AlixPartners



DAVIES

'Just in time' to 'just be patient'

Exploring issues in the global supply chain

September 7, 2022





Above average 2021 volume growth

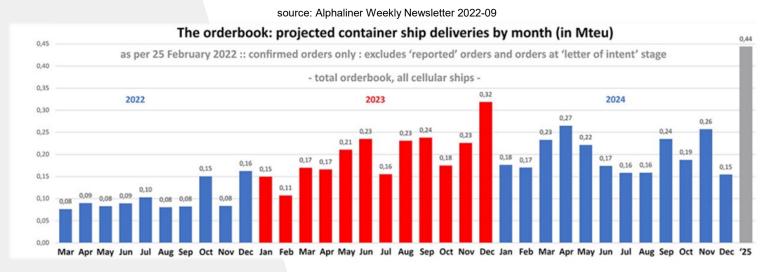
- The largest 30 container ports in the world handled just over 450mn TEU in 2021, an increase of over 6.8% over 2020
- Only 3 ports posted a decline in volumes last year, compared to 15 ports in 2020
- Nine ports logged double digit throughput
- Chinese ports now handle nearly half (47%) of the top 30 throughput

Top 30 Ports in 2021 (including estimates) - Source Alphaliner Ranked by total throughput in teu millions, with previous year's rank in brackets

Rank	Port Name	Country	2021	2020	2019	Growth 21/20%	Growth 20/19%
1 (1)	Shanghai	China	47,025,000	43,501,400	43,303,000	8.1%	0.5%
2 (2)	Singapore	Singapore	37,467,700	36,870,940	37,195,636	1.6%	-0.9%
3 (3)	Ningbo-Zhoushan	China	31,080,000	28,734,300	27,535,000	8.2%	4.4%
4 (4)	Shenzhen	China	28,760,000	26,553,000	25,771,700	8.3%	3.0%
5 (5)	Guangzhou-Nansha	China	24,180,000	23,191,500	23,236,200	4.3%	-0.2%
6 (6)	Qingdao	China	23,700,000	22,004,700	21,010,000	7.7%	4.7%
7 (7)	Busan	S Korea	22,690,258	21,823,995	21,992,000	4.0%	-0.8%
8 (8)	Tianjin	China	20,260,000	18,356,100	17,300,700	10.4%	6.19
9 (10)	Los Angeles/Long Beach	US	20,061,978	17,326,718	16,969,666	15.8%	2.1%
10 (9)	Hong Kong	China	17,788,000	17,326,720	18,303,000	2.7%	-5.3%
11 (11)	Rotterdam*	Netherlands	15,300,000	14,349,446	14,810,804	6.6%	-0.03%
12 (12)	Dubai/Jebel Ali	UAE	13,700,000	13,484,600	14,111,000	1.6%	-4.49
13 (13)	Port Kelang*	Malaysia	13,700,000	13,244,414	13,580,717	3.4%	-2.59
14 (15)	Xiamen	China	12,030,000	11,410,000	11,122,180	5.4%	2.69
15 (14)	Antwerp	Belgium	12,020,245	12,031,467	11,860,204	-0.1%	1.49
16 (16)	Tanjung Pelelas*	Malaysia	11,200,000	9,846,106	9,077,485	13.8%	8.59
17 (17)	Kaohsiung	Taiwan	9,864,447	9,621,672	10,428,634	2.5%	-7.79
18 (20)	New York / Newark	US	8,985,927	7,585,825	7,471,131	18.5%	0.029
19 (18)	Hamburg*	Germany	8,720,000	8,577,647	9,282,012	1.7%	-7.69
20 (21)	Laem Chabang	Thailand	8,523,342	7,546,491	7,980,560	12.9%	-5.49
21 (19)	Ho Chi Minh City*	Vietnam	7,950,000	7,864,100	6,848,360	1.1%	0.15
22 (23)	Colombo	Sri Lanka	7,249,358	6,854,763	7,228,337	5.8%	-5.2%
23 (24)	Tangier Med	Morocco	7,173,870	5,771,221	4,801,710	24.3%	20.29
24 (22)	Jakarta	Indonesia	6,750,302	6,205,301	6,802,200	8.8%	-8.89
25 (26)	Mundra	India	6,665,159	5,656,594	4,732,699	17.8%	19.5%
26 (36)	Nhava Sheva	India	5,631,948	4,474,884	5,100,889	25.9%	-12.3%
27 (28)	Valencia incl Sagunto	Spain	5,614,454	5,428,311	5,439,827	3.4%	-0.2%
28 (35)	Savannah	US	5,613,164	4,682,253	4,599,169	19.9%	1.89
29 (27)	Piraeus	Greece	5,320,000	5,437,000	5,648,000	-2.2%	-3.79
30 (25)	Yingkou	China	5,220,000	5,663,100	5,480,000	-7.8%	3.3%
(*cha	ange based on 2021 es				e estimates for		

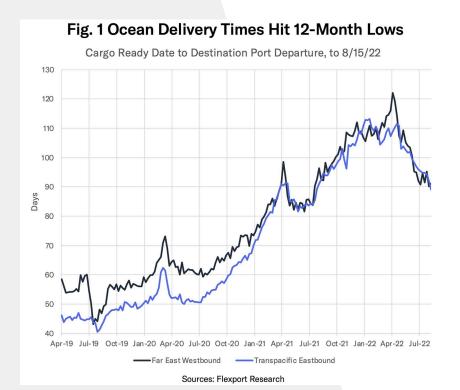
source: Alphaliner Weekly Newsletter 2022-08

New capacity not coming soon enough



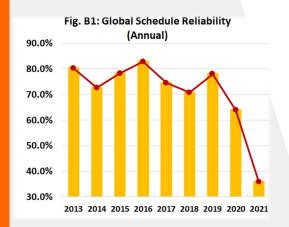
- Based on today's order book both 2023 and 2024 will see a record delivery figure of around 2.40 Mteu.
 More than double what is expected in 2022.
- For a fleet of 25 Mteu 2022 growth of 1.10 Mteu is essentially a zero growth replenishment rate.
- Newbuilding deliveries will only slightly alleviate the pain caused by supply chain problems such as port congestion and equipment shortages.
- There will not be sufficient newbuilds to compensate for the capacity shortfalls caused by the system inefficiencies currently plaguing the industry.

Lead Times are Reducing



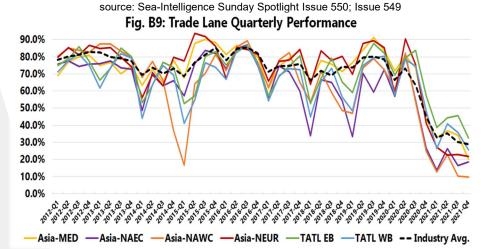
- Transit time on TPEB has moved from 40 days in 2019 to a peak of 108 days in 2022.
- Flexport OTI calculates the total transit from the time when cargo is ready at the factory to the time which it is picked up at its final port of destination.

Schedule reliability is all but gone

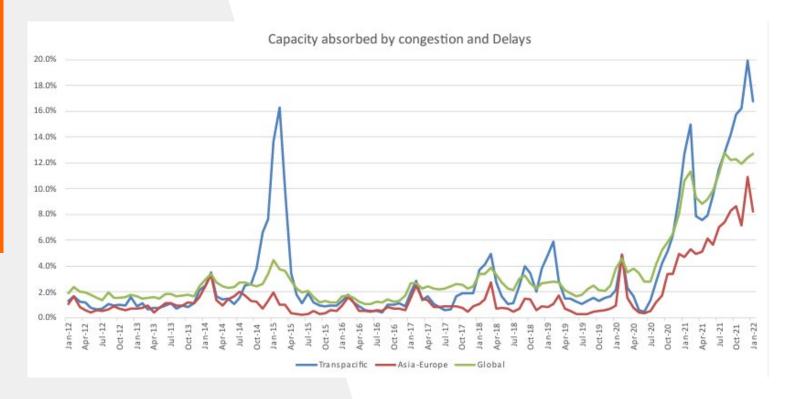


Operational data surrounding the 2015 congestion problem on the US West Coast shows that a reversal to normal reliability and vessels will take 8-9 months if recovery was to start now.

- Global schedule reliability fell to the lowest level ever recorded in 2021
- TPEB was the worst performer with a reliability of 8% on-time in Q4 2021
- No carrier had a global reliability of greater than 50% in 2021
- Port congestion is likely to continue to impact schedule reliability in 2022 and no recovery is in sight



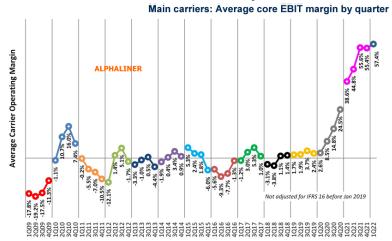
Congestion and vessel delays are soaking up supply



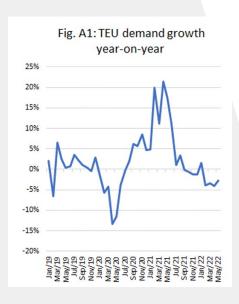
Record Earnings Across the Board

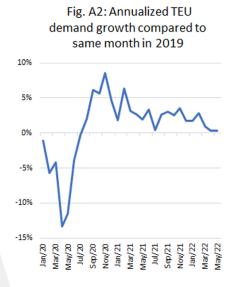


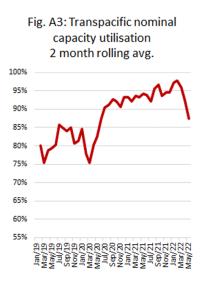
- Every carrier had a record year in 2021 and most have predicted equal if not, better performance in 2022.
- Carriers will continue to reinvest profits but new order book occupies only 25% of industry profits expected in 2021 & 2022.
- Some carriers saw EBIT increase by over 800% in 2021.



Demand is dropping

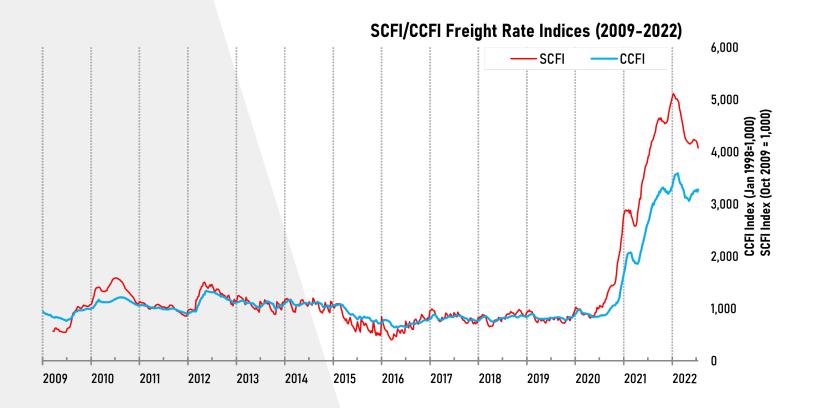






• This implies that capacity is finally beginning to open up – which is good news for shippers.

Rates are dropping





The state of the supply chain:

'Just in time' to 'just be patient'



AlixPartners Disruption Index



72% of CEOs are worried about losing their jobs due to disruption, up from 52% last year.



94% of executives say their business models must change within the next three years.



57% of executives worry their company is not adapting fast enough to the pace of change.



Only 3% of executives say COVID-19 is their number one priority for 2022.

3,000 300 total per industry GLOBAL BUSINESS EXECUTIVES 1,000 North America APAC 1,000 EMEA

Areas of greatest concern

1 SUPPLY CHAIN

Supply chain woes are just beginning

70% of CEOs are concerned with the impact of supply chain disruptions.

Only 43% of executives are focused on longerterm solutions.

77% of executives feel actions taken to address supply chain are not effective enough.

2 WORKFORCE

CEOs' anxiety skyrockets as radical change comes for their businesses

80% of CEOs fear current labor shortages may be permanent.

65% of executives are concerned their company's employees will not have the skills required to succeed in the future.

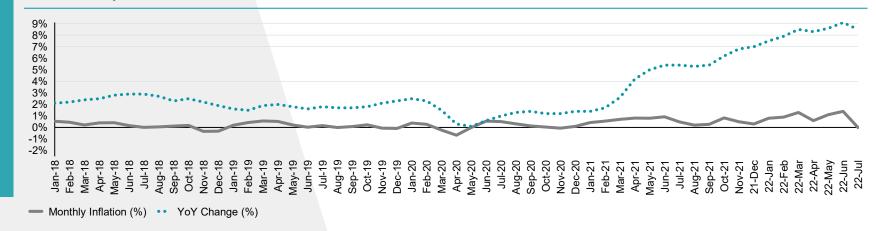
3 DIGITAL

Executives know they need to digitally excel, but don't know how

78% of CEOs believe that the adoption of digital tools is critical to the survival of their company. **46%** of executives say their top challenge is poor execution of the technology and tools in which they have invested.

As inflation hits 40-year high, federal reserve plans rate increases, employers raise wages, and consumers brace for rising costs

U.S.: Monthly inflation rates based on CPI index



Key trends and facts

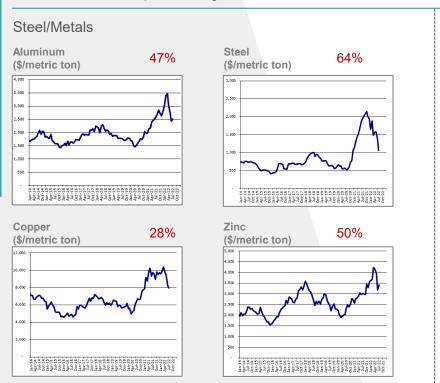
- July ended streak of 19 straight months with CPI increases, cooling to 8.5% after reaching a 40-year high of 9.1% in June
- Inflation hit a 40-year high of 8.5% in March, driven by large increases in food and energy (<u>Business Insider</u>)
- The Federal Reserve anticipates half-point rate increases in the next 2-3 meetings to combat the rising inflation (Reuters)
- Gas prices peaked in June and have started to come down (<u>CNBC</u>)
- Payrolls continue to increase, although many workers will see an increase less than current inflation (CNBC)

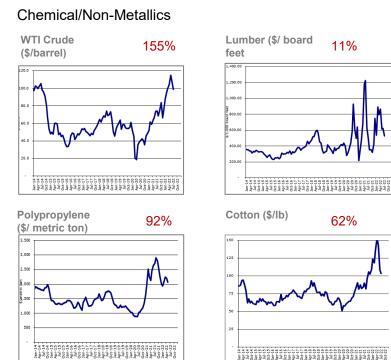
11%

62%

Mid-2022 is seeing top-movers come off recent peaks but still well above 2020 prices

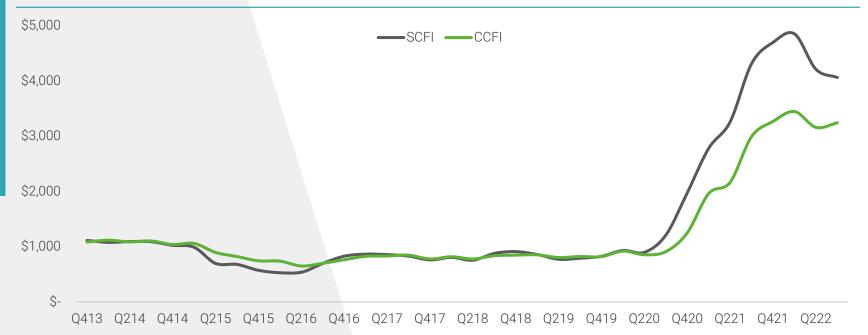
Broad Basket of Inputs at Significant % Increases Still into 2022¹





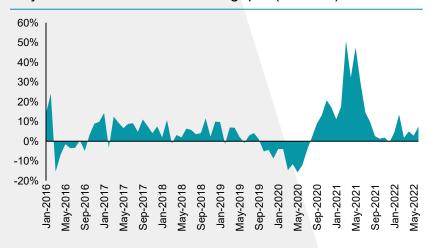
Increased transportation rates – example: container shipping rates currently at record highs

SCFI and CCFI Container Freight Rate Indices

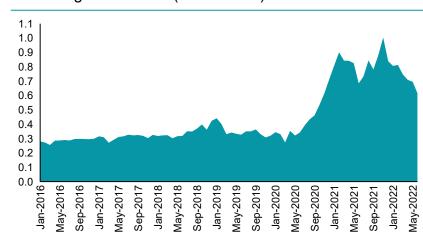


Congestion leading to lack of the right inventory in the right place, which is leading to increased demand and prices in some areas

Major US Port Container Throughput (% Yr/Yr)



Port Congestion Index (Million TEU)¹

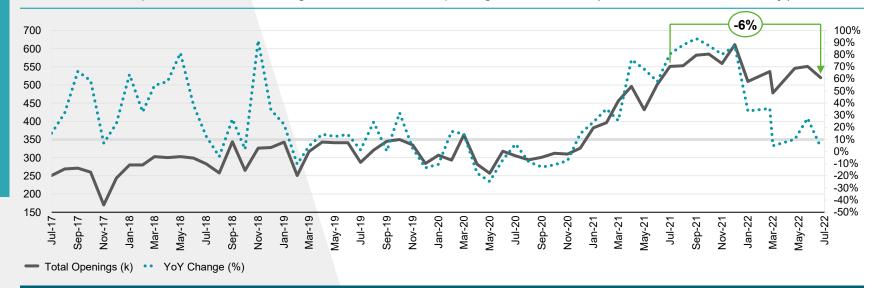


Macro trends

- · Recent throughput trends are likely to continue due to strong consumer spending and retailers catching up on and pulling inventory forward
- · Although throughput has increased y-o-y, gains have been limited by excessive port congestion
- Approximately 10 to 15% of global container ship capacity is floating at anchor
- · Multiple supply chain bottlenecks, in the number of containers that can move inland

Logistics job openings decreased; up 4% YoY and approximately 60% above pre-pandemic levels; unemployment rate fell to 3.5%

U.S.: Total Transportation, Warehousing, and Utilities Job Openings – Nov. 2021 (Thousands; Seasonal Adj.)



Key Trends & Facts

- BLS estimated that there were 520k job openings in the warehousing, transportation, and utilities sector in June; though off all-time highs, the sustained number of job
 openings illustrates to continued challenges to find and retain workers
- Amazon could run out of workers for its warehouses by 2024
- Overall labor market continues to tighten with 3.5% unemployment rate

Wage growth in the United States reached an all time high of 15.31% in April of 2021

Earnings of private sector employees, January 2018 to July 2022



Yearly wage growth compared to previous year January 2021 to June 2022

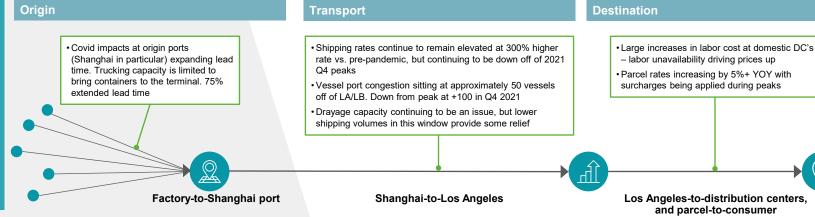


Key trends and facts

- Nominal (not adjusted for inflation) average hourly earnings increased from \$30.95 in October 2021 to \$31.03 in November 2021. However, the real average hourly earnings (considered inflation) decreased to \$11.13 in November 2021 (U.S. Bureau of Labor)
- Wages in 2021 have grown at the fastest rate in 35 years; average hourly earnings over April-June 2021 rose sharply comparing to previous years;
 Wage growth rate in the United States averaged 6.16% from 1960 until 2021, reaching an all time high of 15.31% in April of 2021 (<u>Trading Economics</u>)
- In the long term, the United States Wages and Salaries Growth is projected to trend around **3.6%** in 2022 and **4.0% in 2023**, according to Trading Economics global macro models (<u>Trading Economics</u>)

SC Disruption on a pair of shoes: Transit time from China delayed by 74% and cost has increased 68% versus pre-pandemic

June 2022 Update



Los Angeles-to-distribution centers, and parcel-to-consumer

Time period	Origin port processing	Ocean transit	Destination port processing	Drayage	Destination process and shipping	Total
Transit time pre-pandemic (days)	4 to 6	11 to 14	2 to 5	1 to 2	5 to 9	23 to 39
Transit time current (days)	14 to 20	16 to 24	5 to 10	2 to 8	5 to 10	39 to 69
Cost (pre-pandemic)	Incl.	\$0.31	Incl.	\$0.11	\$7.00	\$7.42
Cost (current)	Incl.	\$1.64	Incl.	\$0.12	\$10.69	\$12.46















Disclaimer - Important Information Regarding this Presentation

This presentation was prepared by AlixPartners, LLP ("AlixPartners") for general information. DISTRIBUTION OF THE PRESENTATION IS STRICTLY CONFIDENTIAL AND NON-RELIANCE BASIS AND SUBJECT TO THE PROVISIONS OF THIS DISCLAIMER. No one in possession of this Presentation may rely on any portion of this Presentation. The recipients of the Presentation accept that they will make their own investigation, analysis and decision relating to any possible transactions or investment and will not use or rely upon this Presentation to form the basis of any such decisions. Accordingly, no liability or responsibility whatsoever is accepted by AlixPartners and its employees, partners or affiliates for any loss whatsoever arising from or in connection with any unauthorized use of the Presentation.

This Presentation may be based, in whole or in part, on projections or forecasts of future events. A forecast, by its nature, is speculative and includes estimates and assumptions which may prove to be wrong. Actual results may, and frequently do, differ from those projected or forecast. Those differences may be material. Items which could impact actual results include, but are not limited to, unforeseen micro or macro economic developments and/or business or industry events.

The information in this Presentation reflects conditions and our views as of this date, all of which are subject to change. We undertake no obligation to update or provide any revisions to the Presentation to reflect events, circumstances or changes that occur after the date the Presentation was prepared. In preparing this Presentation, AlixPartners has relied upon and assumed, without independent verification, the accuracy and completeness of all information available from public sources or which was otherwise provided to us. AlixPartners has not audited or verified the data reviewed in connection with the preparation of this report.

The Presentation is incomplete without reference to, and should be viewed solely in conjunction with, the oral briefing provided by AlixPartners which forms part of the Presentation.

Neither the Presentation nor any of its contents may be copied, reproduced, disseminated, quoted or referred to in any presentation, agreement or document with or without attribution to AlixPartners, at any time or in any manner other than for the internal use of the recipient, without the express, prior written consent of AlixPartners.