MIS 3534 Spring 2015 – Strategic Management of Information Technology Week 13 – IT-Driven Competitive Strategies

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# What did you learn from Otis and Wyndham?

- What did you learn from Otis and Wyndham cases (with IT and Competitive Strategies)?
- Today's topic is "IT-Driven Competitive Strategy." How different do you think this topic is from Day 2 and 3 topic?





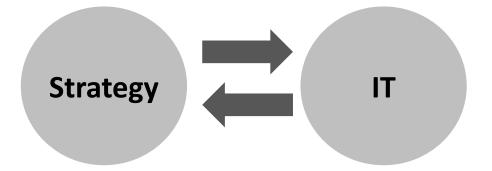
http://www.jobaps.com/SCCAT/sup/bulpreview.asp?R1=64&R2=47&R3=10 http://mw.newsblaze.com/story/2008022105002000004.mwir/topstory.html

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## Today, we'll discuss ...

- We have discussed that competitive strategies affect how companies use IT.
- Today, we'll discuss the other way around.
  - How IT affects competitive strategies.
  - How firms can leverage IT in formulating new strategies for disruptive innovation and sustainable competitive advantages.





# **ITC eChoupal**

- Describe eChoupal. What is this for?
- With eChoupal, what is ITC trying to accomplish?

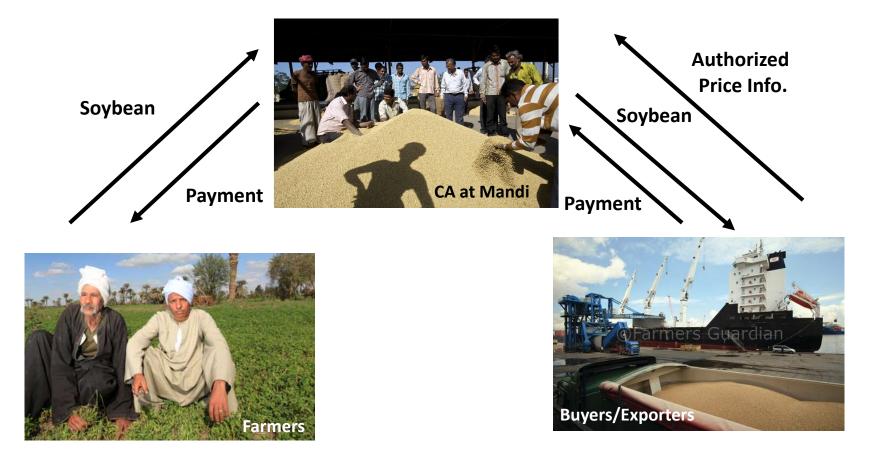


http://www.indiantelevision.com/perspectives/y2k4/rural\_itc.htm

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### How did the old supply chain of soybean work?



<u>http://www.cargill.com/connections/soy-grows-in-egypt/index.jsp</u> http://www.bloomberg.com/news/2012-09-20/soybean-meal-exports-from-india-to-climb-on-record-crop.html http://www.farmersguardian.com/store-and-drying-facility-saves-grain-exports-from-ruin/25037.article

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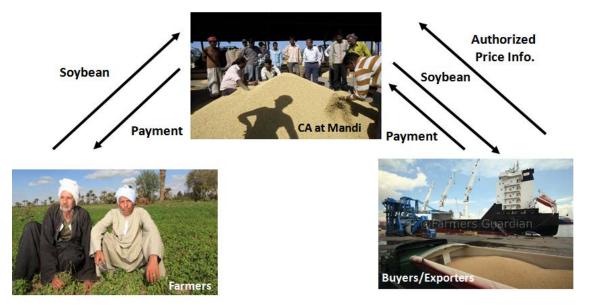
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# The Old Supply Chain of Soybean (1/2)

• What are the "*choke points*" in the old supply chain of soybean?



- Who are the *losers* and the *winners* in this relationship?
- What are *the other losses* to the farmers than lost revenues?



# You've got an offer!

- Suppose you've got a job offer with \$50,000 salary, healthcare, and 401(k).
- Would you take the offer?
- Before you take or turn it down, what should you do?
- What should you do
  - if you have no way to do "research"?
  - if you don't have time to wait?



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http://www.indiantelevision.com/perspectives/y2k4/rural\_itc.htm

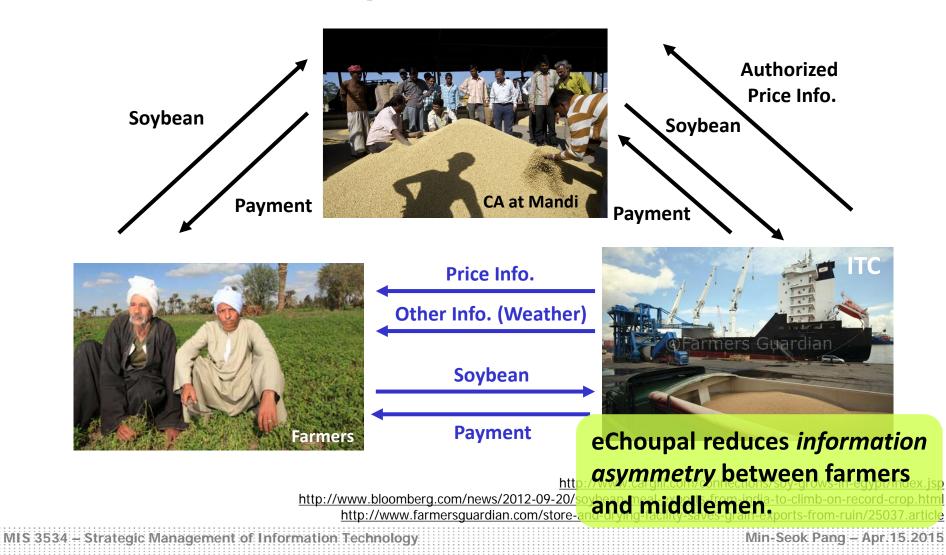


# The Old Supply Chain of Soybean (2/2)

- The losers are farmers, and the winners are CAs (middlemen)
- The old supply chain has been plagued by inefficiencies such as
  - too much mark-ups to CAs who do few value-adding activities
  - insufficient compensation to farmers, which discourages quality improvement and better planning
  - loss of soybean during transactions at Mandis due to manual processes
  - Ioss of soybean due to inadequate warehouse facilities

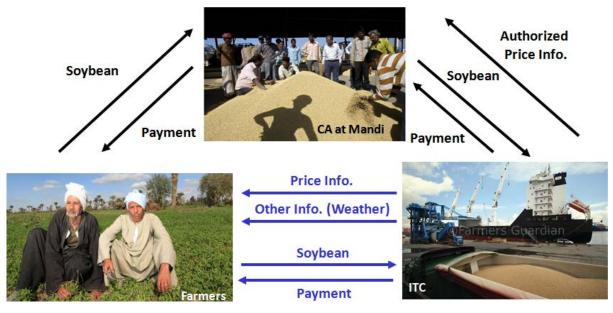


#### How does eChoupal work here?





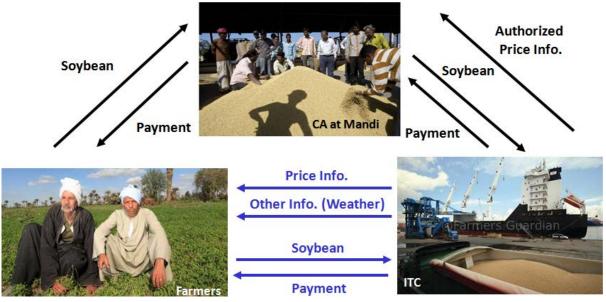
#### **Benefits of eChoupal to Farmers (1/2)**



- What are the benefits of eChoupal to farmers?
  - What are the other benefits beyond increased revenues?
- What is the other information from eChoupal to farmers?
  - Why does ITC provide such information?



### **Benefits of eChoupal to Farmers (2/2)**



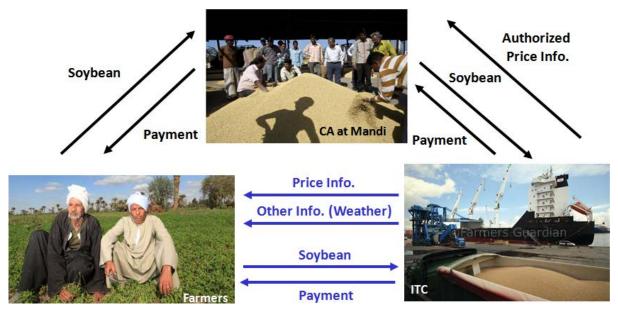
• With eChoupal, the farmers are receiving proper payments for their produces.

• With the proper payment and a variety of information and best practices, farmers are encouraged to improve the quality of their crops and do a better planning in their work.

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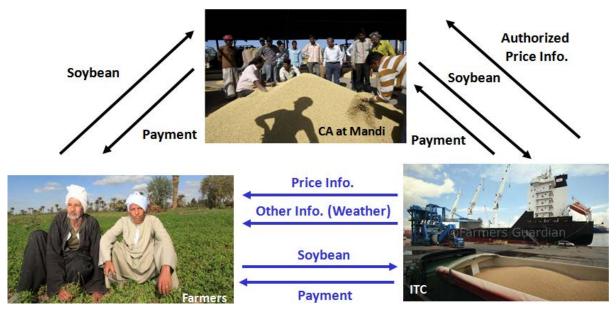
### Value of eChoupal to ITC (1/3)



- Is ITC a charity? Why is it concerned about farmers' lives and well-being?
- What is the value of ITC to eChoupal?



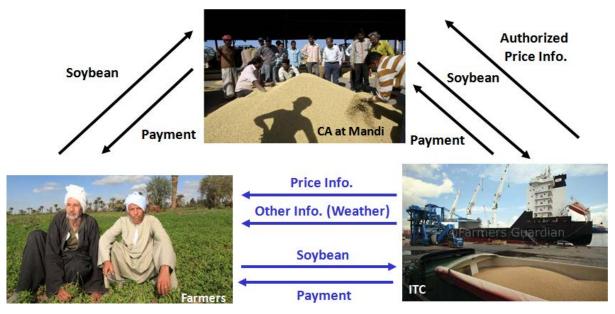
### Value of eChoupal to ITC (2/3)



- For example, before eChoupal, a CA pays farmers \$50 for a certain amount of crops and sells it to ITC for \$100.
- After eChoupal, ITC can pay the farmers \$70 for the same amount, benefiting both the farmers and ITC!



### Value of eChoupal to ITC (3/3)



- ITC allowed farmers to continue to go to Mandis. But at the same time, it guaranteed a price level to farmers.
- Farmers will choose certainty over uncertainty from auctions at a Mandi. ITC may be able to lower its price to farmers slightly.



# Value of eChoupal to ITC

- Improve efficiency in the whole supply chain
  - Reduced loss in the supply chain
- Greater profits to both farmers and ITC
- Improvement in produce quality from
  - reduced uncertainty for the farmers
  - spread of knowledge on farming techniques
- Improved social values
  - more visible market
  - fairness to farmers

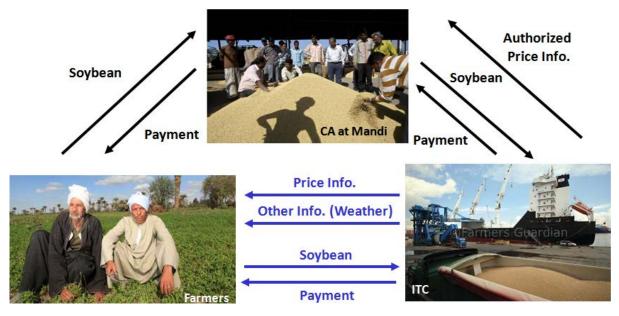


http://zorkmode.deviantart.com/art/Almost-Everybody-Happy-172649549

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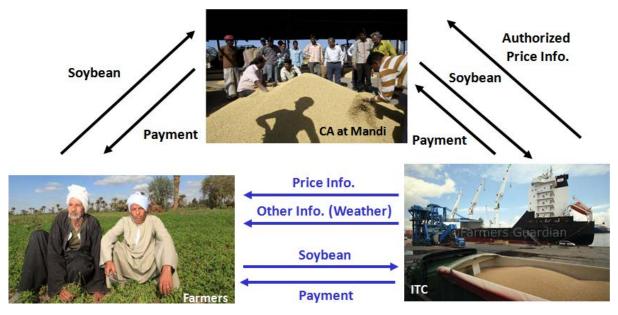
#### Who are the losers here? (1/2)



- Who would be unhappy with this change?
- How did ITC embrace them as part of the system?
- Do you think if the farmers initially liked this change?



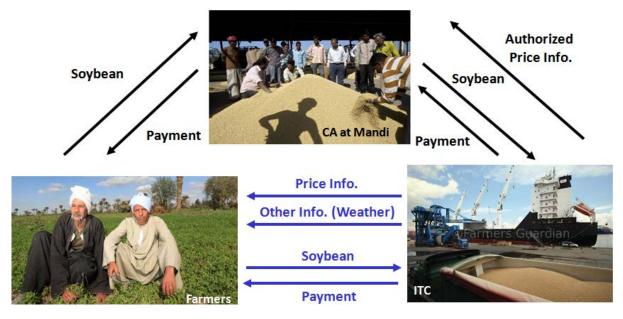
#### Who are the losers here? (2/2)



- ITC embraced the CAs with a new title and role of *Samyojak*. It provided sufficient incentive and revenue opportunities to them.
- Otherwise, CAs should have *sabotaged* the implementation of eChoupal.



#### What are the success factors?



- What have made this change successful?
  - Did ITC use state-of-the-art, sophisticated technologies?
  - It was successful because it was simple and easy-to-use.
- What kind of best practices can we drive from this case?



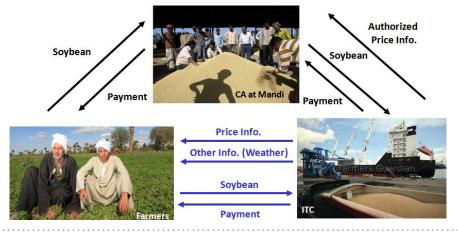
# eChoupal Success Factors (by the Authors)

- Trust between ITC, the farmers, and other participants
- Clear value to everyone in the supply chain
  - Everybody wins.
- Foundation in existing social structure (*Choupal*)
  - Use of *Sanchalak* as a *change agent*.
- Choice to farmers (who can go to either a Mandi or ITC)
- Incremental adoption
- *Simplicity (not sophistication)* of technologies
- A strong sense of nationalism ("Best for India")



# **Competitive Advantages from eChoupal (1/2)**

- How could ITC achieve competitive advantages from eChoupal?
  - Are these sustainable?
  - If ITC does not care about the farmers but instead exploits them, would its advantages be sustainable?
- Could this be possible without IT and the Internet?
- Could ITC's competitors copy this innovation quickly?





# **Competitive Advantages from eChoupal (2/2)**

 If ITC chose to exploit the farmers, it could have earned shortterm profits but could have not achieved long-term sustainable value creation.

• This innovation could not have been possible without IT.

• Competitors may be able to easily imitate the use of IT in eChoupal, but would take long time to emulate other success factors (trust, use of existing social structure, ability to manage changes).



# Any Other Example? (1/3)

• Can you think of any other examples, in which a new entrant with IT disrupts the existing industry by eliminating "*choke points*" or market inefficiency?

- How about Amazon.com and Netflix?
  - What choke points have they eliminated?
  - How disruptive are they? Which industries were disrupted?





http://phx.corporate-ir.net/phoenix.zhtml?c=97664&p=irol-irhome http://mashable.com/2014/07/14/netflix-verizon-still-slow/



#### BestBuy, a.k.a Amazon Showroom



http://blog.mainstreethost.com/tis-the-season-businesses-seek-different-avenues-for-holidays/best-buy-showrooming#.UYwA17VWySo

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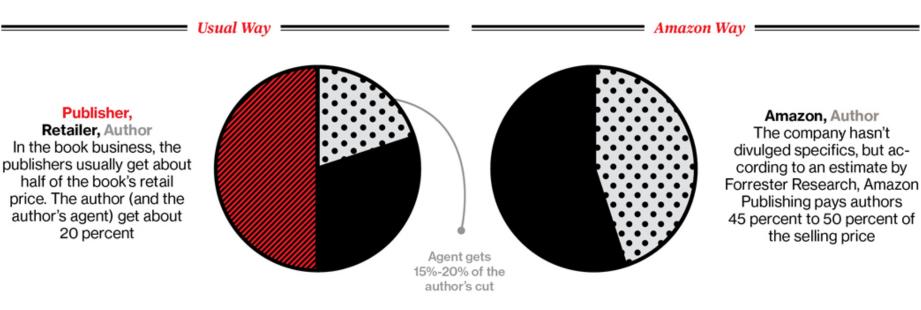
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#### Bloomberg Businessweek<sup>®</sup>

# AMAZON CHANGES BOOKONOMICS

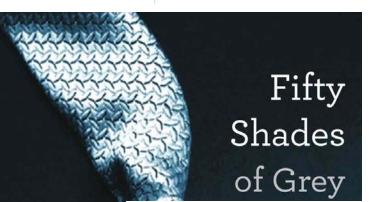
Traditional publishers' pitch: As guardians of the culture, our editors will tease beauty out of the most troubled manuscripts and build vast audiences. Amazon Publishing's pitch: That, plus way more money. — Danielle Kucera



http://images.businessweek.com/cms/2012-01-25/feature\_amazon05\_\_02\_popup.jpg



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#### Background

The *Fifty Shades* trilogy was developed from a *Twilight* fan fiction originally titled *Master of the Universe* and published episodically on fan-fiction websites under the pen name "Snowqueen's Icedragon". The piece featured characters named after Stephenie Meyer's characters in *Twilight*, Edward Cullen and Bella Swan. After comments concerning the sexual nature of the material, James removed the story from the fan-fiction websites and <u>published it on her own website</u>, FiftyShades.com. Later she rewrote *Master of the* 

#### FIFTY SHADES OF GREY BECOMES THE BESTSELLING BOOK OF ALL TIME

Wednesday August 1,2012

Charlotte Meredith for express.co.uk

FIFTY Shades of Grey has knocked Harry Potter and the Deathly Hallows off the top spot, outselling it by more than two to one, to become the bestselling book of all time.

#### E L James

#1 New York Times Bestseller



http://www.npr.org/books/titles/148607252/fifty-shades-of-grey http://en.wikipedia.org/wiki/Fifty\_Shades\_of\_Grey http://www.express.co.uk/printer/view/336759/

Article Talk

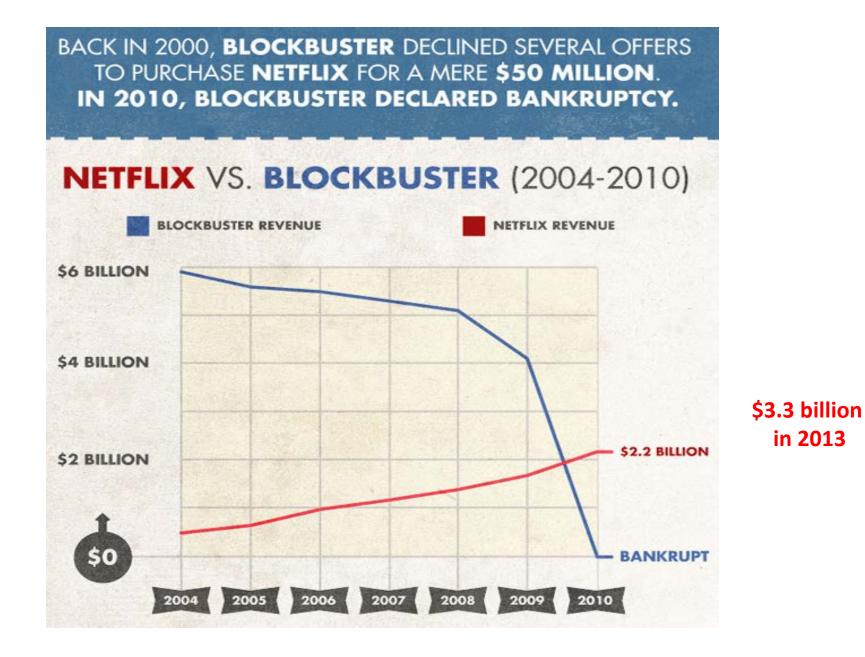
The Free Encyclopedia

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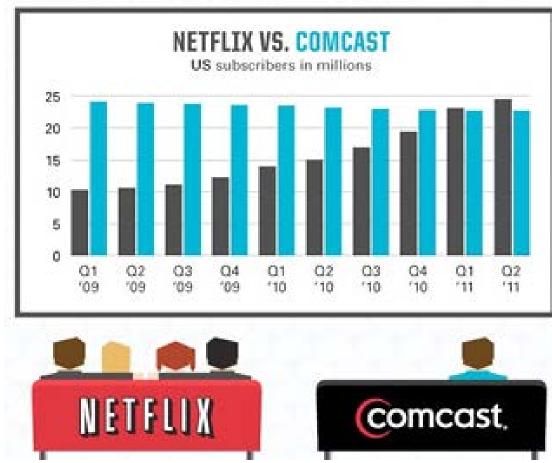
Fifty Shades of Grey

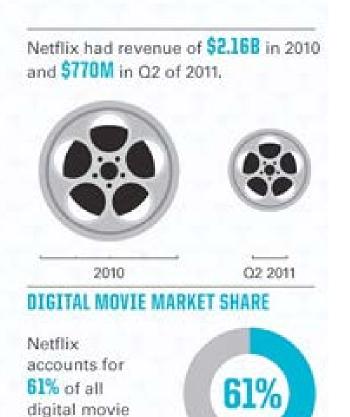


http://www.businessinsider.com/how-netflix-bankrupted-and-destroyed-blockbuster-infographic-2011-3



#### NETFLIX HAS MORE SUBSCRIBERS THAN COMCAST





http://www.firstshowing.net/2011/check-this-out-impressive-new-netflix-by-the-numbers-infographic/

watching in the US.

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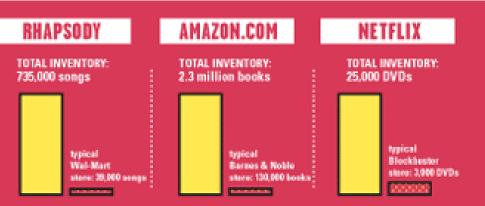


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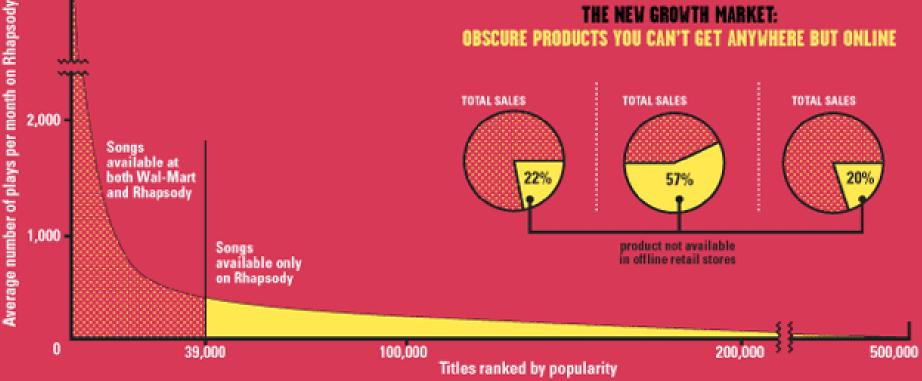
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## ANATOMY OF THE LONG TAIL

Online services carry far more inventory than traditional retailers. Rhapsody, for example, offers 19 times as many songs as Wal-Mart's stock of 39,000 tunes. The appetite for Rhapsody's more obscure tunes (charted below in yellow) makes up the so-called Long Tail. Meanwhile, even as consumers flock to mainstream books, music, and films (right), there is real demand for niche fare found only online.

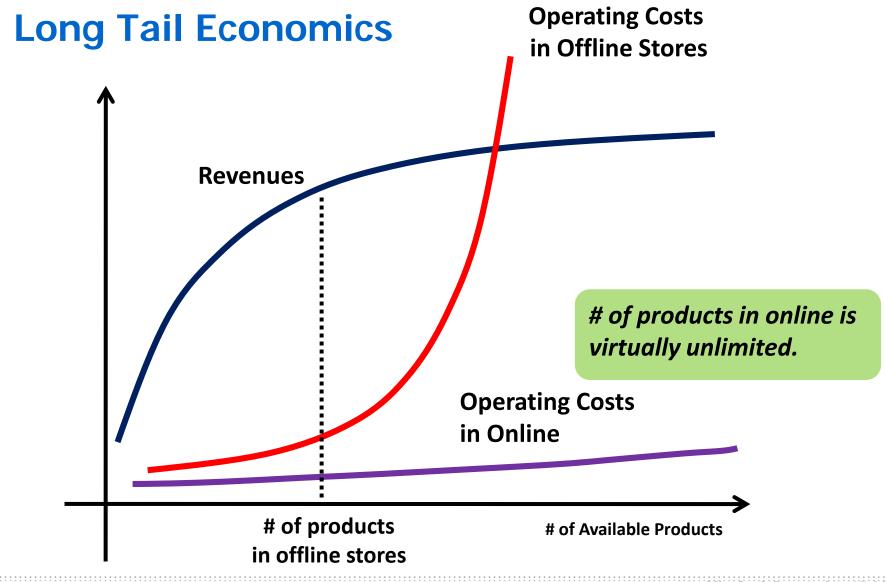


#### THE NEW GROWTH MARKET: **OBSCURE PRODUCTS YOU CAN'T GET ANYWHERE BUT ONLINE**



Sources: Erik Brynjolfason and Jeffrey Hu, MIT, and Michael Smith, Cemegie Mellon; Barnes & Noble; Netflix; RealNetworks





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### Amazon.com and Netflix

- Both companies addressed choke points in the traditional retail industries created by limitation in physical spaces.
- disrupted the industries by making "long tails" possible.
- eliminating choke points created by middlemen
  - publishers (between authors and readers)
  - cable operators (between content providers and viewers)



# Any Other Example? (2/3)

- Can you think of any other examples, in which a new entrant with IT disrupts the existing industry by eliminating "*choke points*"?
- How do FreshDirect, Uber, Airbnb, and Khan Academy disrupt the existing industries by address which *choke points*?



http://www.prlog.org/10663226-freshdirect-celebrates-nurse-appreciation-week-with-delivery-of-complimentary-meals-for-nurses.html http://abovethecrowd.com/2014/03/11/a-deeper-look-at-ubers-dynamic-pricing-model/ http://www.wehoville.com/2014/02/18/airbnb-peer-to-peer-businesses-weho/

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# Any Other Example? (3/3)

- FreshDirect, Uber, Airbnb, and Khan Academy address the following choke points or inefficiencies in the existing industries.
  - limited space at grocery stores and limited selection for customers
  - heavily regulated amount of taxicab fleets and pricing
  - untapped lodging spaces in urban downtowns
  - Iimited classroom space and one-size-fits-all education
- (Except FreshDirect) these companies are not using the most sophisticated technologies.



## IT is a catalyst to new competitive strategies.

- IT is an enabler, a facilitator, and a catalyst in developing new competitive strategies.
- Smart use of technologies (not necessarily state-of-the-art ones) can produce a competitive strategy that shakes up the existing industries.
- That's why CIO can stand for a chief *innovation* officer.

