

# FCL Rate Benchmarking Intelligence

IE3100M System Design Project | Department of Industrial Systems Engineering and Management Supervisor: Prof Andrew Lim Leong Chye Group Members: Chen Yue, Dai Kaiwen, Edward Tan Wei Chong, Feng Yue, Zhou Ruohua

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## **Project Overview**

Reluctance of companies to share

## Background

Maritime industry transports \$16Tn of goods yearly, with a 4.7% y-o-y growth. The top 10 merchant fleet alone has a market value of \$450Bn, illustrating the scale of the industry. However, the maritime industry is filled with multiple inefficiencies. Centre for Maritime Study wants to study these inefficiencies and propose solutions for the market.

suggestive information for companies

### Objective

- Validate inefficiencies in maritime shipping industry
- Validate technology and design of MPC proposed by CMS

**Distributed System** 

Improve and implement the current solution design

#### Methodology **ISE Skill Sets Applied** Solution Solution Design Implementation **Problem Identification** System Thinking and Design • **Data Analytics** Evaluation Inadequate Construct **Project Management** Data Test & Decision-making Analytics Industry Distributed MPC Benchmarking **Outreach Plan** Visualization Validation Human Factor Engineering System Inefficiency Indices





#### **Test and Validation** 5

Goal

to warm lead

## **Target Audience**

- Fortune 500 Companies with large shipping
  - volume
- Procurement Managers dealing with FCL shipping business

## **Channel**

#### Gather feedback to feel company

- sentiments
- Transfer cold lead

## • LinkedIn

- Email
  - Phone

3

• Leverage on PI's Response rate

4

**Approaches** 

reputation • % of companies

5

**Evaluation** 

- Highlight the that shows industry problem interest
  - and business gap Critical feedback

## **Response Rate**

Overall approach number: 200 Show interest: 10



- Reject proposal: 8 Main reject reason:
  - Concerns about data security
  - Concerns about host reputation

#### Insights

- Demand for data security is poised to increase. Focus on improving MPC technology will be beneficial.
- Improve on host reputation and system reliability is the key to success

#### **Recommendations**

- Invite reputable organizations or agencies to be the nodes of the system
- Conduct smaller scale trial to enhance credibility and raise market sentiment
- Continuous improvement on the platform according to market feedback