

Advanced Issues in Commercial Compliance

Tenth Annual Pharmaceutical Regulatory and Compliance
Congress and Best Practices Forum
November 11, 2009



Source Data for Monitoring & Compliance

Using Core Transactional Data for Monitoring

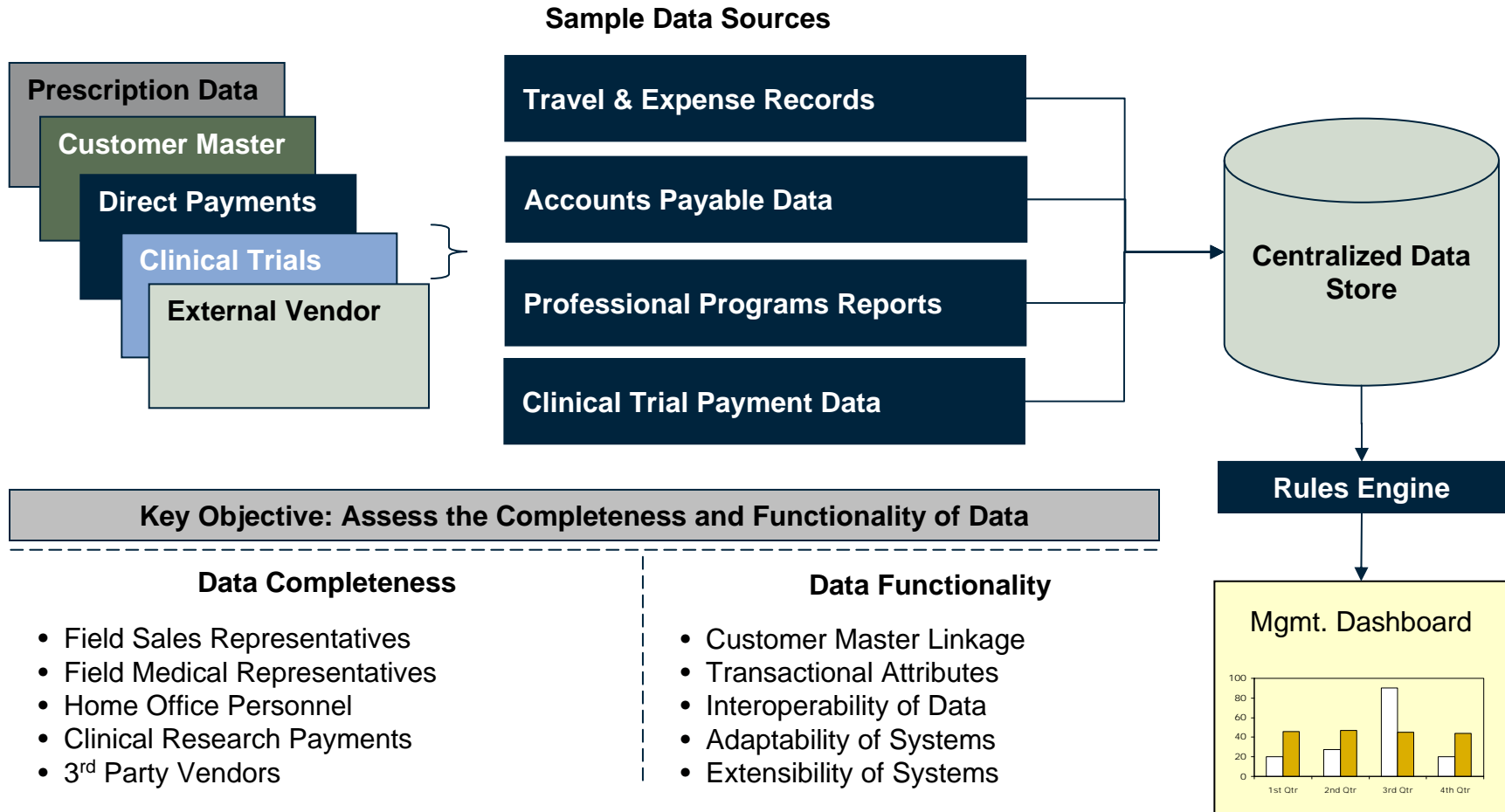
Understanding the enterprise systems and the operational transactions across the various functional areas is critical to developing a monitoring strategy.

Functional Dataset	Off-Label Monitoring Focus
<ul style="list-style-type: none">SFA System	<ul style="list-style-type: none">Analysis of HCP specialties and prescribing patterns
<ul style="list-style-type: none">Aggregate Spend Database	<ul style="list-style-type: none">Profile for HCPs that are frequently used by the Company for fee-for-service activitiesChanges in prescribing can “flag” HCPs for additional analysis
<ul style="list-style-type: none">Syndicated Prescription Data	<ul style="list-style-type: none">Rx activity of HCPs that haven’t been detailed by the CompanyPrescribing behavior in relation to sales call details
<ul style="list-style-type: none">Diagnosis Panel Data	<ul style="list-style-type: none">Diagnosis panel data such as NDTI and PDDA to analyze off-label usage and “at-risk” HCP specialties
<ul style="list-style-type: none">Longitudinal Patient Data	<ul style="list-style-type: none">Specific analysis of patient level data with diagnosis codes can provide insight into specific prescribing and utilization patterns resulting from off-label promotions
<ul style="list-style-type: none">Requests for Medical Information	<ul style="list-style-type: none">Analysis of an individual rep’s requests for medical information
<ul style="list-style-type: none">KOL Tracking Activities	<ul style="list-style-type: none">Company interactions with KOLs that have a focus in off-label thought leadership may provide insight into potential risk areas (affiliations with other doctors)
<ul style="list-style-type: none">Continuing Medical Education	<ul style="list-style-type: none">General trends in CME and Company sponsorship of CME may provide insights into potential off-label risk areas
<ul style="list-style-type: none">Investigator Sponsored Trials	<ul style="list-style-type: none">The nature and selection of the Company’s ISTs can provide potential insight into off-label risk areas

Data Assessment and Review of Source Data Systems

Source Data Systems Required for Monitoring Purposes

Utilizing the data sources covered in the previous slides and coupled with promotional data, models can be created to now proactively monitor compliance as opposed to reacting to compliance challenges.



Development of Monitoring Models

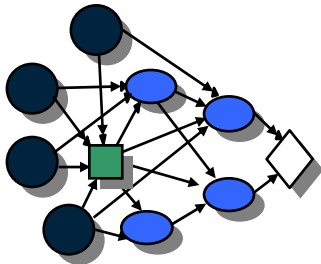
An Iterative Approach to Development and Implementation

Develop HCP Level Decision Models at the Channel Level

Create Risk Curves Based on Specific Tolerance Thresholds

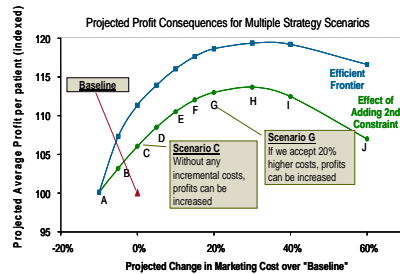
Roll-up Channel Models Into Strategic Risk Management Model & Optimize for Alerts

Providing Predictive Analytics to Address Key Monitoring Objectives



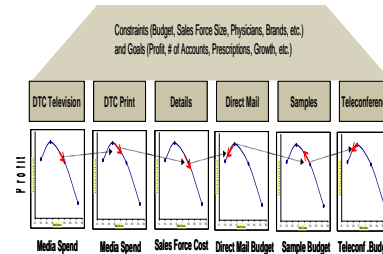
Determines risk sensitivity to channel tactics

Captures the action-reaction dynamic of activities that may influence HCP behavior



Map field and home office actions to identify potential risk thresholds

Allows for the application of multiple factors on a weighted basis

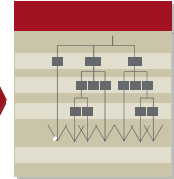


Captures interaction effects of channel tactics

Addresses carryover effect from various channels

Derives strategic - level activity reports

	Relationship SM	Base Case SM	Incremental SM
Net Sales Forecast	\$ 47,500,000	\$ 50,000,000	\$ 58,000,000
Sales and Promotional Expense			
DTC TV	\$ 3,000,000	\$ 4,000,000	\$ 4,000,000
DTC Print	\$ 8,000,000	\$ 10,000,000	\$ 10,000,000
Field Force (PE)	\$ 6,000,000	\$ 6,000,000	\$ 6,000,000
Samples	\$ 2,000,000	\$ 3,000,000	\$ 3,000,000
Direct Mail	\$ 5,000,000	\$ 2,000,000	\$ 2,000,000
Events	\$ 2,000,000	\$ 5,000,000	\$ 6,000,000
KOL/Physicians/O.E.	\$ 1,000,000	\$ 3,000,000	\$ 3,000,000
Total	\$42,500,000	\$63,000,000	\$68,000,000



Strategic to tactical linkage enables guidance and optimization of Risk alerts

Creates optimized monitoring reports by objective

Dashboards Created for Compliance Monitoring

Creation of Various Dashboard Views Based on Technical Requirements

After creating models utilizing internal and external data sets, dashboards can be created to effectively monitor compliance and alert on suspicious activity.

Strategic View



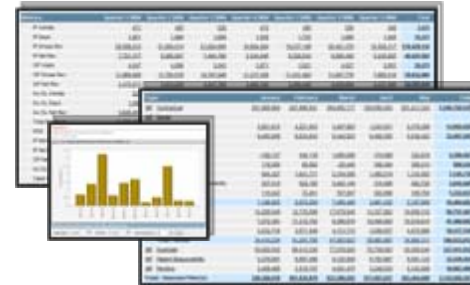
Executive Scorecards

Manager View



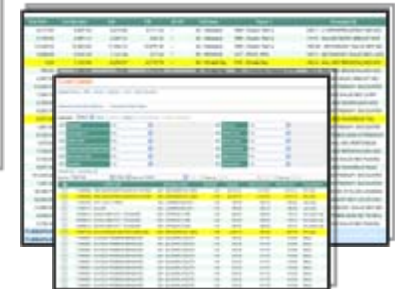
Personal Dashboards

Operational View



Root-Cause Analysis

Work List View



Transaction Detail