

Keys to a Successful Data Analytics Strategy



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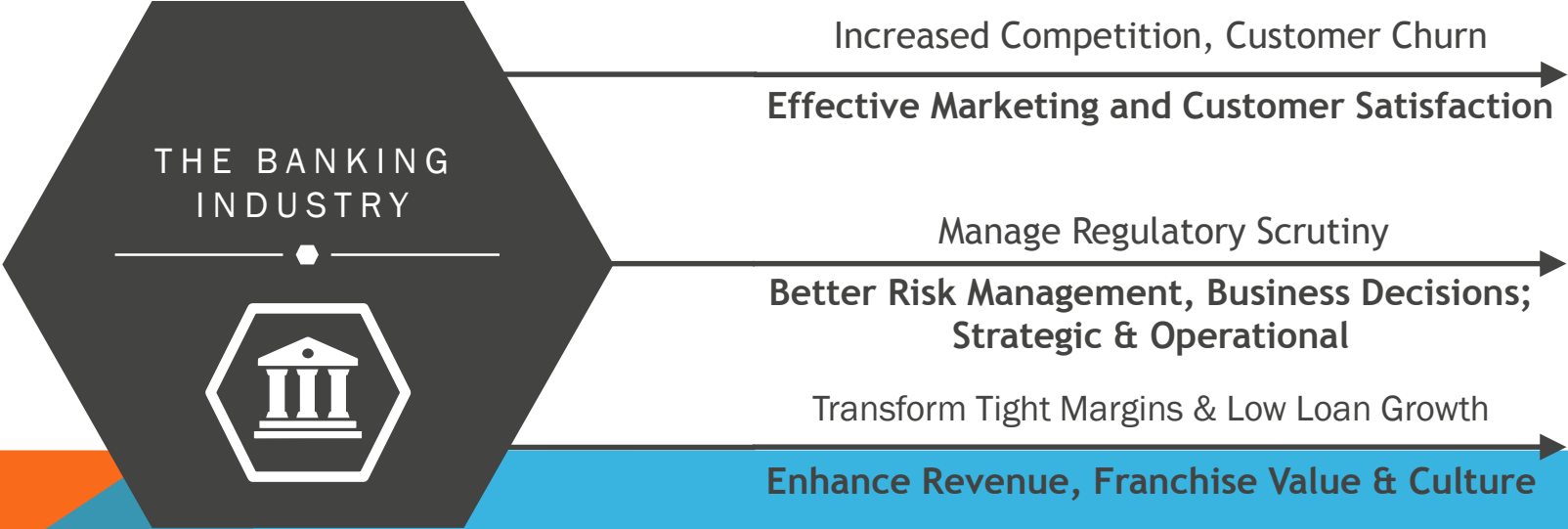
Large banks have built “Next Product to Buy” capabilities to predict customer need, pushing up to 60% of their sales of some products



- ▶ Most successful bank for each product is top 5 bank who has invested in analytics
- ▶ Instead of waiting for consumers to come to them, larger banks are aggressively predicting needs
- ▶ Helps larger banks capture a larger share of the 50% of consumers who added a financial product in 2015

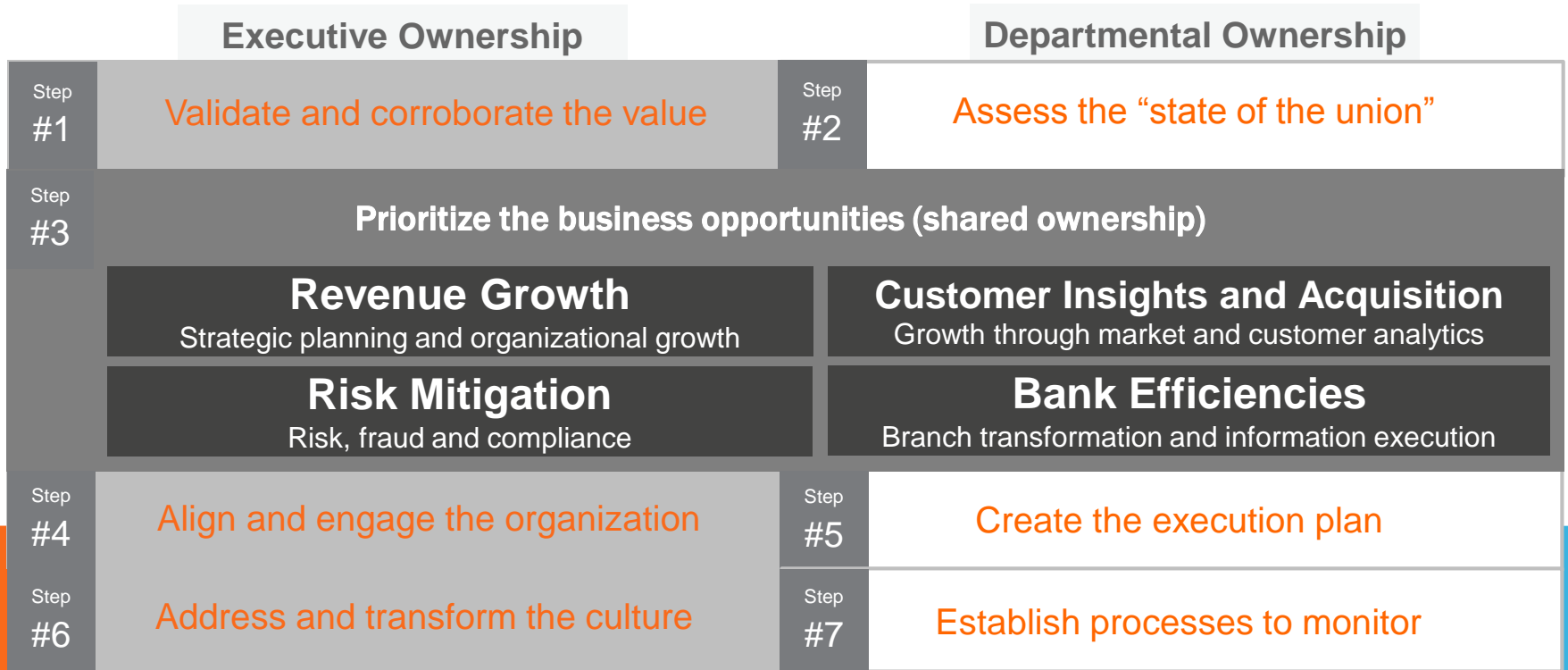
DATA ANALYTICS – THE NEW COMPETITIVE ADVANTAGE

TURN CHALLENGES INTO TRIUMPHS



SEVEN-STEP PROCESS

EXECUTIVE AND DEPARTMENTAL PARTNERSHIP IS KEY



Prioritize the Business Opportunities

Grow Revenue

Strategic Planning and Organizational Growth

Organizational Growth

- Commercial Product and Pricing Review
- Deposit Product and Pricing Optimization
- Enterprise Execution Monitoring
- Lending Growth/Cross-Sell Analysis
- Non-Interest Income Assessment
- Peer Performance and Benchmarking

Risk Mitigation

Risk, Fraud and Compliance

Managing Risk, Fraud and Compliance

- ALLL Evaluation
- BSA Best Practices Review
- Compliance Best Practices Review
- Credit Risk Assessment
- Customer Delinquency Services Review
- Fraud Rule Review
- Risk Analysis and Scorecarding
- Vendor Management Optimization

Customer Insights and Acquisition

Growth Through Market and Customer Analytics

New Market Assessment

- Strategic Research for New Markets
- Alternative Lending
- Prepaid Cards
- Unbanked/Underserved Market

Expand Market Share

- Marketing Strategy Review
- Mergers and Acquisition Opportunities
- Small Business & Consumer Surveys
- Wealth Management

Organically Grow Wallet Share

- Campaign Management Planning
- Channel Adoption Analysis
- Consumer Acquisition Strategies
- Customer Erosion & Attrition Analysis
- Customer Wallet Share Analysis
- Profitability Analysis
- Social Media Engagement Strategies
- Small Business Growth Opportunity
- Top of Wallet Review
- Treasury Services

Bank Efficiencies

Branch Transformation and Information Execution

Efficiency Opportunities

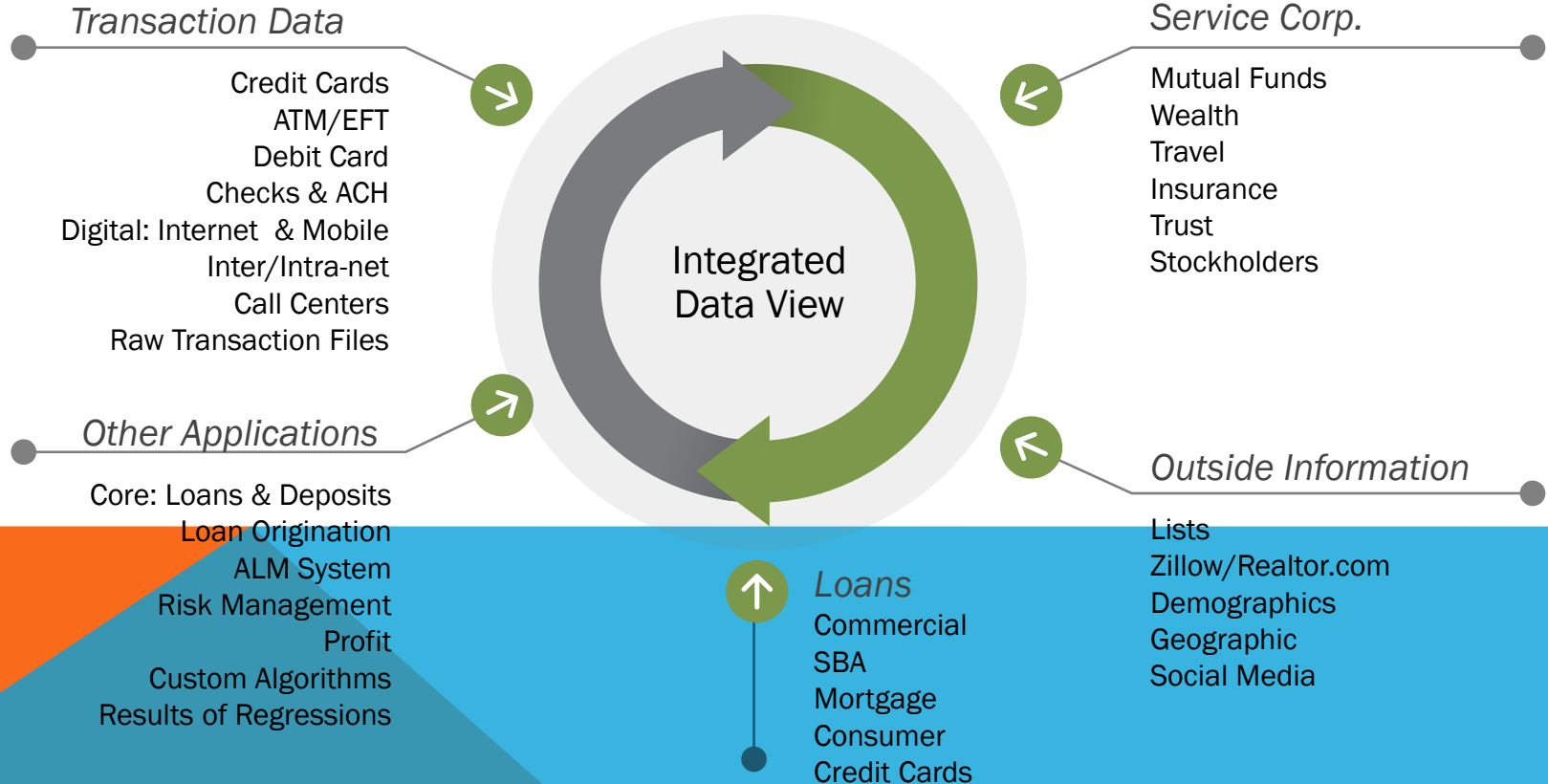
- Back Office Operational Efficiency
- Branch Transformation
- Branch Network Optimization
- Branch Process Efficiency Review
- Staff Optimization Review

Data-Driven Execution Initiatives

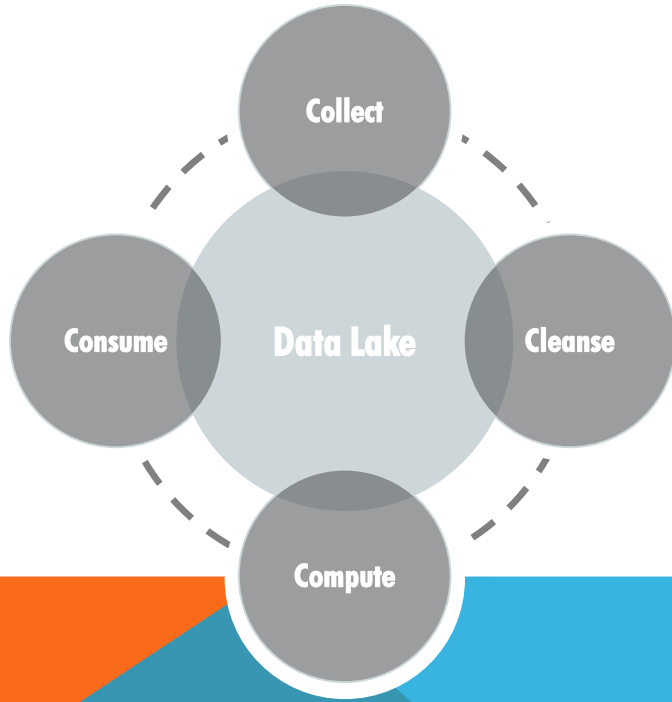
- Big Data Roadmap
- Business Intelligence Efficiencies
- Governance and Trusted Data
- Data Warehousing Strategies
- Predictive Analytics
- Flexible Scheduling

SINGLE SOURCE OF TRUTH MAY BE THE GOAL— BUT FOCUS ON IMMEDIATE ROI

Data Processors



THE 4 C'S



Collect: A single source of the truth from multiple silos of data

Cleanse: Resolve inconsistencies in data, relate data from multiple structures and systems

Compute: Profit, Primary Checking Algorithm, Retention Measure, LTV (from Zillow ZEstimate or Realtor.com), # of products per customer, algorithms for alerts (possible attrition in an important customer range, risk alerts).

Identify data segments to assist lines of business achieve strategic goals: Mortgage no HELOC, CD but no credit products, Small Business & Commercial loans maturing in next 4-6 months (Above WAR, Below WAR (profitable vs. unprofitable), high number of checks – no positive pay.

Income as a proxy, regression results back to segmentation, unique algorithms and unique by “market”

Consume: How the information is presented and used

TAKING ACTION



Channel

- Digital (e-mail, internet banking, mobile, etc.)
- In Branch
- Traditional (print, stuff, mail)
- Call Center
- In-Person / Officer Contact



Message

Many opinions regarding what offer to make, how to deliver message, offer coupon or make special offer, limited time only, etc.



Time & Approach

When does specific channel and message combine to generate success?

Through whom?

Time of year?... 2 days, 2 weeks, or 2 months into the customer's relationship?

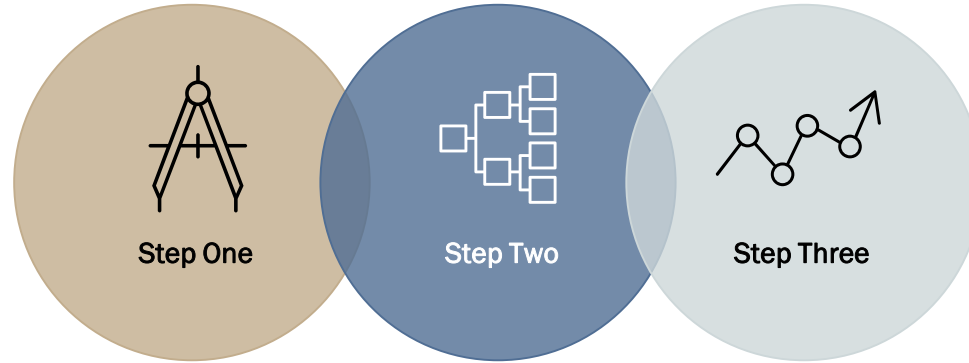
Results Feedback

Information from Digital Channels, CCM, CRM, Call Center, spreadsheets, etc. provide crucial information for assessment



ADVANCED ANALYTICS METHODOLOGY

Building Recurring Best Practices



Step One

Step Two

Step Three

4C Foundation

Identify data segments of “untapped potential” or opportunity that help achieve specific strategic goals (*service, risk, growth, profit, retention*)

Taking Action

Action for each Opportunity via a specific message, channel(s), and time
(*Consider call center action vs. digital channel vs. traditional marketing vs. control group*)

Measure

Define Success & Costs = ROI hurdle
Measure
Track
Adjust

Build recurring best practices . . . right segment, right customer, right message at the right time

ADVANCED ANALYTICS METHODOLOGY

Building Recurring Best Practices

Feedback Loop 1: Adjust & Repeat

Actions that perform over ROI hurdle while refining to “best” action: *channel, message, and approach*

Feedback Loop 3: Specific Algorithms

Profit, Household, Next Product Model, Loyalty Measure, Primary Checking, number of Products per Customer, etc. New filters are applied and analyzed for further segmentation

Feedback Loop 5: Regression Results lead to Refinements

Modify algorithms for unique characteristics of FI economy, products, market, customers



Feedback Loop 2: Human Element

Identify best performers—use Learning Organization Theory to educate and lift performance of team
Entrepreneurial Spirit?

Feedback Loop 4: Regression

Via Random Forests or Binary Logistic Regression—identify characteristics (products, services, trans, income, credit score, and other variables)—identify sub-segments with higher probability of success and adjust

Feedback Loop 6

Align incentives to best Actions

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