

Operations and Supply Chain Management (OSCM)

Operations and supply chain managers focus on how to **develop capabilities to design**, **produce and deliver** products and services in a competitive market.

Capabilities drive performance including:

- Products & service features
- Costs
- Quality
- Time to market
- · Ability to innovate



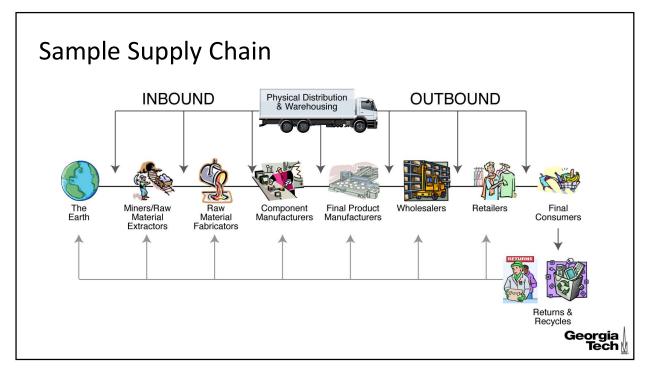
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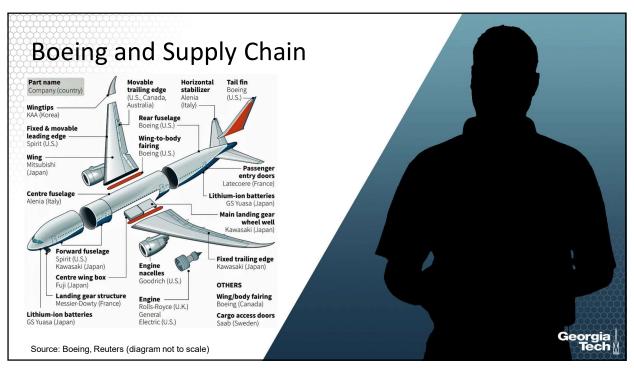
Six Primary Processes

The Supply Chain Council sees OSCM as having 6 Primary Processes:

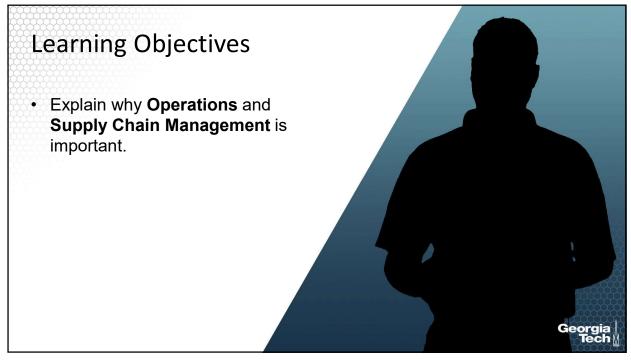












Why Does Ops & Supply Chain Matter?

What the cluck? KFC runs out of chicken

CLOSED

"We've brought a new delivery partner on board, but they've had a couple of teething problems — getting fresh chicken out to 900 restaurants across the country is pretty complex!"

The company recently switched from a specialist food-delivery company to German shipping giant DHL, which promised in October to "set a new benchmark for delivering fresh products to KFC in a sustainable way."

Instead, DHL conceded that it has had "operational issues" in recent days, which resulted in "incomplete or delayed" bird deliveries.

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By REUTERS April 17, 2016

Toyota, the world's biggestselling automaker, said on Sunday it would suspend much of its production at plants across Japan this week after earthquakes in the country's south led to a shortage of parts, while some other manufacturers extended stoppages due to damage to factories.

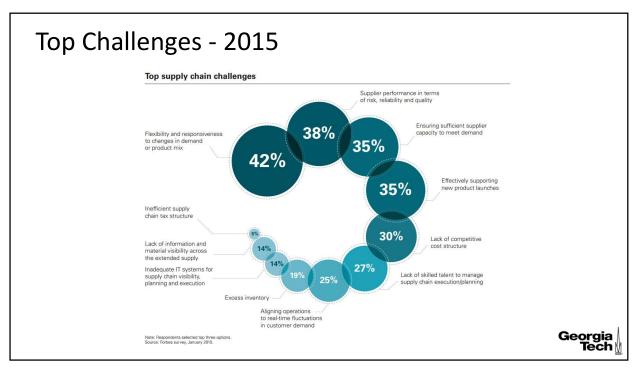


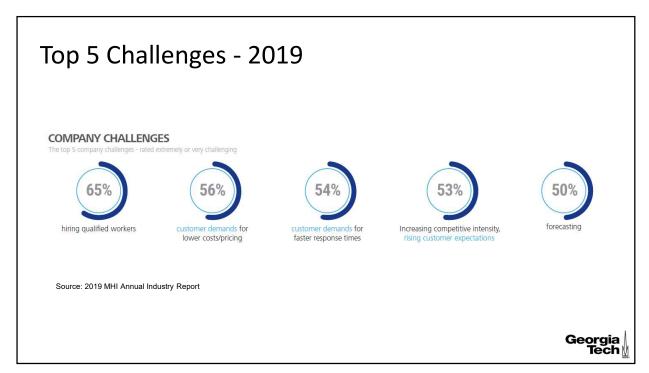




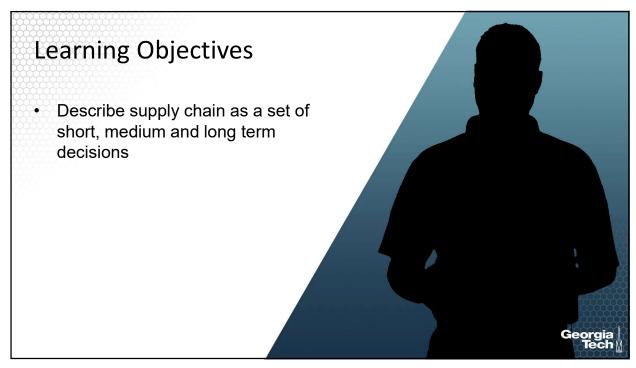


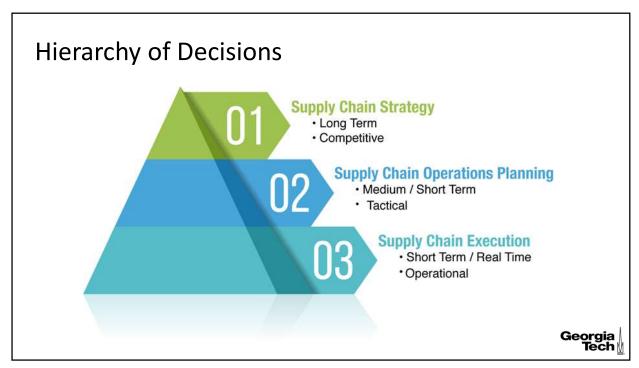


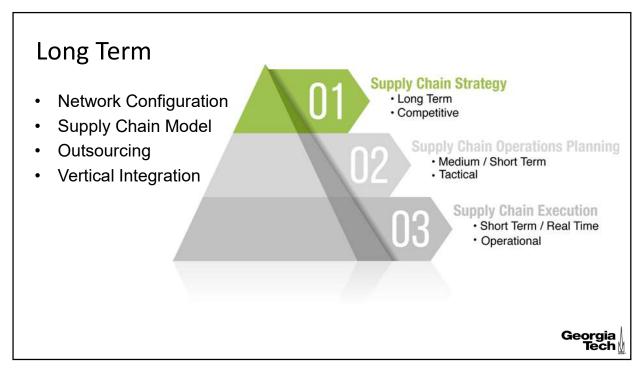


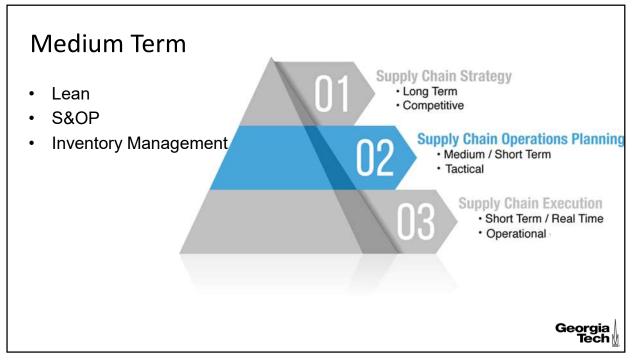


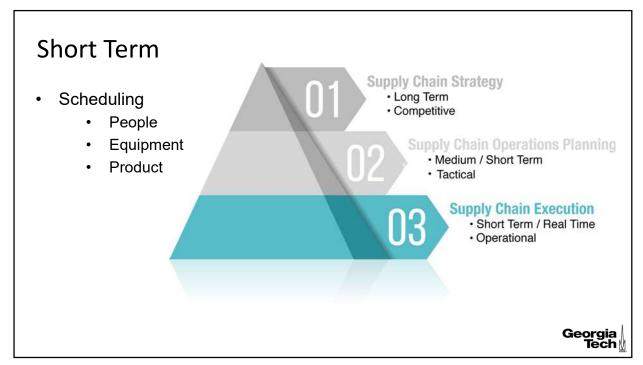


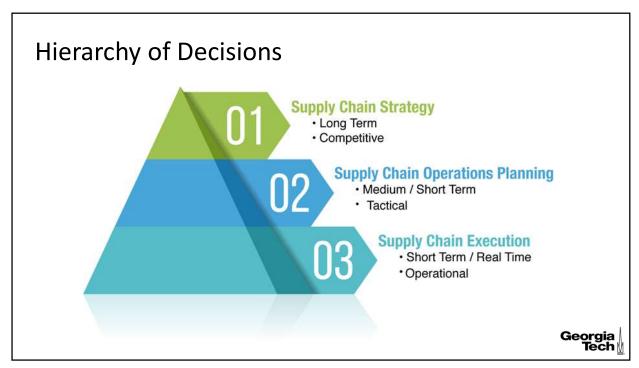


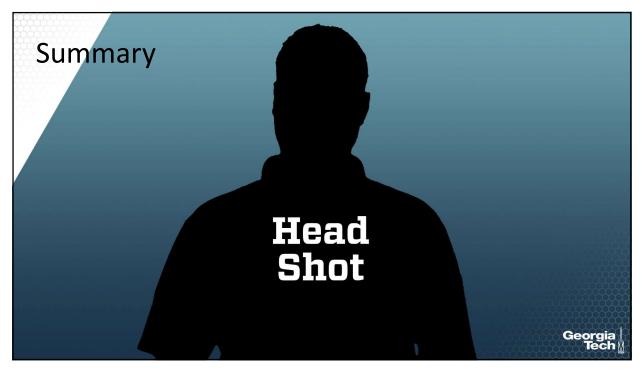


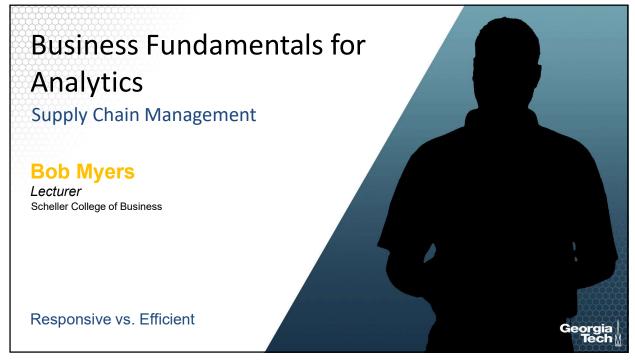


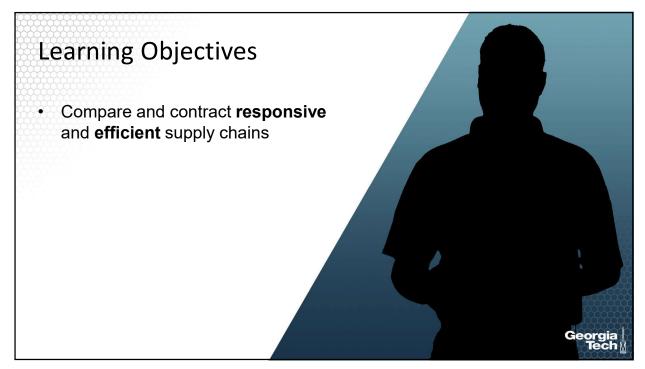


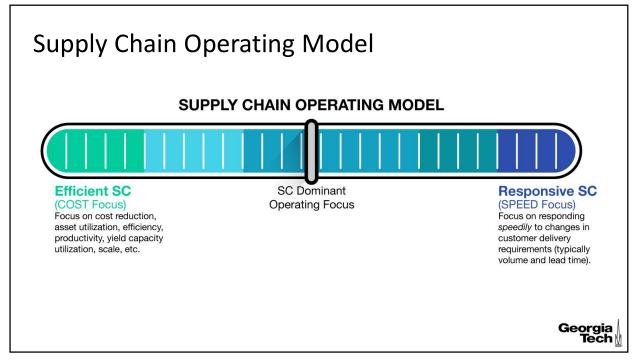




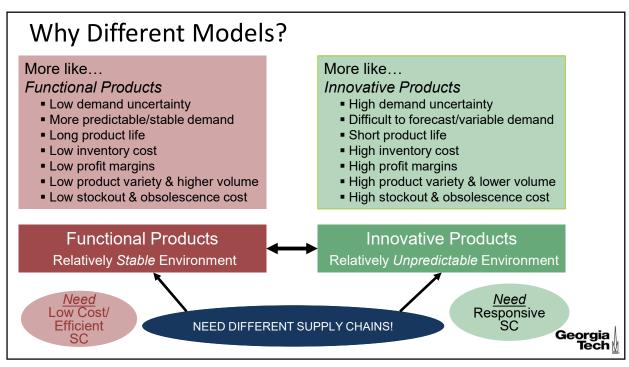


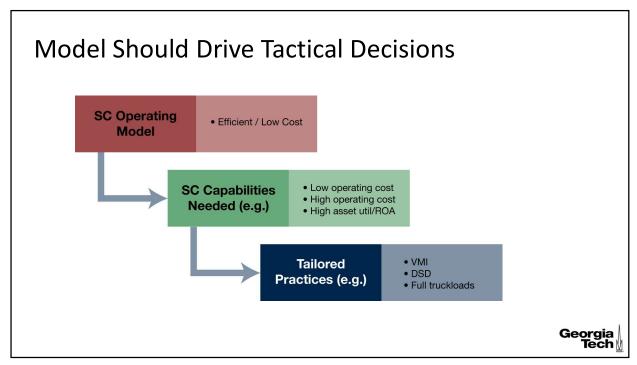


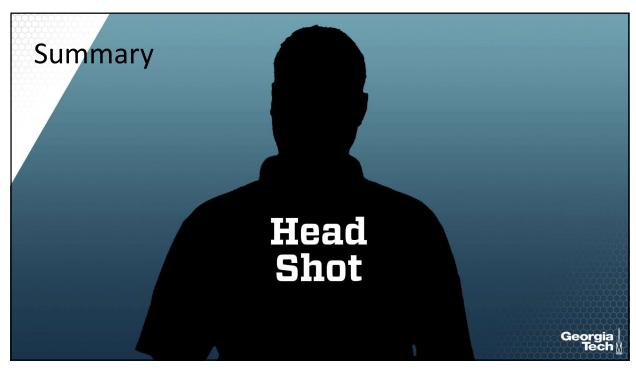




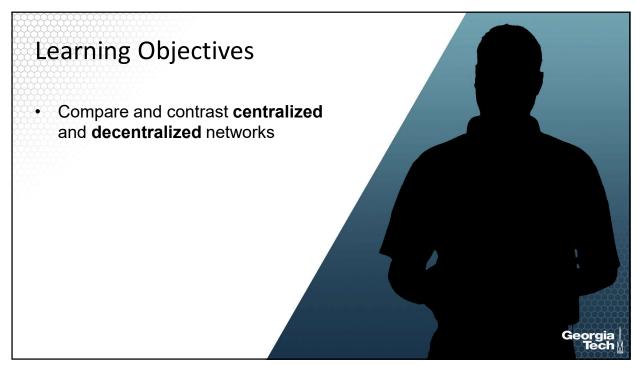
Driving the Operating Model thru the Supply Chain			
	Efficient SC (Cost Focus)	Responsive SC (Speed Focus)	
SC Operating Model	Supply predictable demand efficiently at the lowest possible cost	Respond quickly to unpredictable demand in order to minimize stockouts, lost sales, markdowns, & obsolete inv	
Capacity Strategy	Maintain high average util. rate	Deploy excess buffer capacity/capacity flexibility	
Inventory Strategy	Generate high turns and minimize inventory throughout the supply chain	Deploy significant buffer/safety stocks of parts or finished goods	
Lead Time Strategy	Reduce lead time as long as it doesn't increase cost	Invest aggressively in ways to reduce lead time	
Supplier Capability	Select primarily for cost and quality	Select primarily for speed, flexibility, resp., and quality	
Logistics Strategy	Greater reliance on low cost modes	Greater reliance on fast/speedy modes	Georgia Tech

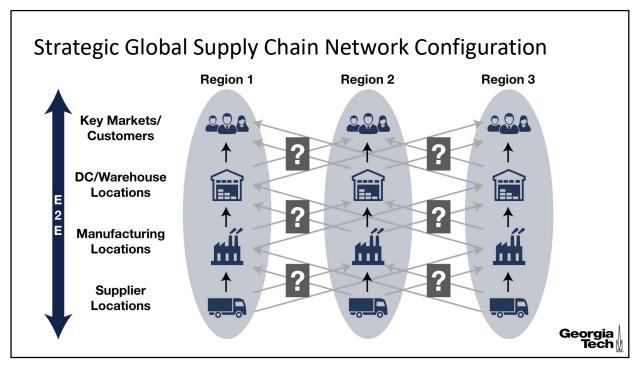


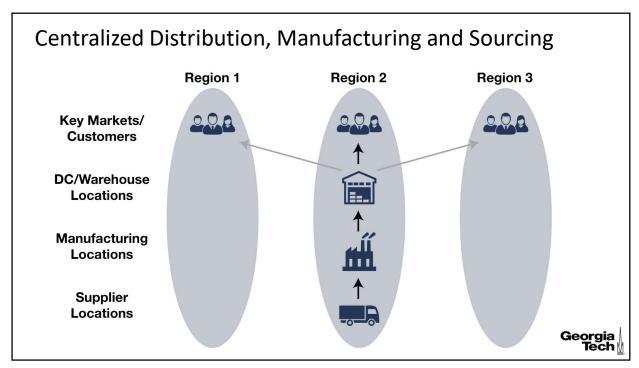


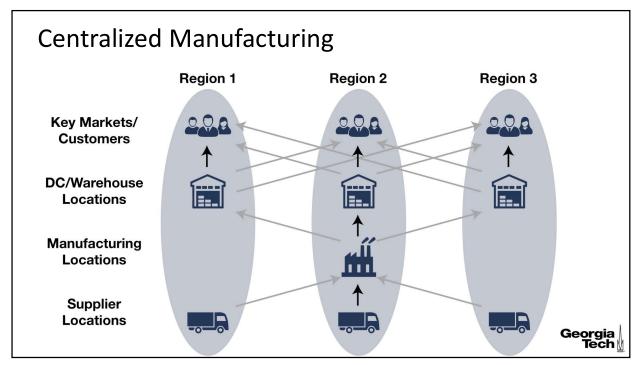


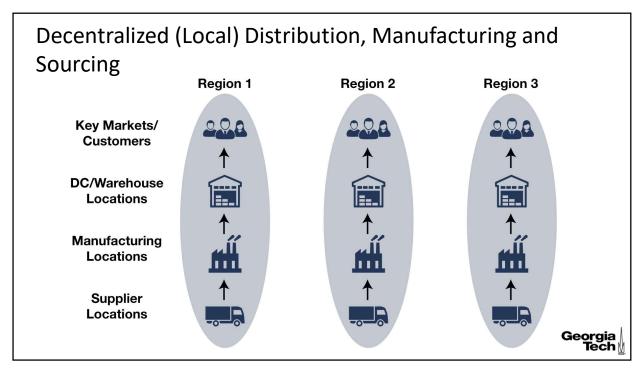


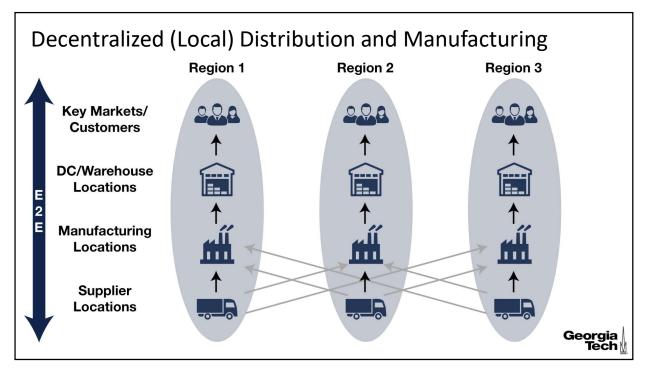


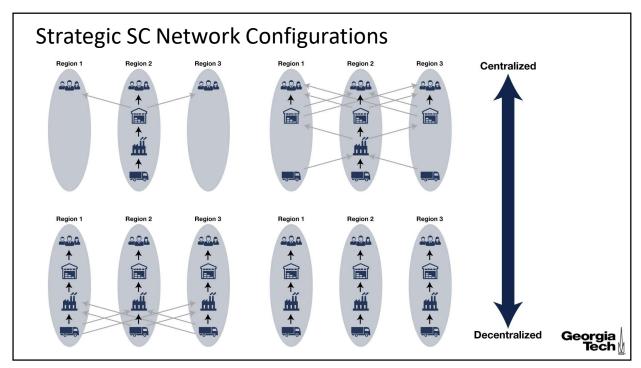


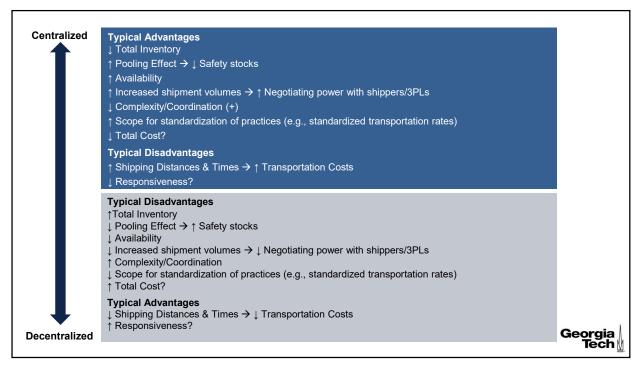












When is a Centralized Strategy More Appropriate?

- Stable/predictable or unpredictable demand environment?
- · High velocity or low velocity?
- · When need higher or lower product availability?
- · Many or few points of sale (delivery points)?
- · Low or high distribution cost per weight?
- High volume or low volume per shipment?
- Low or high distribution complexity?

When need Efficient (low cost) supply chain!



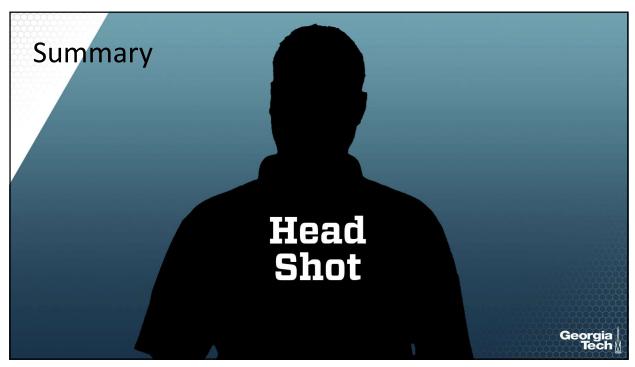
When is a Decentralized Strategy Beneficial?

- · High demand uncertainty/unpredictable environment
- High velocity environment fast moving products
- Need to reduce delivery lead times
- Need higher delivery responsiveness
- Many points of sale
- · High distribution cost per weight
- Need more delivery customization

When need a Responsive supply chain!

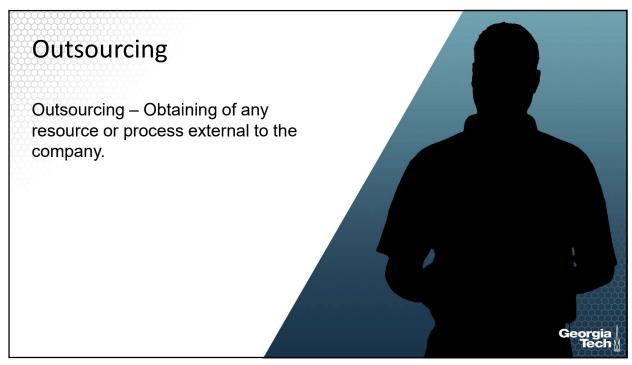


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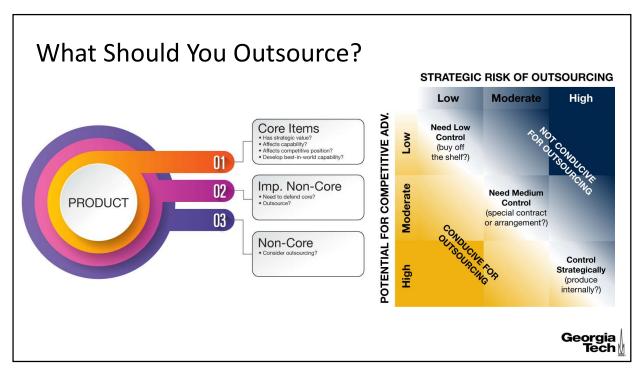


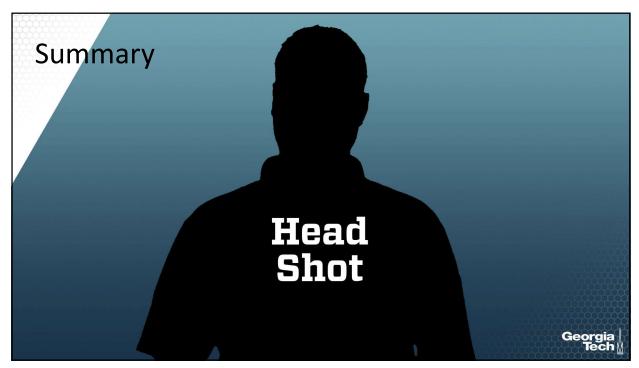


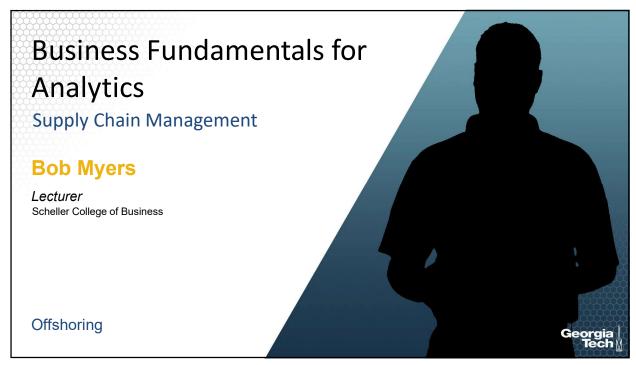
Why Should You Outsource?

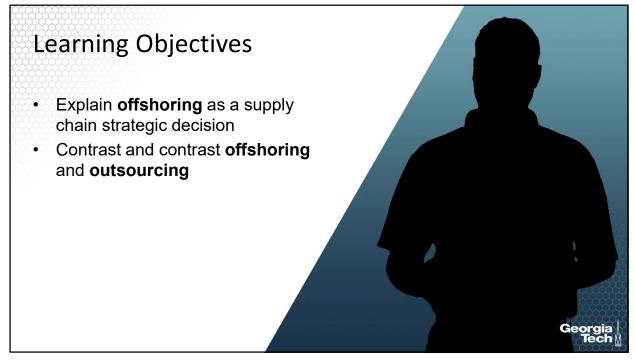
- Reduce and control costs
- Increase flexibility and speed
- · Decrease lead times
- Increase innovation capability
- Focus on core capabilities/competencies
- · Gain access to world class capabilities
- Free internal resources for other purposes
- Insufficient resources are available internally
- · Share risks with a partner company











Offshoring

Obtaining of any resource or process external to the company and across the ocean.

**Note you can offshore to yourself (Captive Offshore)

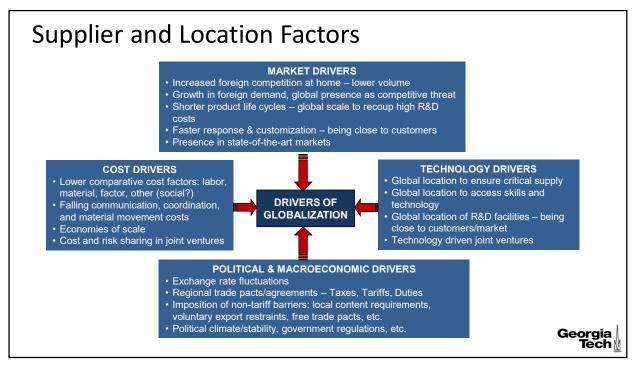
Nearshoring Re-shoring



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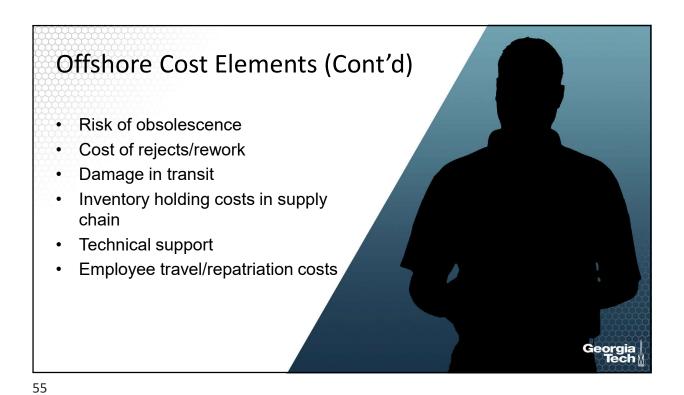




Offshore Cost Elements

- Free On Board (FOB) Cost
- Export Taxes
- International/Ocean transportation costs
- Insurance and tariffs
- Brokerage cost (shipping and money)
- Letters of Credit
- Cost of money (interest rates)
- Exchange rates exposure
- Inland freight costs (domestic & overseas)





Pitfalls of Offshoring

- Exchange rate volatility
- Effect on core competencies
- Delivery lead times and reliability
- Suppliers become future competitors
- Often inaccurate "true" cost of offshore sourcing
- Lack of control over suppliers' cost and quality
- Supplier integrity
- Inaccurate determination of overall product cost
- Introduction of various risk elements in the supply chain



