

Webinar, April 29th, 2020

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Prof. Marko Bastl, PhD



Your Panelists



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Agenda

- SCM at Marquette University
- Global environment and how have we been designing supply chains so far
- Covid-19 Short-term SC impact and what companies should be doing?
- Covid-19 Longer-term SC impact and what companies should be doing?
- Q&A

SCM at Marquette University

- Located in Milwaukee
- SCM Program
 - Undergraduate
 - Graduate Online MS in Digital Supply Chain Management
- Rankings:
 - 15th (Internationally) SCM World (2017)
 - o 16th (Nationally) Gartner (2018)
 - o 17th (Nationally) US News & World Report (2020)



- Rankings contd.:
 - 3rd (Nationally) Quality of curriculum Gartner (2018)
- Demand driven curriculum with an emphasis on applied learning
- Placement: 99.2% (excluding international students)
- Internships: Compulsory for graduating
 - 40% seniors with two or more internships



GLOBAL ENVIRONMENT AND HOW WE HAVE BEEN DESIGNING SUPPLY CHAINS SO FAR ...

Global Environment and SC pressures

 Global Supply Chains were already changing, due to a multitude of factors!

Pressure on Costs-to-Serve:

- Energy Costs
- Environment
- Tariffs
- Regional Conflicts
- Cyber Attacks
- Natural Disasters
- Regional Epidemics

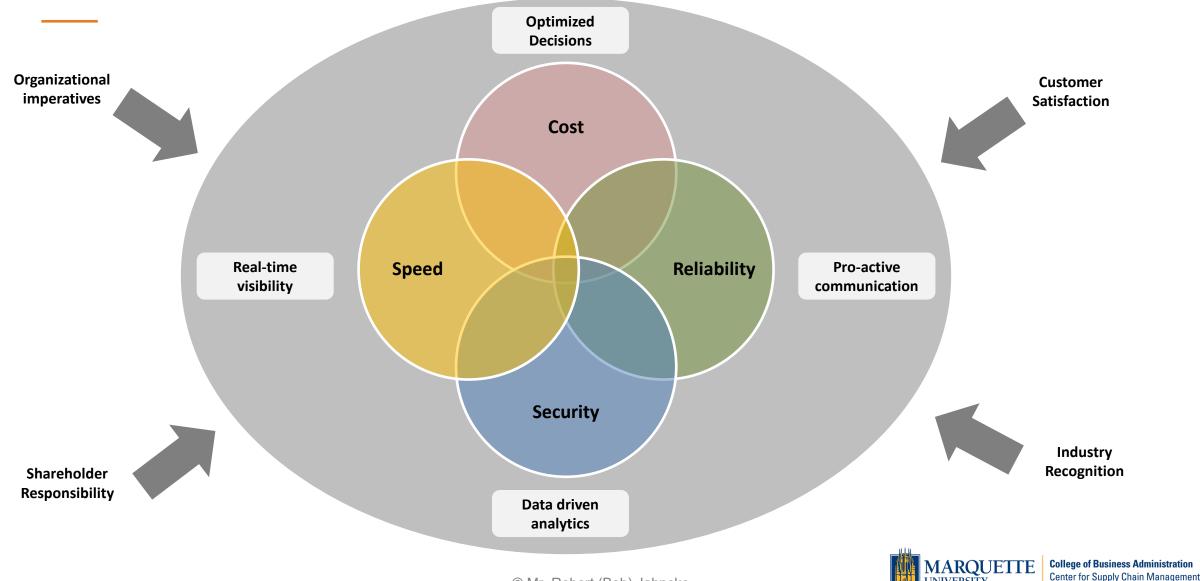
Pressure on Capacity:

- Rapid growth of E-commerce →
- Reduced Air Cargo and Warehouse Supply

Pressure on ROIC:

- Asset Light companies increasingly using 3rd
 Parties to run their operations
- Low interest Rates →
 SC Investment stimulus

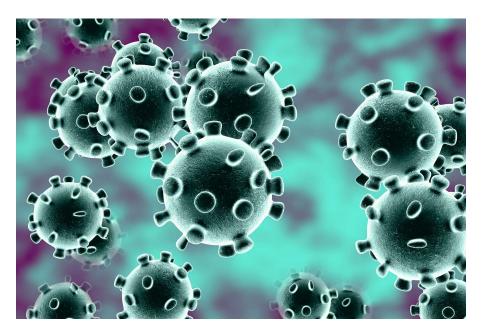
S/C optimization – BEFORE Covid-19 ...



... and the result

 Vigorous pursuit of Supply Chain Excellence in order to drive Increased Profitability!

And then came...



COVID-19 – SHORT-TERM SUPPLY CHAIN IMPACT AND WHAT SHOULD COMPANIES BE DOING?

A Few Recent Headlines

Europe Borders May Be Closed Until September Due to the Covid-19 Threat Food Supply Chains Slow Around the World in Trucking Bottlenecks And Worker Health issues

Shippers shocked its quarterly dividend Son

Shippers shocked by scale and speed of blanked sailing announcements

Some Airlines Will Remove Seats To Carry Cargo And Medical Supplies On Passenger Aircraft

Converted Into Freighters

Boeing Loses Plane Orders as Coronavirus Hits Global Air Traffic

US airlines are losing money for the first time in years as coronavirus ends travel boom

Millions of Americans join unemployment
line as coronavirus savages economy

Short-Term Challenges

- 1. When the crisis finally abates, we will likely experience near term shortage of air, ocean & trucking capacity...
 - Airlines have grounded 90% of their flights → reducing wide body capacity that carries much of IAF tonnage
 - Container Ship sailings reduced dramatically with multiple canceled (blanked) sailings each week
 - Trucking firms laying-off drivers and reducing capacity in USA as States shelter-in-place ... more to follow

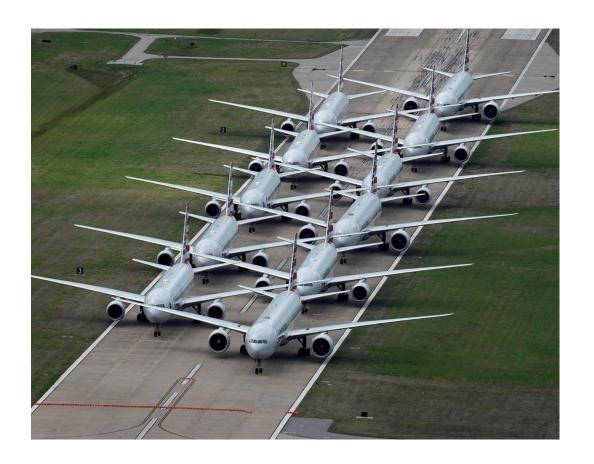
Multiple EU "Schengen"
 Borders closed in March
 → Significant obstacle
 to cross-region trucking.

3. Worker health and Worker availability



Source: www.washingtonpost.com, April 2020

Compounded, these factors will amplify the disruption of global logistics and supply chain networks.



Source: www.businessinsider.com, April 2020



Fast-Forward 45-90 days

 let's assume that the
 "all clear" siren is finally being sounded!

What is going to happen?



A race toward the recovery and return to "normal":

- Companies rush to re-stock their own supply chains +
- Big push for year-end 2020 to salvage the business...

... only to find:

- Globally disrupted logistics and supply-chain networks
- Severely impacted supply base (1st tier and lower)
- Impacted Build-Move-Store Capacity

able to Secure Ocean **Freight Capacity! Option A** Result ... A Near-term Shortage **Ocean Freight Option B** of Air-cargo Capacity → Users **Higher Rates Option B Planes Parked** Multiple Months →

Not all Firms will be

Air-Worthiness

Approval Needed!

Surface Freight Users



Driver Displacement plus Failures in NA & EU Trucking Industry



A Challenged Schengen Process



A 'forgotten' Brexit

+

Result ... A Near-term
Shortage of Surface Freight
and Storage Capacity ...

Plan Now!



Health of Current / Future Drivers and W/H Workers



E-commerce W/H Dominance



- A few more factors to be considered if lockdown ends in 45-90 days:
 - Larger retailers will likely go "all out" to salvage CY' 20 pushing hard for Holiday season!
 - Push will be aggressive even if demand lags!
 - This "demand surge" will challenge S/C reliability, logistics capacity, impact cost <u>and</u> imperil the survival of some businesses!

Short-Term Initiatives

- Start planning now Internally!
 - X-functional team approach Marketing/Sales + Finance +
 Purchasing/Materials + Logistics + Production Planning
 - Understand the plans for "Re-filling" your factories and your customer base
 - Assume "Day-X" as a Re-start Date Add a Re-start Delta of 15 days for 4-6 cycles
 - Update plans every 15 days!

Short-Term Initiatives, continued ...

- Start planning now Externally!
 - Start Prioritizing Fulfilment Plans with your supply chain partners now!
 - Material suppliers multi-tier / multi-level approach ... Will some of them need "help" from you?
 - Logistics and Brokerage Providers
 - Warehouse Operators + JIT Hubs / Kitting Operators + Others

Short-Term Initiatives, continued ...

- In parallel Start forming your "Long Term" Team!
 - Who will be your suppliers?
 - What will be your priorities?
 - When = 1-2 years, 3-5 years, 5+ years Time Horizons!
 - Where will you be located (Factories, Warehouses, etc.)?
 - Why ... because you cannot wait for the crisis to end ... because your competition won't be waiting!
 - The Time To Act Is Now!

COVID-19 – THE LONGER-TERM S/C IMPACT AND WHAT SHOULD COMPANIES BE DOING?

Long-Term Impact

 The Covid-19 outbreak will accelerate long-term changes in Supply-Chain strategy started with tariffs and geopolitical issues.

 Need to systematically address supply chain vulnerabilities

Long-Term Impact

Why are our supply chains so vulnerable?

- 1. Focus on efficiency over the effectiveness
- 2. Globalization of supply chains
- 3. Focused factories and centralized distribution
- 4. (Over)outsourcing
- 5. Supply base reductions
- 6. Poor supply chain visibility



Long-Term Impact - initiatives

1. Rethink single origin bias:

- Single geography
- Single/sole supplier sourcing practices

2. Strategic Industries – Pharmaceuticals and Hi-Tech – will face increased Government Pressure to "Re-regionalize"

Long-Term Impact – initiatives continued ...

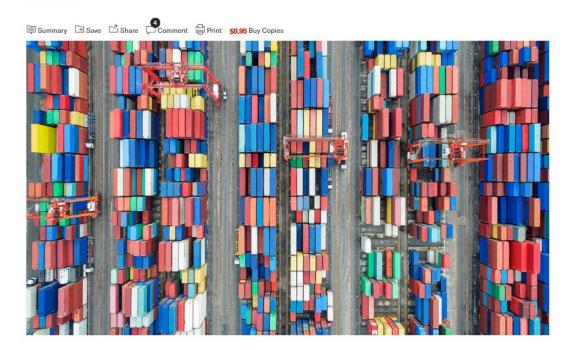
3. Start taking Supply Chain Risk Management seriously:

- Contrary to the popular belief, most risk in supply chains arises from internal company's decisions and NOT external events
- Increased Emphasis on "Health-Hardening" as well as "Contingency Planning"
- Understand your supply chains

Long-Term Impact – initiatives continued ...

Coronavirus Is a Wake-Up Call for Supply Chain Management

by Thomas Y. Choi , Dale Rogers and Bindiya Vakil March 27, 2020



Source: Harvard Business Review, April 2020

- What are your critical paths?
 - Long lead-times / Sole sourcing
 - Multiple T1 suppliers sharing same T2 supplier
 - Infrastructure dependence and Material Flow Bottlenecks
- Inventory positioning
- Is procurement function still measured by costs savings versus revenue-assurance?

A Reminder from Recent History ...

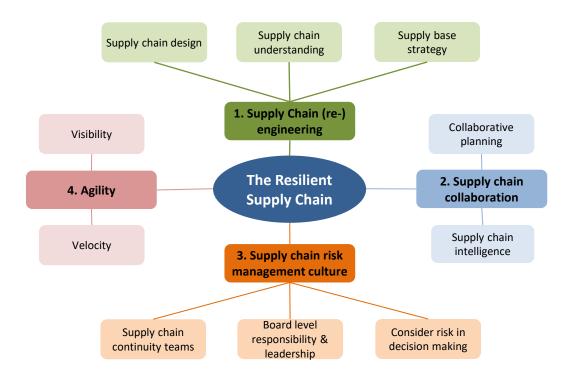


Source: The Atlantic, March 2011

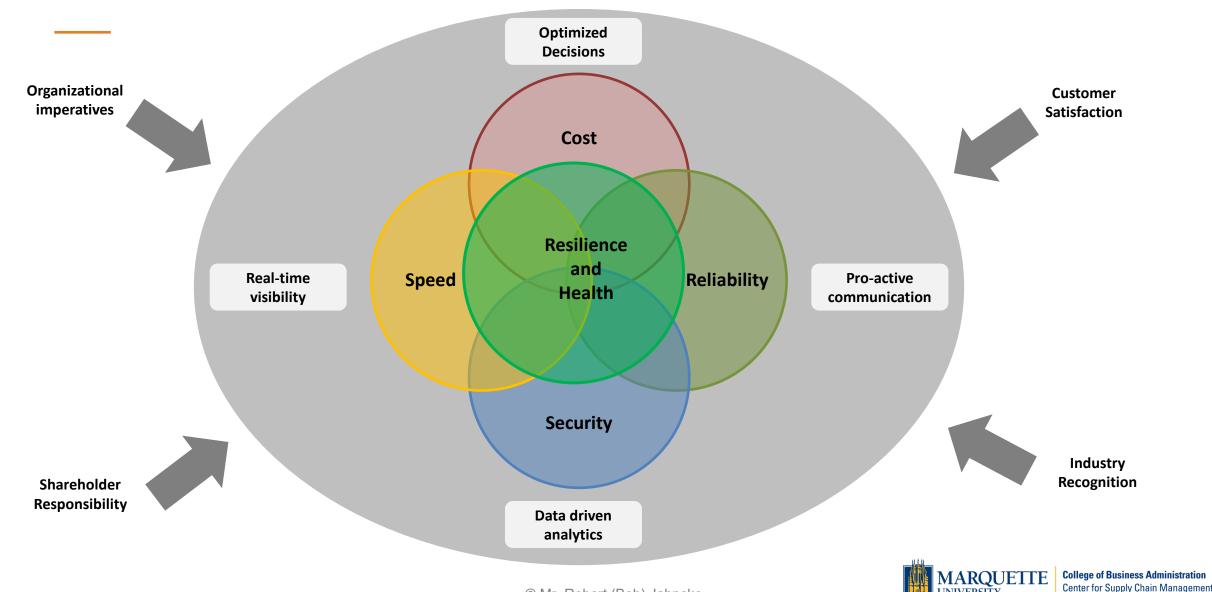
- Some of the practices implemented were:
 - Parts standardization
 - Increase in safety stock (deep in a supply network)
 - Multi-region and multisupplier sourcing
 - ... but then we "forgot"

Long-Term Impact – initiatives continued ...

4. Supply Chain Reliability and Resilience should become a Top-priority – because "Iow cost" does not help if you cannot move your product!



Leading to S/C Optimization AFTER Covid-19



Some Closing Thoughts

- Winners Companies who rebound quickly by managing short-term issues in parallel with long-term S/C redesign
- Don't think if you've scraped through through this crisis that you're okay – the next time you probably won't be

Because ...

Your long-term competition – the "winners" – will be acting now ... and so should you!

Q&A

And Now Over To Our Audience

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