Outlining the presentation

We are going to answer four questions in three phases of the research/

Mainly targeting chartering and shipbroking areas. **Supply Chain Planning (SCP) using Machine Learning (ML)**

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* Amazon [Kiva systems](https://www.youtube.com/watch?v=4MH7LSLK8Dk)
* Echo users can also ask DHL for assistance.
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Phase 1: When.?

Forecast the demand.

Phase 2: Where.?

* Generalize the idea to different geographical regions.
* Phase 3: What.?
* Apply the idea to different commodities.
* In terms of TEUs.
* Phase 4: Who.?
* Based on the commodity, find out who are the prospective partners.
* Targeting voyage and time charters.
* Augmented decision support dashboard.
* How the research will be conducted.
* Create simulation models to represent each partner.
* Data
* Research shows there is no statistically significant differences between models in this approach. So, focusing on changing the research methodology to identify the best model is the way to go.
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How they are gonna benefit.?

----- Don’t include in slides

Required data for the research

Required data

Freight data

parameter such as the volume of freight, shipping time and cost.

Vessel types and commodities mapping

Some systems already in use.

<https://www.clearmetal.com/solution>

===== Highlight these points

Asset utilization optimization is a hot area of research.

Data analytics are getting increasingly utilized to chartering, vetting and voyage operations.

targeted and better-informed decisions

data to enhance decision efficiency

At the end, streamline overall processes

Build possible business models

EFL is using..

For classification and augment decision making in the process phasing out manual processes.

Optimize ROI

Keep track of disruptive events.

Climate change

Already companies have taken lead. Singapore Marine is using a system called Shipmax. Which is a brokering system. Will research such systems also.

record data such as seasons, weather, and economic conditions. – this can help your customers too. So, you can develop a better relationship with your charterers. By helping them optimizing inventory and procurement processes.

Starting from April run the system for a quarter in beta so the system can be verified for it’s accuracy.