

## 5-10 Bn USD lost to shippers due to delays

In issue 567 of the *Sunday Spotlight*, instead of measuring schedule reliability from the perspective of vessels, we measured it from the perspective of the cargo being moved.

To start off, we calculated what share of global trade was being moved on the deep-sea trades that are covered in our *Global Liner Performance* report. We then calculated the share of cargo that was being shipped late. Before the pandemic, the baseline level was roughly 20%, increasing to 70% of the cargo arriving late in the past few months. We then calculated the number of TEU\*Days lost due to late arrivals. The pre-pandemic baseline was an average of 8 million TEU\*Days lost to delays each month. In January 2022, this increased to almost 70 million TEU\*Days, before dropping in March 2022 to 57 million TEU\*Days.

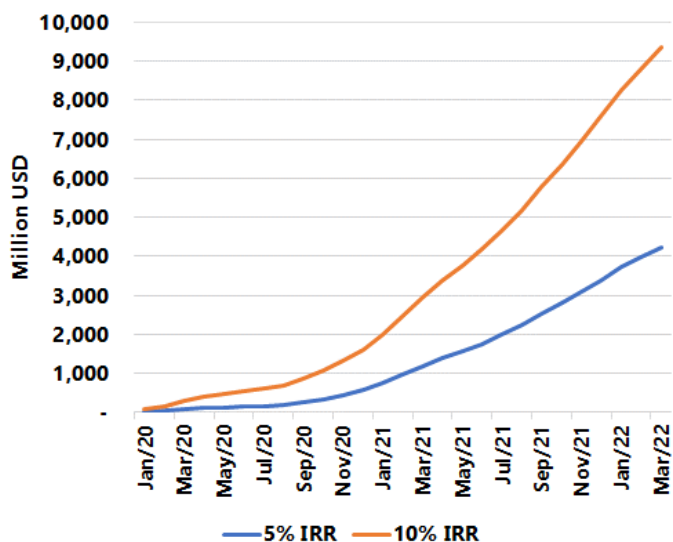
To place this measure into context, it can be argued that the loss of 31 TEU\*days in January is the same as having an “inventory” of 1 TEU of cargo just standing idle for the full month. Using this definition of “inventory”, the pre-pandemic normal is a permanent inventory of 260,000 TEU globally, due to cargo delays. This spiked, due to the current supply chain delays, to a present level of 1.8 million TEU of “inventory”.

Having an inventory equals additional supply chain costs. The cost of inventory depends on the value of the cargo in the container, as well as the interest rate a company assigns to their inventory value (their Internal Rate of Return, IRR). There is of course a very wide spread in the value of the cargo, but a reasonable global standard benchmark is 40,000 USD per TEU. A reasonable IRR is more difficult to assess, as this is highly dependent on the

context a company operates in. Hence, we have made two calculations, one for an IRR of 5% and one for an IRR of 10%.

In order to assess the total impact over the baseline loss (as some cargo always gets delayed), we have calculated the cumulative loss across January 2020 to March 2022, over the 2019 baseline level. This is shown in figure 1. What this tell us, is that the severe vessel delays alone have resulted in a financial loss for the shippers globally, of roughly 5-10 Billion USD thus far. This is only the ocean side and does not include any inland delays or port congestion.

**Fig. 1: Cargo value loss above 2019 baseline**



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