



Port Collaborative Decision Making

Mariners' Workshop 2018



January 31, 2018



Montreal Port Authority





The organization

OUR MISSION

We are a North American ocean port at the heart of the continent and a hub for world trade that contributes to the prosperity of our clients and partners and to the economic development of Greater Montreal, Quebec and Canada, all while respecting the environment.

OUR VISION

To be a successful, innovative port that exercises inspiring leadership and provides competitive value-added services, making it a partner of choice in the logistics chain.



What is Port CDM?

- Initiated in 2014 as a Ship Traffic Management (STM) concept in Mona Lisa 2.0 - European Union project.
- Objectives are to increase the efficiency of port calls for all stakeholders through:
 - ✓ Improved information sharing.
 - ✓ Situational awareness.
 - ✓ Optimised processes. And,
 - ✓ Collaborative decision making during port calls.





What is Port CDM?

- First participants:
 - ✓ Port of Gothenburg (Sweden)
 - ✓ Port of Valencia (Spain)
- Actors involved:
 - ✓ Port Authority
 - ✓ Pilot Organization
 - ✓ Towage Company
 - ✓ Ship Agent
 - ✓ Terminals (2 Oil Terminals and 1 Container Terminal)
 - ✓ Linesmen Organization
 - ✓ Other service providers. (Trucking, security, stores, etc.)





What is Port CDM?

- Improve efficiency and optimisation of port calls through widespread adoption of standards and compliant systems;
- Maximize contributions to safe, secure and environmentally optimized operations in ports;
- Achieve greater cooperation among all actors and stakeholders in the maritime industry, including governments and international organizations;
- Influence appropriate international and national legislation, rules, policies, standards and practices based on established policies affecting the interests and priorities of ports;





What is Port CDM?

- Advance the development of the port information environments by enhancing public awareness of the economic and social importance of port development;
- Maximize cooperation and mutual assistance among ports, between ports, and shipping lines, between ports and hinterland actors as well as between other relevant actors;
- Provide members with holistic industry knowledge, advice and assistance, and foster professional excellence in port management and operations;





Different state of the vessel voyage

Port Call Process

→ APPROACH



BERTH



CARGO
OPERATIONS



DEPARTURE



PORT CALL PROCESS

96 hours Pre-arrival notification (PAN)

- ECAREG (TC-GCC)
- Shared data
 - Vessel name
 - Destination
 - ETA



PORT CALL PROCESS

24 hours Pre-arrival notification (PAN)

- ECAREG (TC-GCC-Pilotage)
- Shared data
 - Vessel name
 - Destination
 - ETA
 - Pilot prospect
 - Transit restrictions
 - Assigned berth/anchorage
 - Tug(s) requested



PORT CALL PROCESS

Pilot Station

- TC-GCC-Port-Pilotage-Agent
- Shared data
 - Vessel name
 - Destination
 - ETA next pilot station
 - Assigned berth/anchorage
 - Tug(s) requested



PORT CALL PROCESS

Anchorage

- TC-GCC-Port-Pilotage
- Shared data
 - Vessel name
 - Destination
 - ETA
 - ETD
 - Assigned berth/anchorage
 - Tug(s) requested
 - Wind speed and direction
 - Water level



PORT CALL PROCESS

Port Stay

- TC-GCC-Port-Pilotage
- Shared data
 - Vessel name
 - Assigned berth/anchorage
 - Tug(s) requested
 - Linesmen requested
 - Wind speed and direction
 - Water level
 - ETD



PORT CALL PROCESS

Cargo Operation

- TC-GCC-Port-Pilotage
- Shared data
 - Vessel name
 - ETD
 - Cargo operation start time
 - Cargo operation completion time
 - Pilot prospect
 - Tugs requested



PORT CALL PROCESS

Departure Condition

- | | |
|---|--|
| <ul style="list-style-type: none">▪ TC-GCC-Port-Pilotage▪ Shared data<ul style="list-style-type: none">▪ Vessel name▪ Stability information▪ Drafts▪ ETD▪ Pilot confirmed▪ Ice conditions | <ul style="list-style-type: none">▪ Tugs confirmed▪ Destination▪ ETA▪ Water level▪ Tide window▪ Visibility▪ Wind speed and direction |
|---|--|



PORT CALL PROCESS

Sailing

- TC-GCC-Port-Pilotage
- Shared data
 - Vessel name
 - Drafts
 - Destination
 - ETA next pilot station
 - Wind speed and direction
 - Transit restrictions
 - Ice conditions



PORT CALL PROCESS

Pilotage transit

- TC-GCC-Port-Pilotage
- Shared data
 - Vessel name
 - ETA next station
 - Sea passage start



Workshop

- **Preparing for a test bench:**
 - ✓ Volunteers
 - Ports from different regions
 - Pilots and Pilotage Authorities
 - Government agencies
 - Service providers (Tugs, agents and others)
 - ✓ Phase 1:
 - ✓ Identify important information
 - ✓ Identify data source
 - ✓ Common for all regions



THANK YOU

