



# Disaster Risk Management |

## Marine Transportation System Recovery



**HudsonAnalytix**  
Complexity Made Simple™





# Disaster Risk Management

## Marine Transportation System Recovery

### Priority of Recovery

- Channel / pier
- Cargo handling equipment
- Fuel vs Food
- Simultaneous vs sequential



# Disaster Risk Management

## **Marine Transportation System Recovery**

### **Pre-planned Response vs Situation Specific**

**Identify critical functions & key processes**

**What do I need to receive ships?**

**What do I need to offload cargo?**

**What do I need to move cargo out of the port?**

**What do I need to handle cruise passengers?**



# Disaster Risk Management

## Marine Transportation System Recovery

What do I need to receive ships?

- Channel - confident of depth
- Navigation aids
- Pier – structurally sound
- Comms



# Disaster Risk Management

## Marine Transportation System Recovery

What do I need to receive ships?

- **Channel / pier**
  - **Preemptive measures**
  - **Equipment**
  - **Survey Requirement**



# Disaster Risk Management

## Marine Transportation System Recovery

What do I need to offload cargo?

- **Cranes**
- **Stackers/forklifts**
- **Pumps/pipes**



# Disaster Risk Management

## Marine Transportation System Recovery

What do I need to move cargo out of the port?

- Trucks
- Gate
- Clear roads
- Cargo handling equipment



# Disaster Risk Management

## Marine Transportation System Recovery

What do I need to handle cruise passengers?

Immigration / Customs

Ramps

Pedestrian walkways & traffic control

Gate





# Disaster Risk Management

## Marine Transportation System Recovery

What is more important?

Resuming cargo operations or cruise ship operations?



# Disaster Risk Management

## Marine Transportation System Recovery

### Pre-planned Response vs Situation Specific

**Plan sets priorities based on critical functions and time requirements**

- **Fuel reserve**
- **Food reserve**

**Plan must be flexible based on situation**

- **BUT ... flexibility is aimed at priorities**