



Master Supply Chain Management







Supply Chain Processes

- Foxconn's Zhengzhou ("iPhone City")
 - 3 plants, 90 production lines and up to 350.000 (!!) employees
 - Assemble up to half a million iPhones per day
 - 400 steps to assemble an iPhone
 - Typical working day
 - 48 hour per week regular hours (60 hours incl. over time)





Transport & Logistics

- > The "iPhone effect"
 - > Increase in air freight prices when new iPhone is introduced



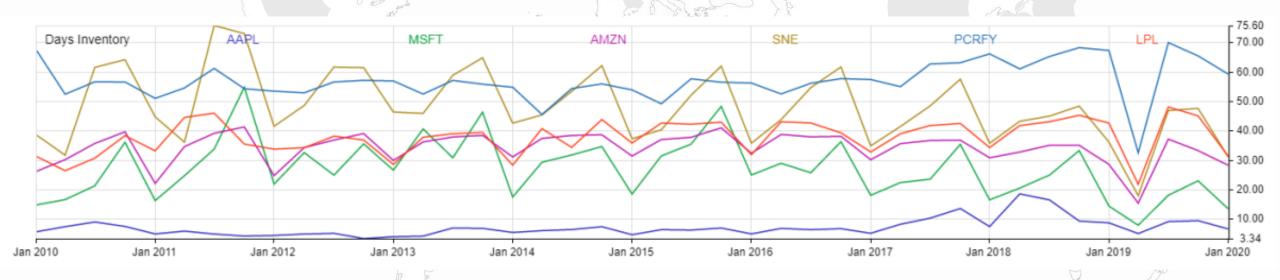
THE LAUNCH OF THE NEW IPHONE DRIVES UP THE COST OF AIR FREIGHT

by Modus Modus | Oct 20, 2020 | Uncategorised | o comments

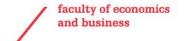


Inventory Management

> Apple holds very little inventory

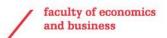












Apple News

TSMC reportedly books its entire 5nm chip production capacity for Apple

By **Jeet** - Sep 18, 2020



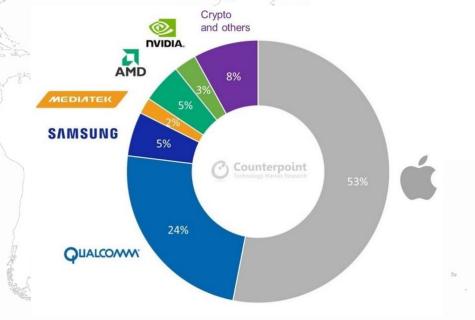
TSMC, the world's largest chipset manufacturer, had started mass-production of 5nm chip for the past few months. Now, it is being reported that the company's facility for the production of 5nm chips has been fully booked by Apple.

According to the latest report coming from China, the Taiwanese Semiconductor Manufacturing Company will be making chips for the iPhone 12, iPad Air, 5G iPad Pro, and the upcoming MacBook.



Supply Chain Coordination

> Suppliers strongly depend on Apple, ...



Supply Chain Coordination

> ..., but Apple is also strongly dependent on its suppliers

Bloomberg

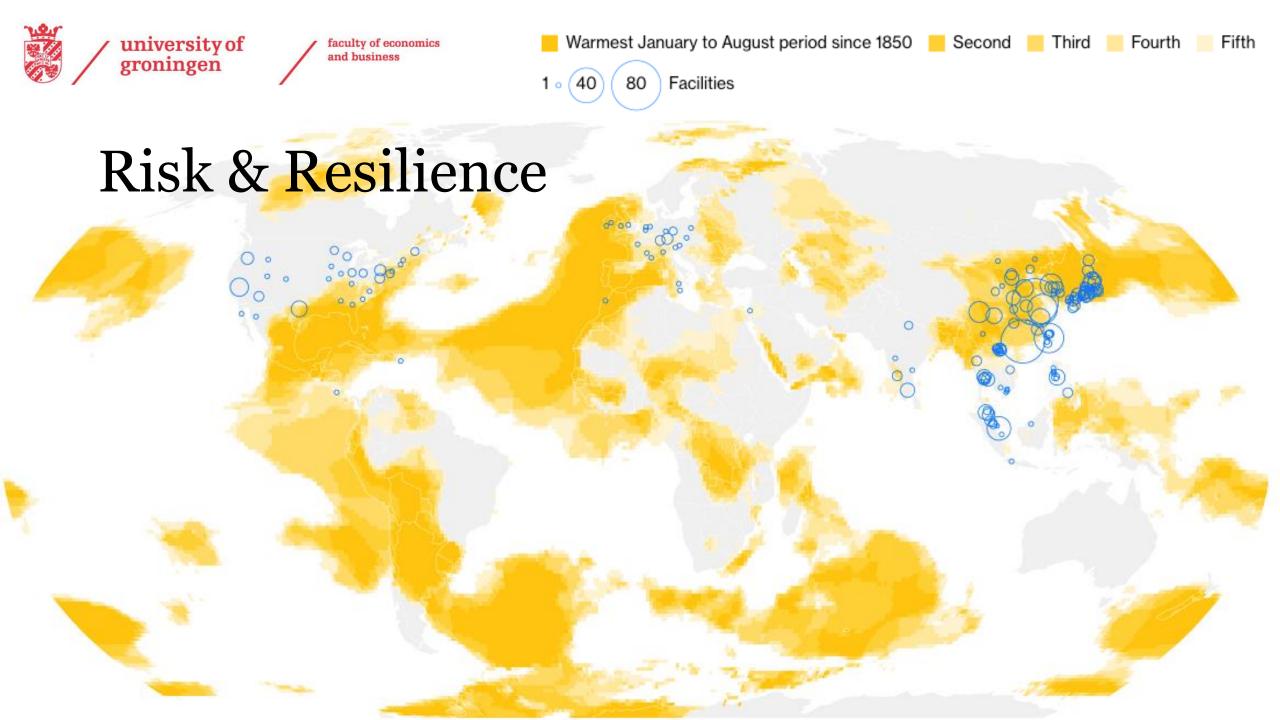
What you need to know: The Global Chip Crisis

Technology

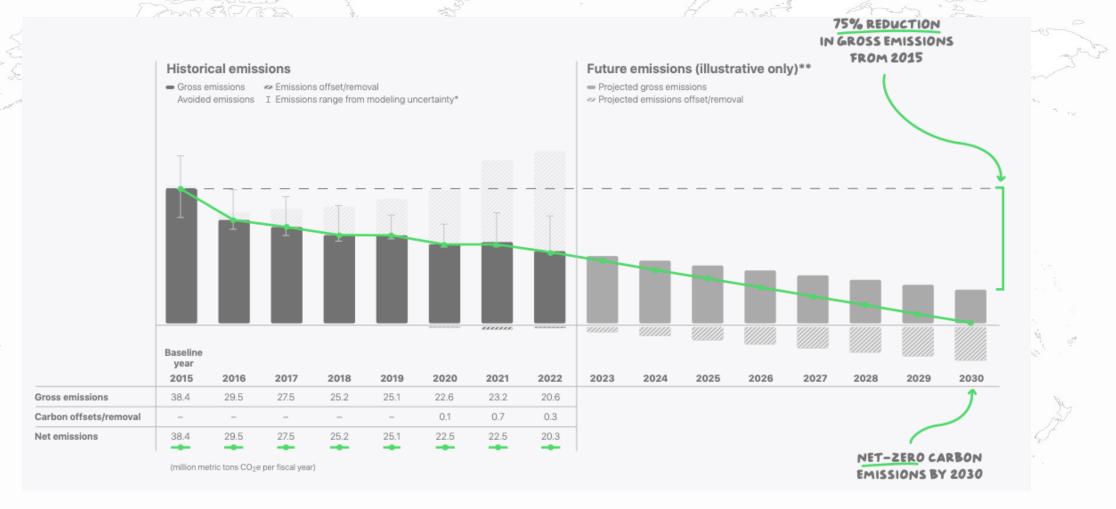
Apple Set to Cut iPhone Production Goals Due to Chip Crunch

By Debby Wu +Follow
12 October 2021, 22:00 CEST Updated on 12 October 2021, 22:09 CEST

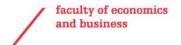
- ▶ Company expects to make 10 million fewer iPhones than planned
- ► Broadcom, Texas Instruments struggling to deliver enough parts



Sustainable Supply Chain Management







Compulsory courses

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc	thesis



Selecting your (!) program

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc thesis	
Service Operations*	Purchasing*	Global SCM & Sustainability*	Sales and Operations Planning*
Facility Design and Planning*	Sustainable Transport & Logistics*	Supply Chain Dynamics*	Inventory Management*
Healthcare Purchasing and Supply Chains	Strategic Collaboration in Healthcare	Healthcare Operations	Challenges in Healthcare
Sustainability: Strat., Innov. & Change	Sustainable Energy Supply	Energy Transition & Innovation	Carbon Footprint of Supply Chains
Financial Reporting and Risk Management	Smart Industry Operations	Financing the Energy Transition	Regulating Energy Markets
	Data-driven Business Processes		Innovation & Entrepreneurship

Your program (management)

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc thesis	
Service Operations*	Purchasing*	Global SCM & Sustainability*	Sales and Operations Planning*
Facility Design and Planning*	Sustainable Transport & Logistics*	Supply Chain Dynamics*	Inventory Management*
Healthcare Purchasing and Supply Chains	Strategic Collaboration in Healthcare	Healthcare Operations	Challenges in Healthcare
Sustainability: Strat., Innov. & Change	Sustainable Energy Supply	Energy Transition & Innovation	Carbon Footprint of Supply Chains
Financial Reporting and Risk Management	Smart Industry Operations	Financing the Energy Transition	Regulating Energy Markets
	Data-driven Business Processes		Innovation & Entrepreneurship

Your program (quantitative)

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc thesis	
Service Operations*	Purchasing*	Global SCM & Sustainability*	Sales and Operations Planning*
Facility Design and Planning*	Sustainable Transport & Logistics*	Supply Chain Dynamics*	Inventory Management*
Healthcare Purchasing and Supply Chains	Strategic Collaboration in Healthcare	Healthcare Operations	Challenges in Healthcare
Sustainability: Strat., Innov. & Change	Sustainable Energy Supply	Energy Transition & Innovation	Carbon Footprint of Supply Chains
Financial Reporting and Risk Management	Smart Industry Operations	Financing the Energy Transition	Regulating Energy Markets
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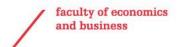
Your program (health)

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc thesis	
Service Operations*	Purchasing*	Global SCM & Sustainability*	Sales and Operations Planning*
Facility Design and Planning*	Sustainable Transport & Logistics*	Supply Chain Dynamics*	Inventory Management*
Healthcare Purchasing and Supply Chains	Strategic Collaboration in Healthcare	Healthcare Operations	Challenges in Healthcare
Sustainability: Strat., Innov. & Change	Sustainable Energy Supply	Energy Transition & Innovation	Carbon Footprint of Supply Chains
Financial Reporting and Risk Management	Smart Industry Operations	Financing the Energy Transition	Regulating Energy Markets
	Data-driven Business Processes		Innovation & Entrepreneurship

Your program (sustainable energy)

Semester 1a	Semester 1b	Semester 2a	Semester 2b
SCM Fundamentals	Research Methods for SCM	Supply Chain Coordination	
Supply Chain Processes		MSc thesis	
Service Operations*	Purchasing*	Global SCM & Sustainability*	Sales and Operations Planning*
Facility Design and Planning*	Sustainable Transport & Logistics*	Supply Chain Dynamics*	Inventory Management*
Healthcare Purchasing and Supply Chains	Strategic Collaboration in Healthcare	Healthcare Operations	Challenges in Healthcare
Sustainability: Strat., Innov. & Change	Sustainable Energy Supply	Energy Transition & Innovation	Carbon Footprint of Supply Chains
Financial Reporting and Risk Management	Smart Industry Operations	Financing the Energy Transition	Regulating Energy Markets
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Selecting your (!) program

- 4 Compulsory courses (20 EC)
- 4 Electives (20 EC)
 - With at least 10 EC within the SCM discipline (more allowed)
 - With room for 10 EC electives on broader themes
- 1 Master's thesis (20 EC)





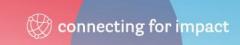


Entry requirements

Business Administration	University of Groningen	No additional requirements
Econometrics and Operations Research	University of Groningen	No additional requirements
Economics and Business Economics	University of Groningen	No additional requirements
International Business	University of Groningen	No additional requirements
Industrial Engineering and Management	University of Groningen	No additional requirements

From another program or university?

Check https://www.rug.nl/masters/supply-chain-management/#!requirements



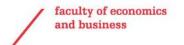




Why Supply Chain Management?







Why Supply Chain Management?

- Management trainee Supply Chain Operations
- Supply chain analyst / engineer / planner / coordinator
- (Strategic) buyer / procurement coordinator









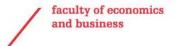
Why SCM in Groningen?

- Lecturers that are world-renowned experts in their field
- Strong link with practice
 - Guest speakers and real-world case assignment
 - Focus on developing skills that are essential for a supply chain management position:
 - Making informed decisions based on supply chain data
 - Thrive within diverse teams
 - Communication









Double Degree Master in Service & Supply Chain Management

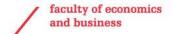
- 2-year program
 - 1st year at Católica Porto Business School,
 MSc in Management, Specialization in Service Management.
 - 2nd year at the University of Groningen, MSc in Supply Chain Management.















Double Degree Master in Service & Supply Chain Management

Information Session:

April 8, 13:00-14:00

Room: 5419.0109

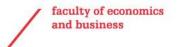
Register if you want to attend:











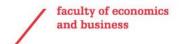
Student Perspective

Alieke Haanstra

- BSc Economics and Business Economics
- MSc SCM and MSc TOM





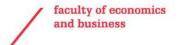


Why I chose MSc SCM at the University of Groningen?

- Relevance to the current economic landscape
- Practical Applications
 - Desire for a program with immediate applicability
- Balance between Quantitative and Qualitative
 - Combined with MSc TOM for a deeper dive into quantitative aspects





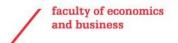


My experience so far

- Real-life Assignments
- Emphasis on Group Work
- Motivated Group of Students and Lecturers
- Addresses the Latest Developments







Example of a Course set-up

Supply Chain Network Design

- Quantitative Course
- Week 4: Exam
 - High pace, but everyone on the same track
- Week 5-7: Group Project
 - Present your idea
 - Introduce an innovation
 - Find a feasible solution to a Facility Location Problem







Example of a Course set-up

Strategic Supply Chain Management

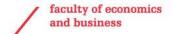
- Qualitative Course
- Serious Game: The Fresh Connection
 - Everyone plays a different role (VP Operations, SCM, Strategic Alignment, Purchasing, Sales)
 - Weekly meetings to think of a strategy
 - Goal: Maximize revenue
 - Use of theory to back up your decisions















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