

Accelerating Biometrics Market Development Workshop Session Two Process & Tools: Practical Applications

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Accelerating Market Development Workshop

- Session One Context, Concepts & Strategy: Identify, Prioritize, Dominate
 - Market Development Model
 - Market Phase Strategies
 - Niche Markets and The Bowling Alley

Session Two Process & Tools: Practical Applications

- Internal Inventory
- Targeting Opportunities & Sizing Niches
- Whole Product Solutions & Market Penetration Planning



Accelerating Market Development Process & Tools

- Review of Session One
- Internal Inventory
- Vertical Segmentation
- Identifying & Prioritizing Targets
- Sizing Targets
- Defining & Selecting Niches
- Whole Product Solutions
- Strategic Alliances
- The Elevator Test
- GO TO Market



Review of Session One

- Technology Adoption Lifecycle
- Market Development Model
- Market Phase Strategies
 - Early Market Finance Your Core Technology With Specials
 - Chasm Choose a Beachhead 2 3x Annual Revenue
 - Bowling Alley Leverage Niche Market Whole Products
 - Tornado Forget The Customer and JUST SHIP IT to establish Dominance
- Niche Marketing in the Bowling Alley
- Leveraging Economies of Knowledge©

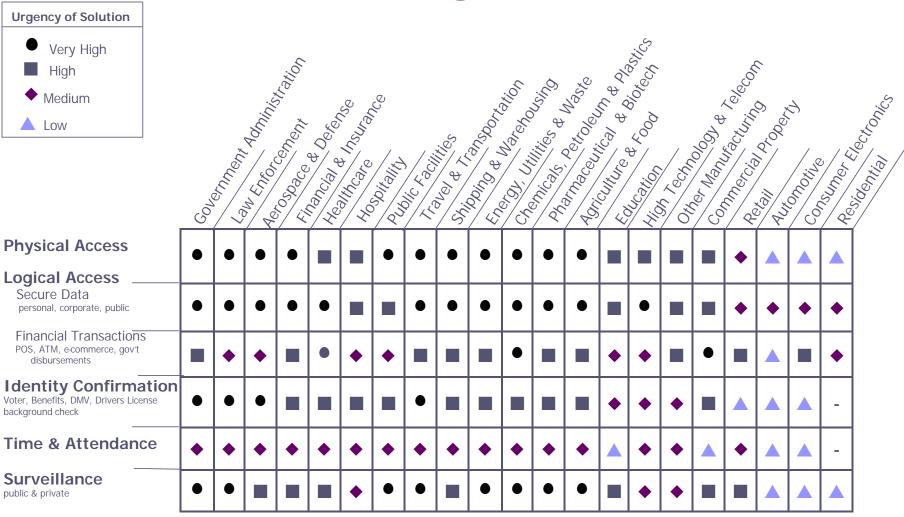
MARKET INTELLIGENCE

Internal Inventory Identify Specific Leverage Points

- Skills, Expertise
- Industry Knowledge
- Industry Contacts
- Strategic Relationships
- Targeted Technology
- Established Customers

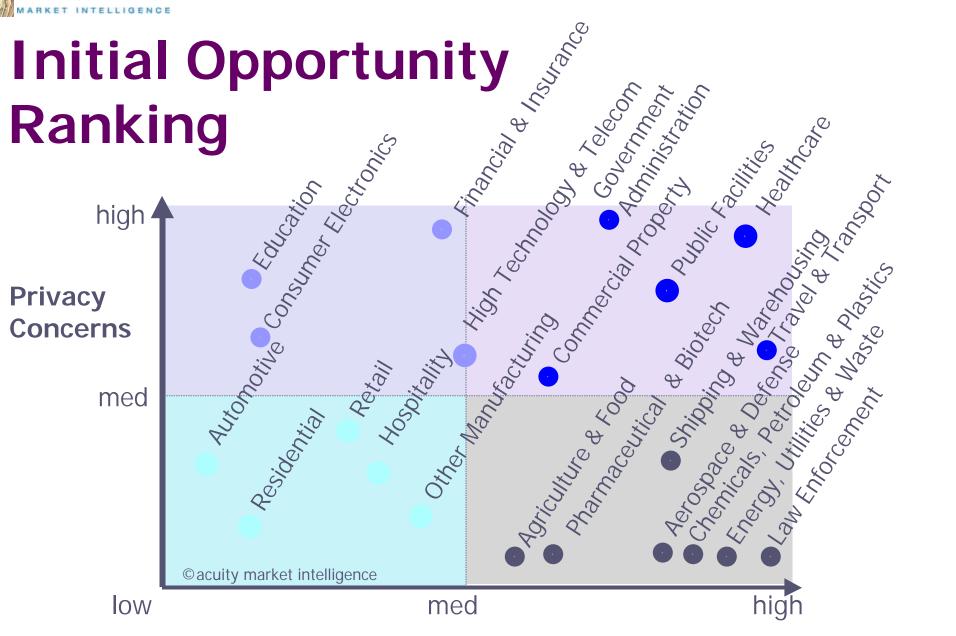


Vertical Segmentation



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Markets Are Self Selecting

Market:

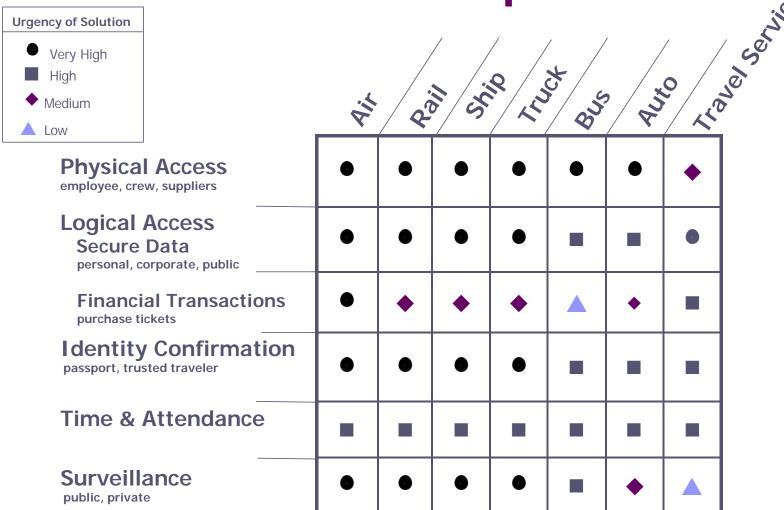
- a set of actual or potential customers
- for a given set of products or services
- who have a common set of needs or wants, and
- who reference each other when making buying decisions

Two individuals/organizations buying the same product for the same reason that have no way to reference each other are not part of the same market.

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Industry Sectors: Travel & Transportation





Market Segments: Air Travel & Transportation

Urgency of Solution Very High High Medium	200	Nic. Polimeto.	Alifort Public	Mr Pijer	Man Access		Soul Findley		18/20/20/20/20/20/20/20/20/20/20/20/20/20/		Airli, Wall	7. 4. 4. 10 (V. 10)	SD
Low	FILE	4	A A	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	/ 20	/ Fills		/ 0	/ 🗞	1	/ KILL	1250	
Physical Access employee, crew, suppliers	•	•	•	•	-	•	•	•	•	•	•	-	
Logical Access Secure Data personal, corporate, public	-	-	-	-	•	•	•	•	-	-	•	•	
Financial Transactions reservations, ticketing	-	-	-	-	•	-	-	•	-	•	-	•	
Identity Confirmation passport, trusted traveler	-	-	-	-	•	•	•	•	-	-	•	-	
Time & Attendance	-	-	-	-	-		-	-	-	-		•	
Surveillance public, private	•	•	•	•	•	•	•	•	•	•	•	A	



Industry Sectors: Financial Services

Market Sector Matrix

by mode of interaction

Priority or Solution						
Very High						
High						
◆ Medium						
Low						

Driority of Solution

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Branch/Office	Customer				•	-	-		
	Employee	•	•	•	•	•	•	•	•
ATM/Kiosk	Customer				•	A	-	-	•
	Employee	-	-	-	-	-	-	-	-
POS Terminal	Customer	-	1	-	1	•	•	-	•
	Employee	-	-	-	-	-	-	-	-
Electronic/ Online	Customer	•	•	•	•	•	•	•	•
	Employee	•	•	•	•	•	•	•	•
Phone	Customer						•		•
	Employee	•	•	•	•				



Market Segments: Financial Services Application Matrix

Generalized Across Market Sectors by Interaction Mode and End-User: Banks, Savings & Loans, Credit Unions, Brokerages, Credit Card Companies, Insurance, Transaction Processing, Retail

Priority of Solution
Very HighHigh
◆ Medium
Low
Physical I

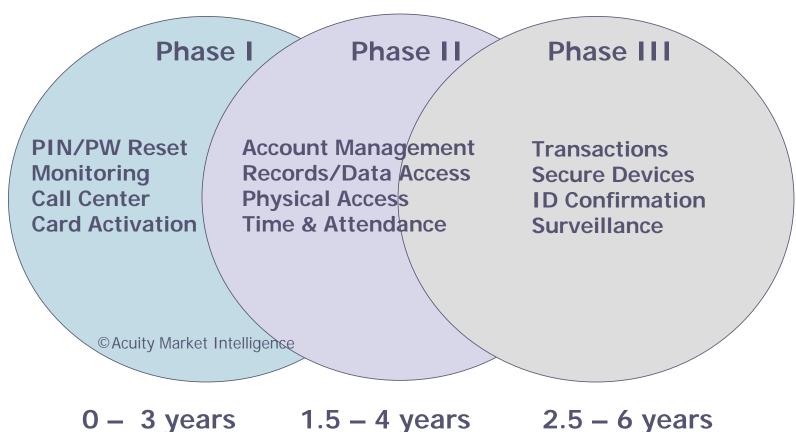
Medium	Bran Offi		ATM/	Kiosk	PO Terr	S ninal		tronic nline	Pho	ne
Low	<u>C*</u>	E**	С	Е	С	E	С	Ε	С	E
Physical Access	•		-	-	-		-	-	-	-
Logical Access Secure Data personal, corporate, public		•		-	-	-	•	•		•
Financial Transactions POS, ATM, e-commerce		•	П	-	•	-	•	•		•
Identity Confirmation background check	-	•	-	-	•	-	-	-	-	-
Time & Attendance	-	•	-	-	-	-	-	-	-	-
Surveillance public & private	*0	•		-	-	-	-	- ⊜au	– uity market	- intelligence

*C = Customer, **E = Employee



Prioritizing Opportunities

Voice Authentication Application Timeframe

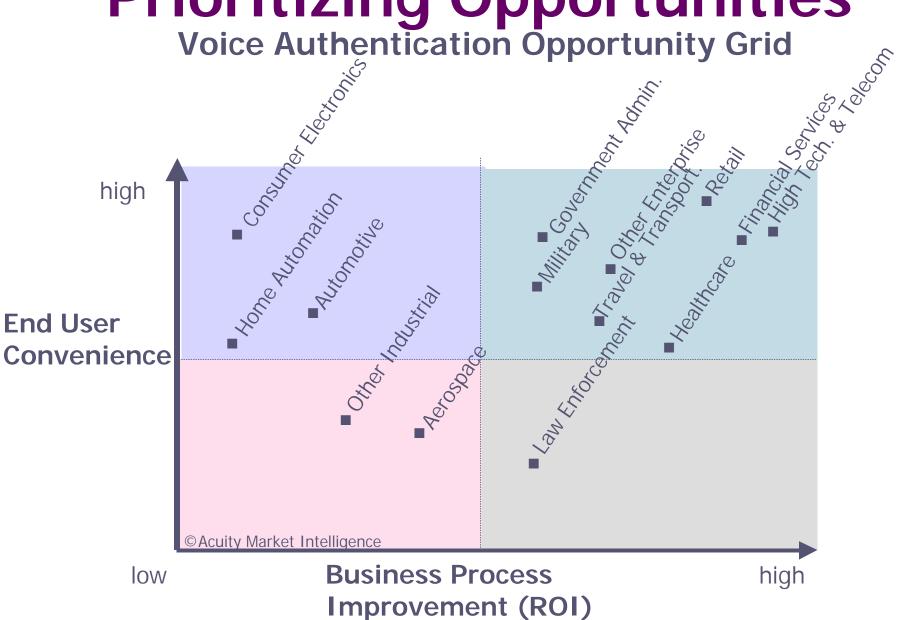


1.5 – 4 years

2.5 - 6 years



Prioritizing Opportunities



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April 2002



Target Segment Sizing

Airport Private Access Example U.S. DOT Data

Airport	Number	Estimated	Total # of	Gross Biometric
Type	of	Ave. #	Secured	Revenue @
	Airports	Secured	Access	\$1500 per
		Access	Points	Secured Access
Large hub	31	1000	31,000	\$46,500,000
Medium Hub	35	500	17,500	\$26,250,000
Small Hub	71	100	7,100	\$10,650,000
Non Hub	282	50	14,100	\$21,150,000
TOTAL	419		69,700	\$104,550,000

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Target Segment Sizing

Transaction-Based Revenues (Volume)

US Consumer Payment Mechanisms - Volume in \$Trillions							
	2000	%	2005	%	2010	%	
Cash	1	19	1.45	21,5	1.5	17.7	
Checks	2.41	46	2	29.8	1.74	20.5	
Cards	1.6	30.6	2.54	37.6	3.92	46.4	
Electronic	0.22	4.2	0.74	11.1	1.3	15.4	
Total	5.23	100	6.73	100	8.46	100	

US Biometric Payment Market - Revenue on Volume						
	2005	2010				
Authenticated Transaction	\$5,280,000,000,000	\$6,960,000,000,000				
Volume (excludes cash)						
Market Penetration	10%	30%				
Biometric Transaction Base	\$528,000,000,000	\$2,088,000,000,000				
.05% fee on volume	\$264,000,000	\$1,044,000,000				
US as Percent of World	44%	35%				
BASP Revenue	\$600,000,000	\$2,982,000,000				



Target Segment Sizing Transaction-Based Revenues (Transactions)

US Consumer Payment Mechanisms - Transactions in Billions							
	2001	%	2005	%	2010	%	
Cash	51	34	55	34.2	62	34	
Checks	64	42	60	37.3	49	27	
Cards	32.5	22	41	25.5	59.5	33	
Electronic	2.5	2	5	3	10.5	6	
Total	150	100	161	100	181	100	

US Biometric Payment Market - Revenue on Transactions						
	2005	2010				
Authenticated Transactions (excludes cash)	106,000,000,000	119,000,000,000				
Market Penetration	10%	30%				
Biometric Transaction Base	10,600,000,000	35,700,000,000				
.025 \$ per transaction	\$265,000,000	\$1,785,000,000				
US as Percent of World	44%	35%				
BASP Revenue	\$602,000,000	\$2,550,000,000				



Selecting Niches

- Don't Be Fooled by 911 Market Hype
- Maximize Internal Leverage Points
- Look To Low or No Hype Opportunities
- Minimize Competition
- Consider The Entire Bowling Alley to Create Market Development Map
- Evaluate Quantifiable Data
- Don't Rely on Broad Based Market Projections
- Sub-segment Large Targets
- PICK TARGET MARKETS WITH MONEY



Towards Whole Product Solutions

We do not have, nor are we willing to adopt, any discipline that would ever require us to stop pursuing any sale at any time for any reason

Create a marketplace where your product is the only reasonable buying proposition

A GAP exists between the <u>marketing promise</u> made to customers – VALUE PROPOSITION - and the ability of the shipped product to fulfill that promise. To overcome this GAP, products must be augmented by services and ancillary products to become a WHOLE PRODUCTS!!!!



Whole Product Solutions

Gap Between Value Proposition and Delivered Product

- Complete Set of Products & Services Needed For Customer to Achieve Results
 - Generic "In The Box" or Defined in Purchase Agreement
 - Expected Minimum Configuration to Achieve Buying Objective
 - Augmented Maximum Chance of Meeting Buying Objective
 - Potential Incorporates Ancillary Products & Enhancements
- Resource Intensive so MUST be Strategic and Limit to 1 or 2 Niches
- Leverage Partners and Allies But Don't Rely on Them

Pragmatists DEMAND Whole Products



Strategic Alliances

Assemble The Attack Force

- All Other Industry Players Should BE Considered Allies Until PROVEN OTHERWISE!!!!
- Good Relationships
 - Alignment of Purpose and Priorities
 - Clear Agreements, Communication, Trust, Accountability
- Types of Relationships

Co-Marketing, ISV, Sales Channel, VAR, OEM, System Integrator, Joint Venture



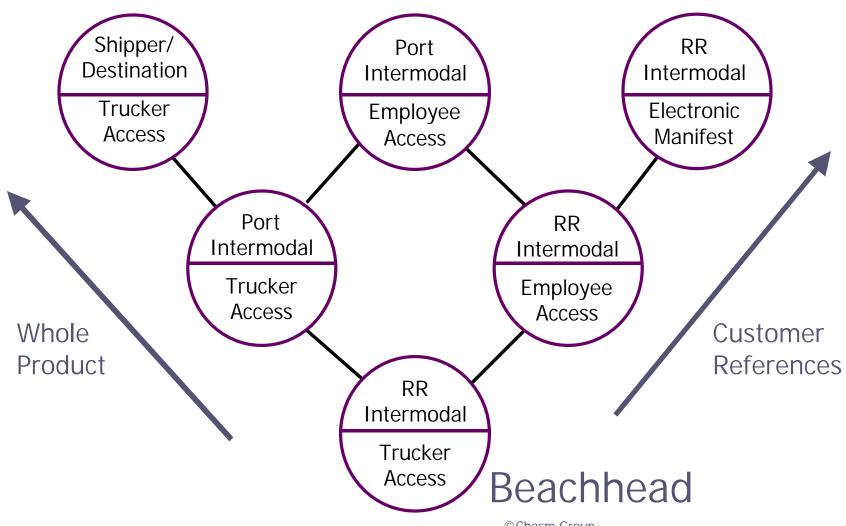
Define The Bowling Alley

- Beachhead is Key
- Displace Status Quo With New Technology
- Customer Application Defines Market
- Must Have Whole Product for Each Target Segment
- Restrained Competition Due to Whole Product Barriers
- Healthy Price Margins
- Value Added Distribution
- Goal: Keep Moving Toward Tornado Build Momentum

22



Set Up The Pins



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The Elevator Test

- For (target customers beachhead segment only)
- Who are dissatisfied with (the current market alternative)
- Our product is a (new product category)
- That provided (key problem-solving capability)
- Unlike (the product alternative) We have assembled (key whole product features for your specific application)



Case Study: Biometrica

- Solutions Provider Targeted Casinos
- Facial Recognition Surveillance Application
- Evolved Business Model
- Established Trusted Partner Status
- Leveraged Economies of Knowledge
- Bowling Alley: Introduced New Apps
 - Database Management
 - Networks
 - Digital Cameras and Video
- Dominated Market 100+ Installations
- Recently (re)Acquired by Viisage



MARKET INTELLIGENCE Go TO Market Plan

- **Identify Target Prospects**
- **Identify Industry Influencers**
- **Develop Positioning & Key Messages**
- **Define Tactics Along Acquisition Path**
 - Awareness First Contact
 - Interest Build Relationships
 - Desire (Preference) Trusted Resource
 - Action Reason TO Buy
- Create Sales & Marketing Tools
- Allocate Marketing Resources Judiciously

INVEST: Relationships, Targeted Info. & Analysis,

Targeted Events, Establishing Expertise

AVOID: Advertising, Expensive Collateral, Trade Shows



Exploit The Opportunity

- Goal is not to develop "best possible solution" but rather to develop "best solution possible"
- Divide and Conquer Segment, Target, Dominate
- Size and Rank Opportunities & Pick on Someone Your Own Size
- Refocus from selling products toward creating relationships
- Pragmatists will rally behind you and conspire to keep your competitors out
- As niche markets penetrated, solution perceived to be less of a niche product, momentum builds towards the Tornado.



Exploit The Opportunity

- Build an Organization that leverages Relationships
- Shift from Technology/Product to Market/Solution Focus
- Its Counterintuitive BUT RESIST Fall back to Sales Focus
- Compensate Sales Force to Pursue Niche Opportunities
- Define the Whole Product
- Pass the Elevator Test
- Multiple Small Scale Successes Builds Credibility and Momentum
- Be a Market Leader when the Tornado hits



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