# **Business Strategy and Business Models**

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# Strategy

#### **Definition:**

Strategy is the art of creating value. It provides the intellectual frameworks, conceptual models, and governing ideas that allow a company's managers to identify opportunities for bringing value to customers and for delivering that value at a profit.

(Normann; Ramírez 1993)

Nowadays, strategy is embodied in a business model.

## **Business Model**

#### An early definition:

- An architecture for the product, service and information flows, including a description of the various business actors and their roles; and
- A description of the potential benefits for the various business actors; and
- A description of the sources of revenues.

(Timmers 1998)

## **Recent Research on Business Models**

Many new proposals (Canvas, Blue Ocean, Open Innovation,...)

A review reveals:

- No agreement on what a business model is, but common themes
- A dominant unit of analysis,
- Holistic system-level approach,
- A system of boundary-spanning activities,
- Emphasis on value creation.

(Zott, Amit, Massa 2011)

# **Building Internet-based Business Models**



# **Categorization of Internet Business Models**

- a) By participating parties,basic: (B2C, B2B) and more complex: (e.g., B2B2C)
- b) By offered service or product
  - Brokerage Affiliate
  - Advertising Community
  - Infomediary Content
  - Merchant Utility
  - Manufacturer

(Rappa, 2000/ Timmers, 1998)

### **Elements of a Business Model**

Components of a Business Model	Relating questions
Customer value	Is the firm offering its customers something distinctive or at a lower cost than its competitors?
Scope	To which customers (demographic and geographic) is the firm offering this value? What is the range of products / services offered that embody this value?
Pricing	How does the firm price the value?
Revenue source	Where do the dollars come from? Who pays for what value and when? What are the margins in each market and what drives them? What drives value in each source?
Connected activities	What set of activities does the firm have to offer this value and when? How connected (in cross section and time) are the activities?
Implementation	What organizational structure, systems, people, and environment does the firm need to carry out these activities? What is the fit between them?
Capabilities	What are the firm's capabilities and capabilities gaps that need to be filled? How does a firm fill these capabilities gaps? Is there something distinctive about these capabilities that allows the firm to offer the value better than other firms and that makes them difficult to imitate? What are the sources of these capabilities?
Sustainability	What is it about the firm that make it difficult for other firms to imitate it? How does the firm keep making money? How does the firm sustain its competitive advantage?

# **Customer Value, Scope**

#### **Customer value**

- Differentiation
  - Product features
  - Timing
  - Location
  - Service
  - Product mix
  - Linkages
  - Brand reputation
- Cost/ price advantage

#### Scope

in terms of customers and products served

## Price

- Menu
- One-to-One
- Auction
- Reverse Auction
- Barter

# **Revenue Sources, Connected Activities**

#### **Revenue sources**

• Products, services, advertisement, ..., exit

#### **Connected Activities**

Choose activities which:

- Are consistent with customer value and the scope of customers served.
- Reinforce each other.
- Take advantage of industry success drivers.
- Are consistent with distinctive capabilities that the firm has or wants to build.
- Make the industry more attractive for the firm.

Timing:

- What are the characteristics of the industry at this stage of the life cycle and what will they be down the line?
- What are existing competitors doing and what are potential ones likely to do?
- Are the activities consistent timewise?

# Implementation

- Structure
- Systems
- People
- Innovation
- Organizational culture

# **Capabilities, sustainability**

#### Capabilities

- Resources
- Competencies
- Competitive advantage

#### Sustainability

- Block strategy
- Run strategy
- Team-up strategy

### **Who Profits from Innovation?**

oility	High	I. Difficult to make money	II. Holder of complementary assets makes money
Imital	Low	IV. Inventor makes money	III. Party with both technology and assets or with bargaining power makes money
		Freely Available or Unimportant	Tightly Held and Important
		Complementary	Assets

### **Strategies for Building Business Models**

oility	High	I. Run	<ul> <li>II.</li> <li>Team-up</li> <li>Joint venture</li> <li>Strategic alliance</li> <li>Acquisition</li> <li>Internal development</li> </ul>
iital		IV.	III.
Im		Block	Block
			Team-up
	Λ		-Joint venture
	Lov		-Strategic alliance
			-Acquisition
		Freely Available or Unimportant	Tightly Held and Important

#### **Complementary Assets**

### **Business Model Appraisal**

Level 1	Profitability measures
	-Earnings -Cash flow
Level 2	Profitability predictor measures
	-Margins -Market share -Revenue share growth rate
Level 3	Component attribute measure
	<ul> <li>-Value</li> <li>-Scope</li> <li>-Price</li> <li>-Revenue</li> <li>-Activities</li> <li>-Implementation</li> <li>-Capabilities</li> <li>-Sustainability</li> </ul>

# **Appraisal Based on BM Components**

Business Model	Business Model Benchmark Questions	
Component		
Customer value	Is customer value distinct from that of competitors? If not, is the	H/L
	firm's level of value higher than that of competitors? Is the firm's	
	rate of increase in customer value high relative to that of	
	competitors?	
Scope	Is the growth rate of market segments high? Is the firm's market	H/L
	share in each segment high relative to that of competitors? Is	
	potential erosion of products high? If so, in what segments?	
Price	Is the quality-adjusted price low?	H/L
Revenue source	Are margins and market share in each revenue source high?	H/L
	Are margins and market share in each revenue source increasing?	
	Is the firm's value in each source of revenue distinctive? If not, is	
	the level of value higher than that of competitors?	
Connected activities	What is the extent of which activities:	H/L
	Are consistent with customer value and scope?	
	Reinforce each other? Take advantage of industry success drivers?	
	Are consistent with the firm's distinctive capabilities?	
	Make the industry more attractive for the firm?	
Implementation	Is quality of the team high?	H/L
Capabilities	To what extent are the firm's capabilities:	H/L
	Distinctive? Inimitable? Extendable to other product markets?	
Sustainability	Has the firm been able to maintain or extend its lead in its industry?	H/L

# Financial Evaluation of a Business Model

## **Business Evaluation**

Discounted cash flow model

$$V = \sum_{t=0}^{t=n} \frac{C_t}{(1+r_k)^t}$$

Where

 $C_t$  is the free cash flow at time t, and  $r_k$  is the firm's cost of capital

 $C_t$  = Cash earnings (from income statement) – Cash investments (from balance sheet)

# **Calculation of Discount Rate**

Calculation of the discount rate  $r_k$  using the capital asset pricing model (CAPM)

 $r_k = r_f + \beta_i (r_m - r_f)$ 

 $r_f = risk-free rate$ 

 $r_m = market return$ 

 $\beta_i$  = systematic risk

# **Business Evaluation of Public Companies**

• **Price-earnings** (**P/E**) = 
$$\frac{P}{E}$$

• **Price-earnings growth** (**PEG**) =  $\frac{P/E}{growth rate in \%}$ 

## **Profits/Cash Flow Chain of an Internet Service Provider**



### **Book and market value**

- Book value = Assets Liabilities
- Market value = Shares outstanding \* Share price
- Intellectual capital = Market value Book value

# Value Configuration

• Value chain

transformation of materials into tangible products

• Value shop

combination of various services on demand

Value network

connects independent actors through an intermediary service

# Case: Amazon goes from eShop to eMall

## **Amazon Timeline**

July 1995	Amazon begins selling books online
May 15, 1997	Amazon goes public
March 1998	Amazon.com Kids books available on the Web
June 11, 1998	Amazon diversifies to include CDs
August 4, 1998	Amazon purchases Junglee Corp. and PlanetAll
November 16, 1998	Amazon introduces video and gift stores
March 29, 1999	Amazon releases its auction site to counter eBay
July 1999	Amazon opens toys and electronics stores
September 29, 1999	Amazon announces zShops

Source: Afuah, Tucci, 2001. Based on: Seattle Times; Amazon.com press releases.

#### **Amazon versus Barnes & Noble**

	Amazon	Barnes & Noble
Number of stores	1 website	1.011
Titles per superstore	3.1 million	175.000
Book returns	2%	30%
Sales growth*	306%	10%
Sales per employee	\$375.000	\$100.000
(annual)		
Inventory turnovers	24	3
per year		
Long-term capital	Low	High
requirements		
Cash flow	High	Low

\*Third quarter. 1998.

Source: Business Week, December 14, 1998, www.businessweek.com/1998/50/b3608006.htm

#### **Amazon Financials**

AMAZON.COM INC

Annual Income Statement

(in millions except EPS data)

Fiscal Year End for AMAZON.COM INC (AMZN) falls in the month of December.

12/31/98	12/31/97	12/31/96	12/31/95
Sales	147.76	15.75	0.51
Cost of goods	118.94	12.29	0.41
Gross profit	28.81	3.46	0.10
Selling and administrative, and depreciation			
and amortization expenses 195.62	58.02	9.44	0.41
Income after depreciation and amortization	(29.21)	(5.98)	(0.30)
Nonoperating income	1.90	0.20	0.00
Interest expense	0.28	0.00	0.00
Pretax income	(27.59)	(5.78)	(0.30)
Income taxes	0.00	0.00	0.00
Minority interest 0.00	0.00	0.00	0.00
Investment gains/losses 0.00	0.00	0.00	0.00
Other income/charges 0.00	0.00	0.00	0.00
Income from continuing operations N/A	N/A	N/A	N/A
Extras and discontinued operations 0.00	0.00	0.00	0.00
Net income	(27.59)	(5.78)	(0.30)
Depreciation Footnote:			
Income before depreciation and amortization	(24.47)	(5.69)	(0.29)
Depreciation and amortization (cash flow) 12.07	4.74	0.29	0.02
Income after depreciation and amortization	(29.21)	(5.98)	(0.30)
Earnings Per Share Data (EPS):			
Average no. of shares	260.68	271.86	227.20
Diluted EPS before nonrecurring items (0.25)	(0.10)	(0.02)	(0.00)
Diluted net EPS	(0.10)	(0.02)	(0.00)

Source: Afuah, Tucci, 2001.

Based on: Zacks Investment Research, n.D.

### **Amazon Trademarks**

#### **Amazon Properties**

**Excerpt of new trademarks** 

Trademark No.	Description
75-775431	Book-ology
75-770523	zShops
75-765373	Quickclick
75-765372	Powerclick
75-765371	First Bidder Discount
75-765370	Crosslinks
75-765369	Charitylinks
75-765367	2-Click
75-765366	0-Click
75-760190	Crosslinks

Source: www.companysleuth.com/askjeeves/index.cfm?INFO=AMZN

### **Amazon's U.S. Book Sales and Growth Rate**



Source: Afuah, Tucci, 2001.

Based on: Mark J, Rowan. "Amazon.com Inc.: Prudential Securities Research Report. September 23. 1999. p.12.

### zShops

#### **Purchasing Procedure**



- 1. Customer places order in Amazon's zShop website.
- 2. Amazon processes order and notifies zShop stores.
- 3. zShops stores deliver the product directly to customer.

# **Business Model Elements I**

#### **Customer value (consumer)**

Convenience of the one-stop shopping

Reliability and credibility

Guarantee by Amazon

#### **Customer value (merchants)**

Brand recognition

Access to a large customer base

E-commerce package from Amazon

Guarantee and credibility

Access to Amazon's client database

#### Value to Amazon

Additional stable source of revenue to increase profitability by means of the subscription model Customer information

### **Revenues**

#### **Revenues from New and Repeat Customers**



# **Business Model Elements II**

#### **Pricing (1999)**

Amazon:	5% for \$0-\$25, 2.5% for \$25-\$999, and 1.25% for 1,000 and over.
eBay:	Sliding listings fee based an the opening bid; then receives a final
	fee of between 1.25% and 5% of the selling price.
MSN:	1.5% and 5%, based on the purchase price.

Source: Compiled from each company's website.

#### **Revenue source (1999)**

A: Hosting fee	\$9.99 per month (for up to 3,000 products)
<b>B:</b> Transaction commission	
Order size	Commission (%):
- Less than \$ 25	5.0%
- \$25 to \$1,000	2.5%
- Over \$1,000	1.25%
C: 1-Click service fee	4.75% of price and \$0.60 per each transaction

Source: www.amazon.com.

# Value Network Components for Amazon as Intermediary

Network promotion and contract management

- $\cdot\,$  Brand name and awareness
- $\cdot$  Customer acquisition
- · Merchant acquisition
- · Merchant monitoring and evaluation

Service provisioning

- · Providing recommendations based on interests or previous purchases
- · Wide range of products
- $\cdot$  Convenience
- · Reliability
- · Guarantee

Infrastructure operation

- $\cdot$  Consumer interface
- · Knowledge database
- · Technological infrastructure
- · Logistics expertise (although this would not be the primary source of value)

## **Complementary Assets**





# Appraisal

#### **Appraising the Move to Retailer + Intermediary Models for Amazon**

Component	Pure Retailer	Retailer + Market
		Maker
Customer value	High	High
Scope	High	Medium
Revenue source	Low	Medium
Pricing	Low	Medium
Connected activities	Low	Low, or worse
Capabilities	High	High
Sustainability	Low	Medium
Implementation	High	High
Value Configuration	Value Chain	Value Network
# **Risks**

• Vicious circle of customer and zShop participation



#### • Brand erosion

# Actions to contain risk

#### $\rightarrow$ Develop a large high quality zShop network:

 $\rightarrow$  Obtain the best players in the categories.

 $\rightarrow$  Establish relationships with branded product manufacturers.

#### →Protect brand name and reputation:

- $\rightarrow$  Liberally live up to guarantee.
- $\rightarrow$  Exercise due diligence in the selection of participants.
- $\rightarrow$  Remove negligent zShops merchants from the network.

# Case: YOC – Mobile Commerce

# **Company Creation and Business**

**Start:** YOC (Your Opinion Counts) was started in 2000

Founders: Two former consultants from Roland Berger

**In 2012:** 220+ employees, 7 locations (EU, USA), 20000 mobile sites, 300 int. publishers, 5 billion Ad Impressions

#### **Business segments:**

1. Mobile marketing

Conception and conduct of marketing campaigns on mobile phones and i-pads, maintenance of mobile websites

2. Affiliate Marketing

Manage a network of publishers (affiliates) and advertisers

3. Mobile B2C Services

Sell mobile content (e.g., games, ringtones) to end consumers

# **YOC** – Activities

Mobile ad formats:YOC Classic AdsYOC Video AdsYOC Interactive Ads



Affiliate marketing:



# **YOC Business Segments**

#### The YOC Group is market leader in its core business Mobile Marketing



Source: YOC Group (2009): Deutsches Eigenkapitalforum, p. 4

# **SWOT** Analysis

Company	
Strengths	Weaknesses
<ul> <li>YOC serves several of the world's most prestigious brands</li> <li>Proven track record (sales CAGR '01- '05 45%, profitable and FCF positive for since 2004 (founded in 2000)</li> <li>Successful at generating repeat business with existing customers</li> <li>Successful at winning new customers</li> <li>Proven technical platform</li> </ul>	<ul> <li>Small size</li> <li>Limited scalability of core business mobile marketing</li> <li>Customer concentration (three largest customers accounted for 41% of '05 sales)</li> <li>Dependence on key personnel</li> </ul>
Future opportunities for investment	Future risks for investment
<ul> <li>Grow sales internationally, service new industry segments (automotive)</li> <li>Accelerate growth of B2C mobile content business by building a monthly subscriber base</li> <li>Use small base in affiliate marketing to take this business model mobile</li> </ul>	<ul> <li>Fluctuations in business activity from quarter to quarter</li> <li>Increasing competition from established ad agencies</li> <li>Success of B2C and affiliate marketing uncertain (but both are off to a good start)</li> </ul>

Source: YOC Technology (2006): Mobile Marketing at the start of its growth cycle, p. 7

# **Industry Analysis of Competitive Forces**

Industry	Average score 4.8 Scoring range 1-10 (high score is good)	
Power of suppliers 9 Low and stable		New entrants 3 Low and stable
Prices for SMS, MMS and mobile data generally are on a downward trend benefiting YOC	Rivalry3HighSome established agencies cooperate with YOC, others may decide to build their own	Market still in early stage of development, however, barriers of entry getting higher every year
Substitute products8Low and stableMobile marketing complements and substitutes other forms of direct marketing not vice-	mobile marketing skills (they need to overcome important technology barriers). Neo- media Inc. acquired three key competitors in Q1 2006	Power of customers1HighCustomers can and do dual or even triple source.They pay for creativity and quality of service but have
direct marketing not vice- versa		quality of service but hav pricing power.

Source: YOC Technology (2006): Mobile Marketing at the start of its growth cycle, p. 7

# **Development of Profits by Segment**



Distribution of sales by segments in %



Source: YOC Group (2009): Passion for mobile, p. 67

# **Development of Profits by Country**

Sales by country (in Mio. EUR)	2009	2008
Germany	21.1	20.3
Great-Britain	2.2	1.1
Belgium	1.2	1.3
Austria	0.7	0.5
Spain	0.5	0.0
USA	0.2	0.0
Other	0.2	0.4
Total	26.1	23.6



Distribution of sales by country in %

Source: YOC Group (2009): Passion for mobile, p.69

# **YOC:** A full service provider for mobile marketing



Source: Jelassi, T.; Enders, A.(2008): Strategies for E-Business - Creating value through electronic and mobile commerce, 2nd Edition, London.

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# YOC's "Buy-a-Player" campaign for Coca-Cola



Source: Jelassi, T.; Enders, A.(2008): Strategies for E-Business-Creating value through electronic and mobile commerce, 2nd Edition, London.

# FYOC's campaign for Ford Motor Company



Source: Jelassi, T.; Enders, A.(2008): Strategies for E-Business-Creating value through electronic and mobile commerce, 2nd Edition, London.

# H&M store opening: Moving customers to the POS through mobile couponing



Source: Jelassi, T.; Enders, A.(2008): Strategies for E-Business-Creating value through electronic and mobile commerce, 2nd Edition, London.

# **Business Model Elements I (mobile marketing)**

# **Customer value for advertisers**

- Access to YOC's mobile addresses database
- Access to YOC's network of owned and managed mobile sites
- Access to YOC's publishing partners
- Technological know-how
- Convenience of the one-stop shopping
- Reliability and credibility

# **Business Model Elements II**

# Pricing

45-65 € CPM, depending on channel (sports, finance, etc.) or particular mobile site

# **Revenue source**

Fees from advertisers for campaign conception and implementation

Fees for site management

# **YOC's Revenues and EBITDA**

The EBITDA growth of over 320% within four years is backed up by a 345% increase in turnover



Source: YOC Group (2009): Deutsches Eigenkapitalforum, p. 5

# Value configuration

# Service provisioning

- Wide range of services
- Convenience
- Reliability
- Guarantee
- Large mobile addresses base of potential target customers
- Publishers network
- Infrastructure operation
- Technological infrastructure
- Own websites
- Managed websites

# **Complementary Assets**

Viability of YOC's Strategy



# **Appraisal of YOC's Business Models**

Component	Mobile	Mobile B2C	Affiliate
	Marketing	Services	Marketing
Customer value	High	Low	Low/Medium
Scope	High	Low	Medium
Revenue source	High	Low	Medium
Pricing	High	Low	Medium
Connected	High	Low	Medium
activities			
Capabilities	High	Medium	High
Sustainability	High	Low	Medium
Implementation	High	Low	Medium
Value	Value Shop	Value Chain	Value
Configuration			Network

# **Contain Risks**

- $\rightarrow$  Maintain large enough mobile marketing network
- → Maintain large enough database of mobile addresses with permission to receive ads
- $\rightarrow$  Maintain technology leadership

# Development of the YOC stock in 2013 in comparison with the TecDAX



# Business Model Visualization, the Canvas Approach

## **Business Model Canvas by Osterwalder and Pigneur**

Key Partners	Key Activities	Value Proposition		Customer Relationships	Customer Segments
Who are our Key Partners? Who are our key suppliers? Which Key Resources are we acquiring from partners? Which Key Activities do partners perform?	What Key Activities do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue streams? Key Resources What Key Resources do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue Streams?	What value do the customer? Which one of c problems are w helping to solv What bundles and services an offering to eac Segment? Which custom we satisfying?	we deliver to our customer's e? of products re we h Customer er needs are	What type of relationship do our Customer Segments expect us to establish and maintain with them? Which ones have we established? How costly are they? Channels Through which Channels do our Customer Segments want to be reached? How are we reaching them now? Which Channel s work best?	For whom are we creating value? Who are our most important customers? <i>Mass Market</i> <i>Niche Market</i> <i>Segmented</i> <i>Diversified</i> <i>Multi-sided Platform</i>
Cost Structure			Revenue Streams		
What are the most important co	osts inherent in our business mode	el?	For what valu For what do t	e are our customers really willing hey currently pay?	g to pay?
Which Key Resources are most	t expensive?		How are they	currently paying? How would th	ey prefer to pay?
which Key Activities are most	expensive?		How much do	bes each Revenue Stream contrib	ute to overall revenues?

# **Design principles**

- 1. Draw the existing BM.
- 2. Form a team with participants from all parts of the value chain.
- 3. Analyze and understand what are the weaknesses and the options of the existing BM.
- 4. Develop the five generic BM-patterns (Unbundling, Long Tail, Multi-Sided Platform, Free, Open).
- 5. Construct from them a number of BM-prototypes and test them under the real market conditions.
- 6. Implement the best prototype and determine the following actions for a BM-innovation.

# **Business model development for E-Services**

- Environment analysis
- Competition analysis

# • Customer segmentation:

- *1. Connectivity Concept: willingness to pay vs. connectivity awareness* → *"The Simpsons Characters"*
- 2. Sinus Milieus: weighting of factors of WTP and CA  $\rightarrow$  Milieus
- 3. Heating habits: Indifferent, Control-oriented, Technology Nerd → customer groups
- 4. Socio-demographic factors: age, marital status, behavior  $\rightarrow$  refined customer groups
- 5. Empathy maps for each customer group
- Creation of the product offering: Value Proposition Design
- Packages and Functions (development plan)
- Price setting and market estimation (Revenue Streams)
- The new business model for E-Services

# **Existing Business Model**

Key Partners	Key Activities	Value Proposition		Customer Relationships	Customer Segments
Plumbers	Workshops and trainings for plumbers	Technology- premium sys	oriented tem solutions	Plumbers Customer-Learning	<i>B2B</i> :
Wholesale	<b>Production &amp;</b> development	Easy to insta solutions	ell standard	personal advice in local offices	Plumbers Wholesale
		Reliability: h	nigh quality	Service hotline	DADAC
	Key Resources	Decision flex product rang	cibility: wide ge	Channels	B2B2C: Old house
	Brand Technological know-bow	Ease of use:	quiet,	Own distribution facilities	New house
	Distribution	comfortable	climate	parties	Old apt.
	Own production facilities			Plumbers	New apt.
Cost Structure			Revenue Streams		G
Component suppliers Production & developmen	Marketing nt Own distrib	oution	Sale of pr Commiss Spare par	roducts: heating system + oth ioning + service rts	ner equipment



IoTS & Smart Home are key trends in the industry. Market offers classic heating solutions with E-Services. Industry is influenced by energy efficiency legislation.

# **Competition Analysis**

Price Functionality Comparison of Traditional Players and Newcomers



# **SWOT Analysis**

Strenths	Weaknesses
• Brand awareness: Buderus, Junkers	• Lacking contact to end users
• Production capacities: Equipment, staff	• Obscure internal processes and their execution
Technical know-how	• Low competitive differentiation of core products
• Predictable resource requirements and fixed costs	• Weak influence over the distribution channel
structure	• Very high production costs and lower margins on core products
• Established distribution channels with loyal brand followers	<ul> <li>The entire value chain is in-house → no usage of partner- network</li> </ul>
Opportunities	Threats
<ul><li><i>Opportunities</i></li><li>Better integration and personalization of offerings via</li></ul>	<ul><li><i>Threats</i></li><li>Bad price performance position</li></ul>
<ul> <li>Opportunities</li> <li>Better integration and personalization of offerings via connectivity options</li> <li>Entry into Smart Home business with offering of the</li> </ul>	<ul> <li><i>Threats</i></li> <li>Bad price performance position</li> <li>Legal provisions (renewable energies and CO2-reduction) create technological pressure</li> </ul>
<ul> <li>Opportunities</li> <li>Better integration and personalization of offerings via connectivity options</li> <li>Entry into Smart Home business with offering of the "Solution from a single source"</li> </ul>	<ul> <li><i>Threats</i></li> <li>Bad price performance position</li> <li>Legal provisions (renewable energies and CO2-reduction) create technological pressure</li> <li>Strong dependence on plumbers</li> </ul>
<ul> <li>Opportunities</li> <li>Better integration and personalization of offerings via connectivity options</li> <li>Entry into Smart Home business with offering of the "Solution from a single source"</li> <li>Establishment of relationship to end customers via: E-Commerce, E-Services and CRM automation – data mining, premium services und networking</li> </ul>	<ul> <li><i>Threats</i></li> <li>Bad price performance position</li> <li>Legal provisions (renewable energies and CO2-reduction) create technological pressure</li> <li>Strong dependence on plumbers</li> <li>Progressive reduction of market share</li> </ul>

# **Customer segmentation for E - Services**

Differentiation of customers based on two characteristics:

• Willingness to pay: How much is the customer ready to spend on a high quality product?



• Connectivity awareness: How familiar is the customer with possibilities of the modern information and communication



technologies?





# **Sinus Milieus**





# **Customer segmentation B2B2C**

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potential customers
## **Distribution of Sinus Milieus by House Ownership in DE**



# **Typology of Heating**

Warmth and cold perception differs from individual to individual

Noticeable differences in fundamental attitudes towards heating were observed

Three basic types:

- The Indifferent: does not want to deal with heating
- **The Control-oriented**: wishes to be one hundred percent informed about functioning of his heating system at any time
- **The Technology Nerd**: wants to exploit any manipulation possibility which the control unit can provide

#### **Segments Based on Sinus Milieus and User Experiences**



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# **Empathy Map: Patrick, the Indifferent**



# **Empathy Map: Philip, the Technology Nerd**







In case that 20 % of target segment and 5 % of the other segments are acquired as customers, it will be possible to sell 1,600 packages annually.



Packages Start und Saving with medium development costs can generate revenue > 500,000 € revenue in the first year

### **Business Model for E-Services**

Key Partners	Key ActivitiesImage: Constraint of the second of the seco	Value Proposition E-Services t individual a for each of t customer gr	hat provide dvantages the oups	Customer Relationships Image: Comparison of the second	Customer Segments Image: Customer Segments   B2B2C: 1)Indifferent   1)Indifferent 2)Saving- oriented   3)Control-oriented 3)Control-oriented   4)Comfort-oriented 5)Technology nerd
Cost Structure Development costs Current costs	Revenue StreamHardware production Distribution marketingSub:		Revenue Streams E-Servic Package Subscrip	es: Sale (Start, Saving, Comfor tion (Comfort Plus, Smart)	r)