Labor
  - Turn around time
  - Passenger experience

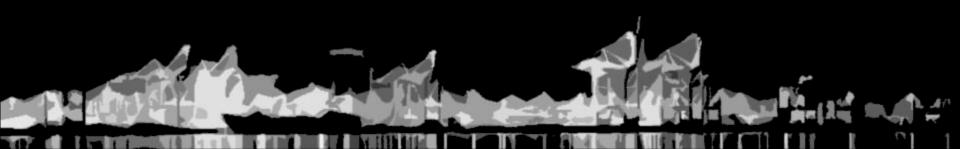




#### Super terminal concept



# cargo



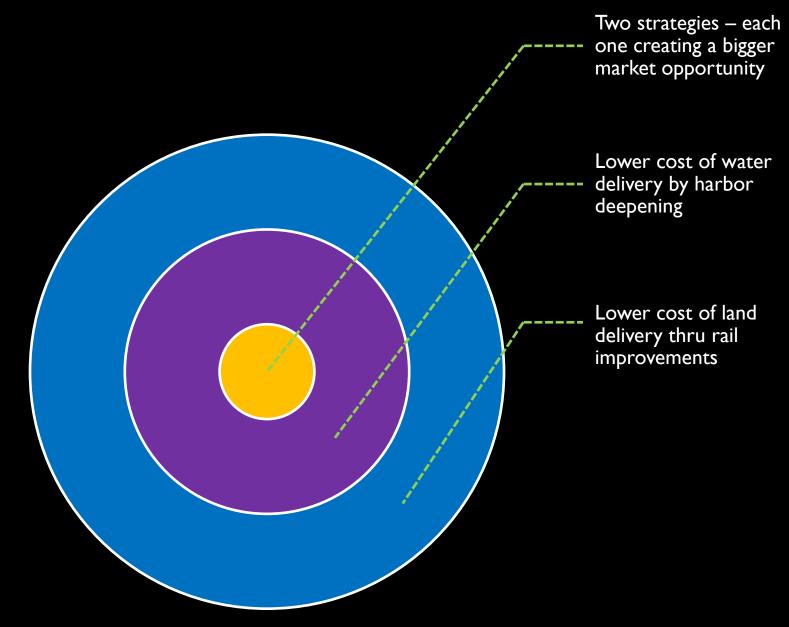
# STRATEGY

#### Reduce the costs of shipping thru the Port



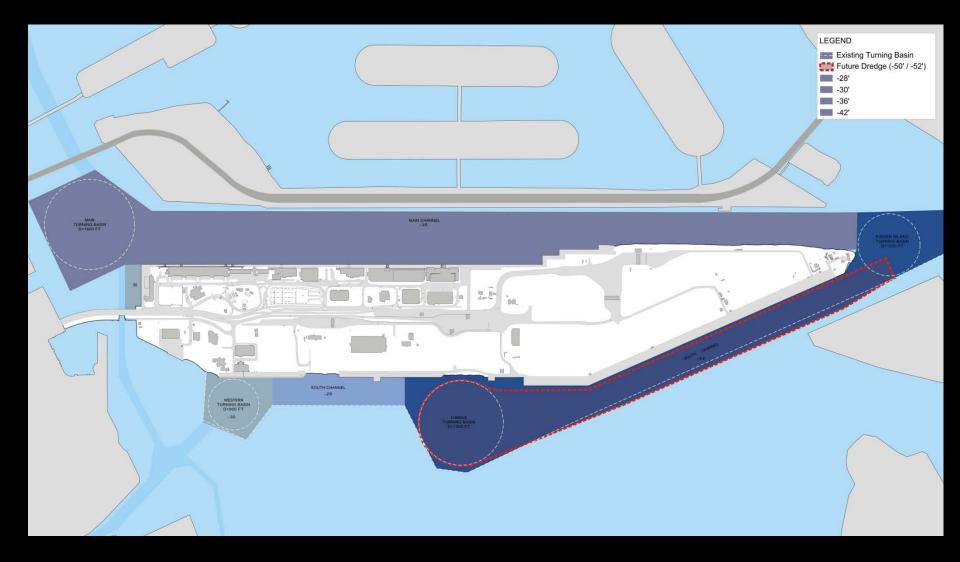


#### Cargo moves to the lowest cost port



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#### Strategy 1 - Proposed deepening

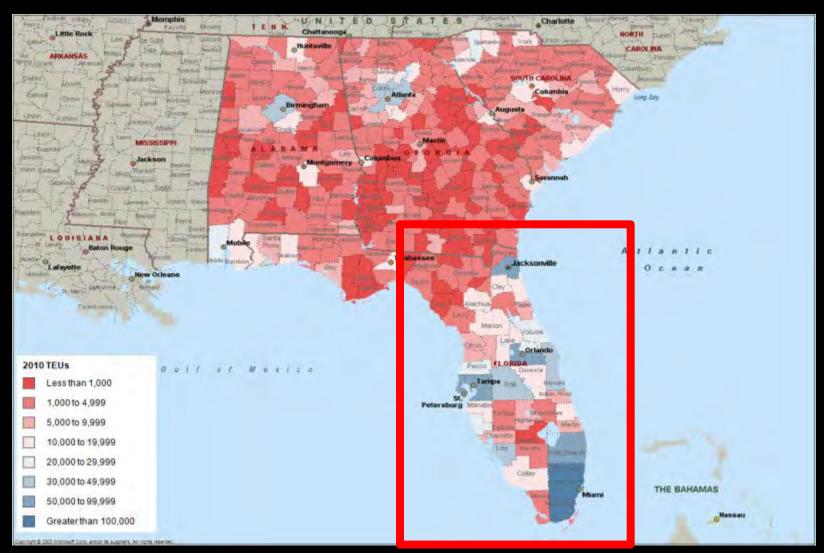




#### What difference does 8 feet make?



# TEU Consumption by County -FL,GA, SC and AL



#### Total consumption for 4-state area is about 5.7 million TEUs

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# Effect of harbor deepening







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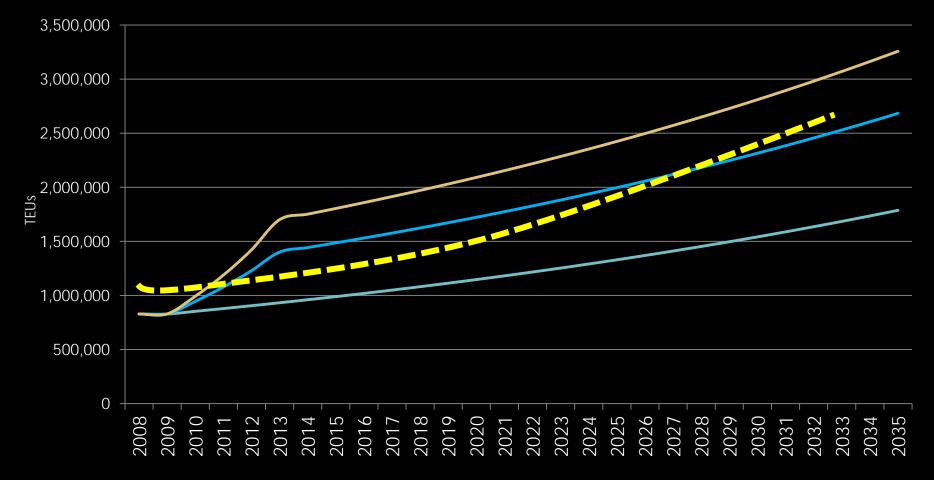
#### On-port rail yard





#### Container potential

- Truck market potential = 1.4 million TEUs
- Intermodal share = 1.7 million TEUs



-Low/Base -Penetration of Local Markets -Local Markets Plus 15% Intermodal



#### Cargo opportunities

- Without better intermodal links and deepening the growth is heavily curtailed
- Deepening will lower marine transport costs and make shipping through the Port cheaper
- Further expanding market penetration in the intermodal field through rail will further make the port more competitive
- Potential exists to increase over 2 million TEU's within 15 years
  - All infrastructure dependant



#### Optimization of cargo yard

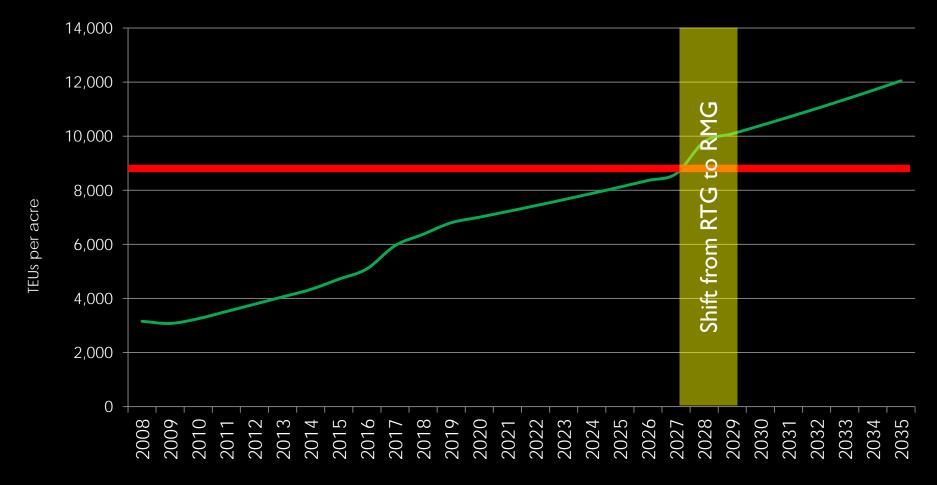
Cargo Right of Way

- New yard organization
- New road to separate cruise from cargo
- Gate improvements
- Increase yard cranes
- Increase gantry cranes 23

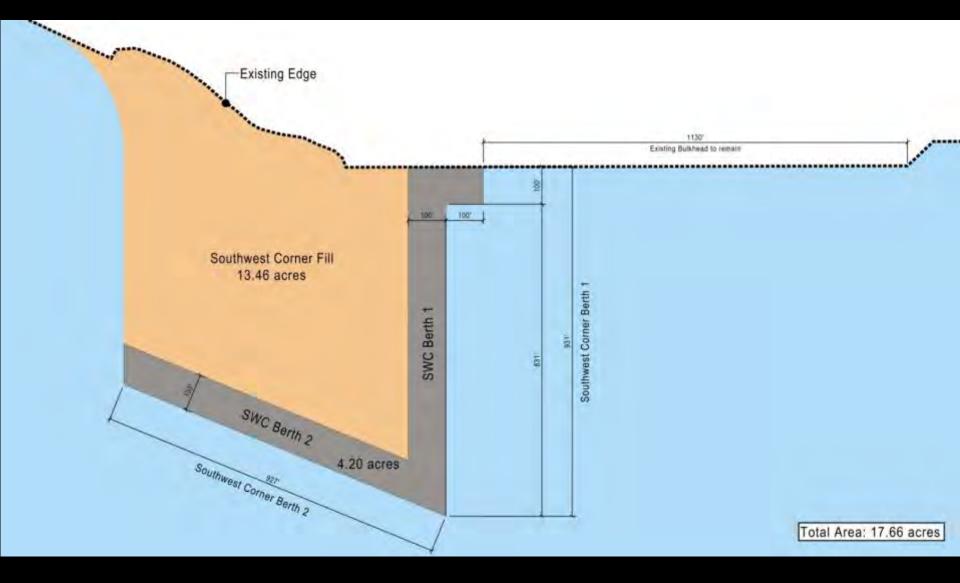




#### Future need for more cargo yard



#### Southwest corner





#### Optimized cargo yard







#### Optimized cargo yard







# STRATEGY

Reduce the environmental footprint of the Port





#### Sustainability goals

To be a world leader in sustainability

- To be a world leader in urban compatibility
- Stay within the ports physical footprint
  - Work within the current area to optimize water and land resources

#### Minimize environmental footprint where possible

- Energy
- Discharges
- Air emissions

## Traffic

- Reduce congestion
- Introduce mass transit



- Design all buildings LEED certified
- Electrification of all gantry cranes
- Upgrade of all drainage systems to eliminate discharges
- Future integration of Shore Power for ships
- New initiatives for energy
- Stay within the physical footprint



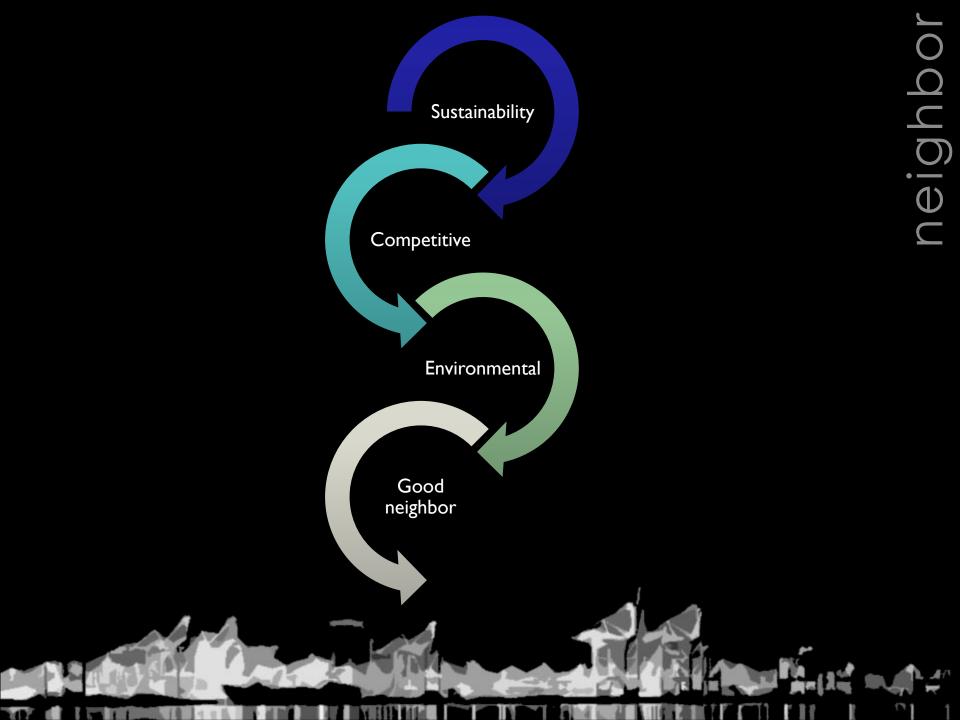
## The port's role





#### Sustainability goal – live within the physical footprint





#### STRATEGY

Continue to be a better neighbor to the community





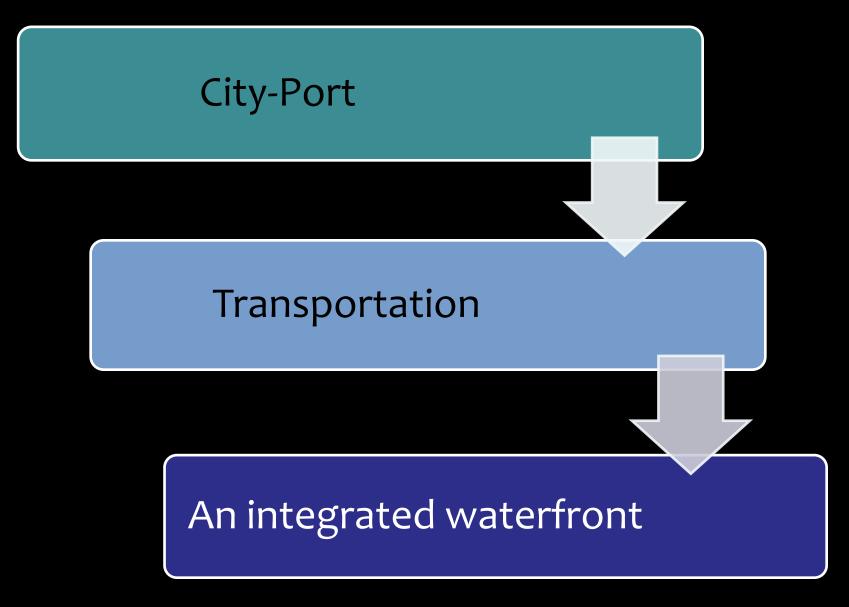
Port - City

- The Port has a long history of partnership with the City and the DWNTWN:
- It has moved twice to create urban open space
- It has spent significant resources to build a new bridge and Biscayne Blvd
  - Coordinated fully with Bayside and then the Arena
- Committed to build an attractive bridge
  - Only segmental design in DWNTWN
  - Multimillion lighting program

Building a tunnel to remove traffic from DWNTWN
More opportunities lie ahead



#### Opportunities





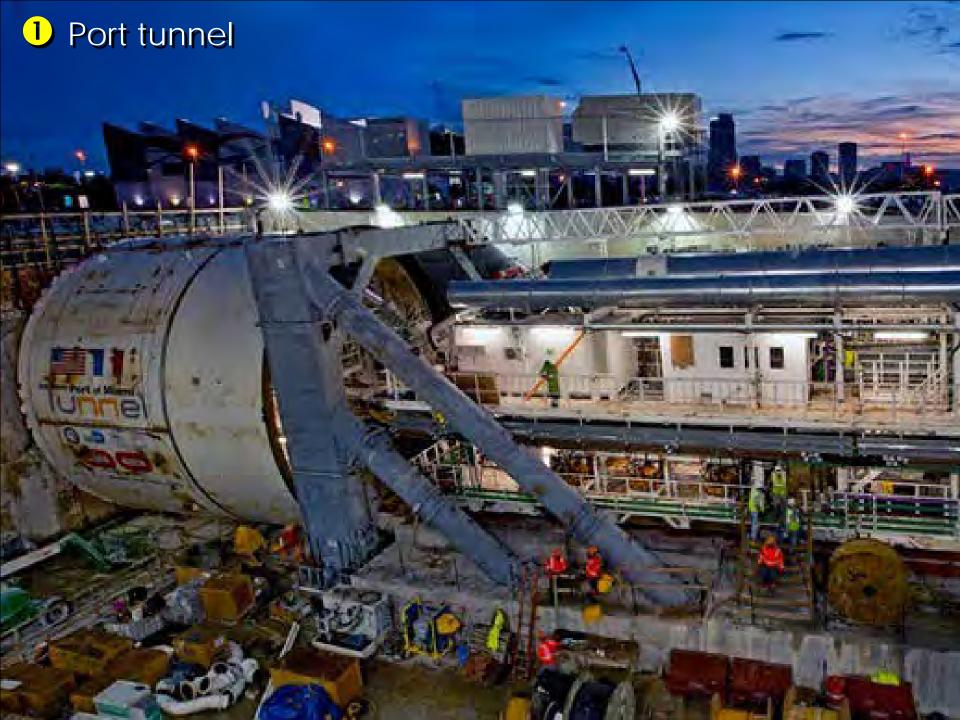
Transportation

# Tunnel

2 New transit connections

- Passengers can easily come to town
- Employees can easily connect to DWNTWN
- Reduce vehicular traffic
- Centralize parking





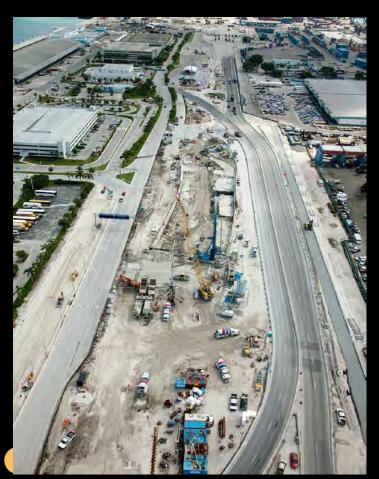








# Isolated sites





# The elusive airport to port connector (PtoP)

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### Port Central



#### Port Central

- The thousands of employees at the port will have access to transit
- Passengers will be able to "day trip" to DWNTWN while waiting for the ship
- Businesses will have ability to move back and forth between DWNTWN and the Port
- Certain passengers from the region will be able to travel to the ship without a car



#### Port Central

An integrated transportation center

- Consolidation of parking for terminals D, E, F and G
- GTA for adjacent terminals
- Connection with Transit
  - Metro-mover is three blocks away
  - Bridge is capable of becoming the guideway
- Elevated open space to replace Seaman's Park
- Incorporation of energy generation in park and building
- New offices for the Port and maritime tenants





Integrated waterfront

Opportunities exists to integrate the west face of the Port into its urban counterpart

- Downtown
- Bayfront Park
- Bayside

Create Miami's new inner harbor and waterfront



### City - port



#### Northwest corner





### Southwest corner







City-port





### Miami – Monaco

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Restate a car distant

制度 建制度

POM

Print & States

Anto BAAS ? .

Downtown Miami

Monaco

MAN

#### Miami - Nice



#### Miami - Cannes



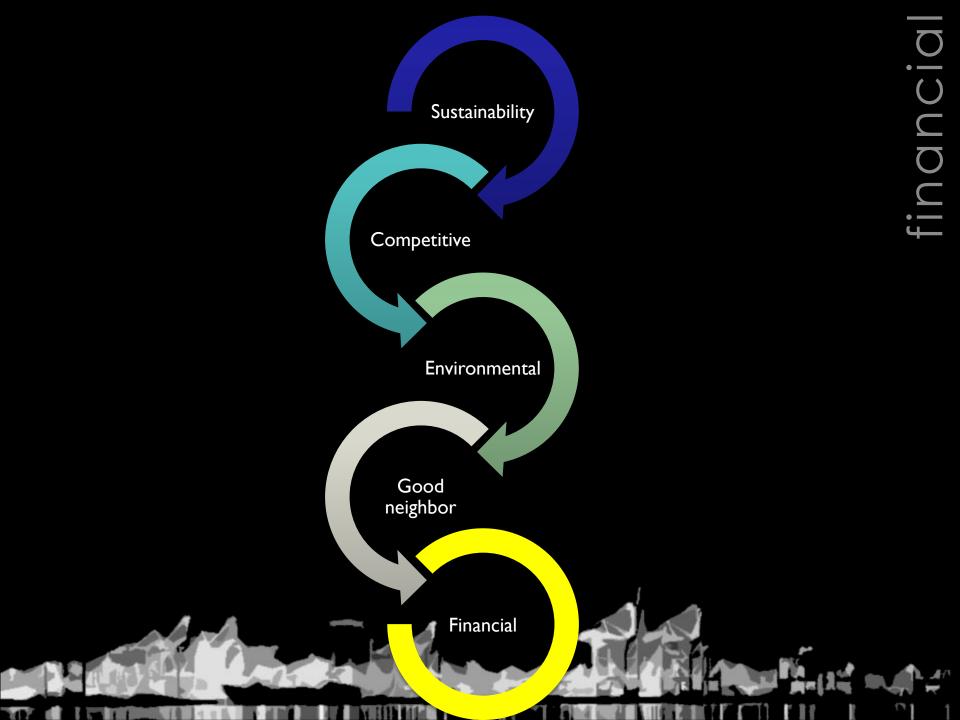












# STRATEGY

Make the Port financially sustainable while more competitive



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### Financial sustainability

# Sustainability = Being able to pay for the plan

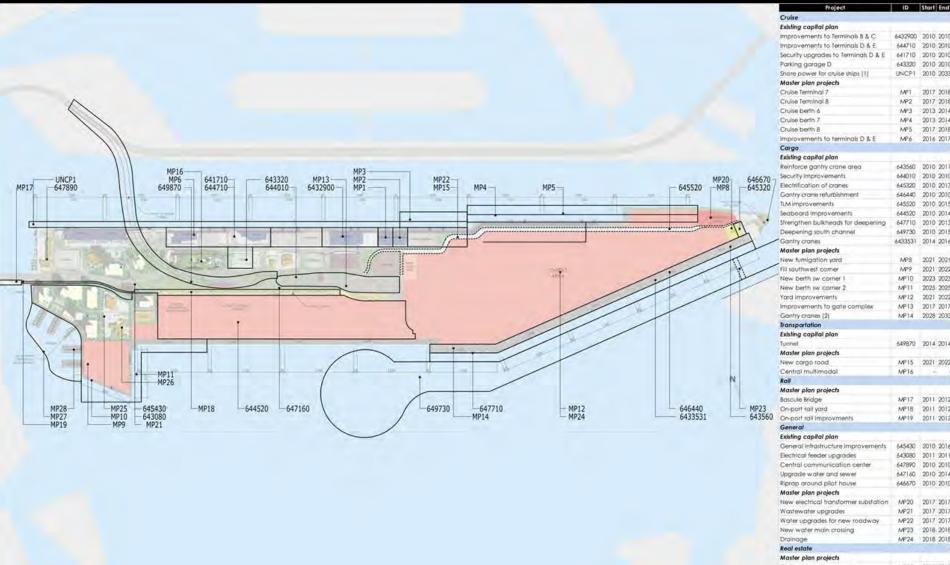
While staying competitive = lowest user fees

Without tax money

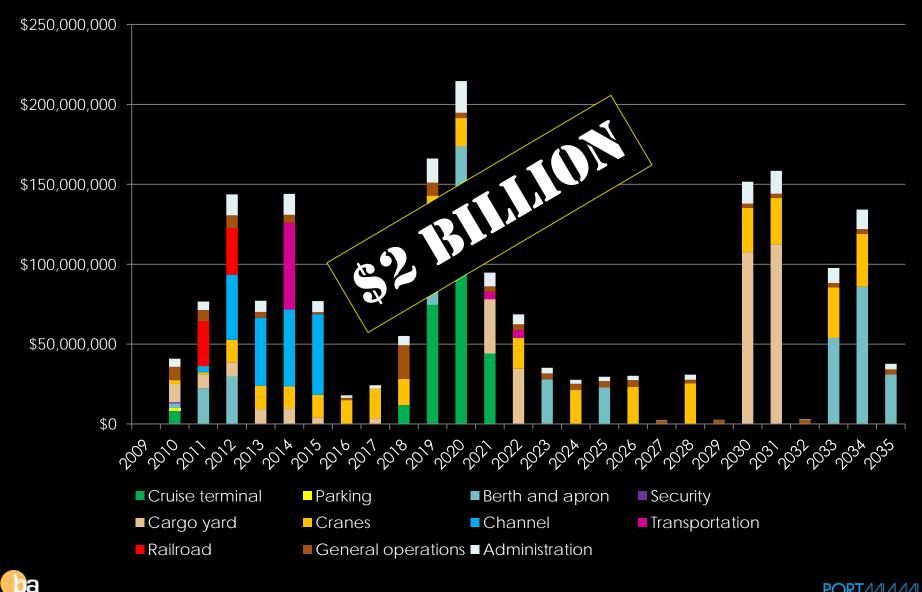


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#### Capital plan



### Capital needs by project type



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#### Financial challenges

How will the Port support this \$2 billion capital program

- Currently \$500 million has identified funding
- POM does not receive any financial support other than:
  - Grants
  - Credit enhancements / loans
- POM is a new Port with 100% of the facilities having been built since 1960
  - 100% of the POM is reclaimed new land
- It is hard to spend for the future when using historical revenues to sell bonds
- The port and its users are under heavy competitve pressures



### Financial strategies

Extend capital plan until use is at hand
Control port operating costs to maximize EBITA
Aggressively look for PPP opportunities
Time new bond issues to coincide with defeasance of past bonds
Create a diversified funding mechanism independent of user fees



#### Strategy – diversify revenues

Identify land not suitable for cargo or cruise activities
Identify maritime related uses

- Generate income
- Provide private sector opportunities

Most major Port "authorities" have a major component of their operations and income from secondary uses

- San Diego
- San Francisco
- Seattle
- New York

Provides for a new revenue source without user fee increases making the port more competitive



### Recommendations

- Cruise
  - Fix the existing terminals for the long term
  - Create the new terminals
    - Start planning now
- Cargo
  - Rail
  - Deepening
  - New north roadway
  - Detailed study of entrance gate house
- Transportation
  - Rail
  - New multi-modal center
  - Future Metro integration
- Environmental
  - Develop a long-term sustainability strategy
  - Create a master plan and permitting strategy
  - Take the time to do it right
- Commercial
  - Begin to position the port for the next business boom
  - Master plan all excess properties for development
    - Maritime / cruise related
  - Develop the business model





