



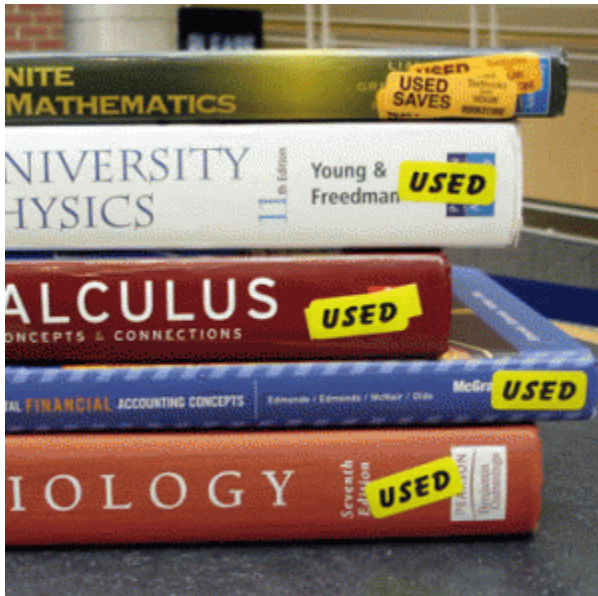
Building a Connected Strategy

Nicolaj Siggelkow and Christian Terwiesch

PVMI Conference, Philadelphia, June 2017



amazon



Operations Management

Cachon • Terwiesch



Combination of

- Reading
- Videos
- Problem sets

Helps professor by:

- Providing feed-back where students struggle
- No more grading



Economics 101



PERFORMANCE

86%

YOUR AVERAGE CONNECT ASSIGNMENT SCORE

513/600 POINTS

NOTIFICATIONS (1)

Welcome to Economics 101. We're going to learn a lot this fall, so here's what you need to get started ...

BOOK



ECONOMICS

Campbell McConnell, 17th edition

SECTION INFO



Jill Whitey
professor@maha.com
Office Hours : MWF 10-11am



TRENDS

See submission stats and compare scores with the class.



STUDENT RESOURCES



LEARNSMART

Identify your study needs and practice to improve



NEXT UPI

- SEP 26 Presentation 1
- SEP 30 Group assignment: Group Project
- SEP 30 Writing assignment: Writing Assignment

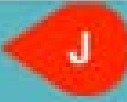
TEGRITY

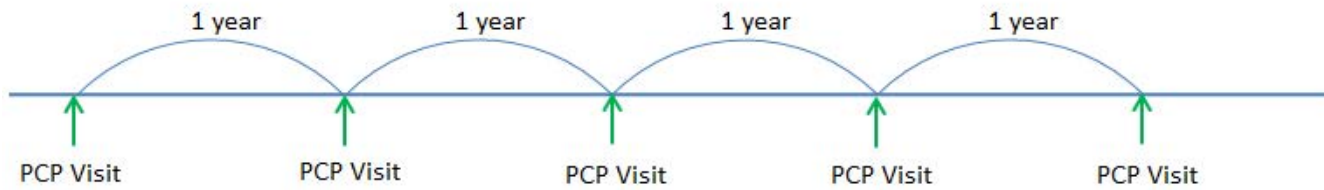
Your instructor is currently not recording lectures.



COURSE FILES

welcome.mnt



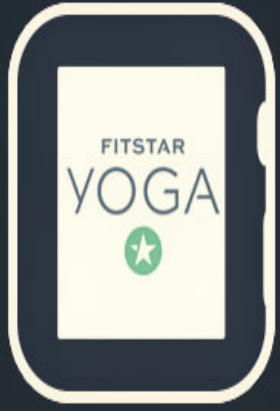
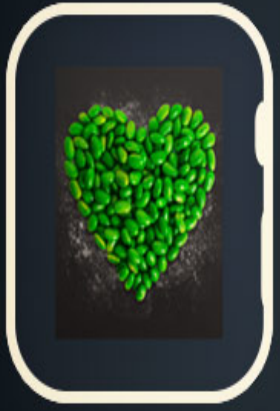
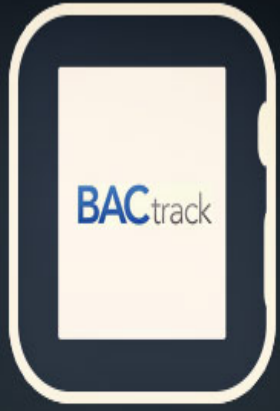




JeffConnect™



Best Health And Fitness Apps



What is the Pattern Here?

The old way



Student reading

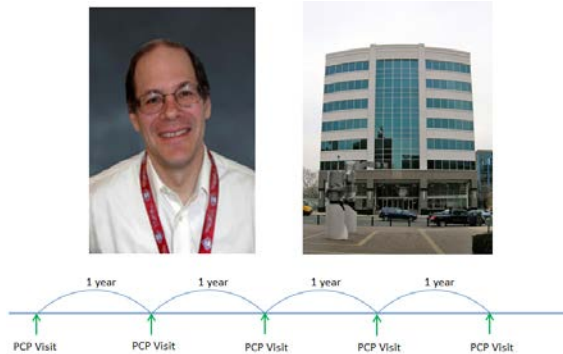
The Internet Way



The New Way



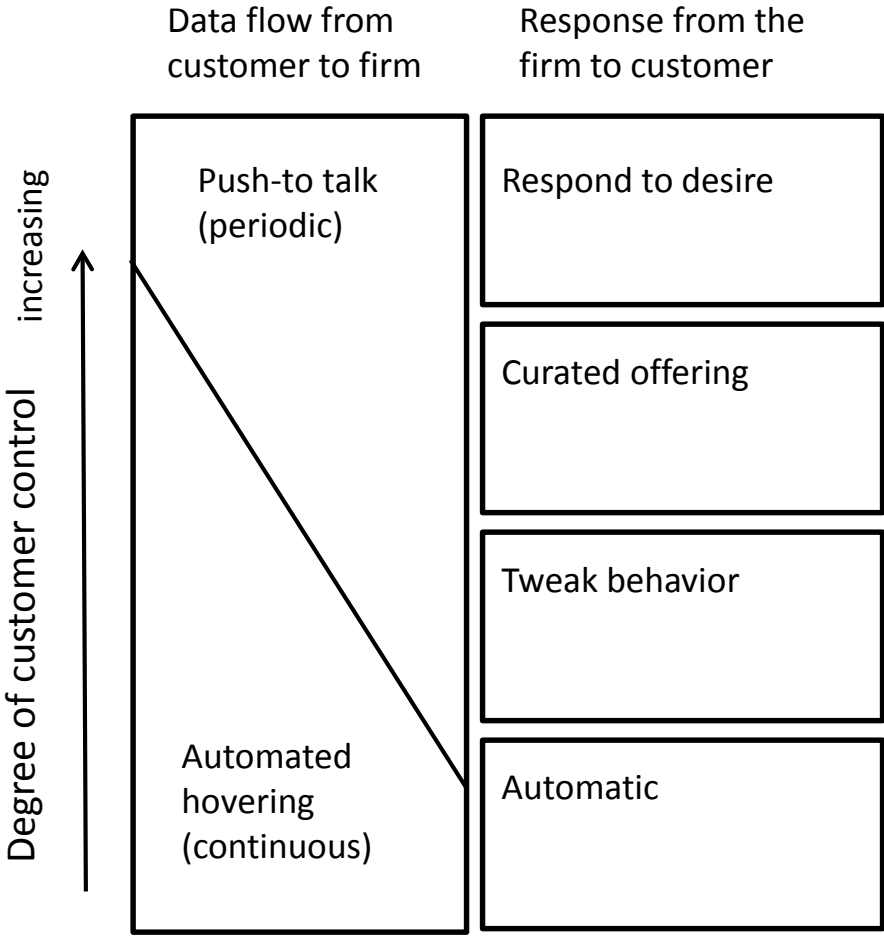
Personal health



⇒ Increase in “smart devices” and “connectivity”

What is the Pattern Here?

Connectivity Enables New User Experiences



“Reread page 234”

“Nicolaj got a 97% on Chapter 5”

?

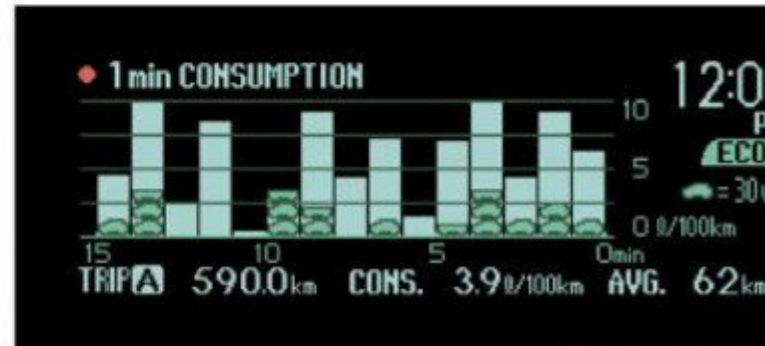
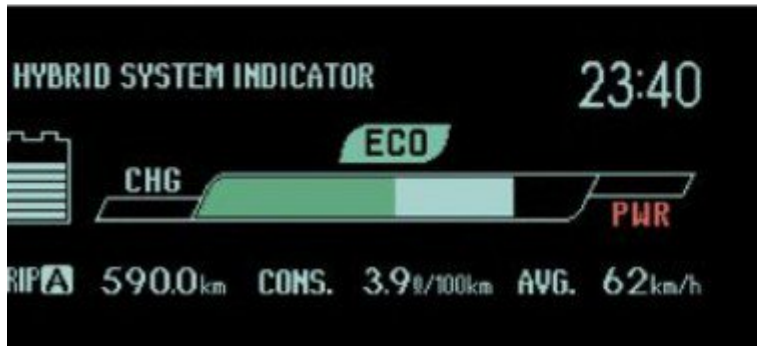
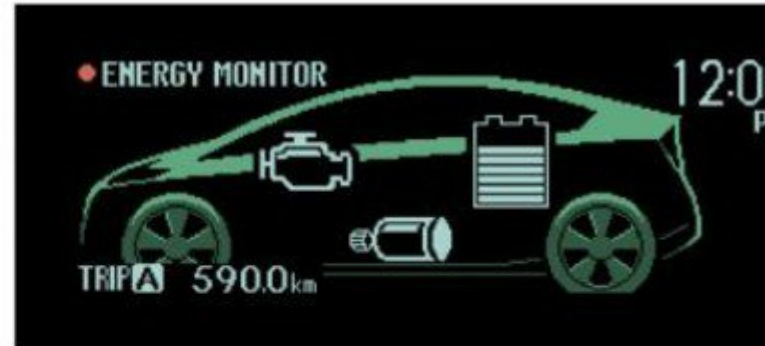
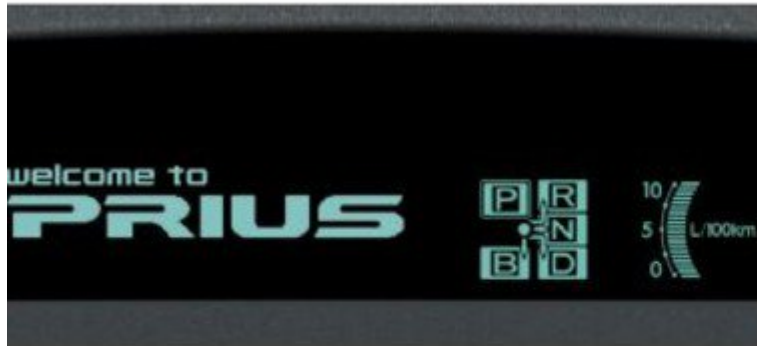


“Given your DNA, you might want to test for x”

“If you take all your meds this week...”



What Does this have to Do with Mobility?



Respond to desire: pretty obvious

Nudging behavior:

- Eco Mode
- Permanent feed-back on fuel efficiency

What Does this have to Do with Mobility?



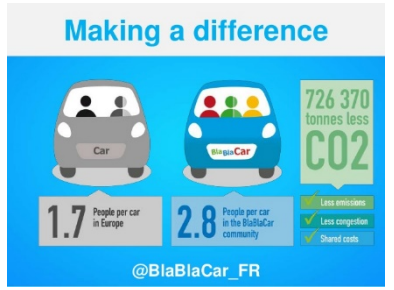
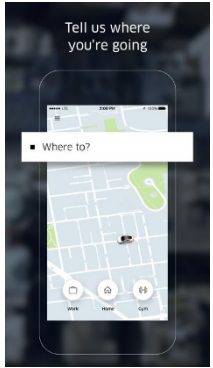
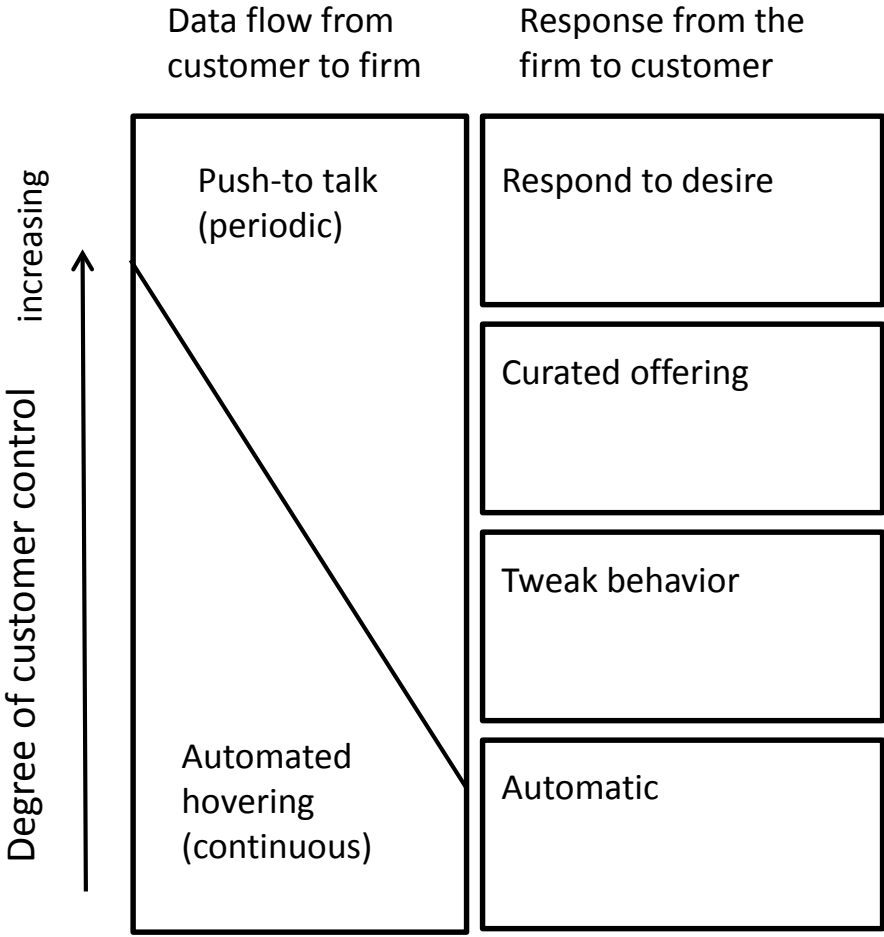
Nudging behavior:

- Distance alerts in parking mode
- Alerts for

Automated

- "Bremseneingriff"

What is Missing? Example of Ride Hailing

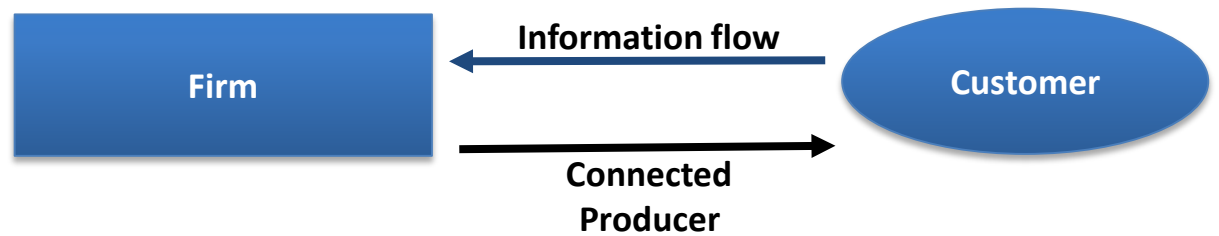


?

Connected Strategy

- A connected strategy is the restructuring of the network of connections between you, customers, and suppliers in order to efficiently provide customized micro-interactions with customers.

Connection Architectures



Examples: Connected Producers

Push up WTP:

- Penn Health System
- UnderArmour (MyFitness Pal; MapMyFitness), Nike (Nike+ Training Club)
- EA, Valve (Video games; freemium)
- Disney Park (Magic Band: RFID + radio)
- Carnival (smart medallion)
- VRI (remote-patient monitoring platform)

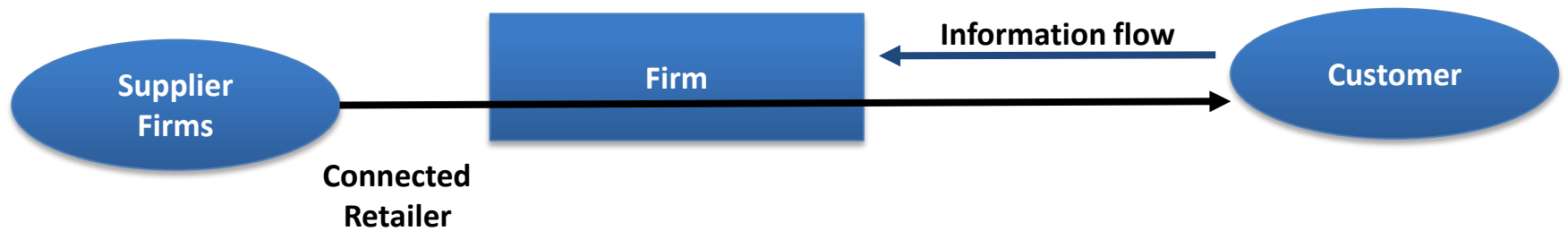
Lower cost:

- Progressive (snapshot device)

Lower Cost through sharing of a common resource:

- Amazon Webservices, Microsoft Azure (rent the cloud)
- Car2go (Daimler: 14,000 vehicles in 30 cities in eight countries)

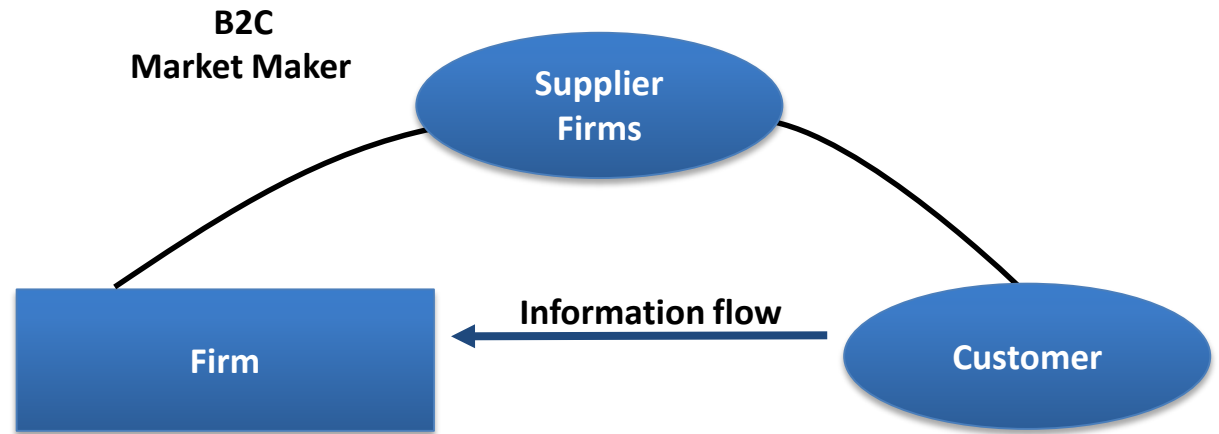
Connection Architectures



Examples: Connected Retailers

- Amazon (with own warehouse)
- zipCar
- Overstock.com
- Plated, Blue Apron (meal kit delivery business)
- Netflix, Hulu, Amazon Video (movies, TV shows)
- Spotify, Pandora, iTunes (music)
- Birchbox (beauty related items each month)
- Trunk Club, StitchFix (monthly curated boxes of apparel)
- Coursera, EdX (on-line learning, content produced by universities)
- Ideel (flash-sales of designer apparel)
- Rent the Runway (rent designer dresses)

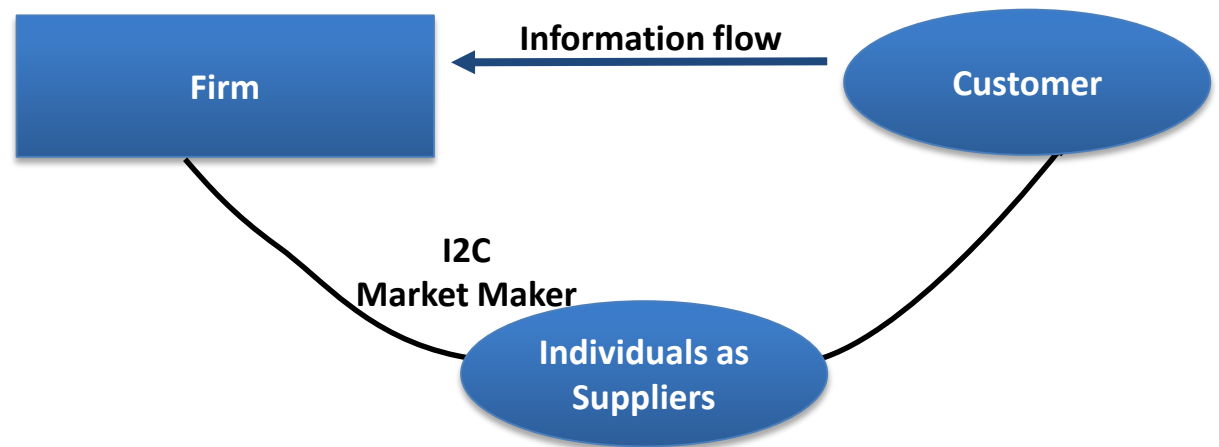
Connection Architectures



Examples: B2C Market Makers

- Expedia, Orbitz
- Cars.com, Autotrader.com (link to car dealers and individuals)
- Amazon Marketplace (access to many retailers)
- Wayfair (connect to 7000 home furnishing suppliers who ship directly)
- Open Table (restaurant reservations)
- GrubHub (on-line ordering of restaurant food)
- Class Pass (link to boutique fitness studios)
- Spot Hero (find open spots in car garages)
- Angie's List (user reviews and allows members to connect to local businesses)
- Teladoc (telehealth provider)
- Innocentive (link innovation problems to inventors)

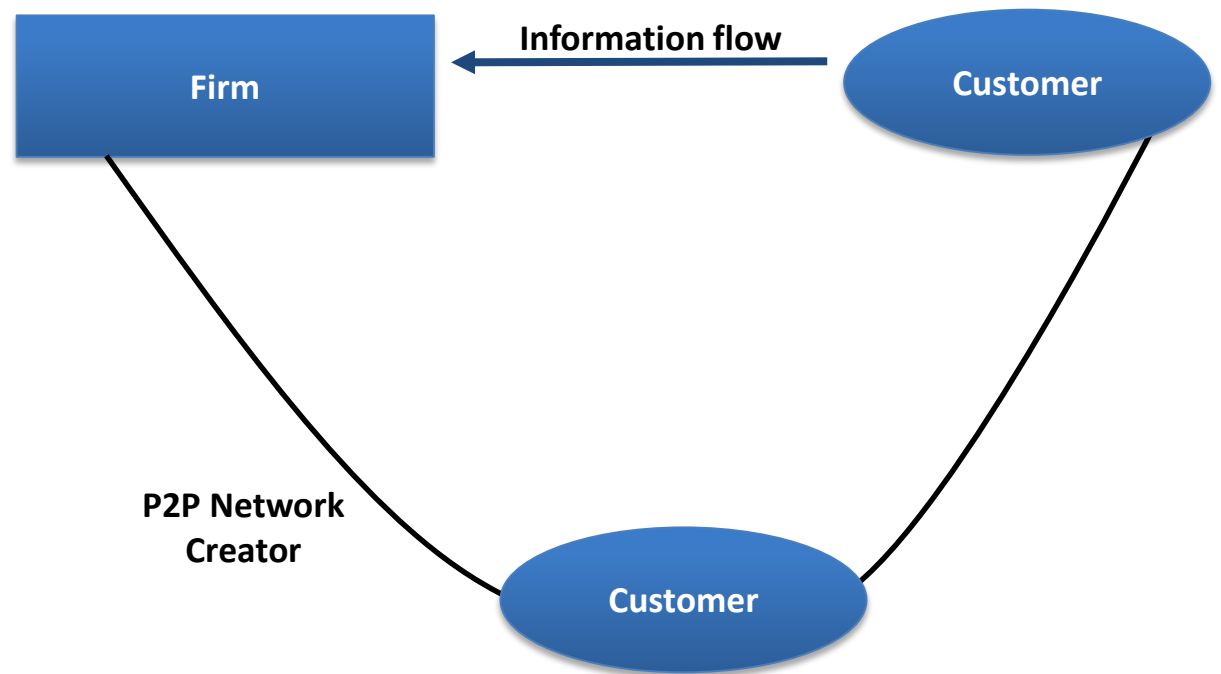
Connection Architectures



Examples: I2C Market Makers

- UberX, Lyft, BlaBla Car, Relayrides (longer term car rental)
- Airbnb (room rental)
- Ebay, Etsy (with some B2C)
- Instacart (grocery shopping service)
- ProsperFunding (match borrowers with lenders)
- Kickstarter (match investors with creators)
- StubHub (organize resale of tickets; owned by eBay)
- Amazon Mechanical Turk (on-line tasks)
- TaskRabbit (find a nanny, gardener, furniture assembly, etc.)
- Donorschoose (link donors with causes)

Connection Architectures



Transaction P2P Network Creators

- We can distinguish between three types of P2P Network Creators, depending on how they monetize the network
- Transaction P2P Network Creators charge for using the network, either as a transaction fee or as a membership fee.
- Examples:
 - Betfair (allow people to bid on sporting events against each other, not against a bookmaker)
 - Transferwise (P2P currency exchange)
 - Match.com, eHarmony.com

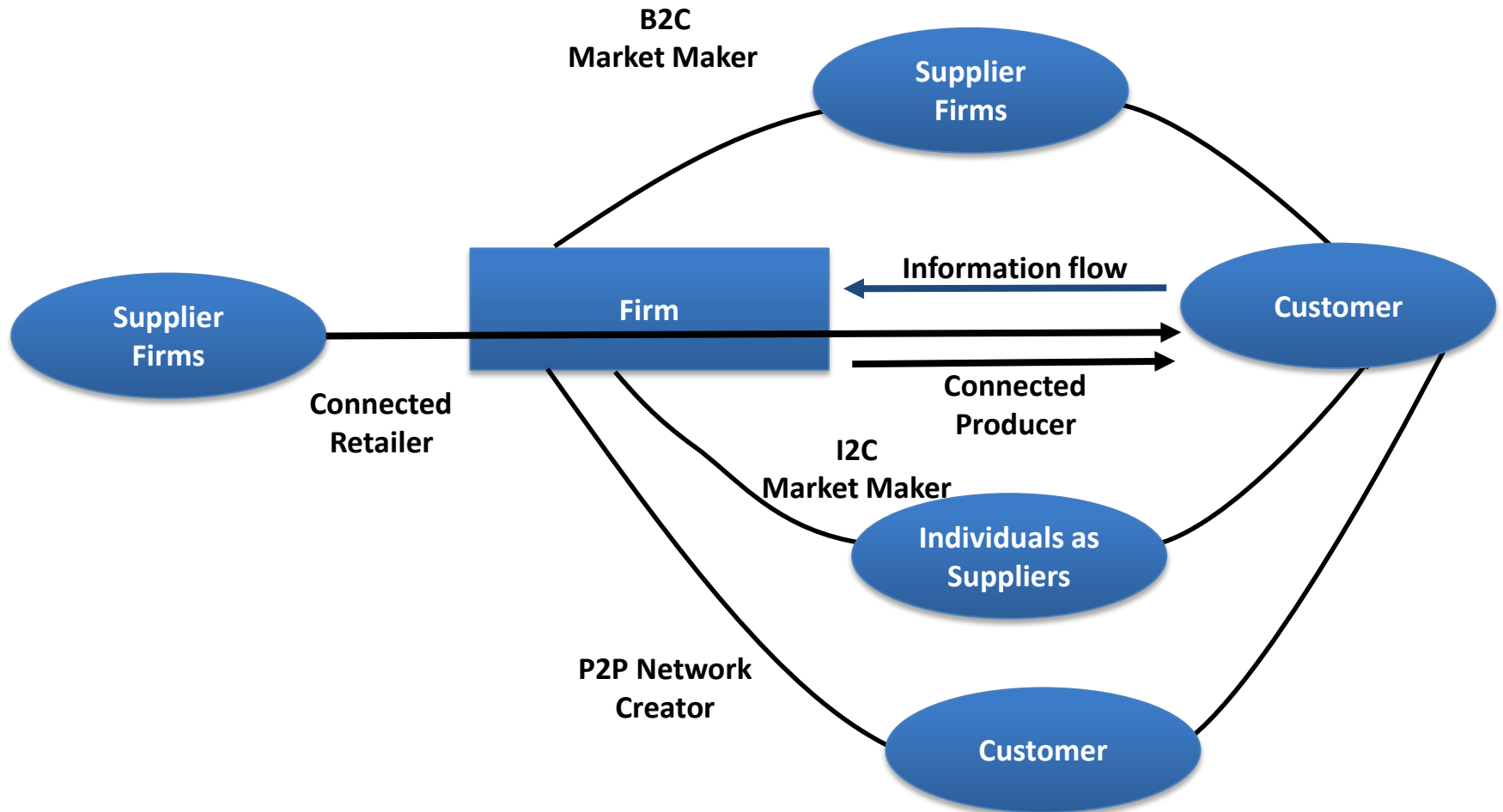
Access P2P Network Creators

- Access P2P Network Creators do not charge to join the network, but they sell access to the network participants and to the data that these participants create. Most frequent buyer are advertisers.
- Examples:
 - LinkedIn
 - Facebook
 - YouTube
 - Pinterest
 - Tripadvisor
 - Yelp

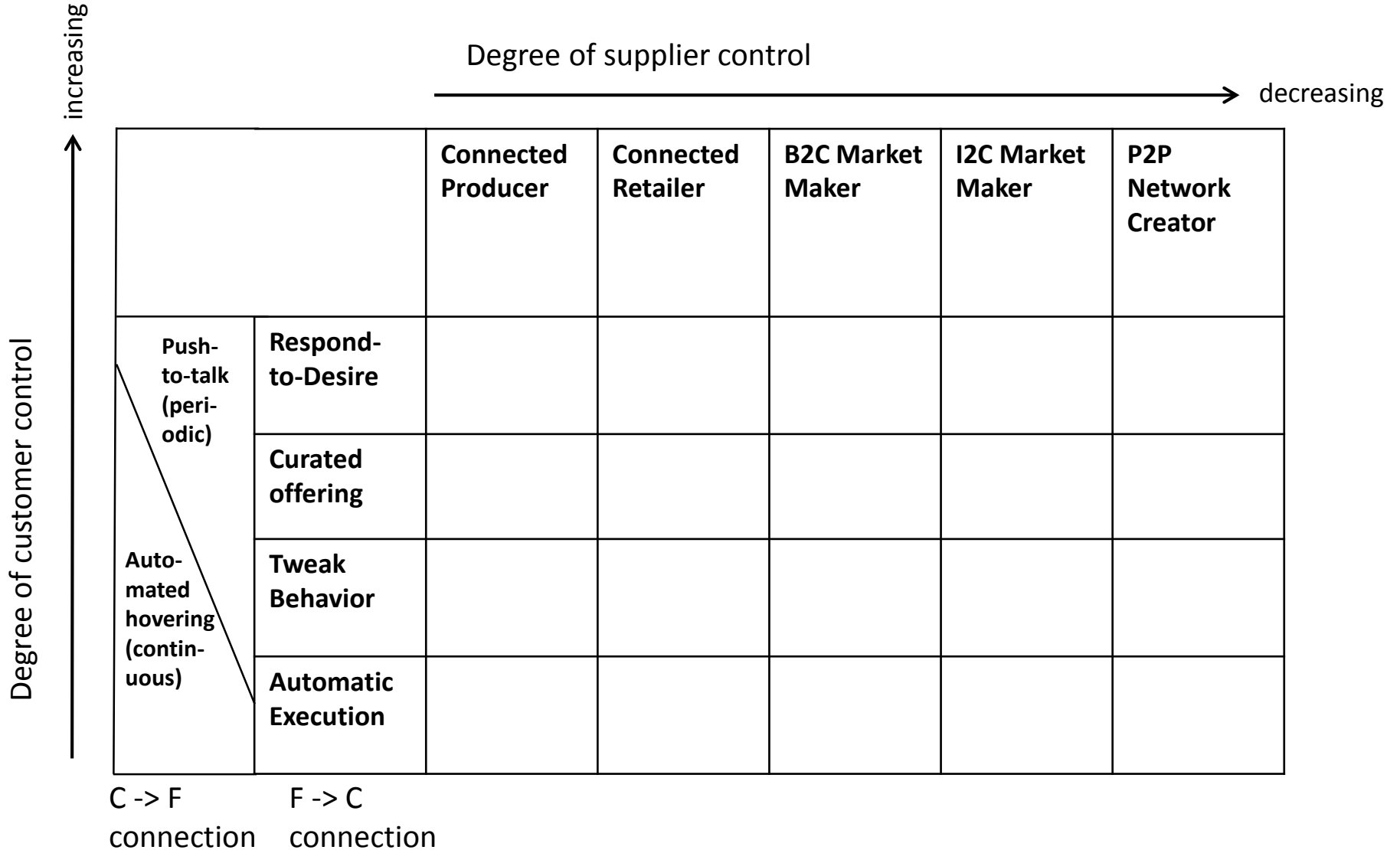
Complementor P2P Network Creators

- Complementor P2P Network Creators establish networks, usually with free membership, as a complementor to other products or services they sell.
- Examples:
 - Nike sponsored on-line running “clubs”
 - Patient portals created by health care providers or pharmaceutical companies
- As before, firms may engage more than one operating model:
 - Venmo: Charge for transactions using credit cards; free transactions for internal transfers.

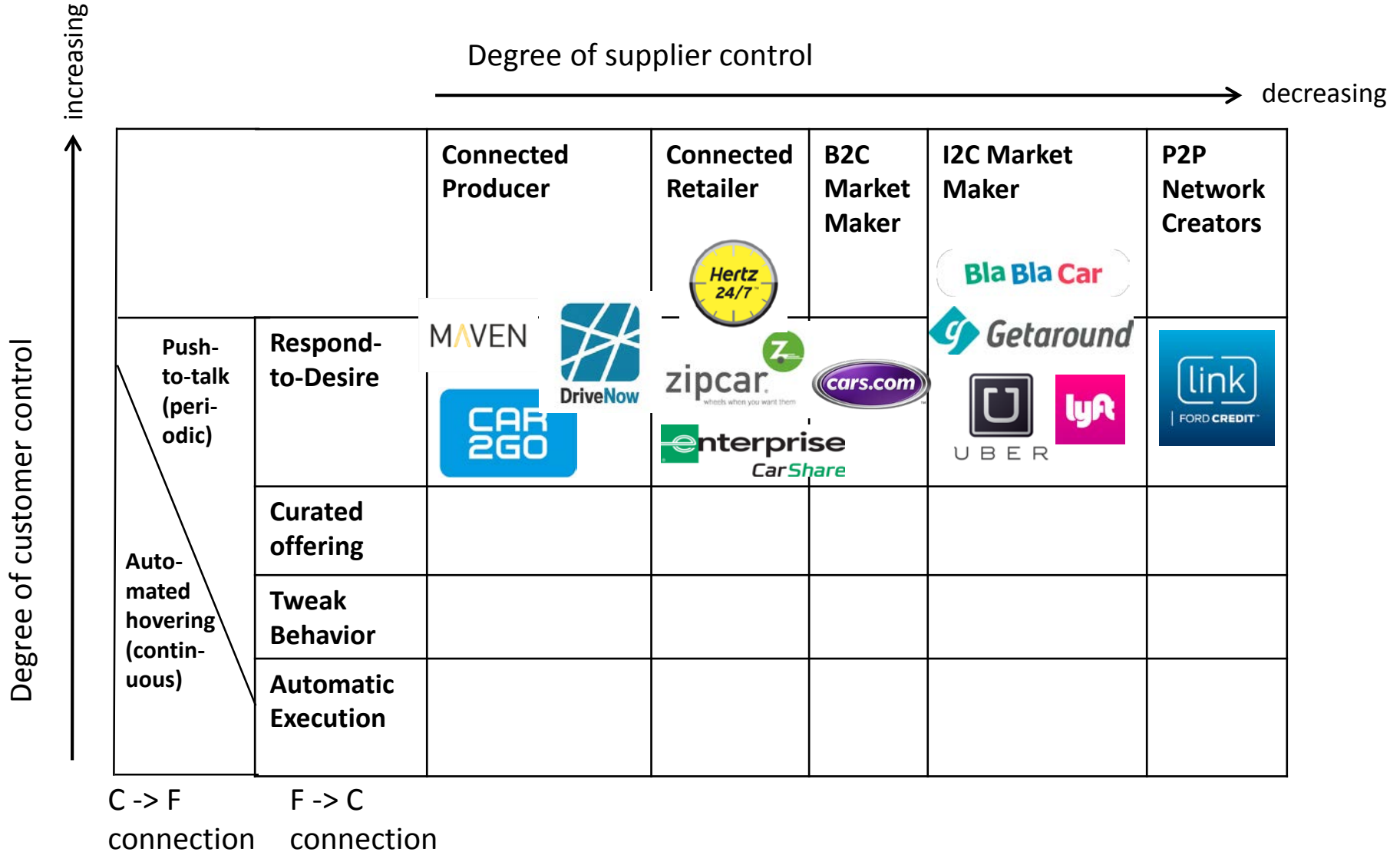
Connection Architectures



Connected Strategy Matrix




























Connected Strategy Matrix



Connected Strategy Matrix

Degree of supplier control → decreasing

Degree of customer control ↑ increasing

		Connected Producer	Connected Retailer	B2C Market Maker	I2C Market Maker	P2P Network Creators
Degree of customer control	Push-to-talk (periodic)	Everyone (except Spotify)		CLASSPASS	 7 CUPS	 7 CUPS
	Curated offering	  SWÖRKIT 			<i>Rise</i> SWÖRKIT	
	Tweak Behavior	    RALPH LAUREN  SWÖRKIT     94FIFTY 			<i>Rise</i> SWÖRKIT 	    
	Automatic Execution					

C -> F

F -> C

connection

connection