3. "Outside-in" or "Customer-centric" Design

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Plan for ISSD Lecture #3

"Inside-out" vs "Outside-in" design foci
The "manufacturing mindset"
The transition to a "service mindset"
"The Experience Cycle"
"Turning Shoppers into Advocates"
Inside-Out Design Foci

Operations - improving the operational processes by which products or services are produced, managed, delivered; focus on efficiency, productivity, "input-based" measures to reduce costs: MAKE IT PROFITABLE

Technology - using improved or new technologies in products to increase functional capabilities, performance, reliability, or other values in the delivered product or service: MAKE IT WORK
Outside-In Design Foci

Designer - inspire a need or evoke desire in a product or service:
MAKE PEOPLE WANT IT

Customer - make products and services that meet customer needs:
MAKE IT SELL

Designer-Driven Design

Wanted: Genius Designer

As the curtains part, fashion awaits a new hero. Maybe that's the problem.
"Experience by Default"

Companies with an operations/manufacturing or technology mindset can be dominated by a belief that they compete on the basis of product cost, features, or quality.

As a result, they don't focus on the experience that customers have with their offerings.

And firms view the customer experience as something that happens at the end of the processes that they carry out.
"Manufacturing of Services"

Mills and Moberg "Perspectives on Technology of Service Operations" (1982) was first paper to contrast and extend manufacturing system concepts to service design and delivery.

In a "service production system" services are co-produced by the "service worker" and the customer.

The former is a "mini-factory" because they both help produce the output and are simultaneously involved in selling it.

The interactions between the service worker and the customer are "transactions" in which they exchange information and commitment.
The "Technical Core" in a Production System

A firm's TECHNICAL CORE consists of its technologies and skills (of its workers) that perform its essential work.

Rational firms "seal off their technical core" from internal and external sources of uncertainty in order to create a "closed loop system".

(In other words, try to control inputs from customers so they don't mess up the manufacturing process).

Techniques for "sealing off the core" include "buffering" (use of inventories) and "smoothing" or "rationing" (to manage supply and demand).
Limits on Sealing Off the Technical Core in Service Systems

The technical core can't be sealed off entirely because people engage in "cycling, aborting, and serendipitous" processes (unlike raw materials).

Denying service to customers who would cause problems, or "socializing" customers to be better behaved are "rationing" techniques that reduce uncertainty, but require additional service operations.

Making the service transaction more routine and disallowing any exceptions can make service times more regular.

But unlike manufacturing efficiency, service efficiency obtained in this "Take it or leave it" way undermines the customer experience.

Products, Services And "Value"

It is easy to imagine that most of the value in a product is added by the processing of the materials that go into it; to build a car we process rubber to make tires, leather to make seats, steel to make the chassis and body...

But even for cars, a great deal of value comes from intangibles and services before and after the product is purchased.

And for many products like clothing, pharmaceuticals, and software the cost of the raw materials is a negligible component of the value.

And for many products like airplanes the customer who buys them does so in order to use them to provide services to its customers -- people who travel.
The Product Life Cycle from the Customer’s Perspective

- Determining requirements and justifying purchase of the product
- Finding a product supplier
- Financing the product
- Installing the product
- Modifying other products or processes to work with the product
- Maintaining the product and replacing parts
- Training personnel to use the product
- Upgrading the product
- Disposing of product waste
- Disposing of the product

Why Product Firms Are Looking to Services

Services have always been part of product life cycle, but now we're in an "information and service economy" and firms must work harder to:

GENERATE REVENUE

- Increased global competition and more informed customers make it harder for firms to be profitable
- In many technology-intensive industries, Moore's Law and automation relentlessly commoditizes products and reduces costs, so revenues decline

SATISFY CUSTOMER DEMAND

STAY COMPETITIVE
A 1-Minute "MBA Moment" -- Profitability and Margins

Discussions about a firm's need to generate new revenue usually are focused around its profitability and margins.

Profit margin (or net operating margin) is simply earnings (or profits) divided by sales.

Profitability and margins differ across industries and indicate the amount of competition in the industry.

Margins go up when a firm's costs decline, when it gets more efficient, or when it introduces new products for which it can charge premium prices.

Margins go down when its costs go up, when it gets less efficient, or when competition drives down the prices it can charge for its products.

See www.bizstats.com/corpnetincome.htm

Maximizing Margins

Within a given industry, the firms with the highest profit margins are those:

That are best at controlling costs through operational efficiency.

That are best at inventing and bringing to market new products and services.

That are best at engineering and marketing an optimal mix of product and service offerings with a carefully controlled pricing structure.
The Traditional Sales and Cash Flow Cycle

In the "good old days" companies could expect to make a lot of money on new products because the slower pace of technology innovation gave them a long time to recoup the cost of new product development.

No More Cash Cows

Rapid technology innovation shrinks product life cycles so margins from new products shrink more rapidly and there is less time to "milk the profits" from the "cash cows".

So firms need to introduce products and services more rapidly, and more closely customize them to capture and retain customers.
The Big Shift - Where is Value?

The inside-out perspective assumes that firms create value when they build products or systems or service capabilities. This value is thus determined by the producer, and then delivered to and received by customers. But in "the new economy," an emerging perspective is that value isn't created until the product/system/service is used. This means that value is "co-created" with the customer, and different customers will create different kinds and amount of values.

Toward "Service-dominant Logic"

This shift or reframing from "goods-dominant logic" to "service-dominant logic" has been led by: Stephen Vargo & Robert Lusch. ["Evolving to a new dominant logic for marketing." Journal of Marketing, 68(1), 1-17, January 2004.]

But it has been emerging in service design and operations for a couple of decades as firms (even product-dominant ones) recognized the role of their "frontline" employees in sales or delivery roles in enabling the customer to have a good experience.
The "Service Triangle" & "Co-production"

If product firms produce "experience by default," how do they come to produce "experience by design"?

Empowering customer-facing employees to care about the customer experience is necessary, but far from sufficient.

That's because the customer experience is determined by much more than just the "last encounter".

The Transition to "Outside-In" / "Customer-Centered" Design
"Experience Cycle" -- Recursive Encounters

"Experience Cycle" -- Ongoing Relationships

advocate
the person actively communicates their satisfaction to others

extend & retain
the person comes back for more as their expectations are raised—at the same time a significant level of loyalty andversible relationships are achieved

connect & attract
the initial connection with the person and setting that contact to make an effective and affective impression

orient
the overview or preview of what's available or possible, allowing exploration and supporting the early stages of learning

interact
the completion of valuable or valued activities while delighting the senses, skillful, and establishing expectations about the overall context of the encounters

reverberating
you just have to try this

compelling
captures the users' imagination

generative
promises more good things

embedded
becomes part of users' lives
"Turning Shoppers into Advocates"

Product-centered retailing operations don't have a unified view of the customer or the customer experience.

Retailers capture lots of information about customers, but it isn't leveraged across the company.

Customer-centered retailers systematically integrate knowledge of what the best customers want and expect from their brand into every core operational decision.

But do they even know who their customers are?

Which customers are the best ones?

A Disconnected Shopping Experience
Distribution Patterns

"Turning shoppers into advocates" assumes that the manufacturer can get information about customers and their transactions... but this is a big assumption.

You can sell direct to a customer online or in your own "brick and mortar" stores.

But if you sell indirectly through intermediaries / distributors, you might not get all the information you'd like.

If you sell both direct and indirect you can have "channel conflict".

The Mandate For Customer Data

You must get more information about what the customer actually does with your product, and then you have to use what you've learned.

<table>
<thead>
<tr>
<th>CUSTOMER DATA LIFECYCLE</th>
<th>Stage 1: Collecting Data</th>
<th>Stage 2: Mining Data</th>
<th>Stage 3: Operationalizing Data</th>
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<tbody>
<tr>
<td>Objectives:</td>
<td>• Collect, validate and refresh data in a customer-centric manner</td>
<td>• Develop customer behavior information and insights which can be used to create initiatives or promotions that will generate a positive financial return</td>
<td>• Use these insights to deliver a personalized customer experience at each touch point in real time</td>
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<td>• Gather this data in real time</td>
<td>Key Challenge: • Become overwhelmed by the amount of data or by data quality issues</td>
<td>Key Challenges: • Change front-line staff, processes and systems to use insights</td>
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<td>Key Challenges:</td>
<td>• Data warehouse project that becomes too complex and/or too expensive</td>
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<td>• Real-time connectivity and reliability</td>
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<td>• Real-time connectivity to customer behavior at the point-of-sale</td>
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Frequent Flyer Profitability

60% of the highest-status frequent flyers were in the “least profitable” segment

* Decile 1 = most profitable FFP members; Decile 10 = least profitable

Integrated Shopping Experience

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<th>Demand generation</th>
<th>Browse and research</th>
<th>Transact</th>
<th>Fulfill</th>
<th>Service and support</th>
<th>Remarketing</th>
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<tr>
<td>“I can’t wait to receive my monthly newsletters in the mail and see the coupons and information just for me.”</td>
<td>“I can always find clothing that suits my taste and needs.”</td>
<td>“The sales people are available and can easily tell me whether a product is in stock or not.”</td>
<td>“I can reserve items or purchase items online and pick them up in the store.”</td>
<td>“The service representative was friendly, and answered all my questions.”</td>
<td>“I receive e-mails that provide me related offers for the store, catalog or Website.”</td>
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<td>Promotions and offers tailored to each customer segment</td>
<td>Assortment planning reflects market and customer needs</td>
<td>Inventory availability provided to associates; staffing balances cost with customer needs</td>
<td>Inventory management integrated across channels</td>
<td>Metrics include productivity and customer satisfaction goals</td>
<td>Marketing plans coordinated across channels</td>
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Readings for 10 September
