

Module 01 **MDM Overview**

IBM InfoSphere Master Data Management



Module Objectives

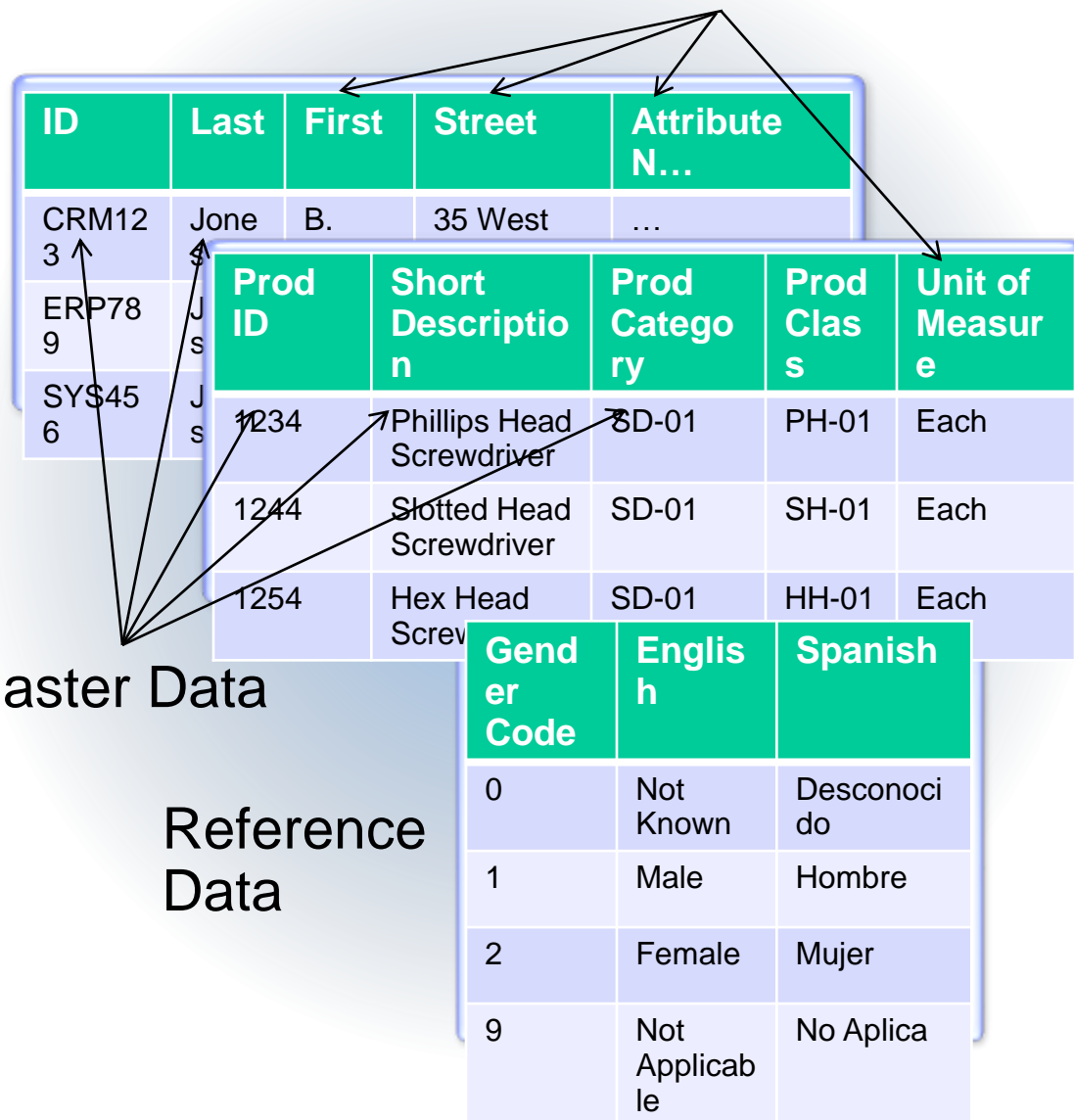
After completing this topic, you should be able to explain:

- Master data, Master Data Management and its importance
- IBM InfoSphere MDM
- IBM InfoSphere MDM v11 new features, functionalities and its strategy

What is Master Data? Why important?

- **Master data** is the high-value, core information used to support critical business processes across the enterprise
- **Master Data** is information about customers, suppliers, partners, products, materials, employees, accounts and more
- **Master Data** is at the heart of every business transaction, application and decision
- **Master Data** is not metadata or reference data

Metadata



Master Data Domains



- **Party** can reflect any legal entity, whether individual or organization.
- **Product** encompasses both physical goods as well as services.
- **Account** includes terms and conditions, and associated relationships.
- **Location** may serve as a primary or secondary domain.

Multi-domain Relationship Management

- Not only must these domains be managed but also the complex relationships among them...

What is Master Data Management (MDM)?

- A discipline that provides a consistent understanding of master data entities
- A set of functionality for data governance that provides mechanisms & governance for consistent use of master data across the organization
- Is designed to accommodate, control and manage change

SOURCE SYSTEMS



ERP

Name: **Billie Jones**
Address: **36 West 15th Street**
Address: **NY, NY 32453**



CRM

Name: **William Jones**
Address: **53 West 15th St.**
Address: **Toledo, OH 12345**



Warehouse

Name: **B. Jones**
Address: **35 West 15th St.**
Address: **Toledo, OH 12345**



Sales

Name: **Barbara Jones**
Address: **35 West 15th St.**
Address: **Toledo, OH 12345**

MASTER DATA MANAGEMENT

Spouse
of

Barbara Jones
35 West 15th Street
Toledo, Ohio 12345

William Jones
35 West 15th Street
Toledo, Ohio 12345

Holds accounts

Account #429
Policy #A43C

Products
owned

Item #44958
Item #99038
Item #00298

OPERATIONAL APPLICATIONS

Call Center



Web Apps



Transactional Applications



ANALYTICAL APPLICATIONS

Campaign Management



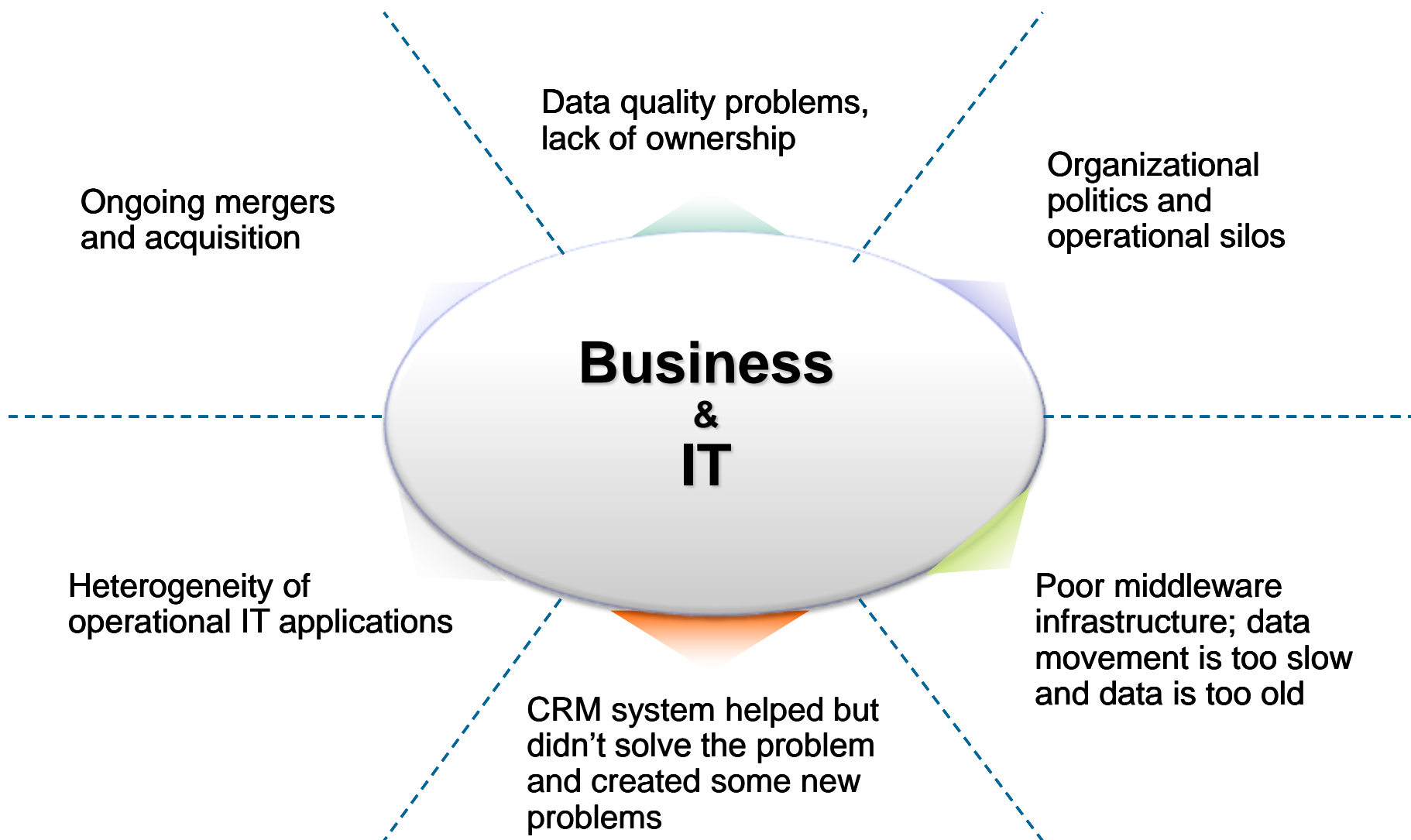
Warehouse/ Analytics



Big Data



Challenges to Creating Trusted Views of Master Data



MDM aligns with key business priorities



Improve business agility
**Integrate new systems
(M&A) in weeks**



Lower operational costs

**Eliminate 2 of 3
CRM systems**



Improve customer service
**Reduce time to search
for customers by 58%**

Measurable Results



New market and
product strategy
**Increase campaign
yields by 5%**



Cross-sell & Up-sell
**Increase average
deal size by 2%**



Comply with regulations
**Improve privacy
preference compliance
by 10%**

IBM InfoSphere MDM – #1 Market Share

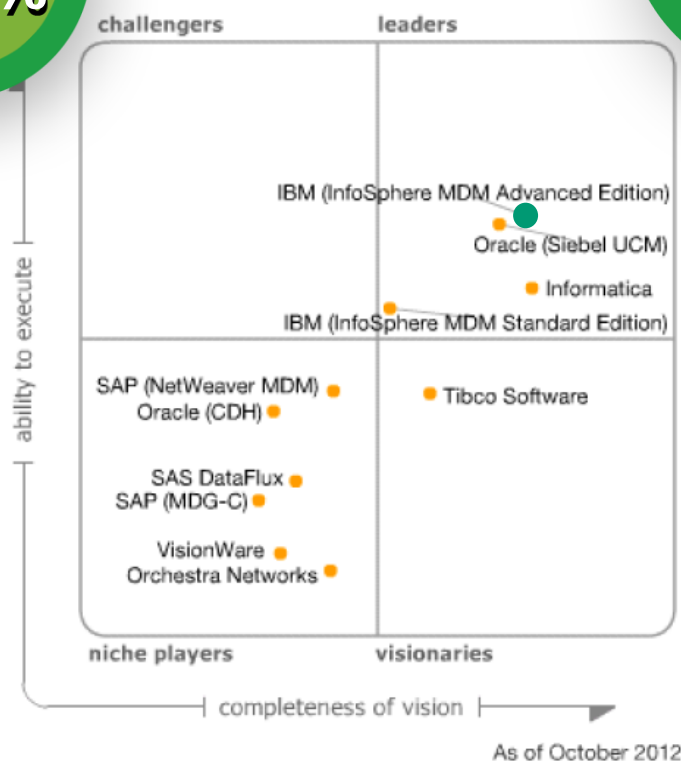


(Source: Gartner – Forecast: Master Data Management Worldwide, 2010-2015, 9 Sep 2011)

IBM is the Market Leader in Master Data Management

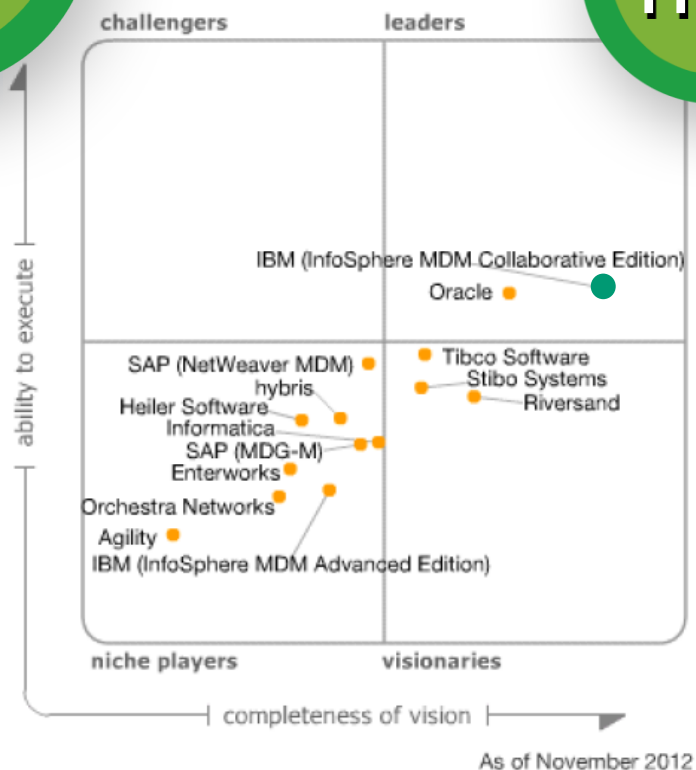
#1
40.3%

MDM for Customer Data



IBM #1
20.1%

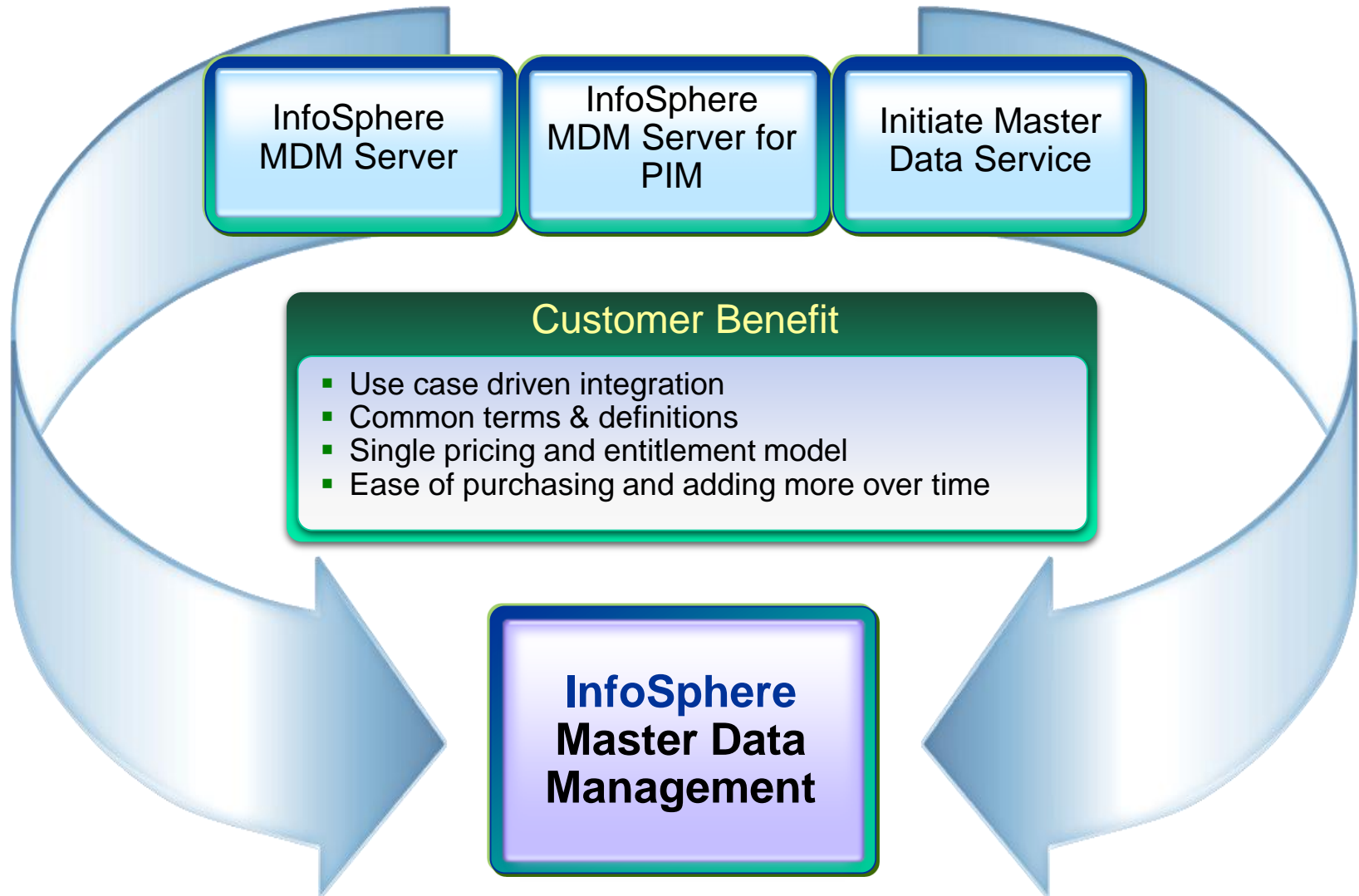
MDM for Product Data



#2
11.2%

Source of Market Share Data: Gartner MDM Forecast: Master Data Management, Worldwide, 2010-2015, November 2012

A Tale about IBM InfoSphere MDM



IBM InfoSphere MDM v11.0 Editions

IBM InfoSphere Master Data Management

Enterprise Edition

Comprehensive

address all your MDM needs with a single comprehensive solution

Advanced Edition

Strategic

strategically transform your organization through improved business processes and applications

Standard Edition

Registry

delivers business value for MDM projects with the quickest time to value

Collaborative Edition

Collaborative Authoring

streamline workflow activities across users involved in authoring and defining master information

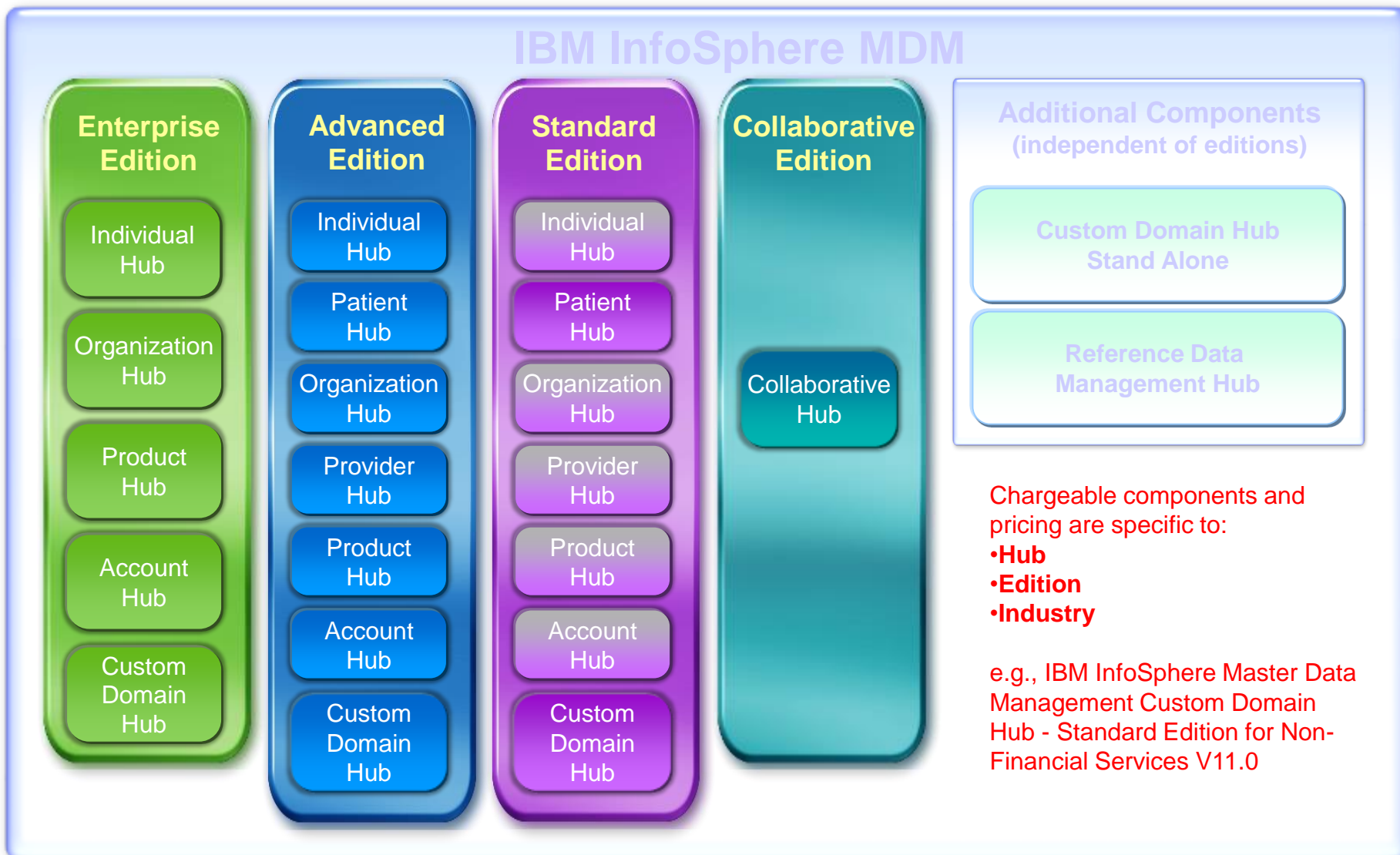
Custom Domain Hub Stand Alone

Enables delivery of trusted information based on custom data domains

Reference Data Management

Manage and define reference data as an enterprise standard

IBM InfoSphere MDM Packaging



IBM InfoSphere MDM – A Solution for all Use Cases

MDM Business Use Cases	Enterprise	Advanced	Standard	Collaborative
Advanced Catalog Management	✓			✓
Asset Management	✓			✓
Centrally Manage Customer Preferences	✓	✓		
CIF Augmentation / Replacement	✓	✓		
Complex Product Definition	✓			✓
Customer Loyalty	✓	✓	✓	
Enterprise Master Catalog	✓	✓		✓
Federal / State / Local Citizen Hub	✓	✓	✓	
Global Data Synchronization	✓			✓
HC Payer – Claims/Eligibility/Member 360	✓	✓	✓	
Hierarchy Management	✓	✓	✓	✓
Improve Call Center Customer Service	✓	✓	✓	
Improve Campaign Marketing Effectiveness	✓	✓	✓	✓
Infrastructure Rationalization/Modernization	✓	✓		
Insurance Underwriting	✓	✓	✓	

IBM InfoSphere MDM – A Solution for all Use Cases

MDM Business Use Cases	Enterprise	Advanced	Standard	Collaborative
Law Enforcement Information Exchange	✓	✓	✓	
Mergers and Acquisitions	✓	✓	✓	✓
Multi-Channel Commerce	✓	✓	✓	✓
New Product Introduction	✓			✓
Operational Efficiency	✓	✓	✓	✓
Pharmacy Exchange	✓	✓	✓	
Parts Management	✓			✓
Product Factory	✓	✓		✓
Product Information Management	✓			✓
Product Bundling	✓			✓
Reference Data Management	✓	✓		
Risk & Compliance	✓	✓	✓	
SOA Alignment	✓	✓		✓
Supplier Collaboration	✓			✓
Supplier Onboarding	✓			✓

Why IBM InfoSphere Master Data Management?



InfoSphere Master Data Management

Improves operational and analytical systems

Complete

- All domains, styles, use cases, industries
- Master data governance
- Pre-built, extensible and customizable data models and services

Accessible

- Designed for big data
- Cloud and mobile options
- Integration across InfoSphere solutions
- Optimized for real time

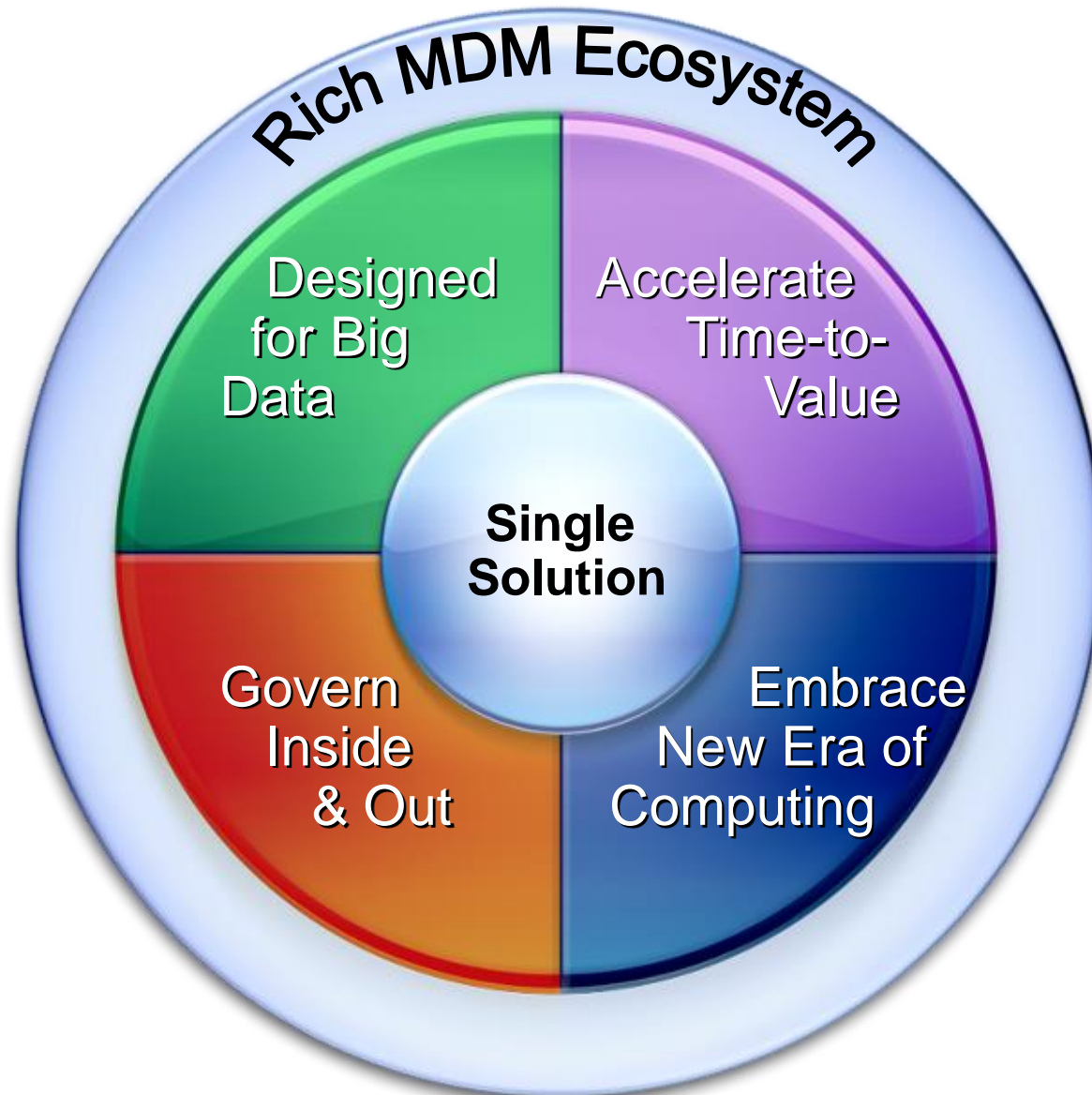
Flexible

- Virtual, physical and hybrid styles in a single solution
- Collaborative workflow
- Reference data management
- Entity resolution

Proven

- #1 market share
- 800 + customers
- Lowest risk, Quickest time to value
- Global reach
- Scalability, performance

InfoSphere MDM Strategy



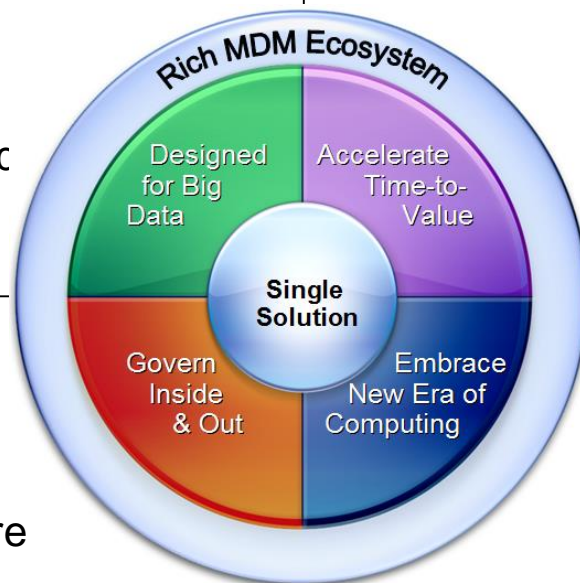
InfoSphere MDM Strategy

Designed for Big Data

- Scale into the billions of records
- Combine structured master data with insights from unstructured data
- Integrate with IBM's capabilities for exploring and visualizing big data

Govern Inside & Out

- Built-in governance capabilities unique to MDM
- Integrated to IBM InfoSphere
- Support both 'passive' and 'active' governance of master data
- Support OOTB governance policies + client-unique policies



Accelerate Time-to-Value

- Simplify implementation process
- Pre-built accelerators
- Easily adjust MDM implementation 'style'
- Built into broader IBM solution offerings

New Era of Computing

- MDM 'patterns' for IBM Pure Application System
- Expose master data easily to mobile platforms
- Exploit mobile-device generated data as part of master data (e.g. geolocation)

MDM v11 New Features and Functionality

Accelerate Time to Value



- Virtual, physical and hybrid MDM styles in a single instance
- Modular implementations and upgrades
- Collaborative authoring UI enhancements

Designed for Big Data



- Augment master data with unstructured text
- Expanded patient hub to include clinical attributes

Governance Inside & Out



- Data quality via integration with InfoSphere Information Server
- Enhanced hierarchy support for reference data
- Dashboard for collaborative authoring workflow
- Task KPIs to monitor master data quality

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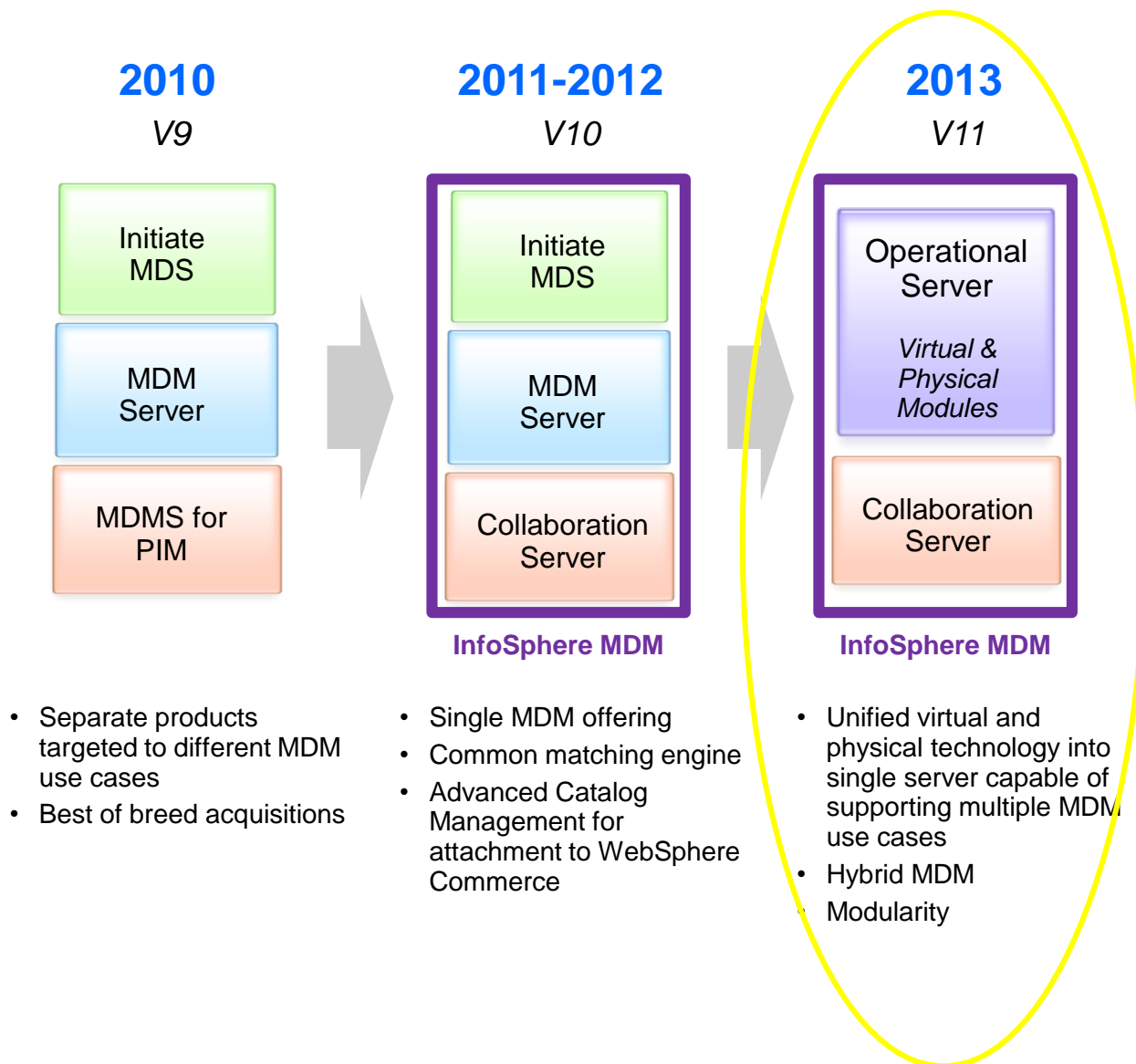
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Transforming InfoSphere MDM into a unified MDM solution



Unification of MDM Virtual & Physical

- Multi-style, multi-domain MDM in a single operational hub
 - Single database instance and schema
 - Engine co-residence (WAS container)
 - Simplified deployment and management (based on OSGi)
 - Unified MDS/MDMS workbench for configuration and customization
 - Unified MDS/MDMS installer
 - Integration with IBM Support Assistant Data Collector

Business Use Cases Benefit from Hybrid MDM

Thin amount of
prospect
attributes –
**Registry
Approach**



**Immediately Post
Acquisition**



Persist large number
of customer
attributes
**Centralized
Approach**

**Business Processes
Integrated**



InfoSphere MDM

Maintain and move prospect
and customer information
seamlessly in a single solution;
persist information
Hybrid Approach

MDM v11 New Features and Functionality

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Governance Inside & Out



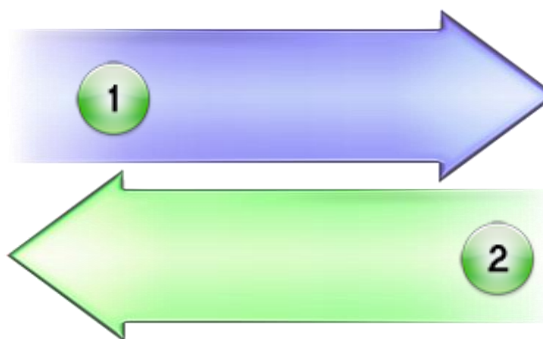
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MDM and Big Data Must Work Together

Master Data
Management



Core Big Data
Technologies



1 MDM creates
context for big data.

MDM system provides
trusted information and
operationalizes insights
from big data

2 Big data creates
context for MDM.

Big data provides new
insights from social media
and other sources for
customer profile

The 5 Key Use Cases



Big Data Exploration

Find, visualize, understand all big data to improve decision making



Enhanced 360° View of the Customer

Extend existing customer views (MDM, CRM, etc) by incorporating additional internal and external information sources



Security/Intelligence Extension

Lower risk, detect fraud and monitor cyber security in real-time



Operations Analysis

Analyze a variety of machine data for improved business results



Data Warehouse Augmentation

Integrate big data and data warehouse capabilities to increase operational efficiency

MDM v11 New Features and Functionality

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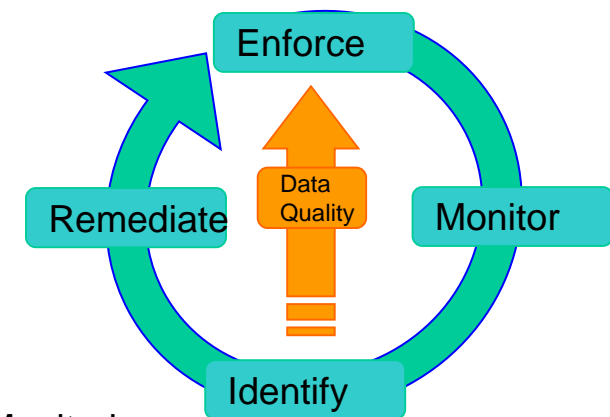
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Master Data Governance in MDM 11

- Business Processes require trusted data
- Trusted data requires data governance
- IBM providing capabilities to facilitate construction and adoption of these applications
 - MDM Application Toolkit (MDAT) - Improved
 - Master Data Policy Monitoring (MDPM) – Improved
 - Master Data Policy Remediation (MDPR) - Improved
 - Master Data Governance Dashboard (MDG) - New

**Enforce**

policy rules through Master Data Policy Remediation

Monitor

the effectiveness of your rules through Master Data Policy Monitoring

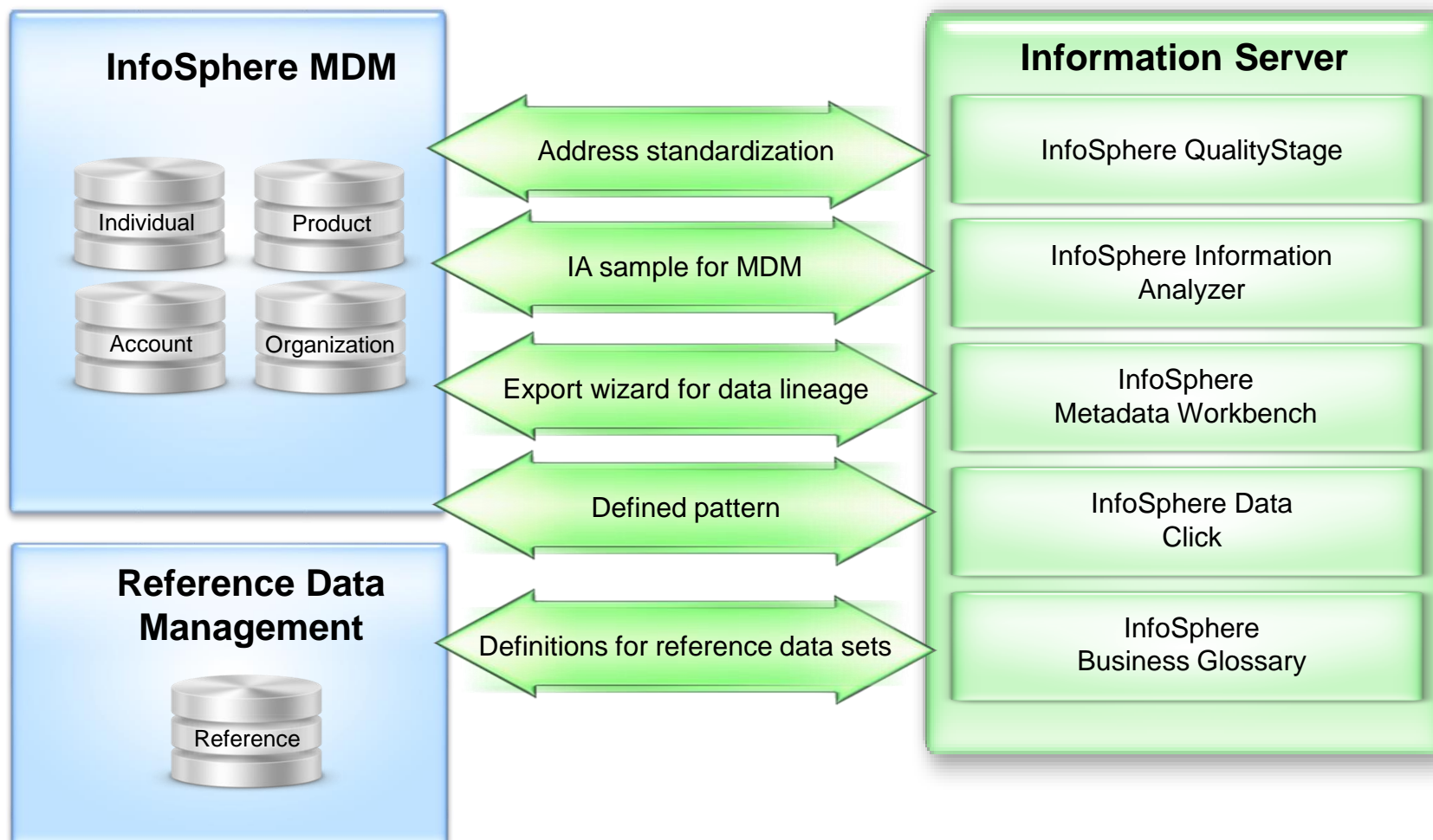
Identify

quality issues through Master Data Policy Monitoring and the MDG console

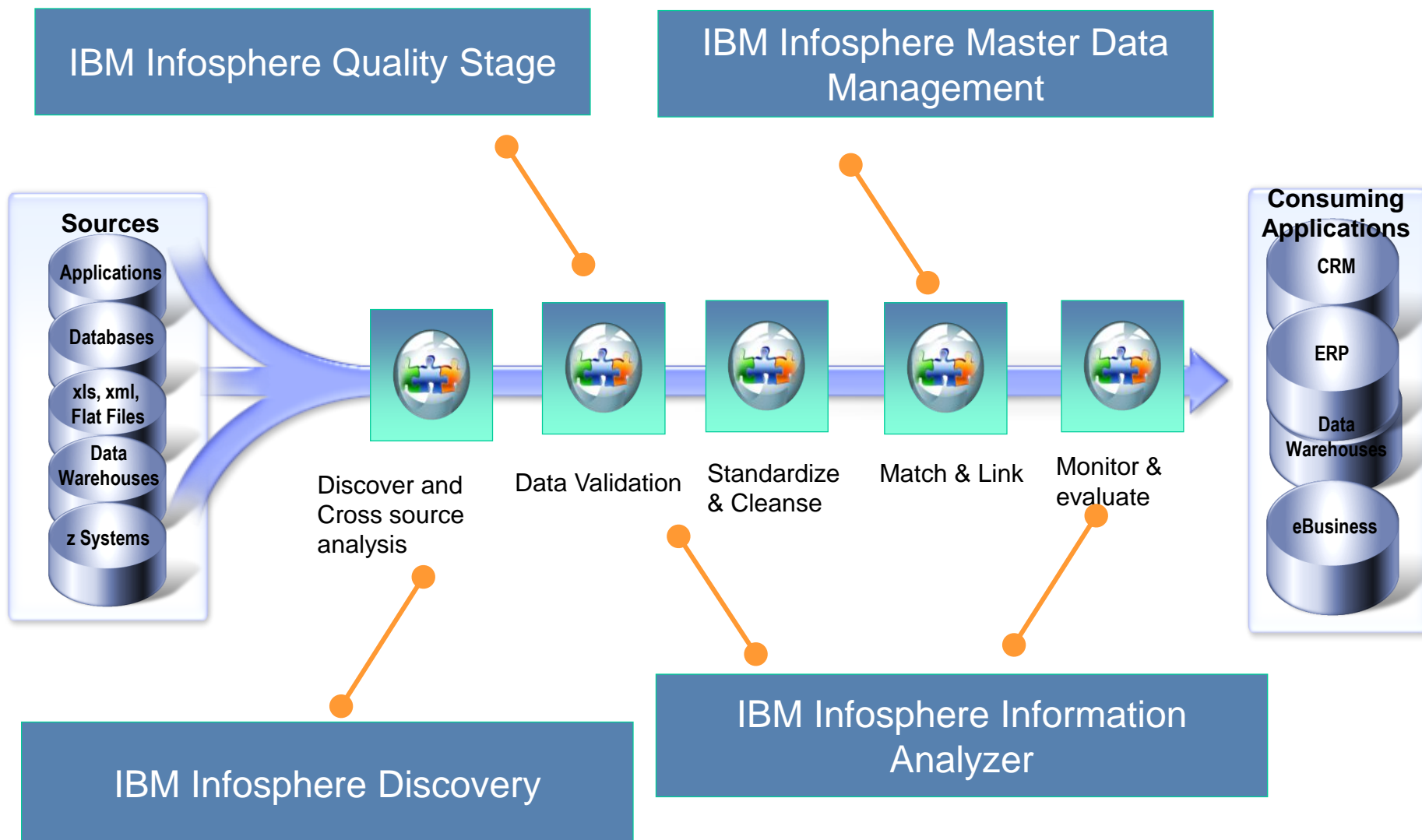
Remediate

data quality issues through Master Data Policy Remediation and the MDG console

Integration with Information Server



Integration Flow – MDM & Data Quality



Summary



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