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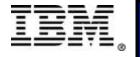
Transforming to e-Health: HIPAA is the Foundation for e-Business

Doing Business in New Ways

IBM Global Services National e-Business Strategy & Change







e-Business Paradigm

"Somewhere out there is a bullet with your company's name on it. Somewhere out there is a competitor, unborn and unknown that will render your business model obsolete...the hottest and most dangerous business models out there are on the web."

Fortune Magazine







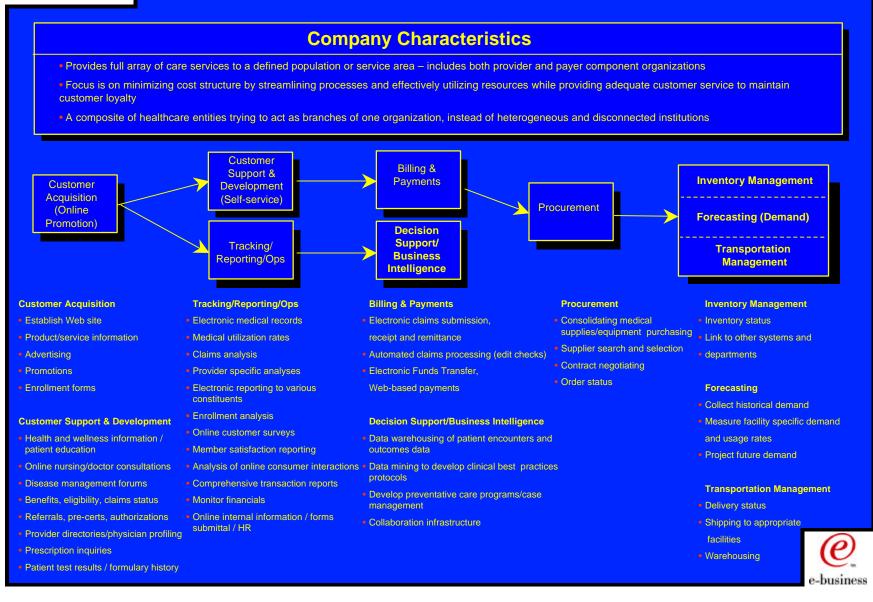
- Basic Roadmap and E-Line
- New Healthcare Models
- Healthcare Applications
- e-HIPAA: Value Added Proposition





Research Findings by Industry...Healthcare

Road map focus: Integrated payer-provider





Loyalty

Key Transformation Areas

Customer Relationship Management Value

Satisfaction

Deliver exceptional value addressing personal preferences, values,needs of customer.

Deliver appropriate range of supporting services. Deliver proactive recovery when things go wrong.

Deliver product or service at minimum expected level.

e-business

IBM.

Payor E-Line: Mainstream Capabilities

Enrollment, provider directories (members)
 Explanation of benefits, claims status
 Provider authorizations, referrals & eligibility
 Formularies, forms and provider directories
 Sales quotes & proposals
 Product configuration





Provider E-Line: Mainstream Functional Capabilities

- Claims submission via EDI
- EDI procurement versus supply chain management
- Static web sites
- Provider directories
- Call center with computer assistance versus customer relationship management (CRM)
- Limited on-line prescription writing



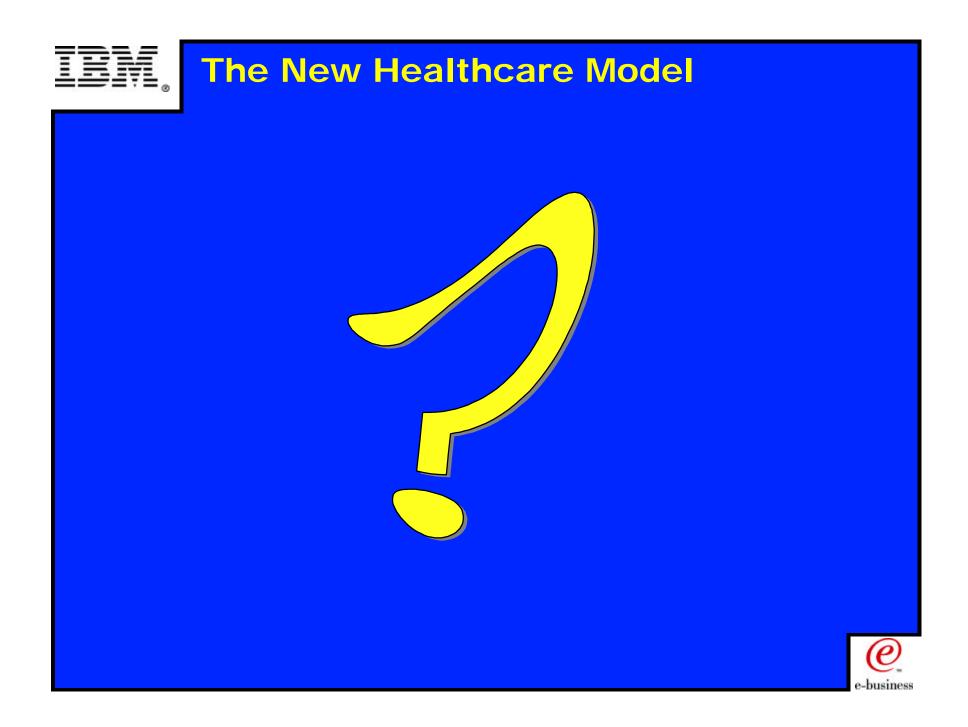


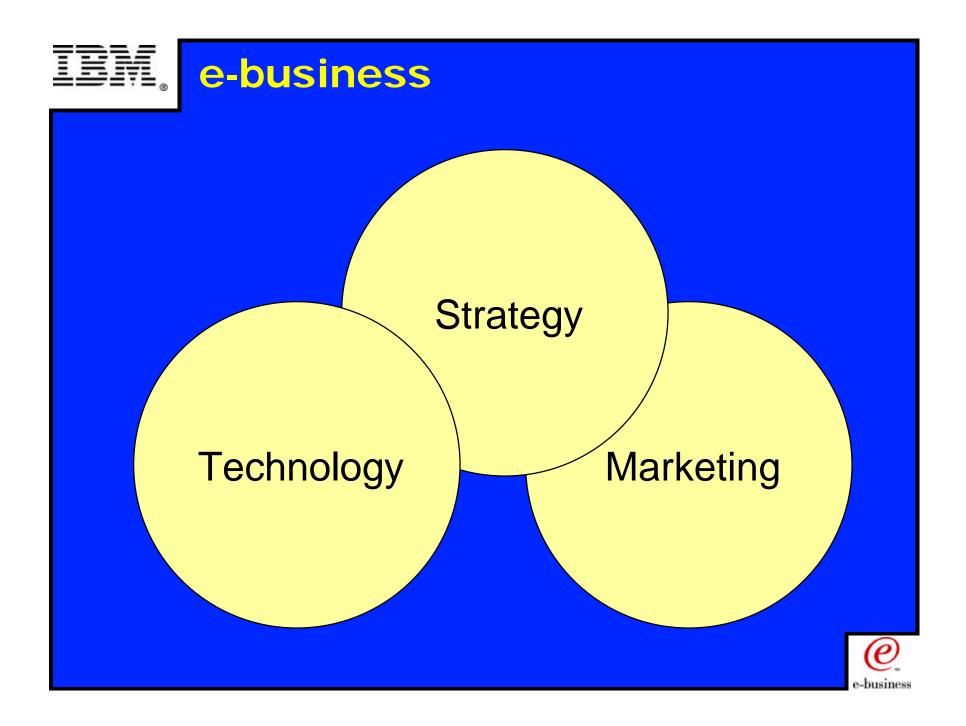
Pharmaceutical E-Line: Mainstream Capabilities

Web enabled call centers ---> CRM

- e-Procurement
- Product web sites for Providers/Consumers Without Data Capture
- e-Detailing & Education for Representatives
- Web enabled ERP







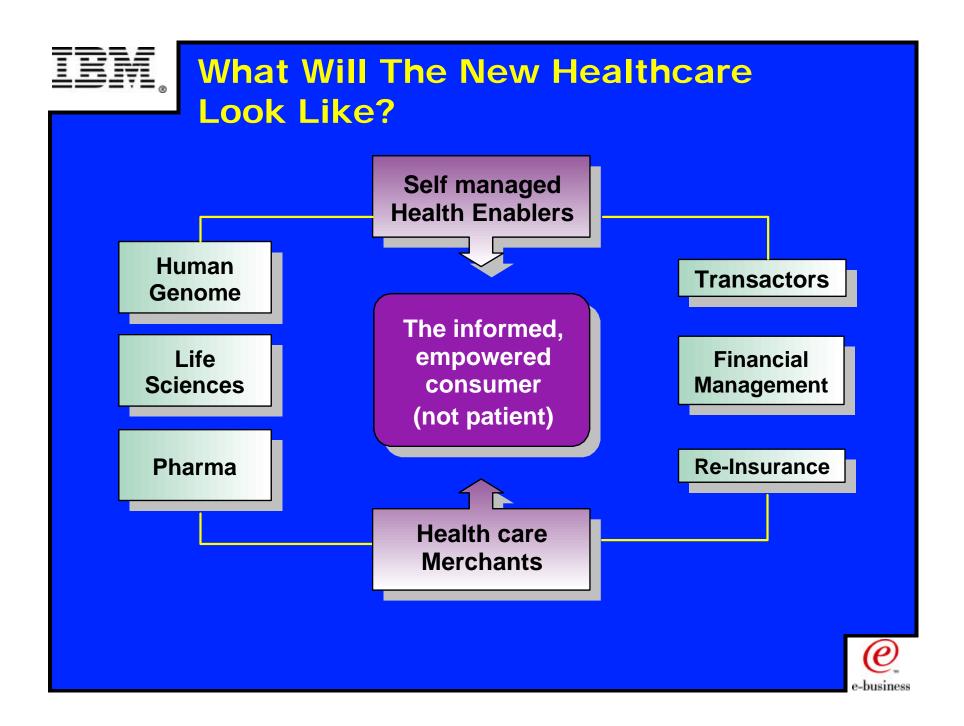


Consumerism: The New Trend for Payors & Providers

The consumer will define quality - <u>differently</u>
Choice will be a critical factor
Consumers will take control of healthcare dollars
Seamless, single point of care service is important
Pharmacy costs will continue to be an issue
Technology will not change healthcare

The consumer will change healthcare







Understanding Your Business Model

What functions do you perform?

- For whom do you perform these functions?
- How do you go about performing this function?
- What need do you satisfy?





New Value: Separate information from product

Information value net

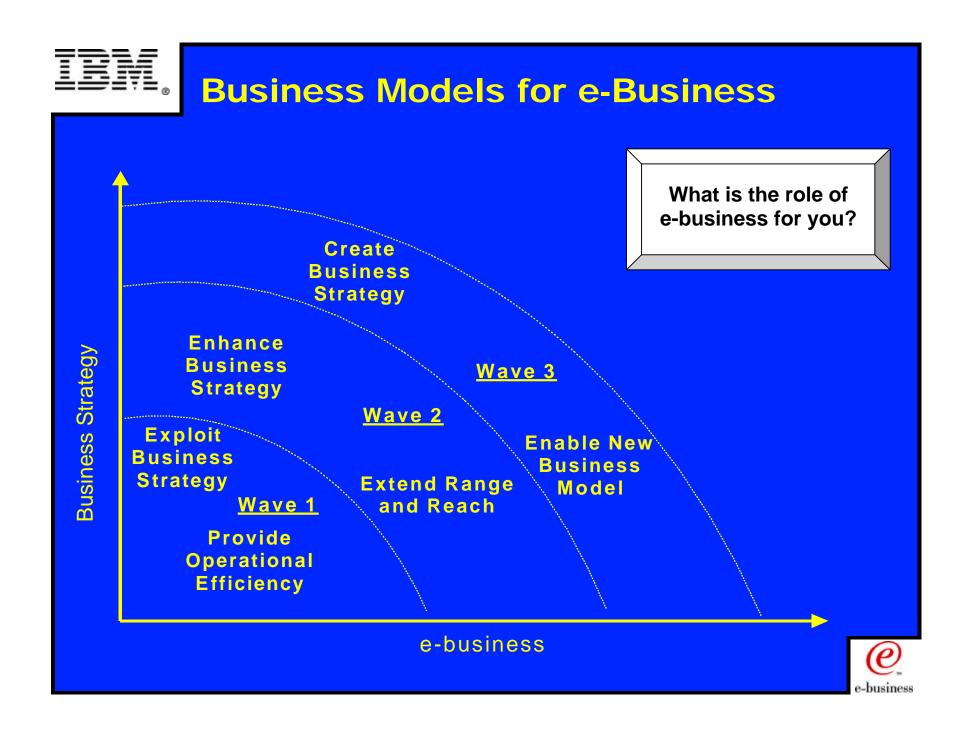
- -Information and knowledge flow independent of
- physical structure
- -Business intelligence
- -Knowledge management as a tool
- Physical value net

-Material and process flow along the supply chain for suppliers

-Medical care delivery for providers/payers



BD





Key Issues/impact of the new model For Payors

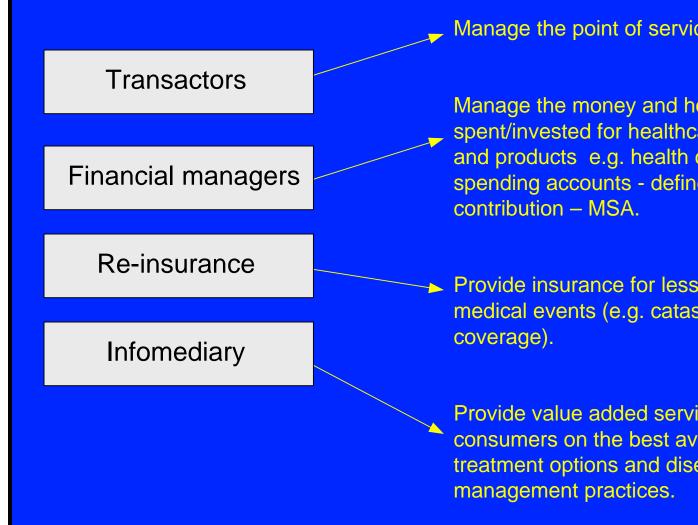
Focus on the consumer: health improvement and self empowerment

Current business model depends entirely upon individuals who do not use the system: AKA - healthy people

The current model strips over 80% of the market out of the available target market



New Business Models for Payors



Manage the point of service payment

Manage the money and how it is spent/invested for healthcare services and products e.g. health care spending accounts - defined

Provide insurance for less frequent medical events (e.g. catastrophic

Provide value added services to consumers on the best available treatment options and disease

e-business



Care Giver: General Contractor Manages Healthcare Subcontractors

Care giver

- -Manages healthcare services, and dollars
- -Identifies best of breed: best value & options

Providers & Payors -Subcontracts with care giver





Care Giver: General Contractor Manages Healthcare Subcontractors

Defined contributions -Choose plans that provide freedom of choice

Navigates healthcare system -Fixes house provides transportation -Identifies providers, wellness, prevention & self care

First dollar coverage - value proposition





Virtual Hospital: Information is the Primary Asset

Separate diagnosis, treatment & after care
 Hospital not bound by physical walls - reach extended
 Partnerships are valuable assets - build virtual communities
 Deliver care at customer's location - self care & prevention

The type of care changes

Prevention & self care replace repair & fix
Care moves from inpatient to extended reach

The right care at the right location -Inpatient - outpatient - extended reach

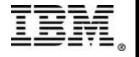




Forrester Observations

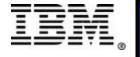
- Genomics dominates healthcare new products & services
- Cost-shifting to consumer
- Consumer self-direction: information
- Prevention & self care: alerted years before
- Health advocate: general counsel
- Consumers accept genetics: wary of privacy





- Financial & legal firms will enter health planning field
- Diagnostic markets will expand early in disease cycle
- Markets grow to include the susceptible and the ill
- Pharmacy sales soar: high costs & micro-markets
- Doctors become "general counsels" and master genomics
- Hospitals partner or compete with financial groups & law firms for roles as general counsel
- e-Communities form as people ponder genomic issues





Wireless Doctors

1% Use computerized records
13% use e-mail (personal use)
15% use palm pilots
85% use cell phones
User obvious
PDA (Personal Data Assistant)





The Killer Application

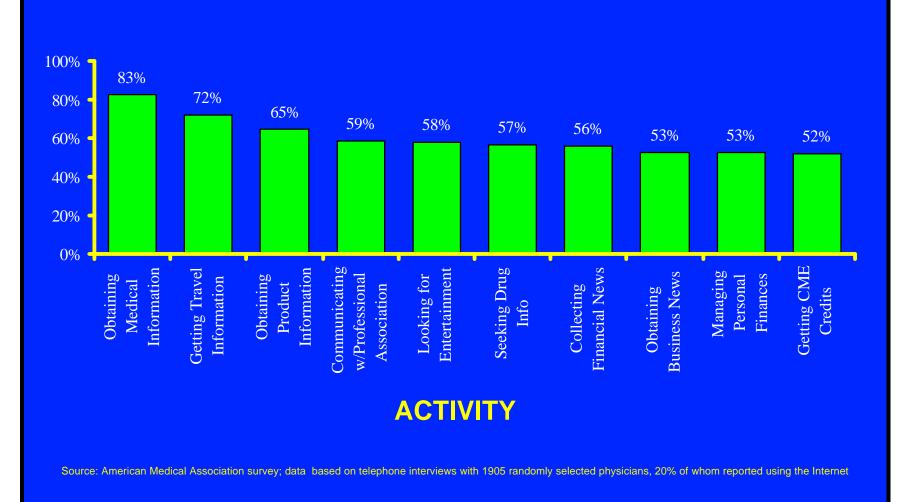
Transcription Services: Continuous Speech Recognition

- Saves doctor most precious asset: time
- We are already paying for it
- Gives doctor ability to work from home
- Creates relationship between hospital & doctor
- Ability to market that relationship





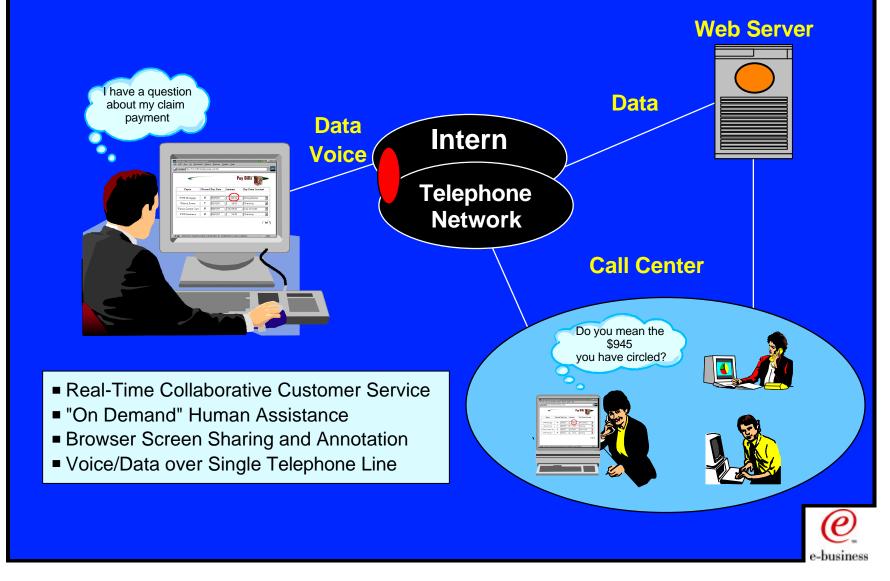
How Physicians are Using the Internet







The other Killer Application: Collaborative Customer Service





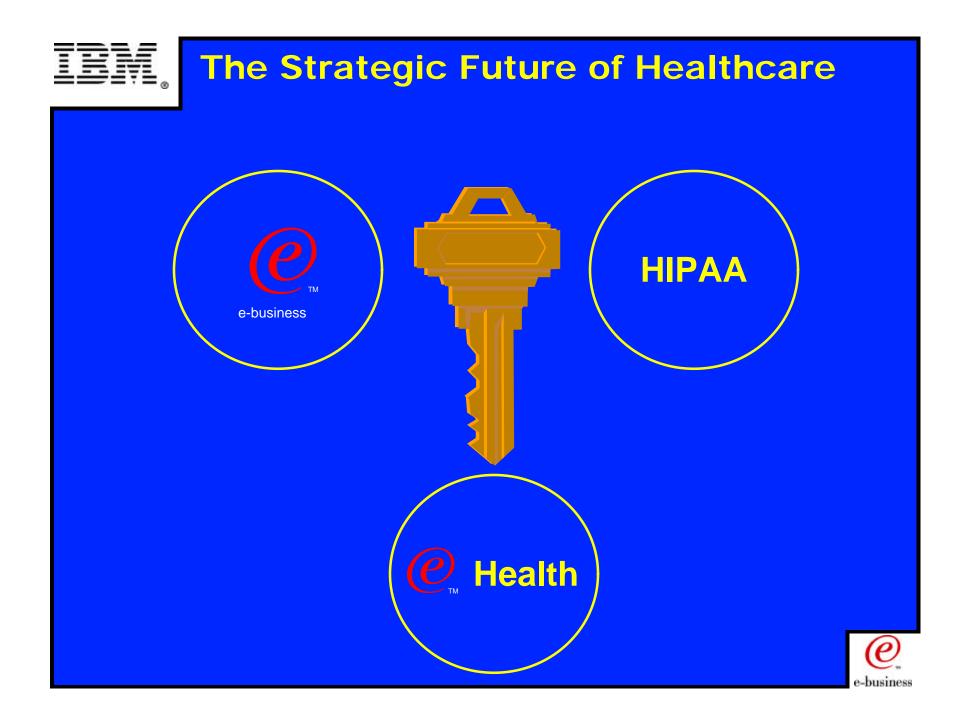
Lowering Barriers to e-Business in Healthcare

Security: security solutions ease liability concerns

Standards: HIPAA standards reduce fragmentation

Cost: Application Service Providers (ASP) reduce cost







HIPAA Overview

- Federal Health Insurance Portability and Accountability Act of 1996 creates health information standards
 - Transactions
 - Security
 - Privacy
 - Eventual standards for an electronic medical record
- Major healthcare industry shift to automation
 - Similar to banking
- Transaction compliance deadline 10/02

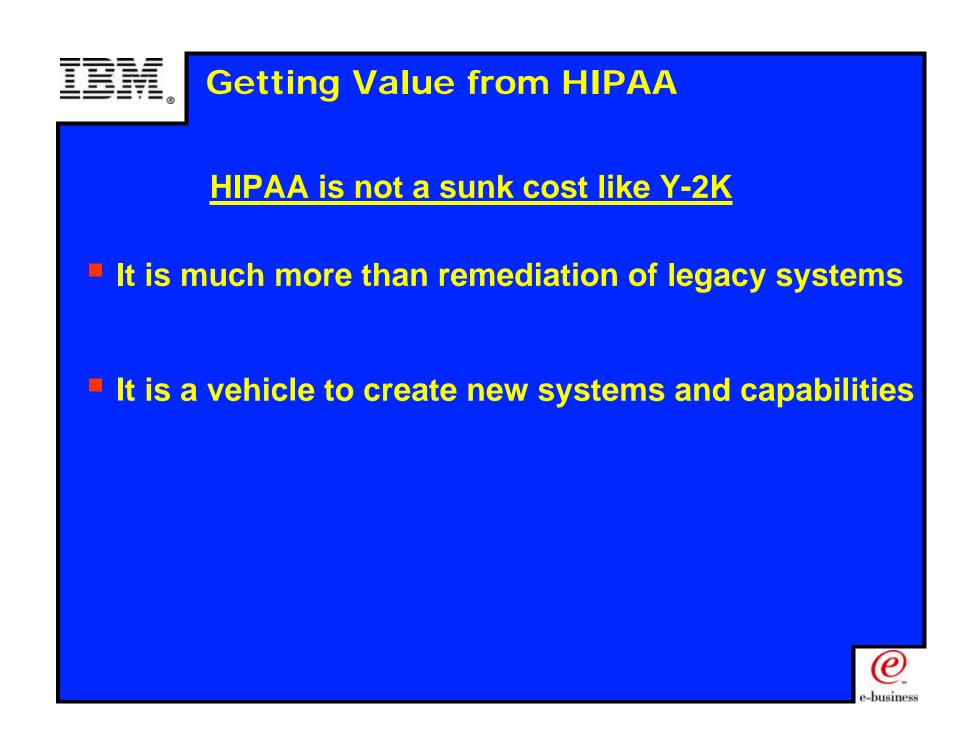




e-Health: Better, Faster, Cheaper

Standardization
Reliability and security
One-time infrastructure
Strategic one-time investment
Trusted environment
Enhanced accountability





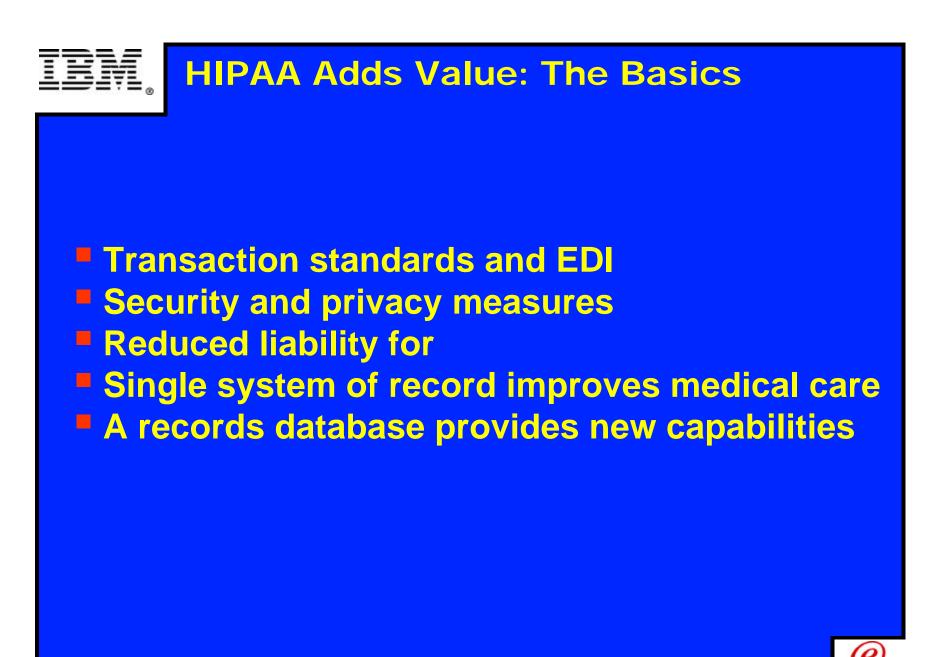


Adding Value from HIPAA

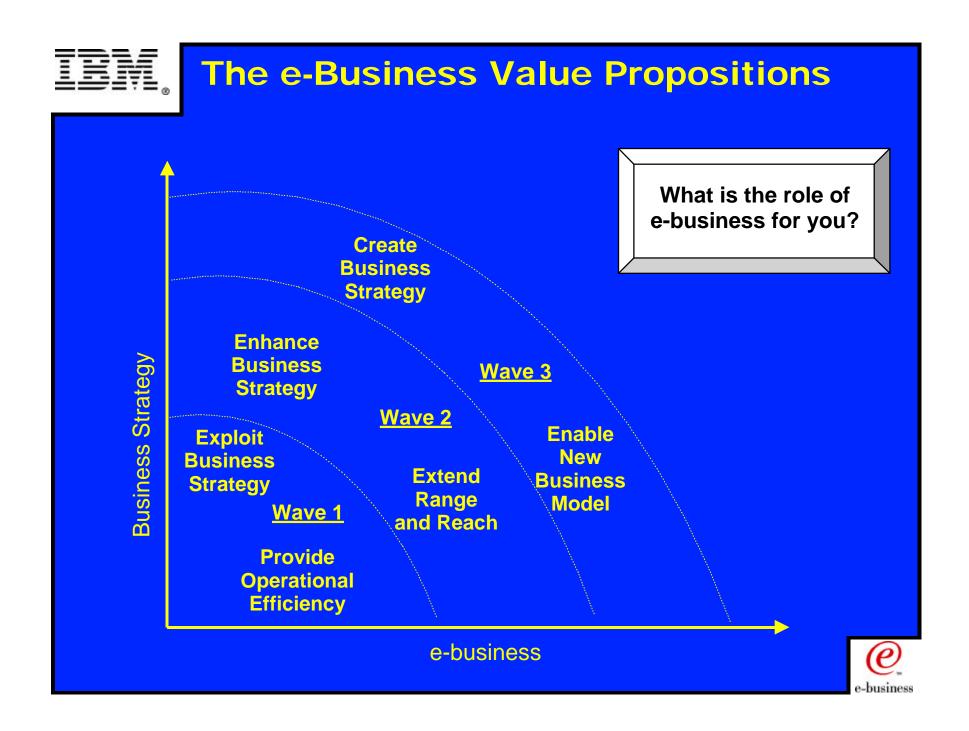
HIPAA improves health care by providing

Reliable, timely and accessible data
In a secure and trusted environment
At lower cost









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Wave 1 - Exploit Business Strategy Quick Fixes

Payor: eligibility/claims processing and inquires, email
 Provider: appointments, content, email, Rx
 Value: improved service, reduced administration, lower systems costs, nationally standards, real-time data capture, data integrity, patient trust
 HIPAA value: standard data across trading partners and customers, data integrity, reduced vulnerability with Government endorsement, customer trust = increased usage





Wave 2 - Enhance Business Strategy Improve Current Business Models

Payor: On-line member enrollment and claims
 Provider: On-line billing, electronic medical record, streamlined lab ordering and reporting, pharmacy error protection, easier self-care monitoring, tele-medicine
 Value: clean claims, further reduced administration, improved service, fewer adverse drug reactions and medical errors, reduced fraud and abuse, wider use of evidence-based medicine
 HIPAA value: clean claims/bills, enhanced data base capability, greater accuracy of patient/member data yields greater returns



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Wave 3 - Create Business Strategy New Business Models

Payor:	Financial management for healthcare,	
	anonymous self-care management (PPI)	
Provider:	Care givers distinct from providers, virtual	
hospitals, on-line group care		
Value:	New revenue opportunities and extended	
reach		
HIPAA value:	Enables infrastructure for new models	





Internet Privacy Solutions Privacy from Anonymity

Fully Identified Health Data

Universal Anonymous Identification Privacy & Security Model

Patent Pending



Identity Internet Privacy Solutions

Patient





HIPAA: Prevents us From Repeating Mistakes of the Past

- Build systems with different platforms
- Use different standards for different systems
- Handle functions internally that can be better handled externally and at less cost
- Develop proprietary software that cannot easily interface to your external partners
- Focus your time on technical issues and not on your core competencies and core business functions





- HIPAA Assessment: Initial & Detailed Follow On
- Initiating Solution Design
- Broad Business Perspective: e-Business & HIPAA







- HIPAA Assessment: Initial & Detailed
- Solution Design & Implementation
- Decision Based on combining e-Business & HIPAA
 - **IBM seen as leader**





Personal Path Systems

- HIPAA: Early services support
- Focus on Security and Privacy
- Define Phase III e-Business Offering





SUMMARY

- E-Line: Where the industry leaders reside
- Consumerism: The driving force
- New Business Models and Key Applications
- HIPAA: Value not Cost
- Leverage Current Business Strategy
- Enhance Business Strategy: Business Transformation
- Create New Business Strategy
- HIPAA: Enables e-Business





Other Key Factors

Meeting Standards: NEON Compliance Maps verify X12 Standards

Integrating disparate systems: MQSI Leveraging Assets - Avoiding Total Rebuild

Protecting Data/Security: Tivoli Applications and Systems

