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Agenda

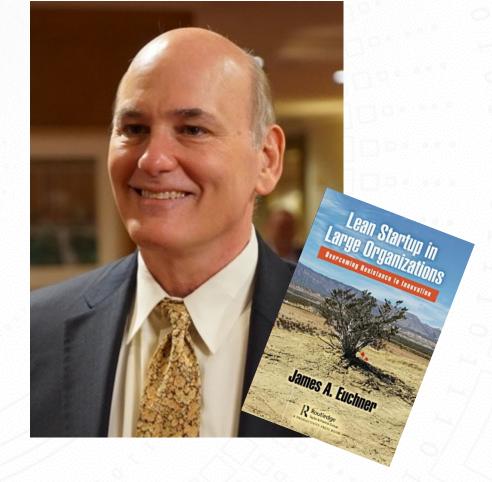
1	Introduction
2	AI and Business Model Innovation
3	Business Model Definition
4	The Uses of AI in Business Improvement
5	AI-enabled Business Models
6	AI-first Business Models
7	Key Questions to Ask
8	Conclusions





Jim

- Editor in Chief, Research-Technology Management
- Honorary Professor, Aston University (UK)
- Partner, Outside Insight Consulting, LLC
- Former VP, Global Innovation, Goodyear Tire & Rubber Co.
- Former VP, Growth Strategy and Innovation, Pitney Bowes
- Former VP, Network Systems R&D, Bell Atlantic
- MS, Mechanical & Aerospace Engineering, Princeton University
- BS, Mechanical & Aerospace Engineering, Cornell University
- MBA, Southern Methodist University





Objectives and Focus

- ✓ Understand how AI can radically transform a business design
- ✓ Distinguish among the types of artificial intelligence applications (from a business perspective)
- ✓ Give examples of each type
- ✓ Provide frameworks for thinking about business models and their essential elements
- ✓ Discuss key questions for thinking about business model innovation with AI



Ground Rules

- ✓ Feel free to ask questions
- ✓ Actively participate
- ✓ Compare what you hear with your experience
- ✓ Share... But be cognizant of proprietary information
- ✓ Connect with one another . . . a key benefit of IRI



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Al will disrupt business models. All of them. Faster than you think possible.

- ✓ Value is already migrating to new digital business models
- Al creates new sources of competitive advantage
- √ The capabilities make entirely new business models possible
- ✓ These new models are powerful and will drive out long-established models



There is a boom in new applications of Al

















Contact info@venturescanner.com to access the full market report and data with all 1,727 companies















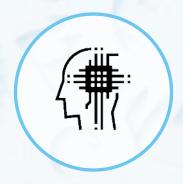
- Computer vision-platform and apps
- Smart robots
- Gesture control
- Speech recognition
- Machine learning
- Natural language processing
- Virtual assistants
- Recommendation engines
- Video content recognition
- Context-aware computing
- Speech translation



Five key drivers that position Al to become critical to strategic advantage



Deep learning advances



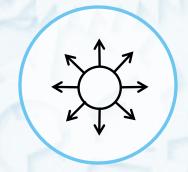
The explosion of data for learning



Tools/infrastructure for managing disparate data types

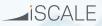


Cheap/elastic computing power



Inexpensive tools that "democratize" AI (including LLM)





Al is a strategic technology

- ✓ It has the potential to be significantly better than people at critical tasks.
- ✓ It gets better with experience
- ✓ It has the potential to change industry boundaries and business models
- It takes you from early indicators of emerging trends to big insights informed by multiple variables in seconds.
- ✓ It allows you to ask fundamentally different questions with a foundationally different point of departure
- ✓ It is the basis for radically new and scalable operating models



The potential of Al

Mobility

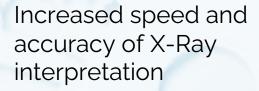
Medicine

Agriculture

Retail

FROM

Adaptive cruise control



Increased efficiency

Inventory management

TO

Autonomous vehicles



Eliminating the need for radiologists; distributed medicine



Precision agriculture



Anticipation of demand





Agenda

Introduction Al and Business Model Innovation **Business Model Definition** The Uses of AI in Business Improvement AI-enabled Business Models AI-first Business Models Key Questions to Ask Conclusions



Creating New Business Models

Business Model Definition

The **set of choices** a company makes to **capture value** from an offering in a **competitive environment**



Creating New Business Models Attributes of a Successful Business Model

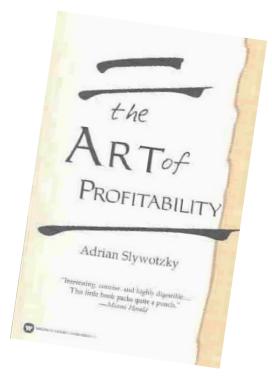
- ✓ Complete considers all necessary elements
- ✓ Coherent the parts support one another
- ✓ Profitable creates economic leverage
- ✓ Competitive builds competitive advantage
- ✓ Viable aligns all necessary stakeholders



Creating New Business Models 23 Traditional Business Model Archetypes

- Customer Solution Profit
- Pyramid Profit
- Multi-Component Profit
- Switchboard Profit
- Time Profit
- Blockbuster Profit
- Profit Multiplier Model
- Entrepreneurial Profit
- Installed Base Profit
- De Facto Standard Profit
- Brand Profit
- Specialty Product Profit

- Local Leadership Profit
- Transaction Scale Profit
- Value Chain Position Profit
- Cycle Profit
- After-Sale Profit
- New Product Profit
- Relative Market Share Profit
- Experience Curve Profit
- Low-Cost Business Design Profit
- Digital Profit





Creating New Business Models Emerging Digital Business Model Archetypes

Pure Digital

- F-tail Model
- 2-sided Digital Marketplace Digital Advertising Model
- Digitalization of Content Model
- Streaming of Content
- Open-Source Software
- Data Monetization

For Industrial Companies

- Proactive Solutions Model
- Product as a Service Model
 Direct to Consumer (D2C) Model
- Predictive Selling
- Mass customization
- Shared economy
- Digital First Product Design
- Bundled services
- Digital R&D

• ...

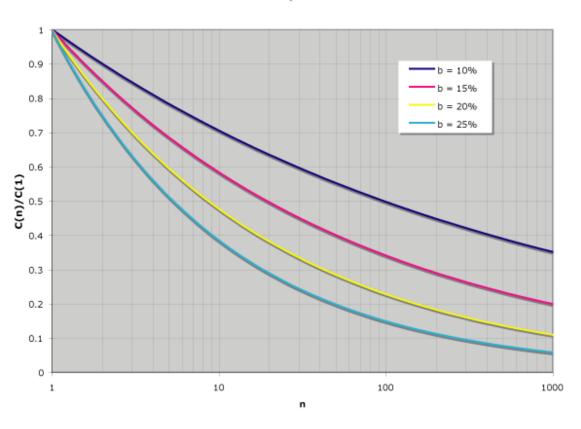
Business model innovation requires systematic change (not just a different revenue model)



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Experience Curve Profit n.tab;a.fn.tab=b,a.fn.tab.Constructor=c,a.fn.tab.noCon (document).on("click.bs.tab.data-api",'[data-toggle="t& Re[b]()})}var c=function(b,d){this.options=a.extend({}} this.checkPosition,this)).on("click.bs.affix.data-api" pinnedOffset=null,this.checkPosition()};c.VERSTON="3 tion(a,b,c,d){var e=this.\$target.scrollOutsicle | Insight osition this.affixed)return null!=c?!(e+this.unpin<=f.top)&&"bott 18

Archetype: Experience Curve

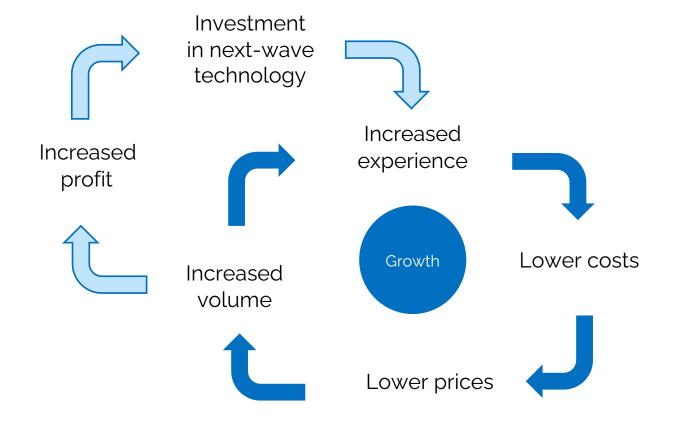
Experience Curve



- Costs drop with volume produced
- Requires a discipline of learning
- Volume can be increased by "pricing down the experience curve"
- The leader with a new technology has a distinct advantage



Experience Curve Flywheel





Experience Curve Profit The Business Model Canvas

CUSTOMER SEGMENTS

 Large customers to reach scale quickly

CUSTOMER RELATIONSHIPS

- Deep customer relationships
- Joint planning

CHANNELS

Direct

VALUE PROPOSITION

- Leading-edge products
- Price reductions over time

KEY ACTIVITIES

- R&D
- Strategic pricing
- Operating discipline

KEY PARNTERS

R&D partners

KEY RESOURCES

- Talent
- Mega plants

REVENUE STREAMS

- Price down the experience curve
- Benefit from market share leadership

COST STRUCTURE

- Large R&D investment
- Large PPE investment



^{*} After Osterwalder and Pigneur Outside Insight

Experience Curve Strategic Control Points

	Power	Index	Strategic Control Point	Examples
	High	10	Own the standard	Microsoft, Oracle, Intel
		9	Manage the value chain	Intel, Coke Amazon
		8	String of super-dominant positions	Coke, internationally
Slywotzky		7	Own the customer relationship	EDS, GE Amazon
	Medium	6	Brand, copyright	Countless
		5	Two-year product development lead	Intel
	Low	4	One-year product development lead	Few
		3	Commodity with 10-20% cost advantage	Nucor, Southwest Air
	None	2	Commodity with cost parity	Countless
Outside Insig		1	Commodity with cost disadvantage	Countless

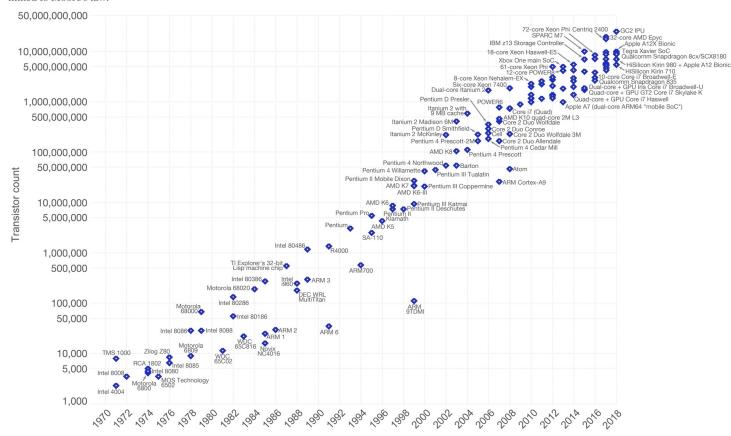
RESEARCH

Experience Curve Technology Drivers

Moore's Law – The number of transistors on integrated circuit chips (1971-2018)



Moore's law describes the empirical regularity that the number of transistors on integrated circuits doubles approximately every two years. This advancement is important as other aspects of technological progress – such as processing speed or the price of electronic products – are linked to Moore's law.









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Experience Curve Critical Success Factors

- Early entry with a new generation of products => R&D leadership
- Willingness to invest throughout the economic cycle
- Disciplined learning
- Pricing for market share (vs. early profit)

Al puts continuous learning on steroids



u)"),d=b.data("target");if(d||(d=b.attr("href"),d=d&&d.replace(/. .Event("hide.bs.tab",{relatedTarget:b[0]}),g=a.Event("show.bs ted()){var h=a(d);this.activate(b.closest("li"),c),this.a(pe:"shown.bs.tab",relatedTarget:e[0]})})}}},c.prototype. Multi-sided Markets ind("> .fade").length);g.length&&h?g.onAmazon n.tab;a.fn.tab=b,a.fn.tab.Constructor=c,a.fn.tab.noCon (document).on("click.bs.tab.data-api",'[data-toggle="t& Re[b]()})}var c=function(b,d){this.options=a.extend({}} this.checkPosition,this)).on("click.bs.affix.data-api" pinnedOffset=null,this.checkPosition()};c.VERSTON="3 osition tion(a,b,c,d){var e=this.\$target.scrollOutside | Insight this.affixed)return null!=c?!(e+this.unpin<=f.top)&&"bott 25

Amazon Marketplaces Example Moving from e-tail to a two-sided marketplace

Why: Provide greater product selection to customer base

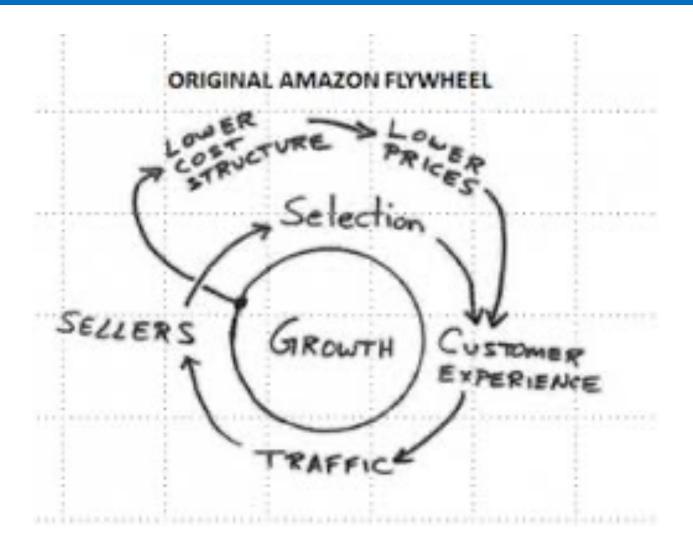
How: Open Amazon infrastructure to third-party sellers

- Storefront infrastructure
- Fulfillment infrastructure
- Transparent shopping experience

Become the "Everything Store"

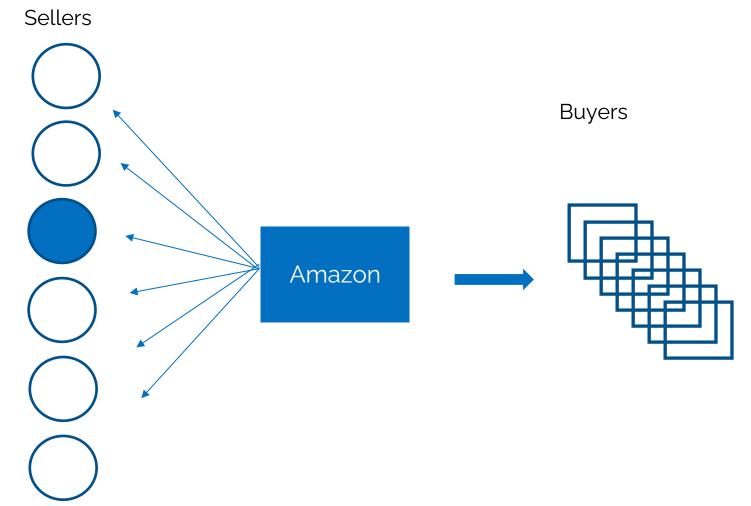


Economic Leverage The Flywheel





Amazon Switchboard Model



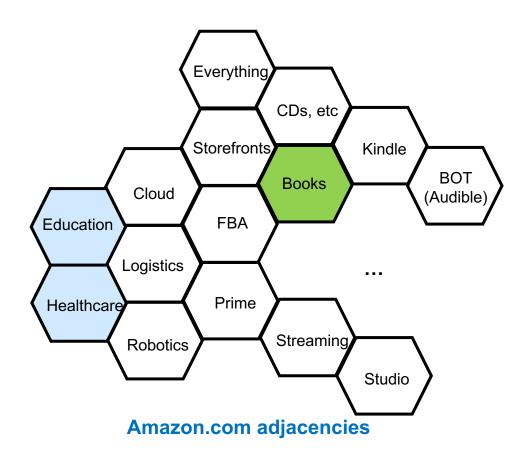


Switchboard Model Profit Sources

- Increased customer loyalty
 - More selection
 - Lower prices
- Increased traffic
- Increased data on customer behavior
- Fees from sellers
 - Storefronts
 - Transactions
 - Fulfillment



Amazon: Economies of Scope



- Align with corporate strategy
- Consider adjacencies to give yourself a right to win
- Leverage assets of the core
 - Customer base
 - Infrastructure
 - Technology
 - Channel
- Many adjacencies still require a mind-shift
- You cannot finesse the issue of where to play

Amazon has leveraged assets and capabilities to move into new business models many times

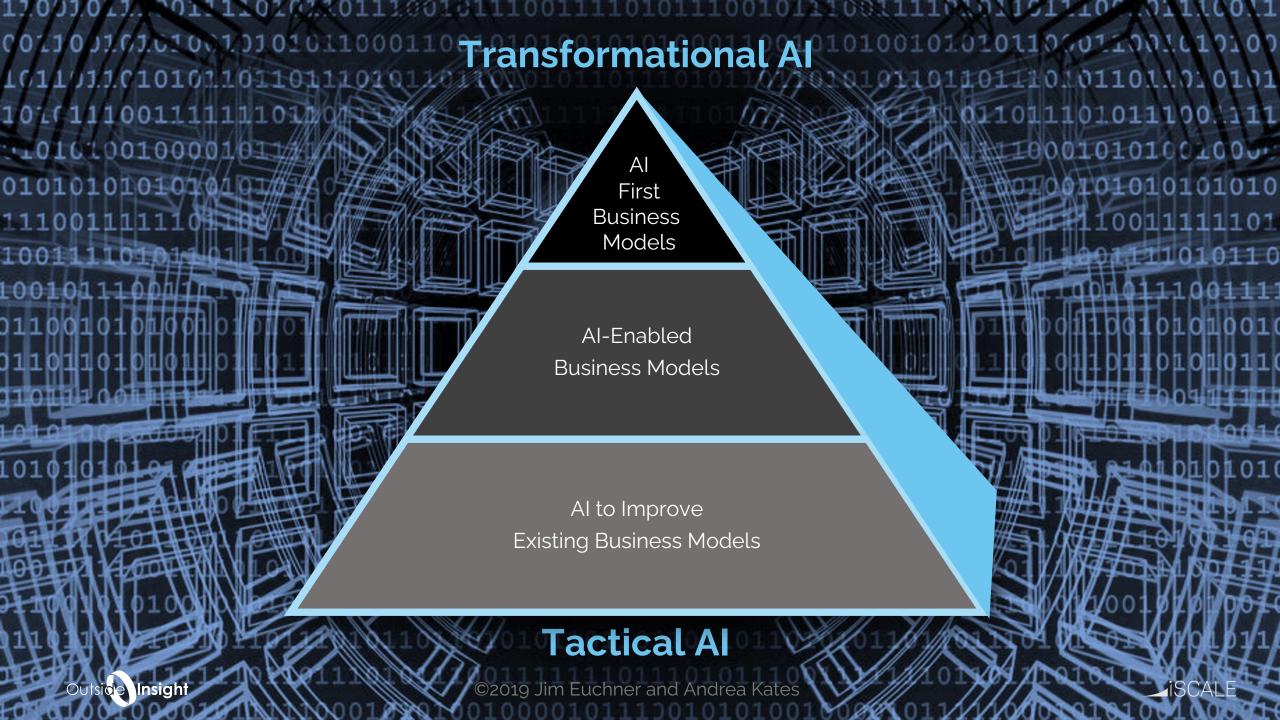


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Improving Existing Business Models Task Automation

- Automation of any routine task
 - ✓ Diagnosing a telephone line (MAX)
 - Diagnosing infectious diseases
 - Designing cements for oil wells (C-Mentor)
 - ✓ Placing online ads (Google)
- Providing intelligent support to people doing tasks
 - ✓ Call Centers (ASAPP)
 - ✓ Network Designers (Arachne)



Improving Existing Business Models Process Re-engineering

- Traditional re-engineering
 - ✓ Top-down, technology-driven
 - Clean sheet of paper
 - ✓ Intelligent ERP Systems
 - Robotic Process Control
- Distributed re-engineering
 - Enabled by LLM tools
 - ✓ Work-oriented
 - Based on empowerment of individuals and teams



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5	AI-enabled Business Models AI-first Business Models



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Business Model Collection



















Creating New Business Models Al-enabled Business Models

Pure Digital

- E-tail Model
- 2-sided Digital Marketplace Digital Advertising Model
- Digitalization of Content Model
- Streaming of Content
- Open-Source Software
- Data Monetization

For Industrial Companies

- Proactive Solutions Model (Goodyear)
- Product as a Service Model (Rolls Royce)
 Direct to Consumer (D2C) Model
- Predictive Selling (StitchFix)
- Mass customization
- Shared economy
- Digital First Product Design
- Bundled services
- Digital R&D
- •

Business model innovation requires systematic change (not just a different revenue model)



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Proactive Solutions Archetype

Value Proposition: Reduced unplanned downtime

Value Delivery System: Real-time monitoring

Predictive analytics

Actionable alerts

Integration with service network

Revenue Model: Subscription per vehicle

Extension into additional services

Business Model: Pay for uptime



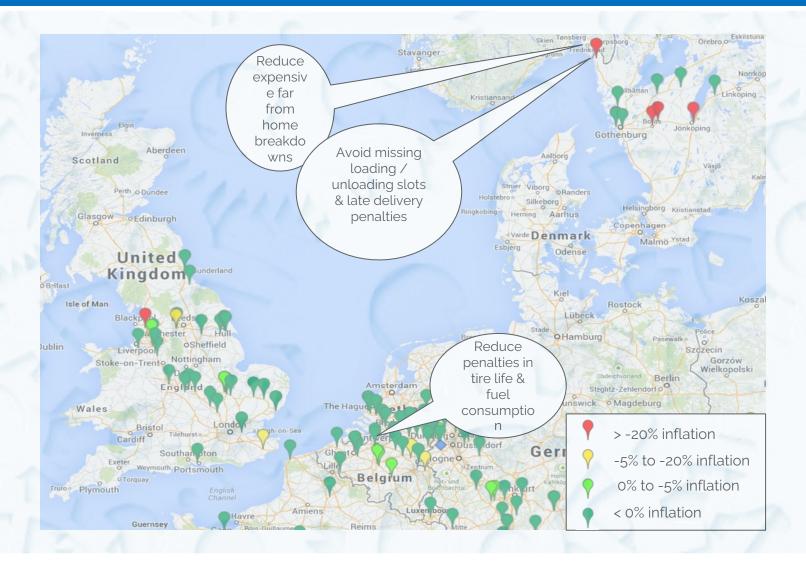








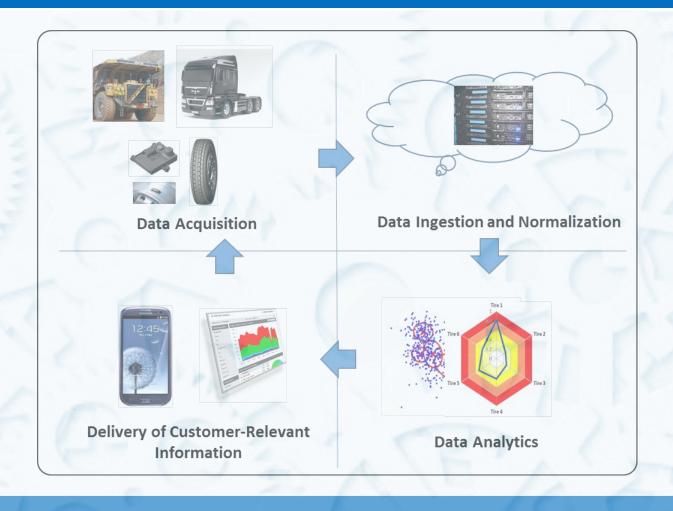
Proactive Solutions Predictive Tire Maintenance







Proactive Solutions **Value Creation**





Prevents 80+% of roadside failures



Proactive Services Critical Success Factors

- Focus on customer metrics
- Move downstream into the value chain
- Provide actionable data
- Integrate with customer operations
- Partner with the product business to improve outcomes

Requires systematic change (not just a different revenue model)



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Total Care Archetype

Value Proposition: Pay by the hour of flight time

Reduced unplanned downtime



Value Delivery System: Robust engine monitoring and predictive analytics

Design for service

Relocate service to customer location

Re-engineered spare parts supply chain

Customer-facing service personnel

Revenue Model: Value pricing

Business Model: "Servitization" of products

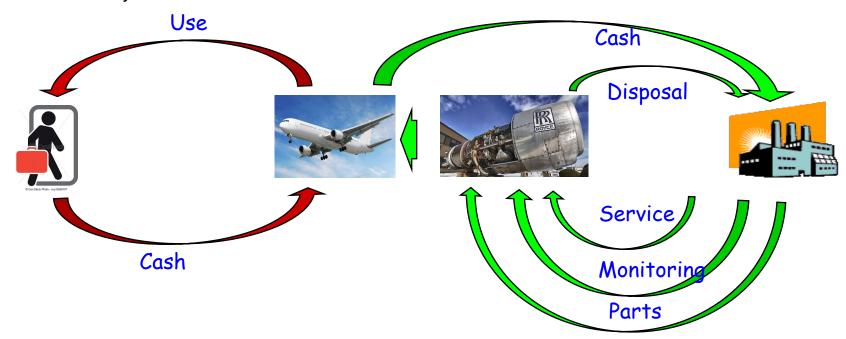
* After Tim Baines, Made to Serve



Value Creation

Value Creation

- Create value through intelligent systems
- Differentiate product with service (sell outcomes, not products)
- Reduce customer's total cost of ownership
- Participate in a larger part of the customer's value chain
- Increase customer intimacy



* After Tim Baines, Made to Serve





Rolls-Royce®

Total Care Critical Success Factors

- Rolls-Royce®
- Focus on customer outcomes and customer metrics
- Invest in *prevention* of failure
- Invest in rapid recovery from failure
- Invest in staff skills in customer relationships















u)"),d=b.data("target");if(d||(d=b.attr("href"),d=d&&d.replace(/. .Event("hide.bs.tab",{relatedTarget:b[0]}),g=a.Event("show.bs ted()){var h=a(d);this.activate(b.closest("li"),c),this.a(pe:"shown.bs.tab",relatedTarget:e[0]})})}}},c.prototype. d",!0),h?(b[0].offsetWidth,b.addClass("in")):b.removeC Predictive Selling Anticipate Demand (document).on("click.bs.tab.data-api",'[data-toggle="t Re[b]()})}var c=function(b,d){this.options=a.extend({}} this.checkPosition,this)).on("click.bs.affix.data-api" pinnedOffset=null,this.checkPosition()};c.VERSTON=" tion(a,b,c,d){var e=this.\$target.scrollOutsice | Insight osition this.affixed)return null!=c?!(e+this.unpin<=f.top)&&"bott

Predictive Selling Archetype

Value Proposition: Convenient fashion

Reduced time shopping

Value Delivery System: Deep customer analytics (data)

Strong predictive algorithms

Strong design

Effective logistics

Revenue Model: Subscription (like Book of the Month Club)

Business Model: Predictive Selling









Predictive Selling Value Proposition

Reverse the e-tail experience

	<u>From</u>		10
1.	Shop	1.	Pay
2.	Try on	2.	Ship
3.	Decide	3.	Try on
4.	Pay	4.	Decide
5.	Take home	5.	Return









Predictive Selling Value Proposition





Customers will always want

- More selection
- Faster delivery
- Cheaper prices

Examples

- Amazon Storefronts
- Fulfillment by Amazon (FBA)
- USPS Sunday delivery
- Predictive Analytics

Relentless focus on the customer

Process discipline



Predictive Selling Critical Success Factors

- Focus on customer desires; be ahead of the curve
- Invest in predictive analytics
- Invest in operational excellence



Agenda

Introduction Al and Business Model Innovation **Business Model Definition** The Uses of AI in Business Improvement AI-enabled Business Models **AI First Business Models** Key Questions to Ask Conclusions



"Al is the 'runtime' that is going to shape all that we do."

Satya Nadella, Microsoft

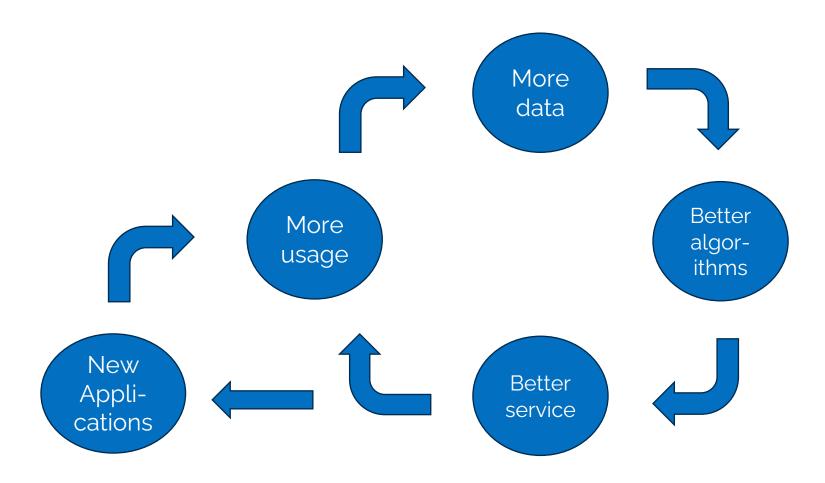
Al First Business Models

- Radically redesigned operating model based on an AI Factory
- Enables the best of all worlds
 - Economies of scale
 - Economies of scope
 - Accelerated learning
- ✓ Efficiencies can be 100X or 1000X

See lansiti and Lakhani: Competing in the Age of Al



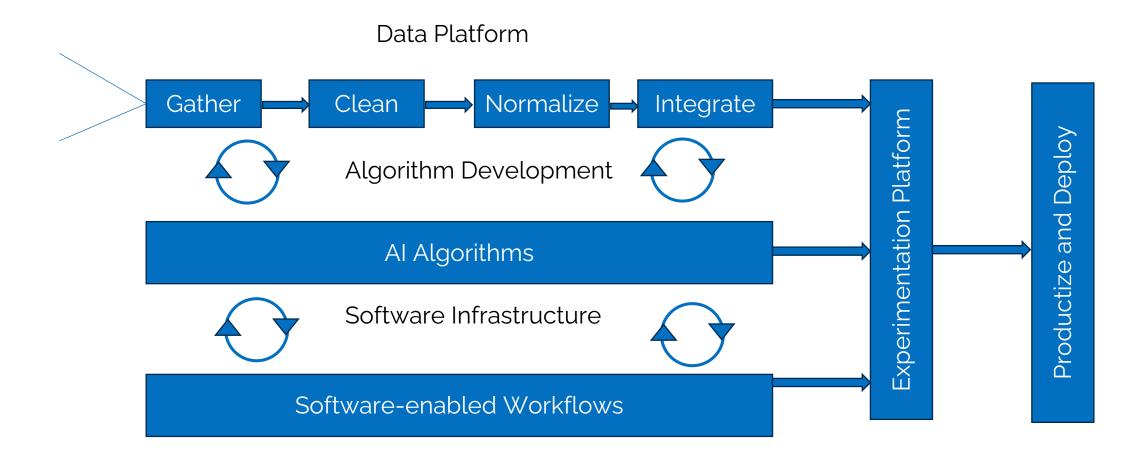
Al Factory



* After lansiti and Lakhani: Competing in the Age of Ai



Al Factory



* After Iansiti and Lakhani: Competiting in the Age of Al



Al First Benefits

- Economies of Scale
- Economies of Scope
- Accelerated Learning
- Speed

Traditional strategic trade-offs do not apply

See lansiti and Lakhani: Competing in the Age of Al



AI/Digital Business Models Key Enablers

1. Data feeds insight

(customization, diagnosis)

2. Cloud computing enables scale

provides ubiquity

3. Artificial Intelligence enables prediction

improves all aspects of marketing

improves operations

4. Internet of Things greatly expands data

5. Mobile greatly expands data

provides point of customer access

Quantitative differences become qualitative differences





Creating New Business Models Al First Business Model Archetypes

Pure

- E-tail Model
- Multi-sided Digital Marketplace (Amazon)
- Digital Advertising Model
- Digitalization of Content Model
- Streaming of Content
- Open-Source Software
- Data Monetization (Ant Financial)

For Industrial Companies

- Proactive Solutions Model
- Product as a Service Model
 Direct to Consumer (D2C) Model
- Predictive Selling
- Mass customization
- Shared economy
- Digital First Product Design (Tesla)
- Bundled services
- Digital R&D (Moderna)

• ...

Business model innovation requires systematic change (not just a different revenue model)



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Data Monetization Archetype

Value Proposition: Full range of financial services

Fast, inexpensive, broad market

Value Delivery System: Deep data on customers from many apps

Enables hyper targeting

Enables extensive cross-sell

Extremely low-cost delivery model

Revenue Model: Fees of various types

Business Model: Data Monetization

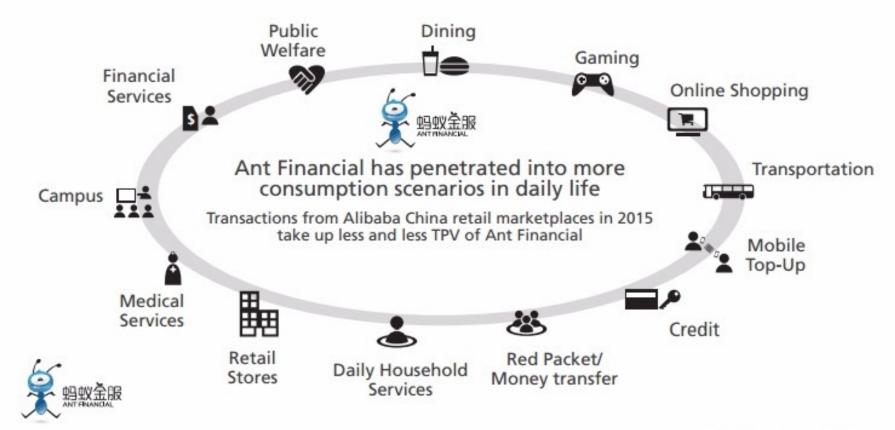






Data Monetization Flywheel on Steroids

Diagram 14: User engagement across Ant's expanding ecosystem



Source: Alibaba Group Investor Day, June 2016





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Al-Driven R&D Archetype

An Al-based bio-technology company

Value Proposition: Identification of possible mRNA molecules to test

Identification of process for synthesis

Automated testing of potential molecules

Value Delivery System: Speed (e.g., Covid-19 vaccine)

Breadth of application (many disease types)

Continuous improvement using Al

Revenue Model: Treatment sales

Business Model: Al-Driven R&D



moderna





Al-driven R&D Critical Success Factors

- Design in virtual space
- Create the capability for rapid testing in the physical world
- Leverage generative AI techniques as well as machine learning
- Establish a culture of continuous improvement
- Extend the AI model to every aspect of the business
 - Science
 - Manufacturing
 - Quality control



"We're using AI for schedule optimization, in vitro studies, clinical trial design, epidemiology studies and protein engineering and design..."

Andrew Giessel
Director Al and Data Science



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Digital First Product Archetype

Value Proposition: Great car that gets better

Promise of future features

Infrastructure enablers

<u>Value Delivery System</u>: Unique concept (computer on wheels)

Innovative EV design Internet sales channel Over the air updates

Revenue Model: Vehicle sales

Carbon credits

Subscription upgrades (autonomy)

Cross-sell insurance

Robo taxi (future)

Business Model: Digital First Product









Digital First Product Flywheel

Additional value services

- Insurance
- Charging stations
- Home batteries
- Satellite network

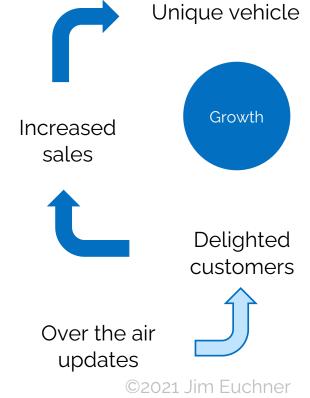
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Digital First Product Critical Success Factors

- Completely reconceived product
 - EV
 - OTA updates
 - Autonomy (AI)
- Digital foundations
- Enabling infrastructure
- Regulatory skills
- Brand management





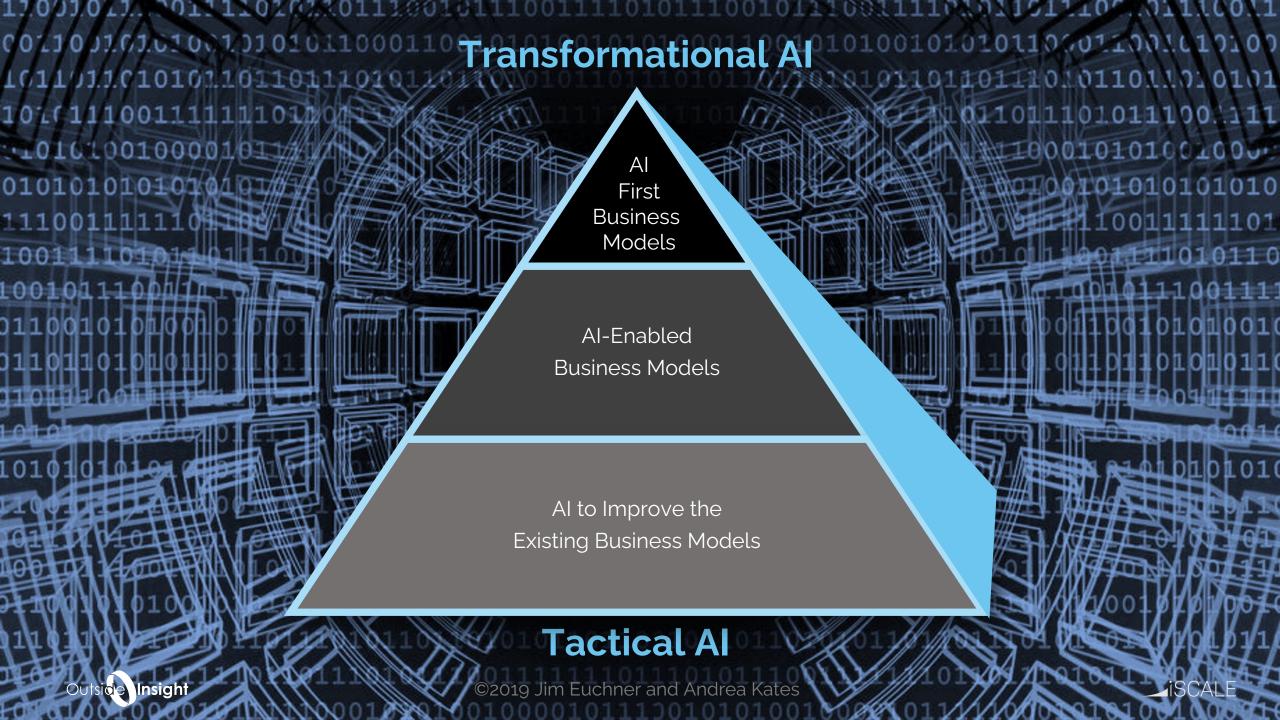
Deere Precision Farming



Agenda

Introduction Al and Business Model Innovation **Business Model Definition** The Uses of AI in Business Improvement AI-enabled Business Models AI First Business Models **Key Questions to Ask** Conclusions





Al to Improve the Existing Business Model

- Where are people doing repetitive work?
- 2. What data are they using to do the work?
- 3. Can the data be tagged to create a training set?
- How should the AI be integrated with the work
 - task automation
 - person-in-the-loop (cyborg)
 - process redesign
- 5. What does the learning curve look like (empirical)?
- 6. What is the ROI?



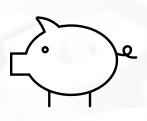
AI to Enable New Business Models

- 1. Where are people (workers or customers) managing the consequences of uncertainty?
- 2. If the uncertain information were known, what would change?
- 3. How could we create a data set to make this possible?
- 4. What business model would best exploit the new capability?
- 5. How good could an AI system get? How good would it have to get?
- 6. What is the potential of the business model?





Which assets will you leverage? Where do you have proprietary data?



Financial Resources



A large reservoir of ideas in the form of the workforce



Established customer relationships



Brand strength



Scale through multiple locations



Communications infrastructure for mobilizing a workforce



Channel relationships





Al First Business Models

- 1. What decisions are critical to our business?
- 2. What are the bottlenecks in making these decisions?
- 3. What would our business processes look like if these were fully automated?
- 4. What data would permit us to deliver this automation?
- 5. How good could an AI system get? How good would it have to get?
- 6. What are the risks in an AI First business model in our industry?



Agenda

1	Introduction
2	AI and Business Model Innovation
3	Business Model Definition
4	The Uses of AI in Business Improvement
5	AI-enabled Business Models
6	AI First Business Models
7	Key Questions to Ask
8	Conclusions



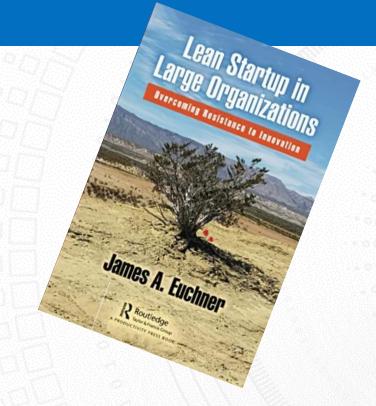
Critical success factors

- Focus on the transformative implications of better prediction ability
- Think about creating data, not just using what is there
- Redesign the business model around the new economics
- Experiment and learn before committing (Lean Startup)
- Once the model is understood, bet to win
- Challenge yourself to think of entirely new questions: "How might we..."



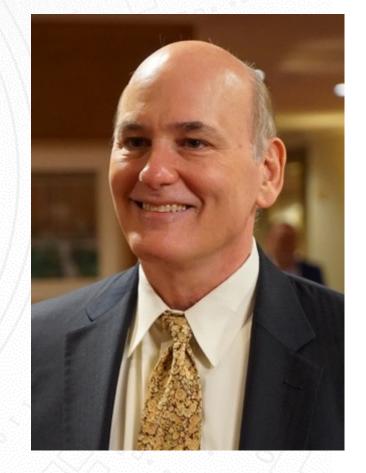


Follow up



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I am glad to schedule 30 minutes to talk with you and answer any further questions you may have.





References RTM Resources on AI and Business Model Innovattion

Interviews (with Jim Euchner)	
Ron Adner	Innovation Ecosystems
Steve Blank	The Genesis and Future of Lean Startup
Mark Johnson	Developing New Business Models
Alex Osterwalder	Business Model Innovation
Youngjin Yoo	Design in the Generative Economy
John Rossman	Innovation the Amazon Way
Adrian Slywotzky	Business Design
Marco Iansiti	Corporate Operating Models in the Age of AI



Other Useful References

	Books
Marco lansiti and Karim Lakhani	Competing in the Age of Al
Ajay Agrawal, et. al	Prediction Machines
Adrian Slywotzky	The Art of Profitability; Profit Patterns
	Blogs and Papers
Ethan Mollick	One Useful Thing
Jim Euchner and Abhijit Ganguly	Business Model Innovation in Practice
Jim Euchner	Big AI, Little ai; Good AI, Bad AI (column)
Jim Euchner	Generative AI (resources)

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