Al, Amazon Business & the Future of Distribution



People Process Technology



Conclusions

- Artificial intelligence is driving a revolution in distribution
- Assortment, availability and delivery are being commoditized
- The rise of B2B marketplaces is inevitable

Substitute Technology

Emissions and noise regulations: Driving adoption of electric products.

New competitors: Makita, Milwaukee, DeWalt, etc.

Generational Change

Raising customer expectations & requirements

Lawn and garden shops: Kids don't want to take over the business.

Young people don't want to be small engine technicians.

10% of customers do business by fax and don't have email addresses.

"The OPEESA group is pretty seasoned but the millennials are moving in."

Channel Evolution

Financial Trends

Manufacturers want to go direct

Tariffs were huge in the past year.

Dealers want to go direct.

Dealers won't hold inventory.

Parts for sale at mass retail and Amazon, Walmart.com, Google, eBay

Dealers used to make 30% and distributors made 15% and we're all doing about half of that now.

Stihl recently franchised Northern Tool

Dealers are going to consolidate.

"Once I start talking to you – shrinking margins, shrinking customer base, hard to find mechanics – it seems pretty discouraging."

What's going on?

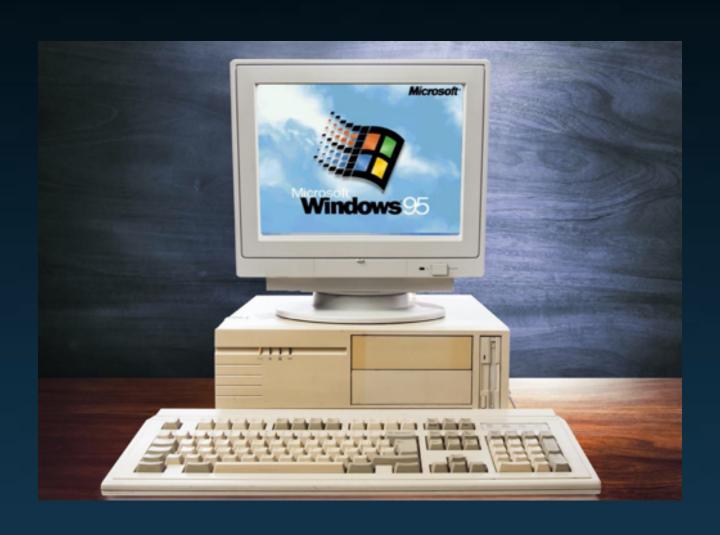
What's should I do about it?

New technology revolution

Artificial Intelligence



Current State of Al



1995

Ethernet Clicks >Industrial ighway 1dows 95 Inform Revolution \mathbf{m} Network Effect TCP/IP

Surfing the Internet

Web Browser

8

2020 Robotics

Autonomous Vehicles Virtual Reality

Data Science

Turing Test

Re

>Internet Revolution Natural Language
Processing

Chatbots

N

Machine Learning

Deep Learning Augmented Reality

Big Data

Smart Speakers 2020: Strategy without Al

1995: Strategy without Internet

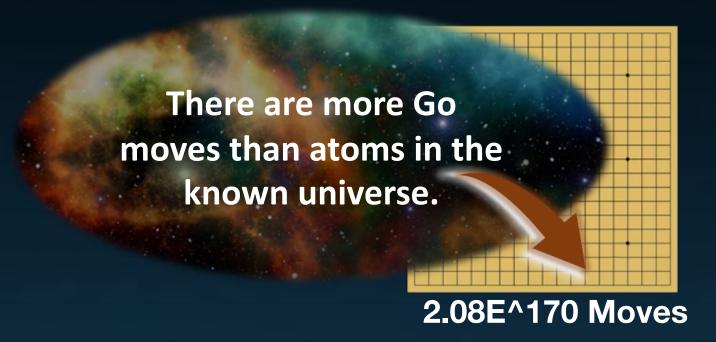
1997



"It is not an artificial intelligence project in any way." -Joe Hoane **IBM Deep Blue Programmer**

2016: Al Leaps Forward Go





1,040,840,996,909,890x





"Dazzled

its opponent with

creative moves

one of which overturned

hundreds of years of Go wisdom."

AlphaGo taught itself.

AlphaZero

- Current champion at Go
- Best Chess player in the world
 - ✓ Four hours / rules only
 - √ 20 million games
 - ✓ Both sides of the board



Survival Reflexes



Al Drives Better Than You Do

You

- Can't see in the dark
- Data = Eyes & Ears
- Slow to decide
- Slow to act

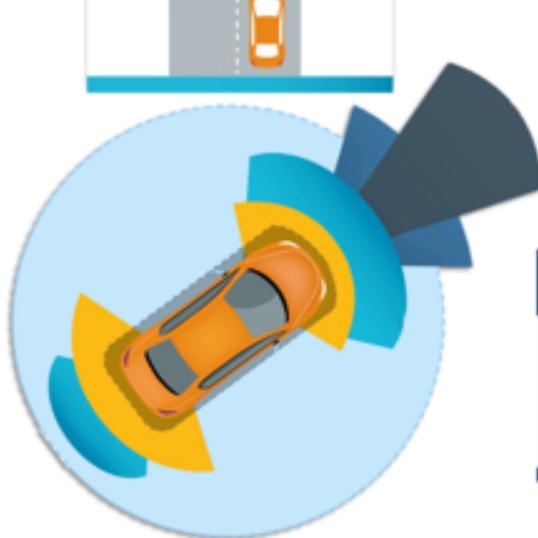
Autonomous Al

- Saw the deer coming
- Knows: Everything
- Decides and acts instantly

Mitigating Factor: Venison for dinner!





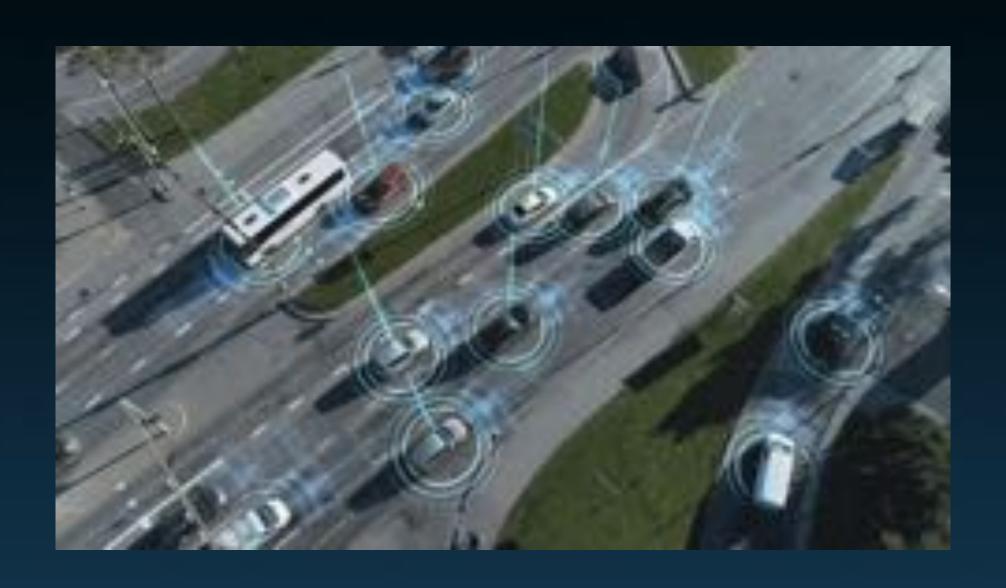


Cameras

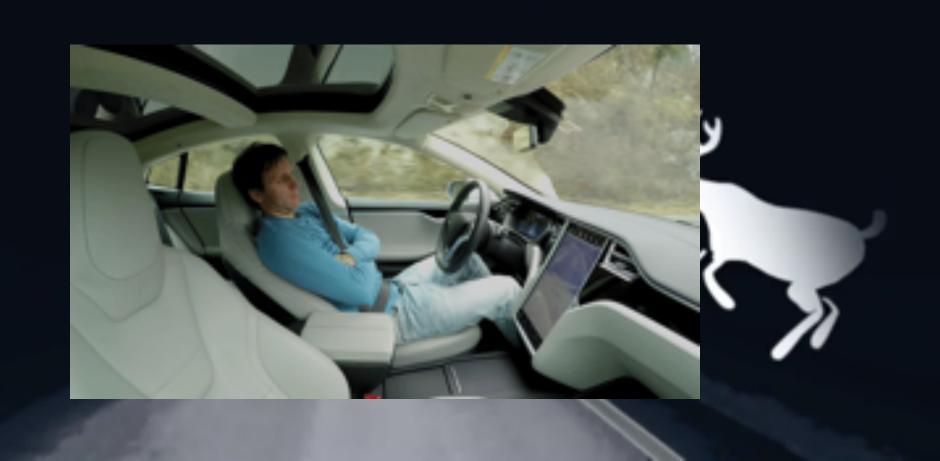




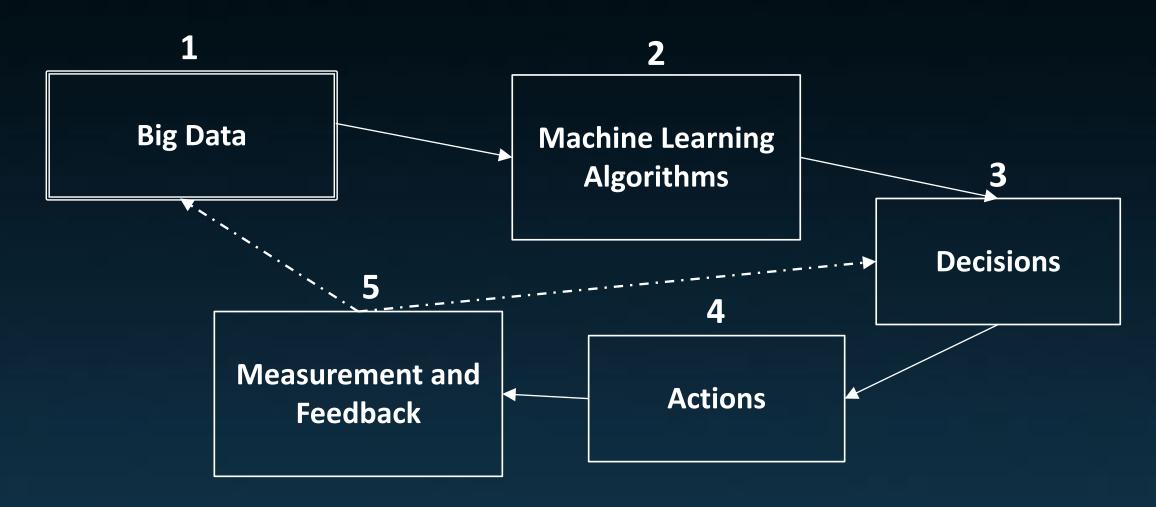




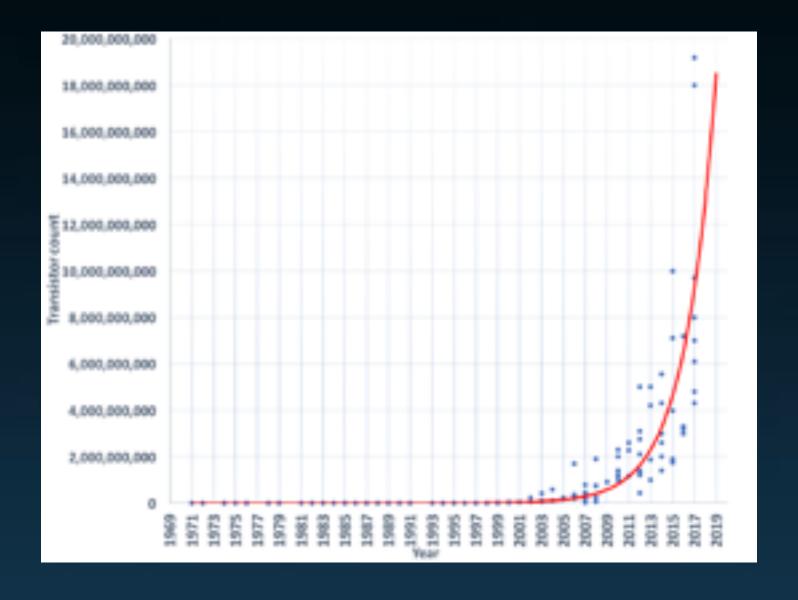
Al Will Make it Safer to Sleep Behind the Wheel than Steer It



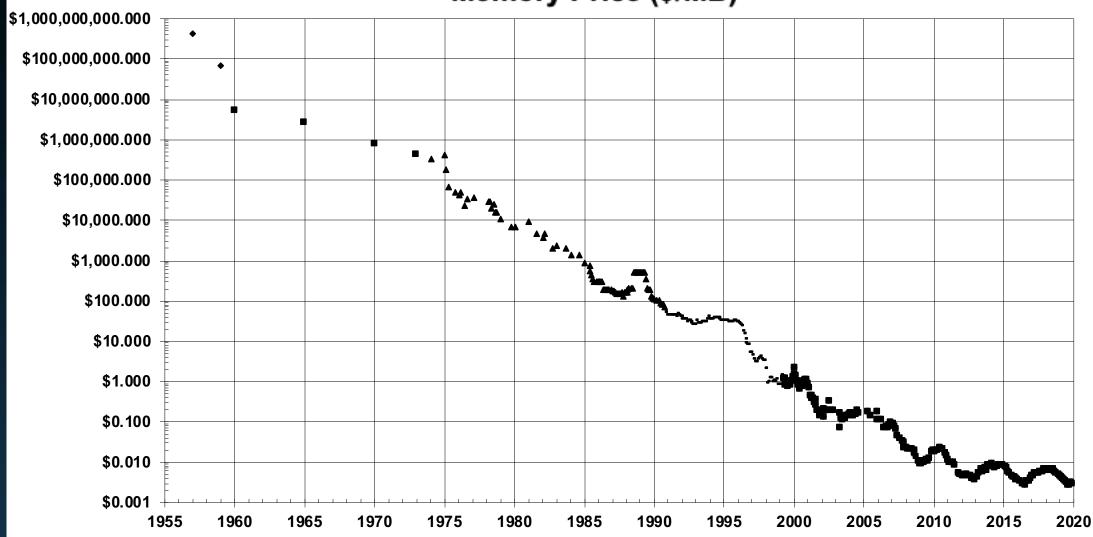
A Simplified AI System



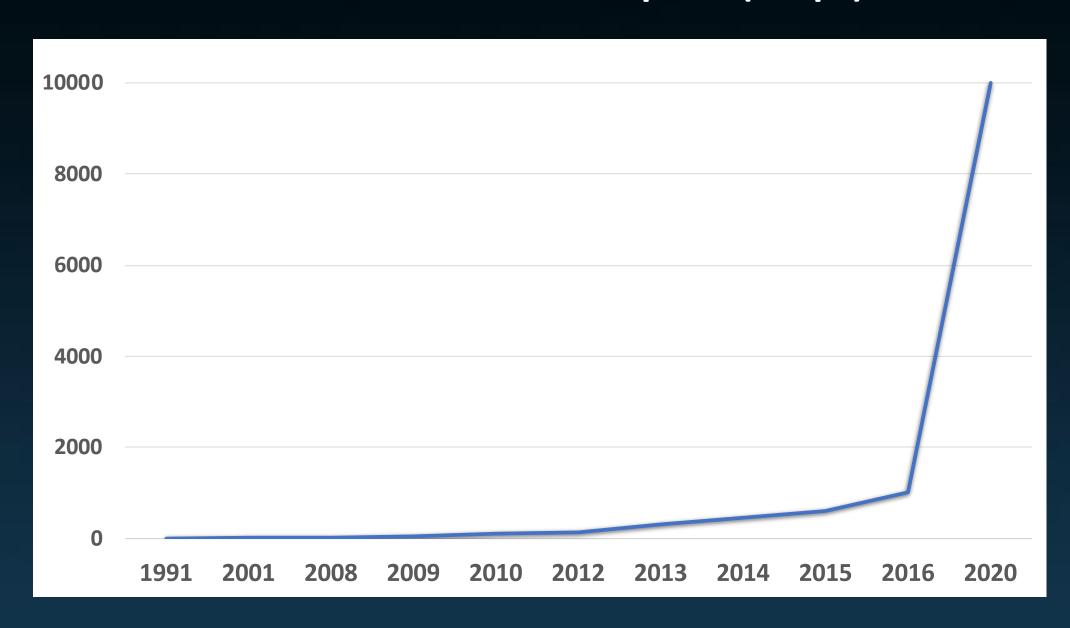
Model Developed by Dr. Michael Wu, Chief Al Strategist at PROS



Memory Price (\$/MB)



Mobile Data Downlink Speed (Mbps)





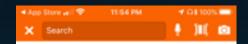




UPS Gets FAA Nod for Widespread Drone Deliveries

Federal approval marks another important gain for champions of commercial unmanned aircraft





Voice Search

You Can Say Things Like

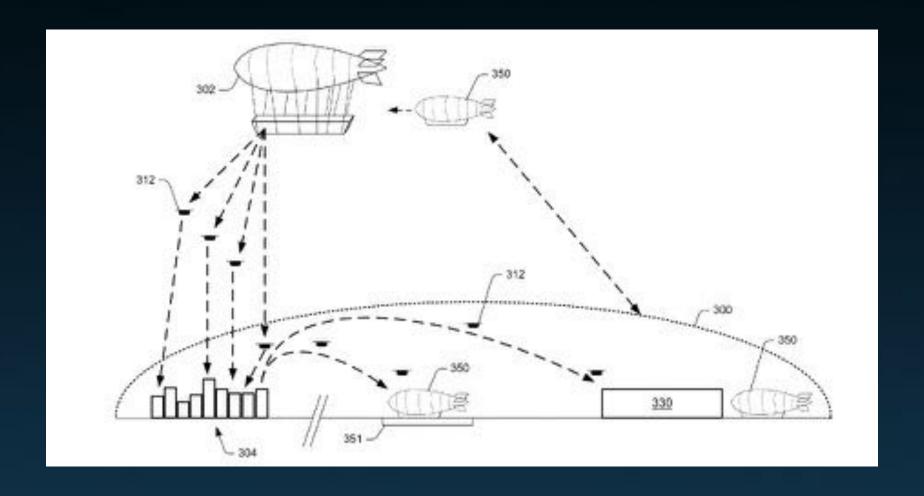
"I'm looking for LED light bulbs." "I need a hammer." "What's the status of my latest order?"





Tap to Speak

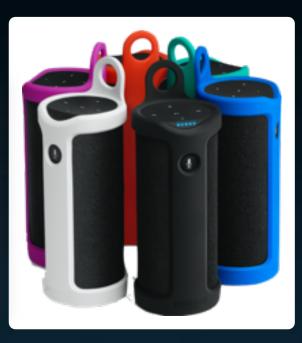


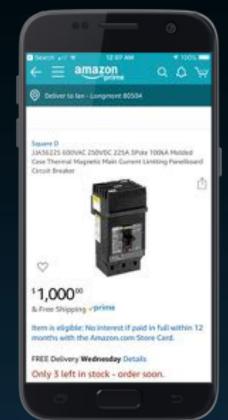






















Our vision is that Alexa will be:

- The world's most knowledgeable product expert
- Who knows **you.**
- Super-human knowledge of every product ever made
- Always available
- In a store that sells everything.

Amazon wants to remove the keyboard from the buying process





Alexa – figure out what these cutting blades are and send a dozen, pronto.



Worldwide smart speaker shipments and annual growth Canalys smart speaker market pulse: Q3 2019

Vendor	Q3 2019 shipments (million)	Q3 2019 market share	Q3 2018 shipments (million)	Q3 2018 market share	Annual growth
Amazon	10.4	36.6%	6.3	31.9%	65.9%
Alibaba	3.9	13.6%	2.2	11.1%	77.6%
Baidu	3.7	13.1%	1.0	4.9%	290.1%
Google	3.5	12.3%	5.9	29.8%	-40.1%
Xiaomi	3.4	12.0%	1.9	9.7%	77.7%
Others	3.6	12.5%	2.5	12.5%	44.0%
Total	28.6	100.0%	19.7	100.0%	44.9%





Note: percentages may not add up to 100% due to rounding

Source: Canalys Smart Speaker Analysis (sell-in shipments), November 2019



Technology + Merchant



Technology



Merchant



Wins voice war

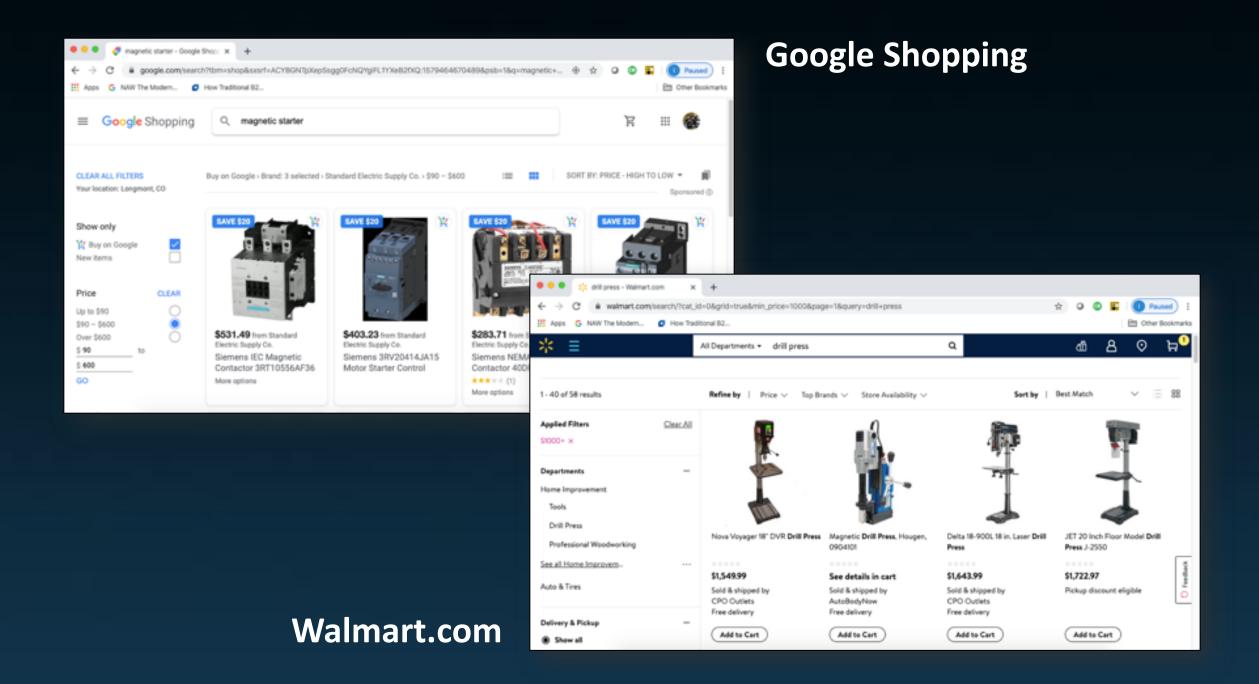
- Product sales
- Search revenue

Google

Loses voice war Loses search revenue



Loses



Amazon Business Financial Estimates

Morgan Stanley:

Third Party Sales: 20% EBITDA

BofA, Merrill Lynch:

- 2023: \$34B in Sales
- 2029: \$125B \$245B

Marketplaces

- Carry almost everything
- Reach almost everyone
- Make ordering easier
- Muddy B2B vs retail
- Are addictive

The rise of marketplaces is inevitable

2020: Strategy without Marketplaces

1995: Strategy without eCommerce

Availability and delivery are being commoditized

Hundreds of Manufacturers

畾

lan's Retail /

Wholesale

畾

Retailer or Distributor

Thousands of Customers

Hundreds of Manufacturers



Retailer or **Distributor**

Thousands of

Disruption

- Core value prop is commoditized
- Marketplaces growing rapidly
- Multiple, well-capitalized new entrants

All is not lost.

Your Next Moves

- 1. Become a technology "fast follower"
- 2. Surround customers with services
- 3. Develop a marketplace strategy

Asset Protection

Product Data

Warehouse Operations

Accts Rec

Profitability

Customer Data Inventory

Marketing

CRM

Product Data

Technology Fast Follower

Strategies

Right Now

Get the right talent
Get your technology ready
Get educated

Strategic planning
Tech stack eval
IT vendor meetings
Al expert position
Conferences

Surround customers with services

Service Development

- GM led profit center
- Stop bundling
- Same rigor as product mgt
- Home page "Services" tab



	Dranching	Linear shaft/rail sutting 9 assu	Drainet financina
24 hour pickup lockers	Drop shipping	Linear shaft/rail cutting & assy	Project financing
24x7 service	E-Procurement	Lock Out / Tag Out	Project review/mgmt
24x7 tech support	EDI	Logistics management	Property sales & leasing
Application Engineering	Electric motors sealed to IP56	Maintenance agreements	Pump and gearbox repair
Arc Flash Evaluations	Electrical distribution assemblies	Maintenance/monitoring services	Pushbutton stations
Asset Tracking	Electrical Engineering	Major accounts program	Recommend contractors
Automatic bin replenishment	Electrical harnesses	Mfg/Alter bearings	Regulatory notifcations
Award trips	Electrical usage analysis	Marketing automation	Removal service
Back-ups at distributor	Electronic invoices	Marketing collateral	Repair hotline
Barcode reorder labels	Embroidery	Material usage tracking	Repair parts
Bearing testing/reconditioning	Emerg generator tank testing	Mechanical seals overhaul	Replacement Parts
Bearing vibe/temp monitoring	Emergency service	Merchandising support	RFP development
Bespoke flanges	Enclosure Builds	Mobile apps	Safety Risk Assessments
Bid review	Energy efficiency consulting	Module assembly	Same day shipping
Bid/tender automation	Energy eff. incentive program	Motor rewinding	Sample evaluation
Bulk Recycling	Energy savings calculator	Motor-control-center buckets	Scholarship program
Bus Bar Assemblies	Energy savings tax doc	New mover program	Seal production service
Business forms	Environmental testing	Oil disposal & recycling	Software installation
Business mgmt software/services	Env/reg compliance assistance	Oil filling	Software/firmware control
Cable cutting and assembly	eProcurement	On-site repair	Sourcing for special products
Cable testing & troubleshooting	Equipment financing	Online bar code label generator	Special / bulk packaging
Calibration service	Equipment rental	Online calculators	Special Billing & Payment
Car registration geo data	Export services	Online account management	State tax forms
Catalog quick online order	Express deliveries	Online marketplace connections	Steam trap measurements
Catalog software integration	Extended credit terms	Online order tracking	Stockroom/trailer mgmt
Chain cutting and assembly	Extended warranties	Online ordering	Stockroom design & set up
Customer needs analysis	Extruded belts	Online repair database	Supplier audits

Develop a marketplace strategy.

Marketplace Strategy

- Track exposure to marketplaces
- Meet with marketplace leaders
- Learn from experts
- Develop a strategy
- Watch out for THE TRAP...

Amazon Can Manage Its Valuation via Growth or Margin

• 3rd Party Sellers, '19:

\$160B

• Net Income 3Q19 v PY:

+\$1.3B

• Take +5% 3rd Party Direct (est): +\$2.3B

"Third-party sellers are kisking whity!" irst party butt. Badly."



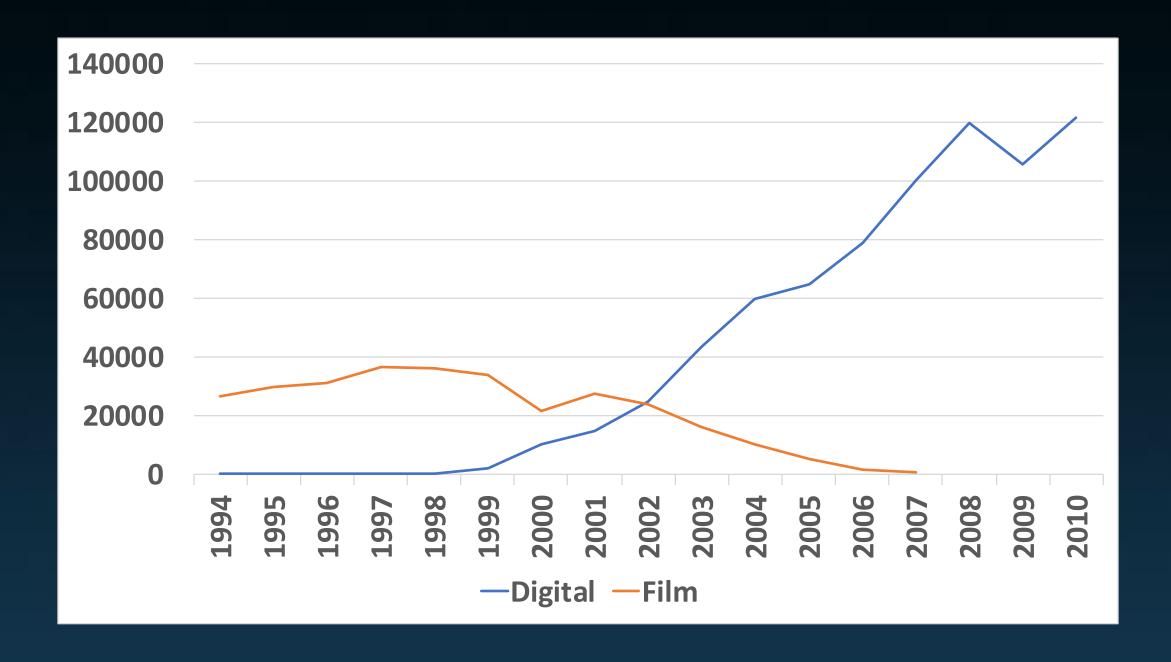
What if it's not really about Amazon?

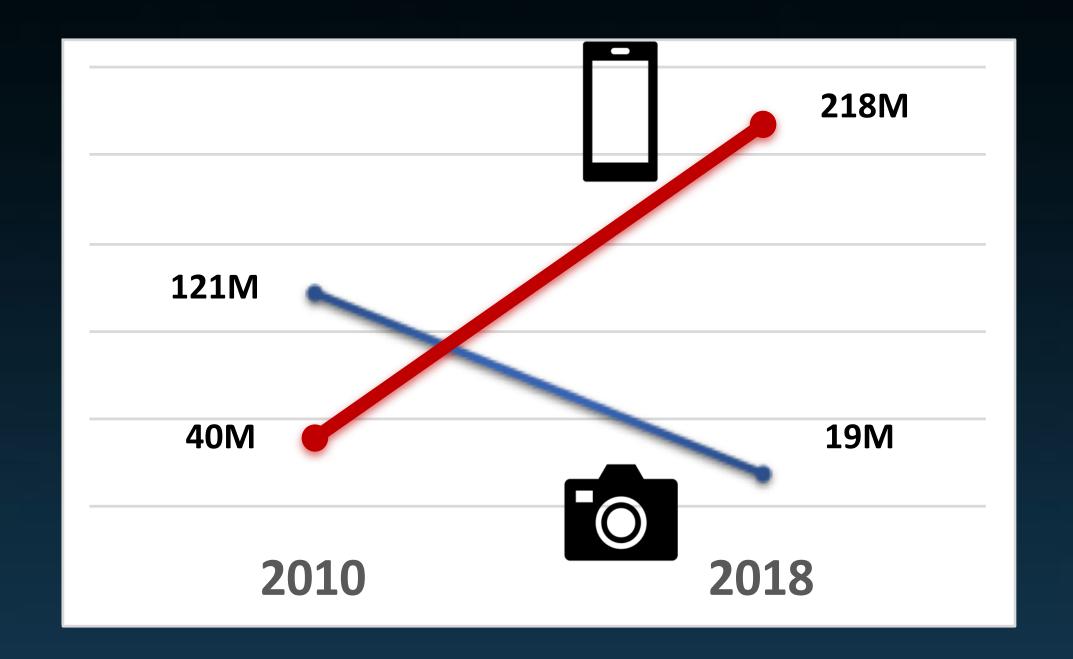
Business model substitution?



New

- Capabilities
- Expectations
- Business models
- Paradigms







What if it's about marketplaces?

One Company - Commerce Site

A Call to Arms

"No distributor can beat Amazon"

But maybe we all can.

Distributor-Owned Marketplace

	3 rd Party Marketplace	Distributor Marketplace
Product Sales	Yes	Yes
Deliver Services	No	Yes
Buy through any channel	No	Yes
Outside sales	No	Yes
Maintain relationships	No	Yes
Local stocks	No	Yes
Cost advantage	No	Yes

New Challenges

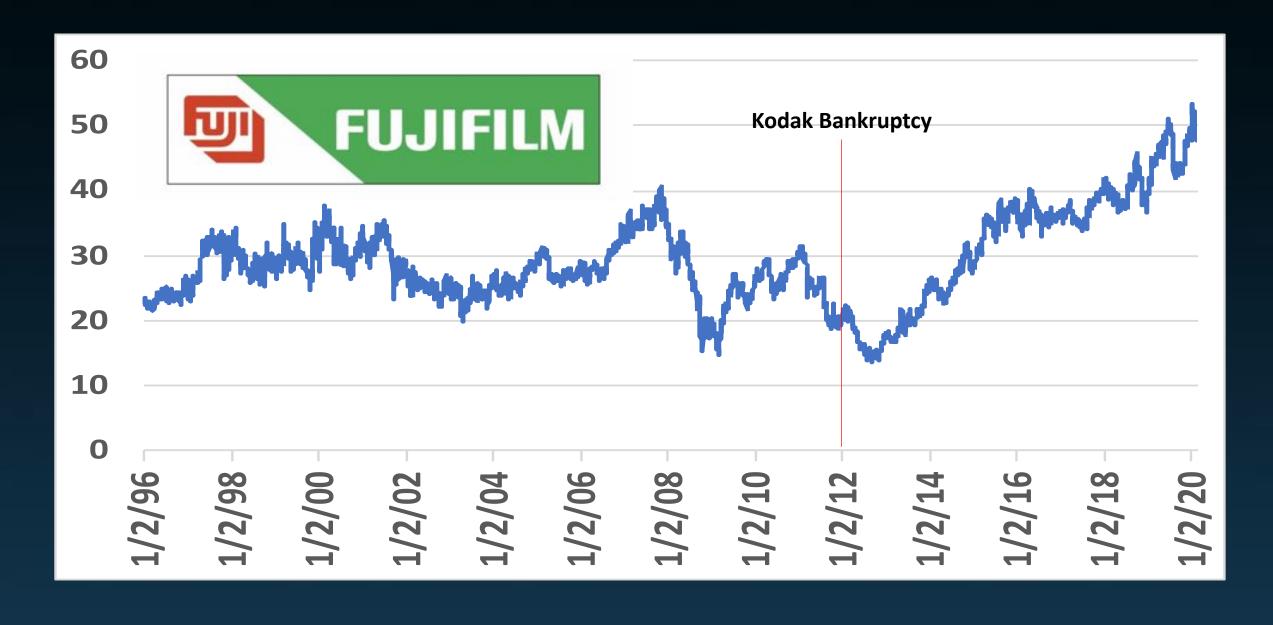
New Ideas

- Electric vs. Gas
- New competitors
- Hard to recruit

- Services
- Technology
- Marketplaces

Developing a Winning Strategy is the Opportunity and the Challenge for Great Leaders

Will you rise to the challenge?



Thank you.

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