



Global Consumer Group

Implementing Customer Centricity in Financial Services

...With WebSphere Customer Center (WCC) &

Service Oriented Architecture (SOA) Implementation Approach

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Customer Information Environment (CIE) Program

Paris, France

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Overview



citigroup

citibank

citigroup
corporate and investment banking

SMITH BARNEY
citigroup

citi
Credit Cards

PRIMERICA

citigroup
investment research

citi financial

Banamex
citigroup

citigroup
asset management

citi mortgage

Diners Club International

citigroup
private bank

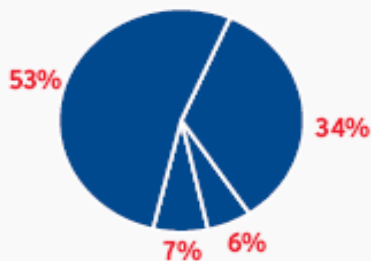
citi insurance

citi capital

citigroup
alternative investments

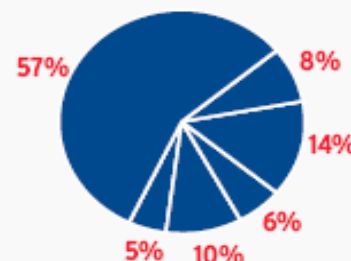
- ▶ One of the top ten recognized brands in the world
- ▶ 2005 Revenue per annual report – **83.6 Billion**
- ▶ Migrating to a global customer centric model
- ▶ Seeking consistent customer treatment across lines of business
- ▶ Analytics offers a significant opportunity for market differentiation and increased revenue

DIVERSIFICATION OF INCOME | A highly diversified base of earnings that provides stability during difficult market conditions.



% By Product*	
Global Consumer Group	53%
Corporate and Investment Banking	34%
Global Wealth Management	6%
Citigroup Alternative Investments	7%

*excludes Corporate/Other and discontinued operations



% By Region**	
U.S.	57%
EMEA	8%
Asia	14%
Japan	6%
Mexico	10%
Latin America	5%

**excludes Citigroup Alternative Investments, Corporate/Other, and discontinued operations

Source of graphic above: 2005 Annual Report

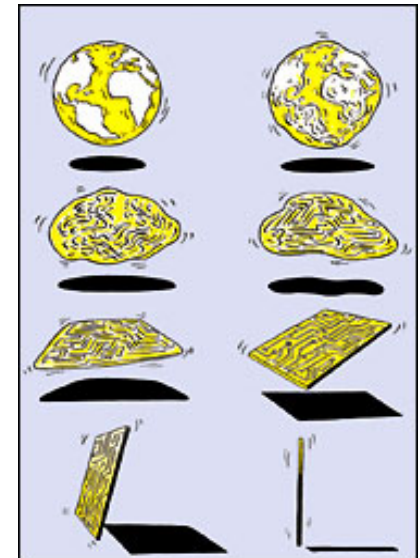
Customer Centricity - Why Now?

► Factors are conspiring to make customer centricity today's relevant business strategy...

- Customer Preferences
 - Customers value innovation more in service quality than in product design
- Corporate Performance
 - Information sharing is well correlated to growth
- Saturated Markets and Irrational Competition
 - Given fewer new customers, focus on less costly sales to existing ones and raise switching costs
- Convergence
 - More product on the shelf to manage
- Compliance
 - Ignorance is no excuse
- Technological Maturity
 - CDI platforms at critical mass, multi-channel delivery now a standard capability
- Extra-industry Best Practices
 - Moving to focus on same-store sales, etc.
- Societal Forces
 - Information liquidity, customer empowerment, loyalty under threat

“Hierarchies are being flattened and value is being created less and less within vertical silos and more and more through horizontal collaboration within companies, between companies and among individuals.”

-- Thomas Friedman,
The World Is Flat (2005)



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Customer Centricity has a global impact :



Integrated workplace

Business Process Flexibility

Channel integration
 Product integration
 Business transformation



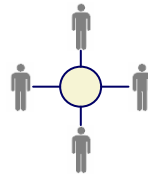
Governance

LoBs vs CIO
 Budget management
 Who owns core business process transformation ?

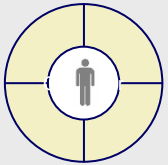
Alignment of Business & IT

Compliance and risk management
 Performance management

Committed to Customer Focus



Product-Centric



Customer-Centric

Business Objective

- ▶ Improve short-term product profits through increased fees and sales of features/functions

Business Approach

- ▶ “Build it and they will come”



Offerings

- ▶ Lines of Business Products/Services

Service delivery approach

- ▶ Vendor/customer

Customer Relationship

- ▶ “I buy x from Citi” (Vendor/buyer)

Value Exchange

- ▶ “Why am I paying for that feature which I don’t need”

▶ **Maximize lifetime commensurate value exchange between our Customers and Citigroup**

- ▶ “Provide solutions based on where the customer is today and where they want to be as well as their values



- ▶ Integrated, cross-product/service solutions

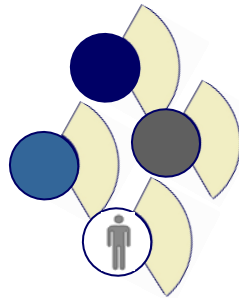
- ▶ Partnership (diagnosis, prescription, health check, diagnosis...)

- ▶ “My family will stay with Citi forever – I trust them as a committed partner that will help us on our journey to reach our aspirations”

- ▶ “This is worth the price”

Building a Customer-Centric View of Customers

Product-Centric View of Customers



Sources ▶ Individual Line of Business databases

Information

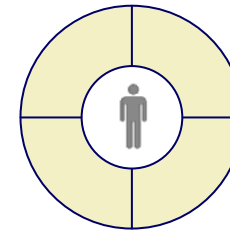
- ▶ Demographics
- ▶ Behavior
- ▶ Transactional data
- ▶ Some enhanced data

Relationships ▶ Ad-hoc identification of connections between accounts

Value ▶ General value of account to Line of Business

Preferences (Contact, etc.) ▶ Partially captured in each Line of Business (mostly in unstructured notes)

Customer-Centric View of Customers



▶ All Citi sources

- Transaction processing platforms
- Customer touch points
- Acquisition platforms
- Self-service tools

▶ Behavior

▶ Demographics

▶ Personal attributes

▶ Financial needs

▶ Aspirations

▶ Goals

▶ Cross-account relationships (personal and corporate)

▶ Cross-customer relationships

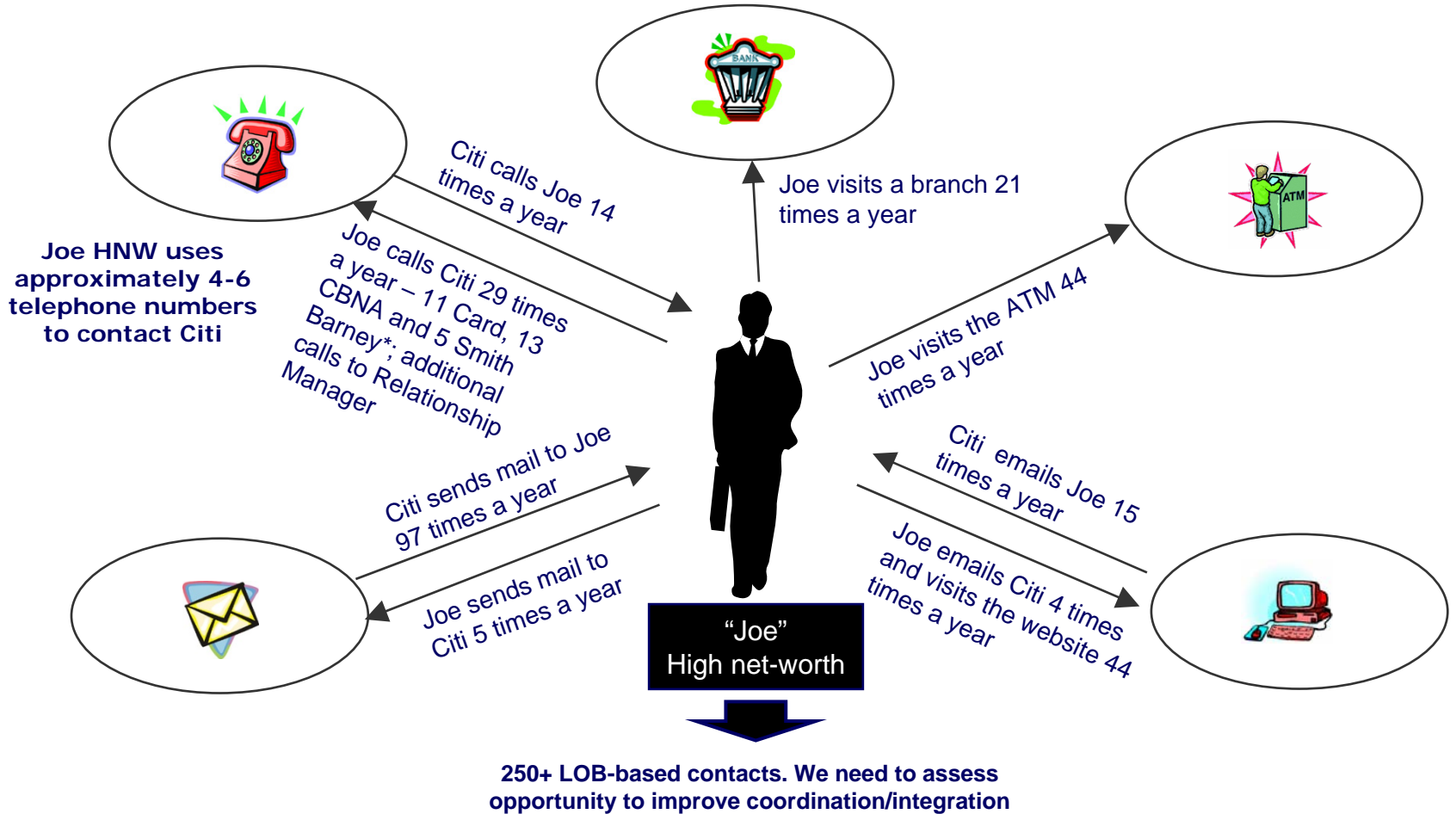
▶ Value of customer to Citi – historic, present and future potential

▶ Comprehensive, structured cross-Line of Business view of customer preferences

Multi-business customers have a significant number of contacts with Citigroup. These need to be better coordinated and integrated.

Multi-business Customer Touch Point Profile (Cards, RDG, Smith Barney example)

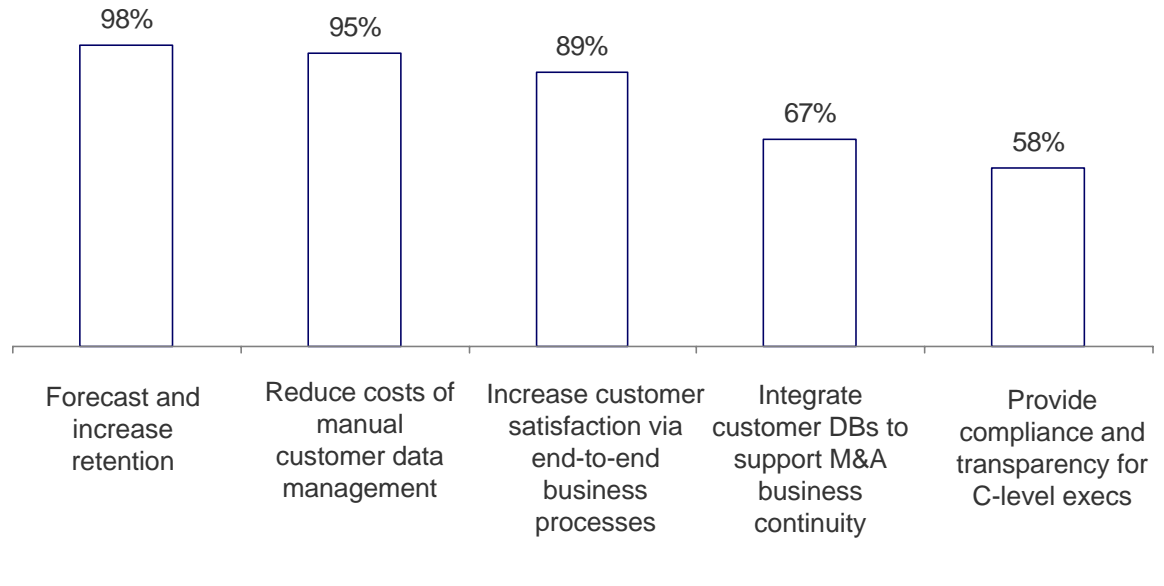
Illustrative



* Relationship Manager volume not captured; 15 live calls and 14 IVR; all Smith Barney calls live. Assumes multi-business customers touches with each individual business equal the overall average; Source: Touchpoint template data collected from LOBs

Competitive Landscape

Top 5 Business Drivers for Financial Services
(33 Financial Services IT Organizations - June 2005)



Customer Data Integration

- ▶ Recognizing a customer and its relationships at any touch-point
 - Aggregating, managing and harmonizing accurate, up-to-date knowledge about that customer
 - Delivering it in an actionable form just-in-time to touch-points
- ▶ Comprised of processes and technologies

Technology Challenges Facing Financial Service Providers in CDI Endeavors

- ▶ Demand for “near-real-time” data linkage to support audit and compliance measures
- ▶ Requirement for hacker-proof customer data protection
- ▶ Support for high-RAS (reliability, availability, scalability) due to nature of the mission-critical CDI infrastructure

Source: “CDI as Foundation for Unified Customer Views: Key Industry Scorecards for 2005-2006

The “ICEBERG” Effect...

Citigroup’s challenge:

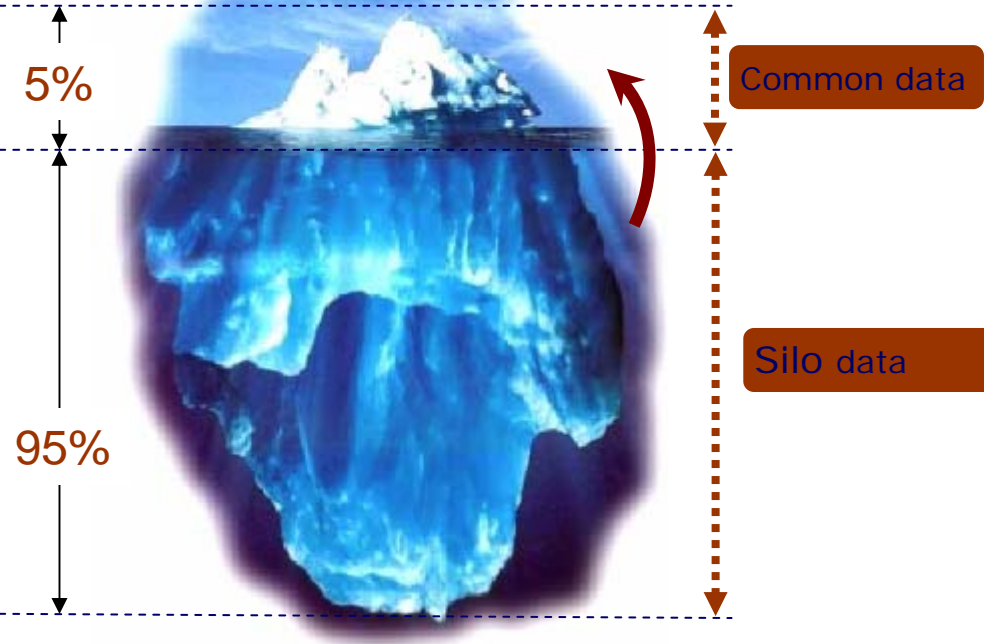
- We needed to understand our customers from a TRUE 360 degree perspective... but WITHOUT “Boiling the Ocean” - because the “Law of Large Numbers” applies at Citigroup

Linked customer information:

- We needed a “Index” to find our way across the silos

► Un-linked customer information:

- We can pull or push data “above or below” the water line (using this metaphor) on a real time, as needed basis...
- We have PETABYTES of information about our customers, within product silos... but each business holds their own customer data and identifies these customers differently



Less than 5% of customer data is stored in the index – only data that is germane across multiple lines of business.

Approach

- ▶ The Customer Information Environment (CIE) Program is a global customer-centric initiative
- ▶ Understanding past & current events to better serve future customer needs
- ▶ Follow a “One mile wide & one inch thick” methodology
- ▶ Utilize the best available talent, best practices and technology in the market
- ▶ Partner with vendors & business units as part of the project team
- ▶ Provide a real-time Recommendation Engine to all channels, marketing analysts/campaign managers etc.

What is CIE?

Characteristics

CIE is a “Global Index” of all CitiGroup’s customers and their product relationships across all lines of business (LOB)

It is designed to support LOBs in the development of their own customer-centric, market “differentiating” initiatives by providing a unique view of Citi’s customers



- ▶ Designed to collect and publish customer information across Citigroup and channels

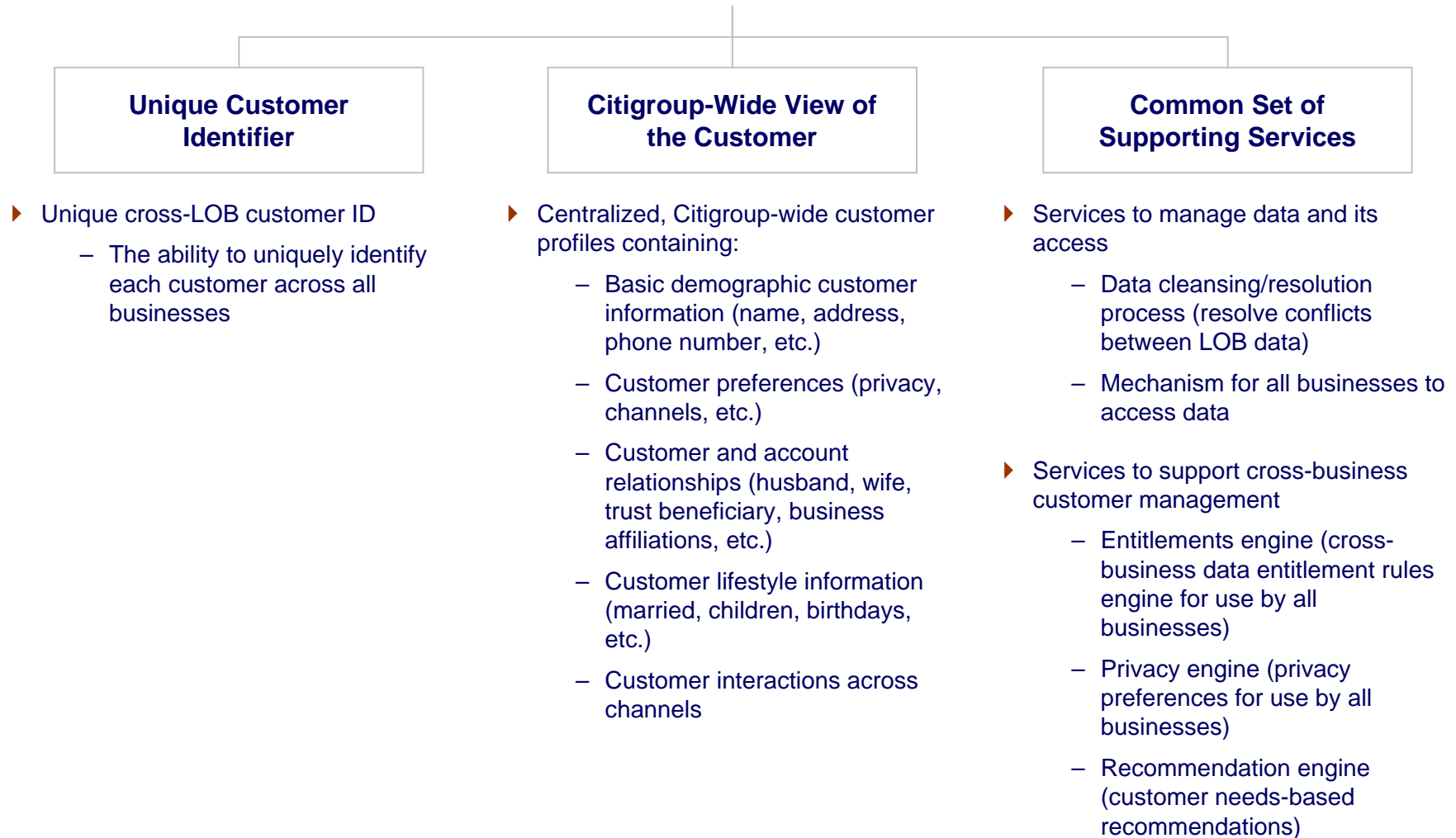
- ▶ Targeted to support not only customer analytics but actual business operations
 - Integration with customer-touching systems
 - Recommendations based on real-time information and delivered to customer point of contact
 - Management of risk (e.g. AML)

- ▶ Enables real-time capture, integration and dissemination of actionable customer information
 - Existing data
 - Potentially new data such as a customer’s financial goals and objectives, life stage, disposition, etc.

What is CIE?

Capabilities

CIE provides existing line of business systems with access to several key capabilities



Approach – Have an in-depth understanding of the Landscape

▶ Our approach . . .

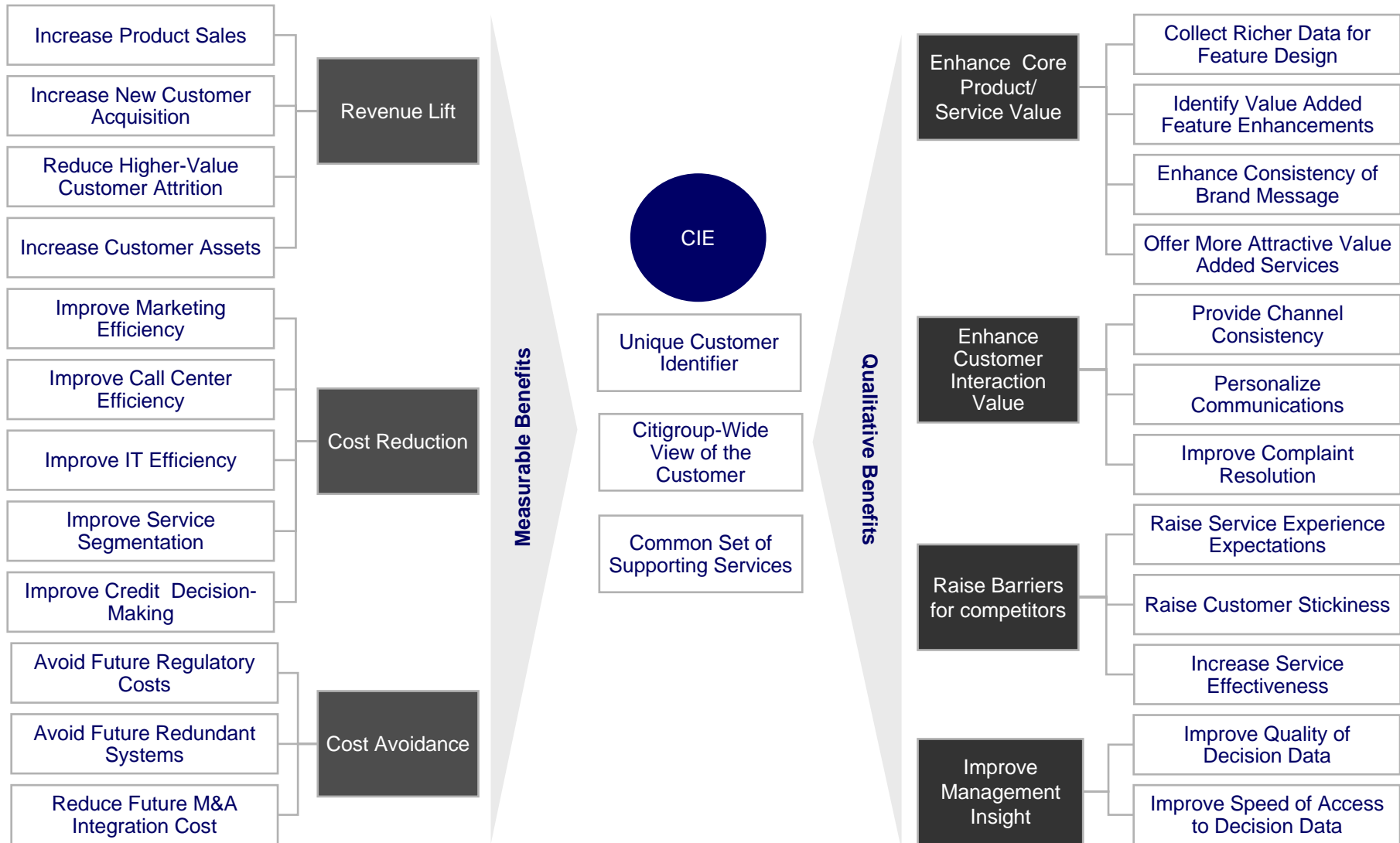
- Provide a consistent brand experience for every customer
- Understand and respond to market pressures instantly
- Understand and anticipate the individual needs of every customer
- Repeat the above for 200 Million (and growing) customers (!)

▶ Customer Management Design Patterns:

- Product/offer evolution
 - Non-structure
 - Federation
 - Consolidation
- Customer evolution
 - Generic product offer
 - Tailored customer management
 - Negotiated customer relationship – anticipated customer needs

▶ **Consistent customer experience requires centralized, consistent, high powered, real-time analytics**

CIE is a core enabling platform that will support a variety of benefits.



Building the Customer-Centric Technology Platform

Platform Requirements

WCC

Ease of Integration

- ▶ Numerous legacy systems and data sources across business divisions need to be connected quickly and easily



- ▶ Supports JMS compliant messaging
- ▶ 400+ packaged API's
- ▶ Extension/Addition wizards

Flexibility

- ▶ Platform needs to handle technology, vendor and business changes



- ▶ Highly customizable
- ▶ Provides 360° customer view without sacrificing account view

Real-Time

- ▶ Information needs to be available in real-time to support customer interactions



- ▶ Provides high-performance solution that is capable of handling high-volume, quick-response requirements

Scalability

- ▶ Technology needs to handle high data volumes and rapid growth



- ▶ Vertical and Horizontal
- ▶ Benchmarked in excess of 2,000 WCC transactions/sec.

Availability

- ▶ Customer-facing interfaces require constant availability



- ▶ Highly reliable solution intended to support 24x7 access

Support

- ▶ Skilled support when it's needed to build and operate the platform

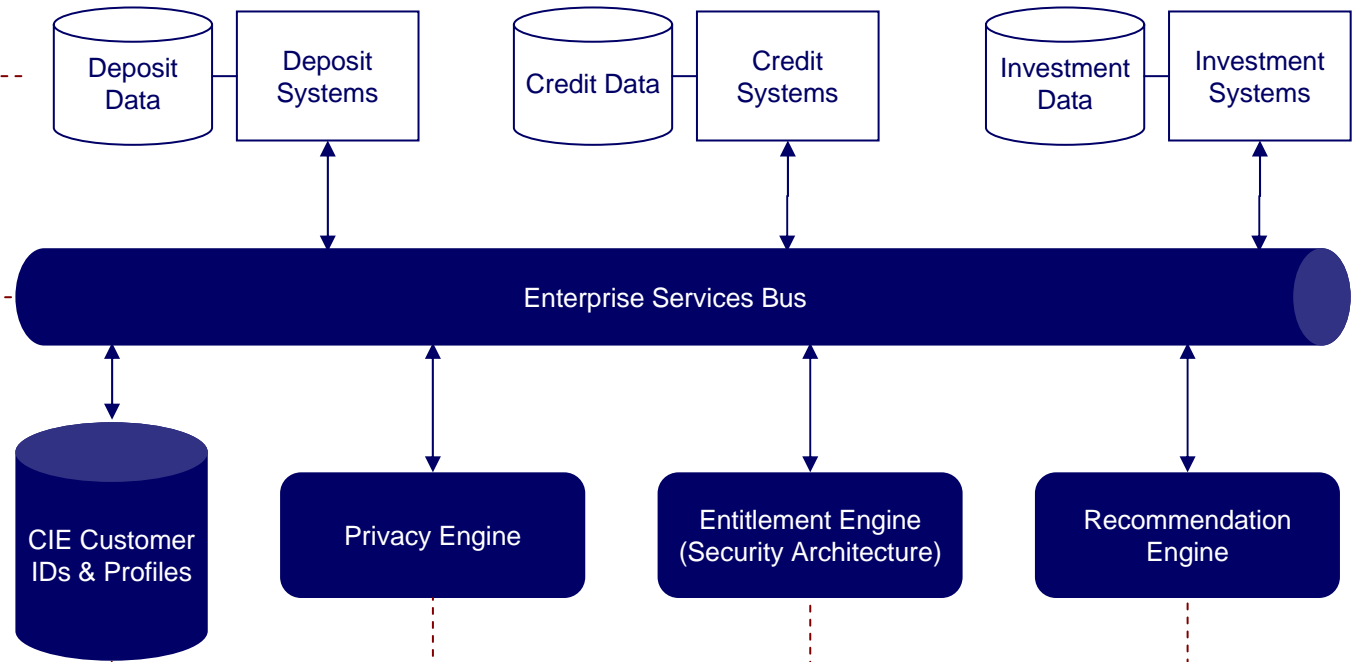


- ▶ Committed Professional Services support

High-Level Architecture

- ▶ Provide capability for businesses to access and share customer information, behaviors and preferences

- ▶ Enable implementation of key cross-business functionality



- ▶ Provide a unique customer number which allows us to identify a customer once and only once across all LOBs

- ▶ Establish and maintain the centralized and consistent copy of customer profiles

- ▶ Allow customer privacy preferences to be applied specifically and consistently across all LOBs

- ▶ Determine who can see customer/account information based on organization, geography, product, etc.

- ▶ Enable consistent, holistic identification of customer needs and relevant offers

And interacts with other significant SOA projects :



Objectives:

- Enable best of breed account opening process that will be shared across multiple product lines

Actions:

- Shared SOA-enabled process across organization
- Aligned Business and IT on new process models
- Develop a new differentiated capability for creating an account
- Move to simpler, faster, secure digital account creation

Results:

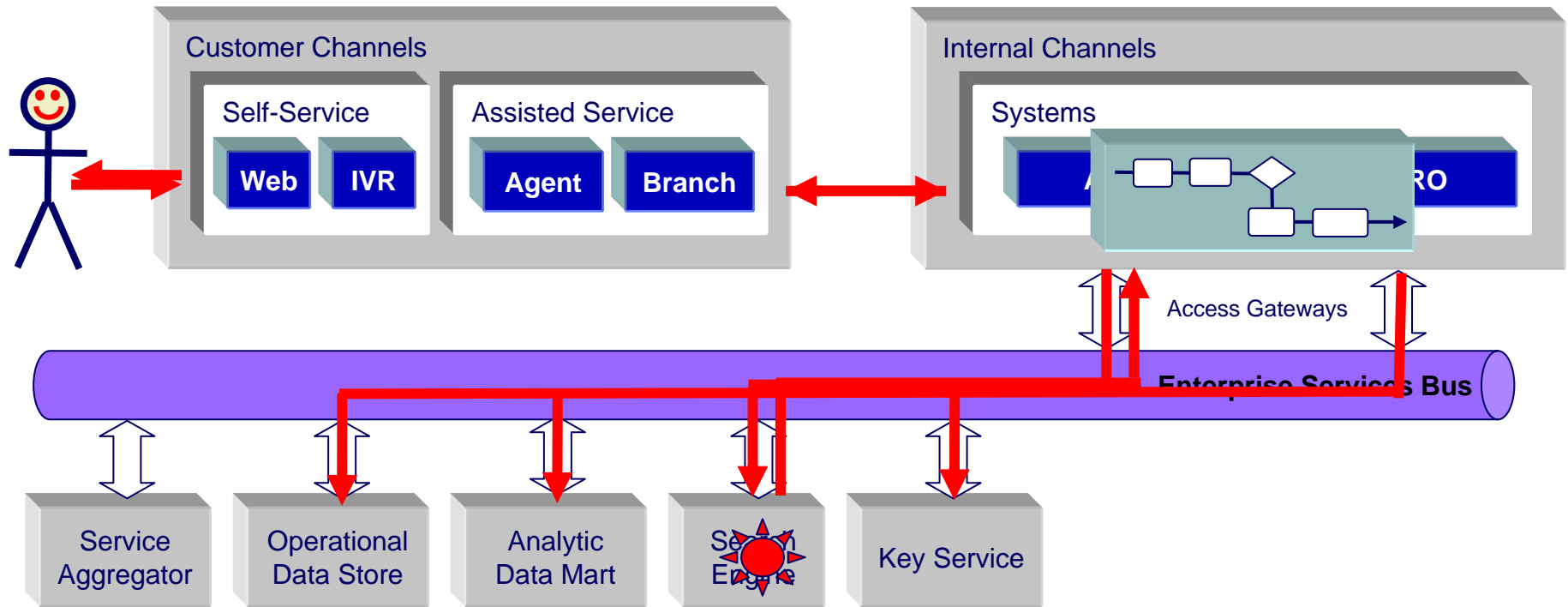
85% reduction in transaction time required for customers
30% reduction in cost and time to deliver new business

Financial Management (SOX Compliance)



Technical Performance Assessment - Operational Use Case

Operational Use Case - CIE dip during account opening to get a cross LOB customer view prior to underwriting



Customer account opening experience improved with information from pervious Citigroup relationships

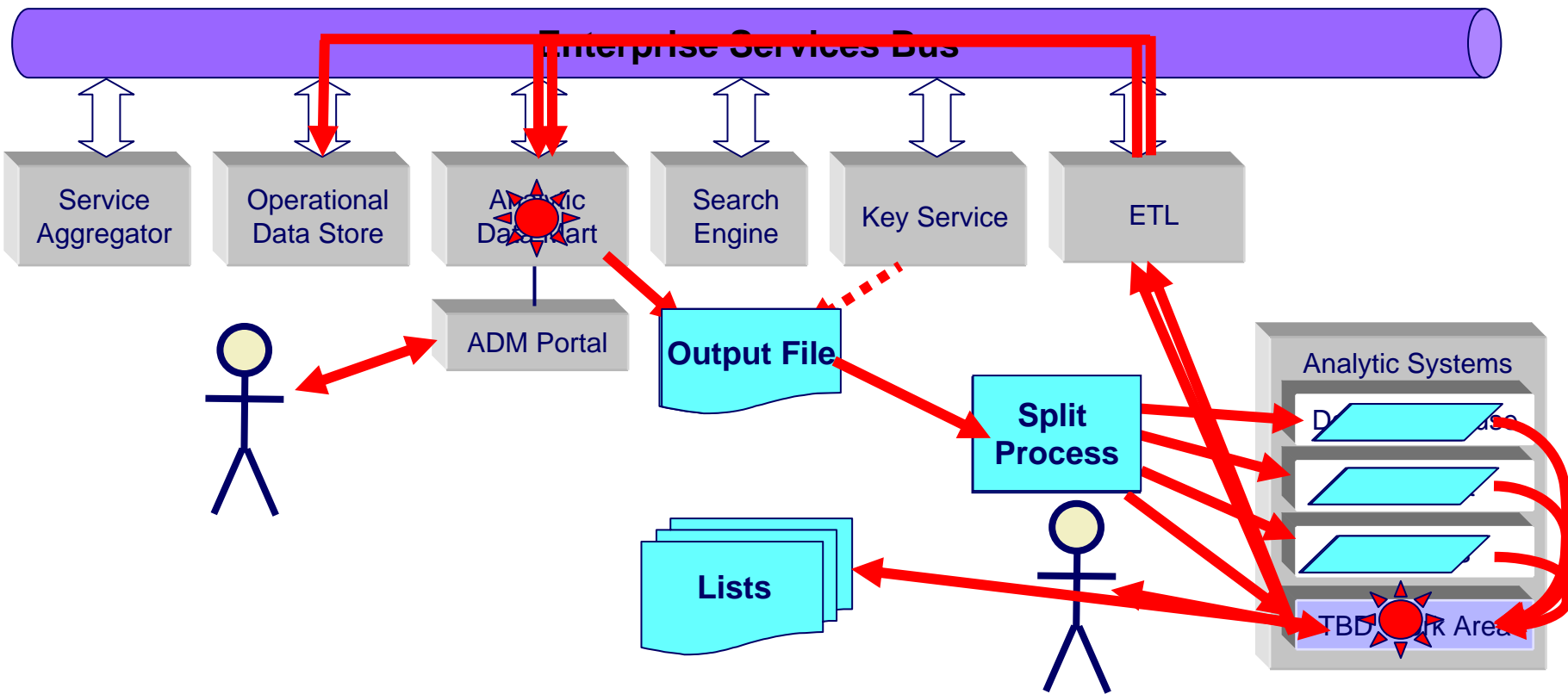
Agent experience enhanced through decreased manual intervention

Technical Performance Assessment - Analytics Use Case

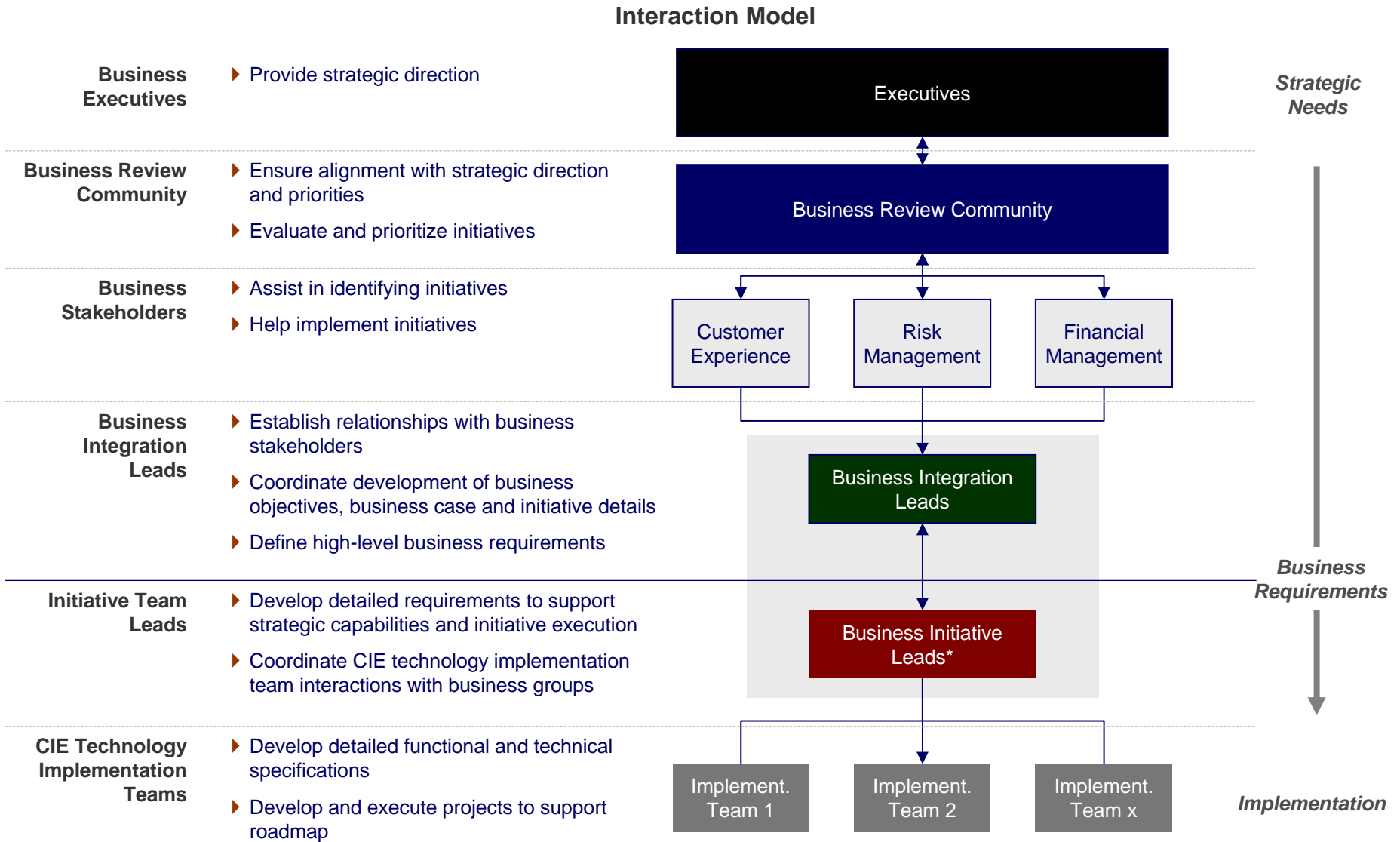
Analytics Use Case - Use of CIE relationship keys in existing NA Consumer systems

Process used for Bain study took 4 months to complete

CIE enhanced process will takes less that 7 days for a 90% improvement in time to market



3. Interaction Model



* Depending on the effort, the initiative team lead could be business or technology

High-Level ROI Approach CIE will build benefits over time through its support of various initiatives supporting our objective of becoming more customer-centric

Framework for Quantifying CIE Benefits

