



Identification of trends and competencies is a joint effort between industry and academia

A presentation for Batam - Semarang Polytechnic

Aldrin Purnomo
Infineon Technologies Batam



Infineon is a globally leading semiconductor player



top 10
semiconductor company

~46,700
employees*

leading player
in automotive, systems for power
management and drives, sensor systems,
connected secure systems, wireless combos,
differentiated memories

9%+ | 19% | 13%
target operating model**

* as of 30 September 2020

** over the cycle 9%+ revenue growth; 19% Segment Result margin; investment-to-sales ratio of 13%; targets to be approached as integration progresses

Global megatrends underline the increasing importance of microelectronics



Demographic & social change



Climate change & resource scarcity



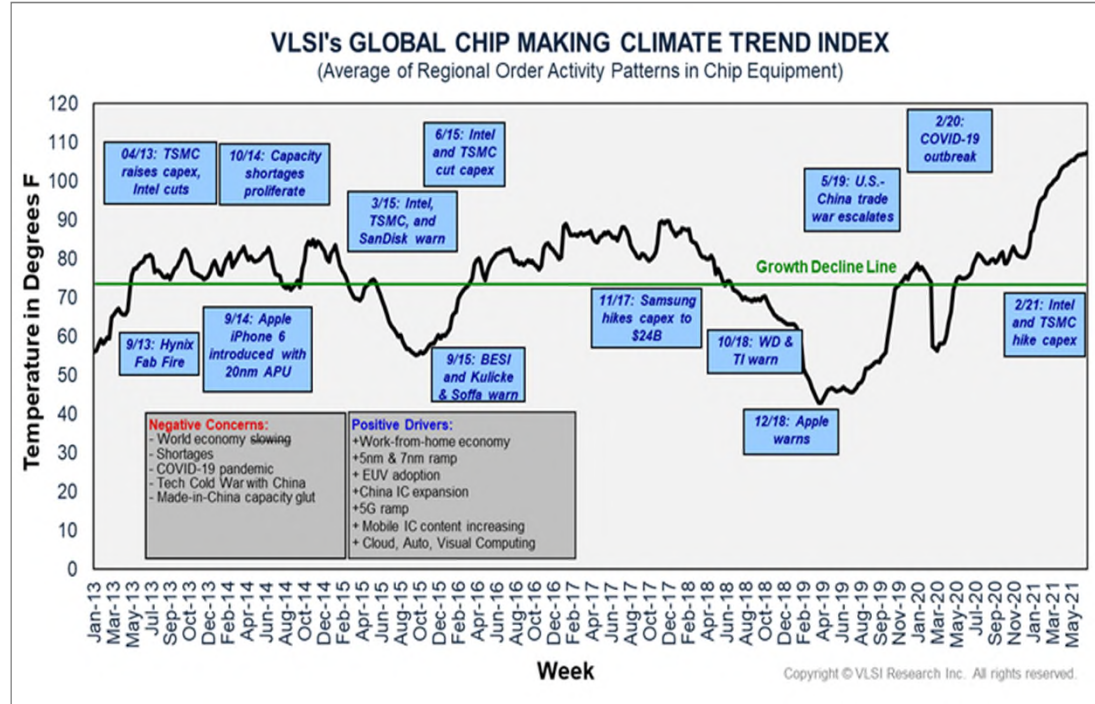
Urbanization



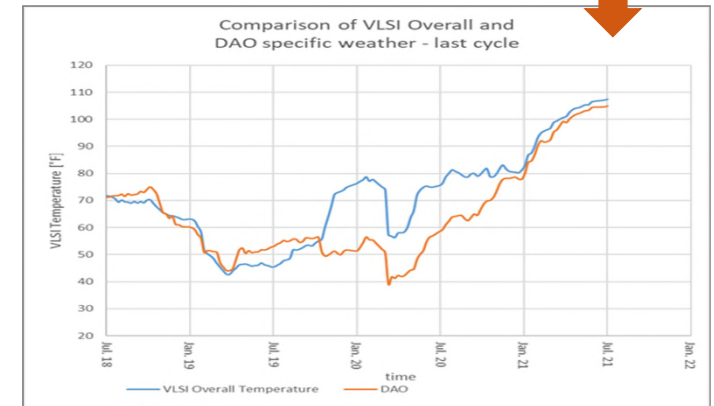
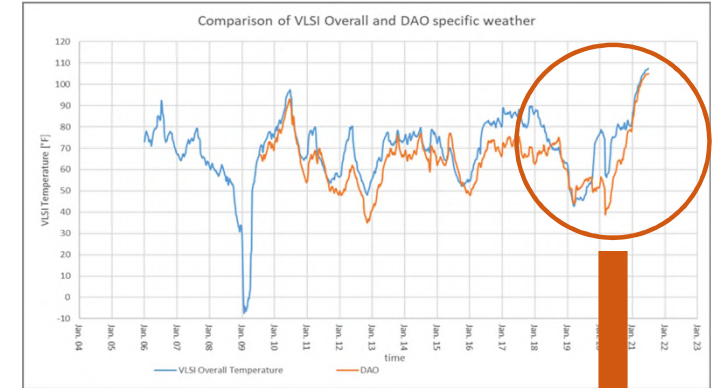
Digital transformation

VLSI demand figures

Highest demand in history occurs after countries lockdown open



Tremendous demand trend put huge pressure for logistics and supply chain with huge opportunities

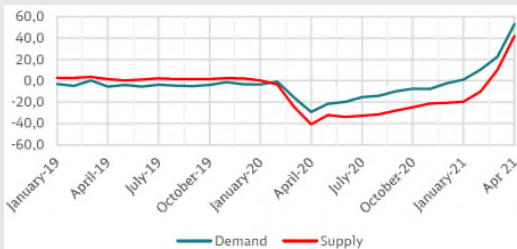


Air freight market update : Global airfreight demand continues to grow, capacity remains tight due to lack of passenger flights and ocean capacity shortage

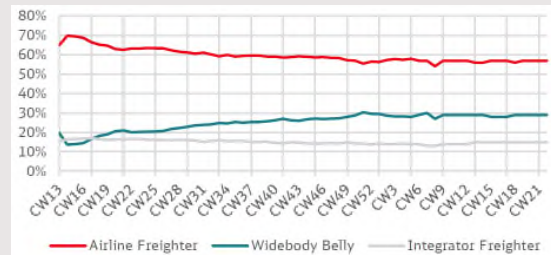
Airfreight market update

- **Global airfreight demand** continues to **grow** in April with 53% above last year. Also the Supply increased the second month in a row compared to last year (+42%). **Market demand** in 2021 is **expected** to **further increase** based on **recent market developments**.
- **Port congestions** and **ocean price hike** lead to **additional airfreight demand** as well as an increase of ocean to air mode shift conversion
- **Capacity** still **insufficient** to **support current demand surge**
- **57%** of cargo handled by **freighters**, **passenger flights** not expected to return to pre-COV levels until **2025-2027**, more bailouts/ mergers/ bankruptcies expected

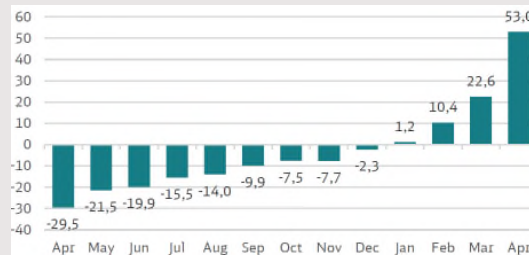
Supply & demand development % change YOY



Passenger/freighter ratio % of total capacity



Global Volume Development CTK%-change YoY



Sources: DB Schenker Global Airfreight Market Update June 2021, DB Schenker Covid-19 Global Customer Advisory Update 23.06.21, IATA Economics, DHL Global Forwarding | Airfreight State of the Industry | May 2021

Sea freight market update: Global demand is outperforming supply, market rates are expected to stay high

Supply

- **Growth of supply** not expected to exceed **3-4%**
- **Missing sailings** and in consequence **missing repositioning of empty equipment in all main trades** resulting from Suez canal blockage
- Situation around **Covid-19 cases in port of Yantian** (China) further tightens the bottleneck

Demand

- Adjusted **market outlook** for **2021** shows an expected **global demand growth of 8.9%** significantly **outperforming supply**
- **Volume pressure ex APAC** to all destinations remains strong; **volumes ex Europe remain strong** as well, especially to the Americas

Impact of Suez canal blockage

- **Late arrivals of vessels** lead to further **port congestions** and delayed departures, causing an **average delay of 1.5 weeks** for all vessels
- Suez canal blockage had not only an impact on availability of vessels on affected trade lanes, but **affects the availability of containers globally**

Rates & outlook

- All main trades show **record rate levels**, several continue to **climb up further**, **congestion surcharges** are being introduced
- Overall **tight situation** expected to last throughout Q3/2021
- Global carrier **schedule reliability down to 40%**

Sources: Schenker Ocean Market Update May 2021; Schenker Customer Advisory COVID-19: Global Update June 9th

Continuous improvement is a key focus of logistic companies to drive the challenges



Fast and Agile Logistic Business Partners

Rapid industries demand changes must fulfilled by same pace of LSP capabilities



Logistic Technology with Industry 4.0 readiness

BlockChain, Big Data Analysis, Artificial Intelligence, Automating Warehouses, Autonomous Vehicle and Sustainability through technology



Competitive cost with high efficiency

Industries always eager to find more than competitive LSP to have better pricing, competitiveness and services



Upskilling and reskilling the logistic resources

"LSP will need to ensure workers have the ability to gain new skills to help in their current role (upskilling) and provide skills training enabling to take on different or entirely new roles (reskilling) to optimize efficiency and productivity across the supply chain

Complexity of logistic demand and challenges push the logistic company into digitalization

Key takeaways...

1 Improving mobility and productivity is a goal for almost all logistic companies in the last few years.

This target can be achieved with innovative decisions and approach

2 Digitalization is the only way to overcome the complexities and challenges demand

3 Close collaboration between academia and industry will enable a future-ready workforce to take advantage of digitalization and drive innovation in logistic processes





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