



From silos to services



ITIL v3 Configuration Management System

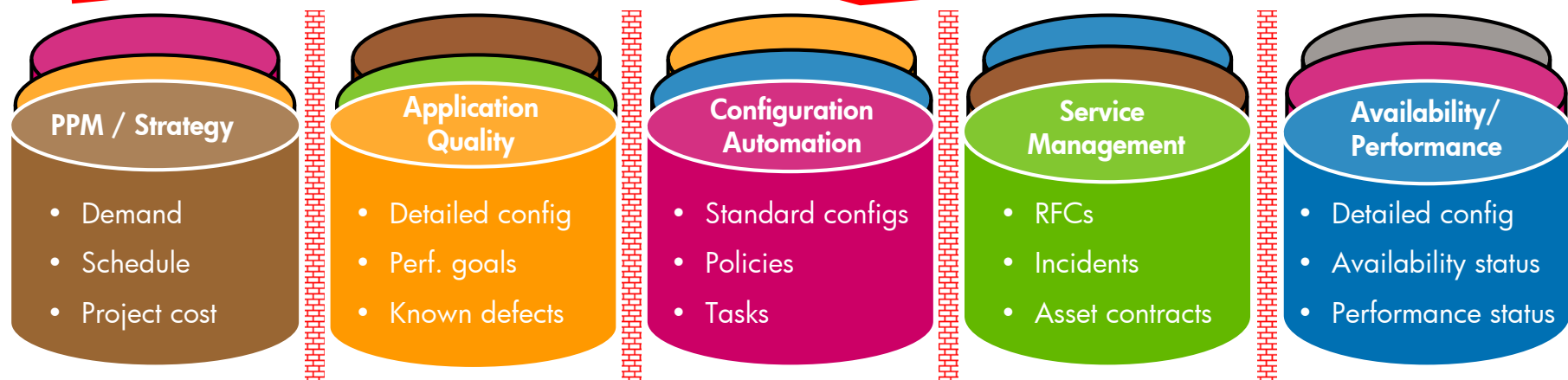
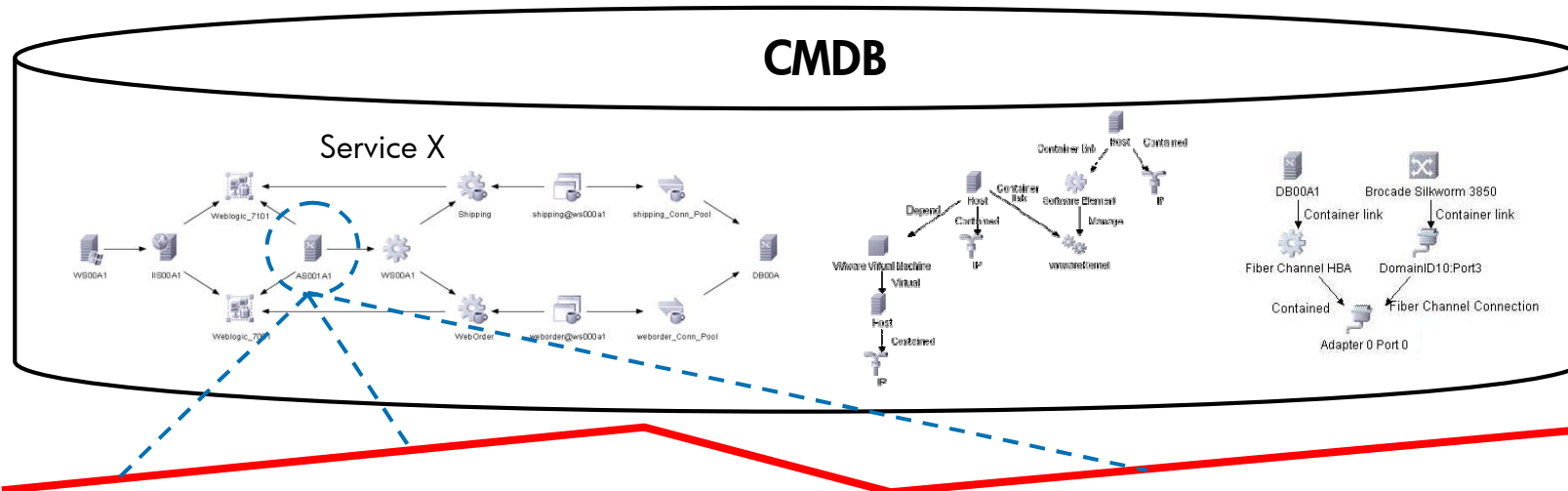
Presenter name

Presenter title

Optimize the business outcome of IT

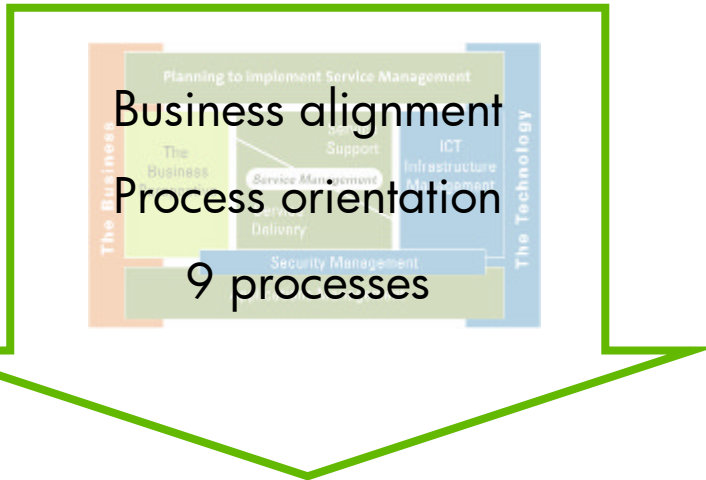
Distributed service information complicates IT challenges

- **Managing change** without visibility to detailed configurations
- **Isolating problems** without incident and change visibility
- **Optimizing applications** without production environment visibility

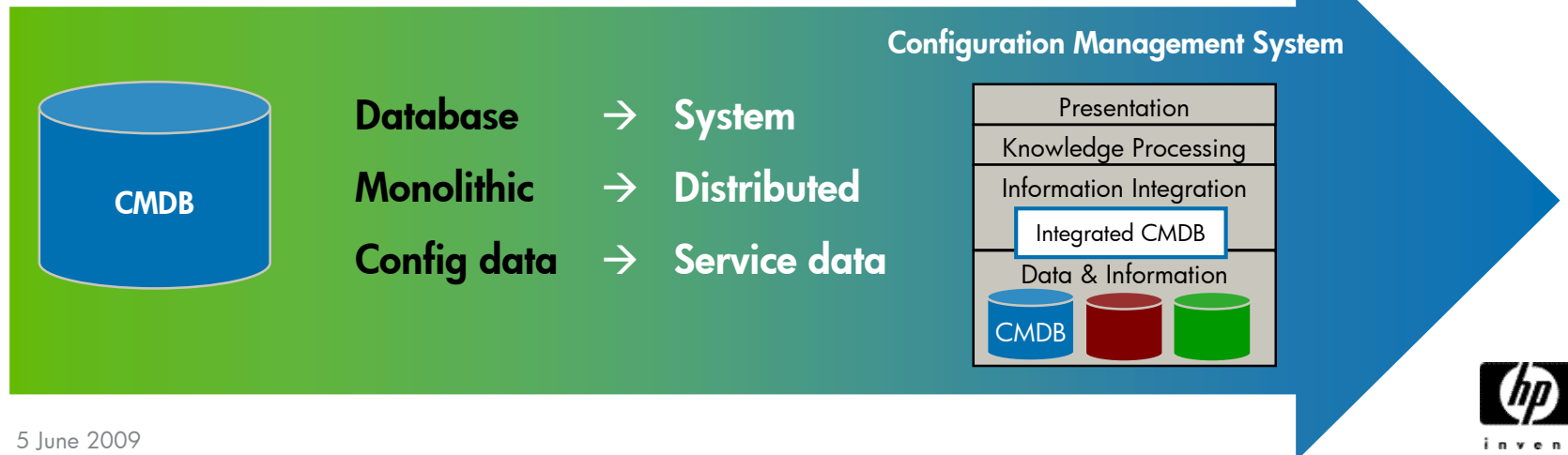
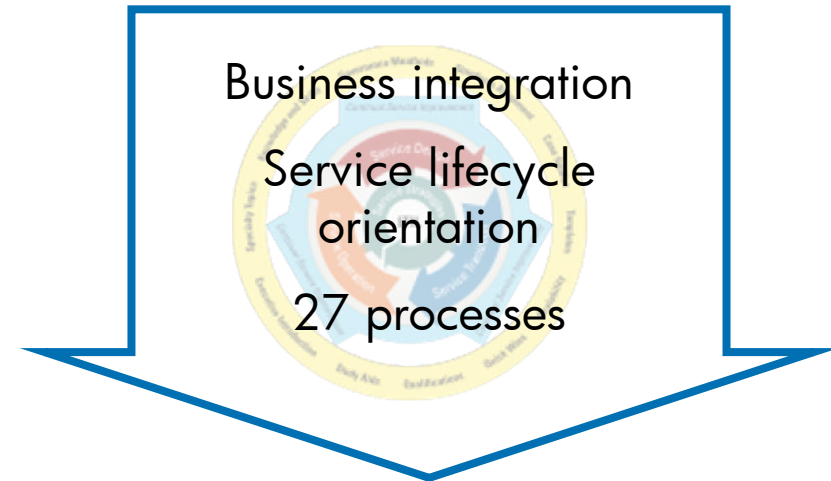


ITIL v3 addresses cross-domain data sharing with Configuration Management System (CMS)

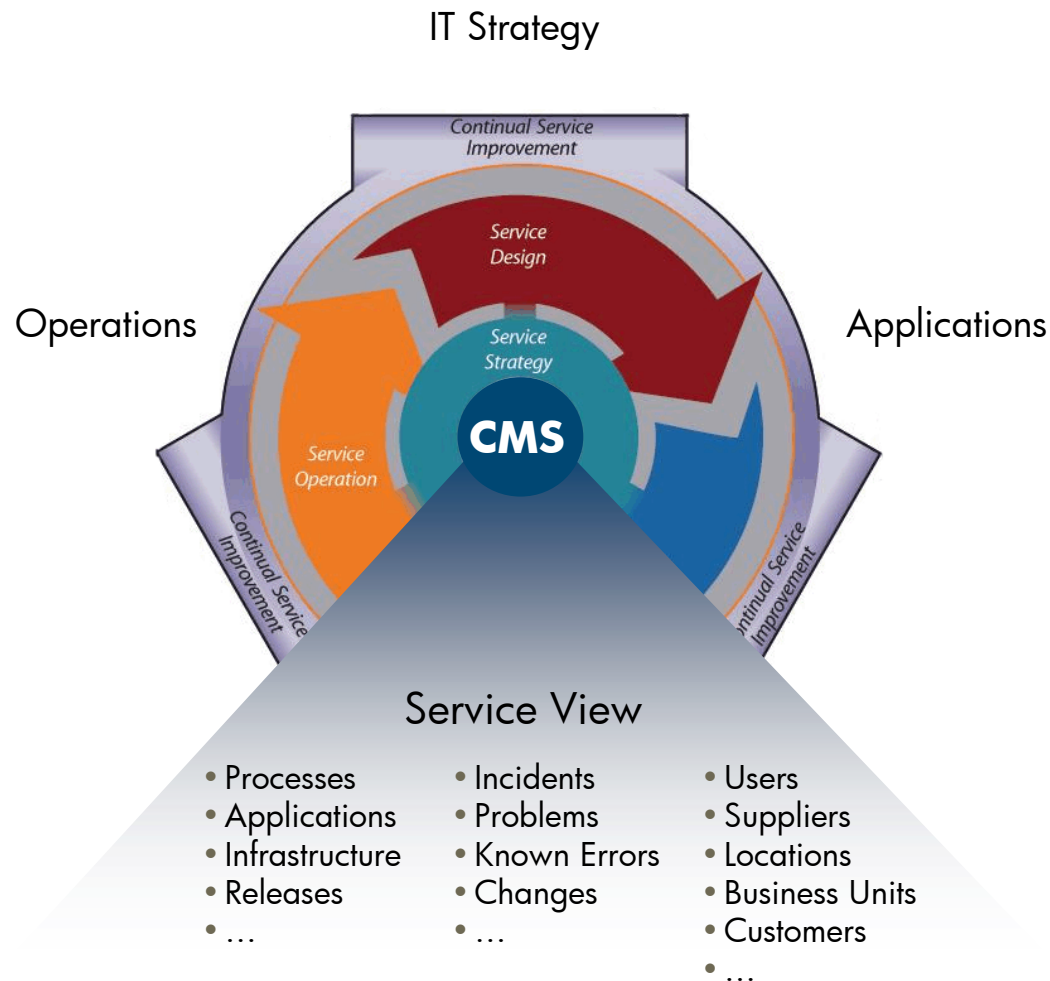
2000: ITIL v2



2007: ITIL v3



A Configuration Management System provides a shared view of service information



ITIL Version 3:

Service Transition

A Configuration Management System is a set of tools and databases that are used to manage an IT Service Provider's Configuration data. The CMS also includes information about Incidents, Problems, Known Errors, Changes and Releases, and may contain data about employees, Suppliers, locations, Business Units, Customers and Users.



"With or without ITIL, companies need something like a CMS to organize and better integrate fragmented management tools."

– Dennis Drogseth,
Vice President, EMA

Why a CMS? Shared view of service data is foundational to critical IT objectives

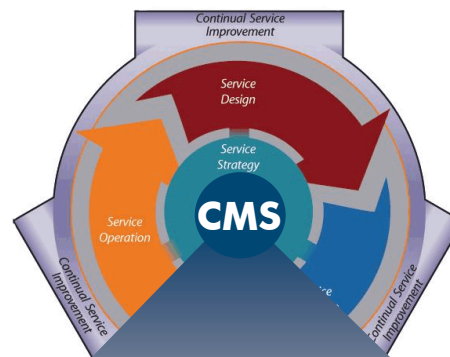
Drive continuous service improvement with a shared view of services throughout their lifecycles

IT Strategy

Identify and prioritize opportunities for **better business outcomes** by understanding service performance and availability, known errors, consumption and cost

Applications

- **Raise application quality** by using production visibility for optimizing, testing and handoff
- **Improve application value** with visibility into current and historical operational issues



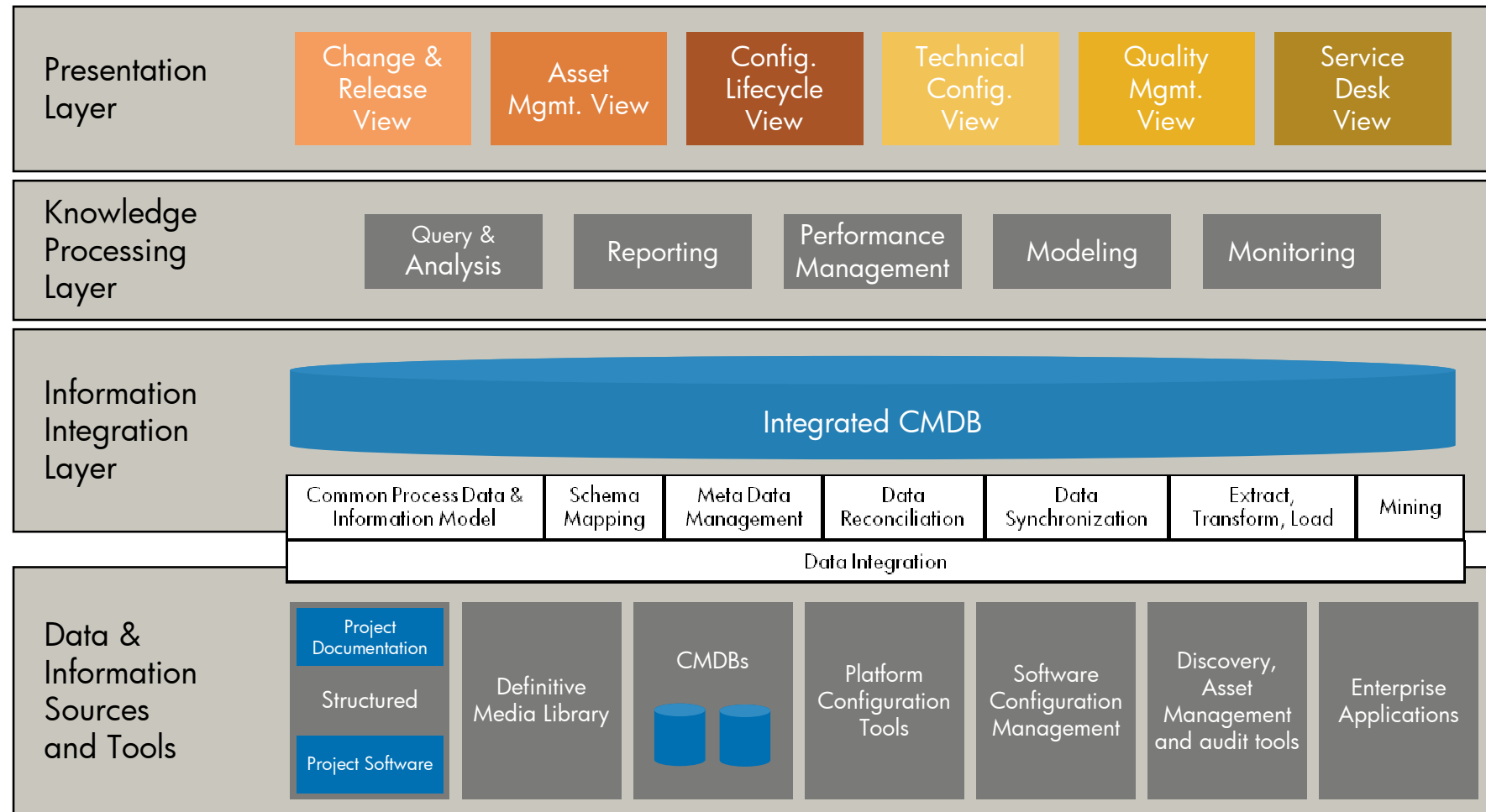
Operations

- **Minimize change impact** and **accelerate problem isolation** with detailed configuration info
- **Better align SLAs and OLAs** with services' desired business outcomes

Service view

- | | | |
|------------------|----------------|------------------|
| • Services | • Incidents | • Users |
| • Processes | • Problems | • Suppliers |
| • Applications | • Known Errors | • Locations |
| • Infrastructure | • Changes | • Business Units |
| • Releases | • Releases | • Customers |
| • ... | • ... | • ... |

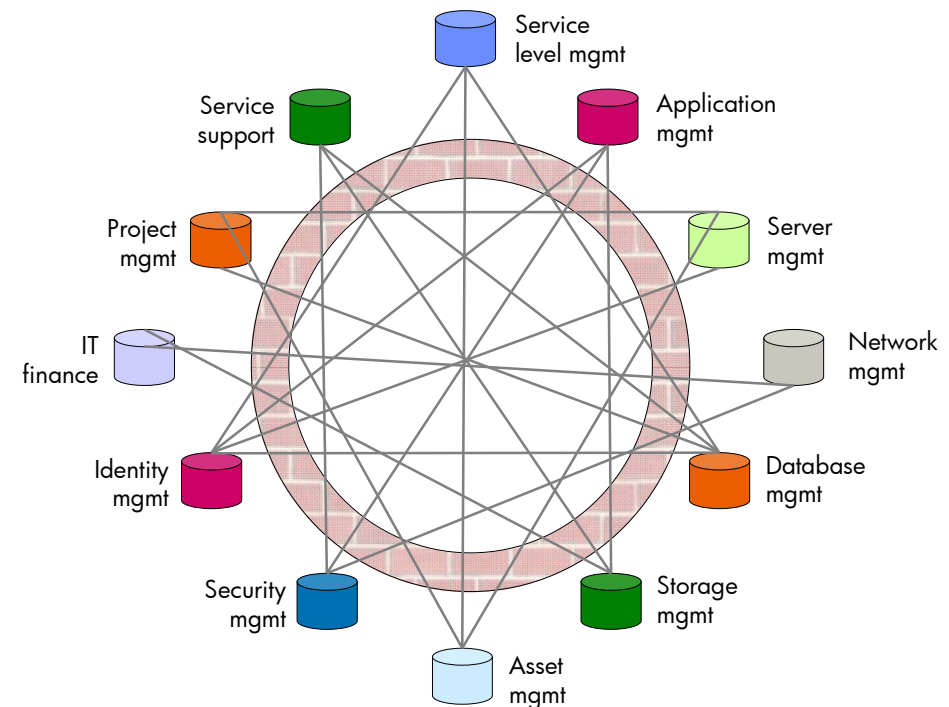
A CMS is a system of systems: data sources and clients facilitated by integration



How do you create a CMS?

Limitations to traditional data integration approaches

- Data must come from and go to different tools, models and contexts
- Too many integrations to hardwire point-to-point
- Too dynamic to replicate in single repository



Users need service data that is current, complete and authoritative

Federation is threaded throughout CMS

“The CMDB term is itself an unfortunate misnomer, as it implies a monolithic model, structured around a sole database that will ultimately fail.

A refined direction is a federated approach to the CMDB, with raw data distributed across the enterprise and linked with object models and metadata.

Federation is threaded throughout the ITIL v3 notion of the configuration management system (CMS).”

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Forrester Research, “A Federated CMDB Remains Distant, But Start Now”, June 30, 2008, **Glenn O'Donnell**

Federation makes a CMS practical and actionable

Practical

Distributed

Data stays in authoritative repositories

Open

Extracts new value from existing tools

Transparent

Data seamlessly accessed from external sources

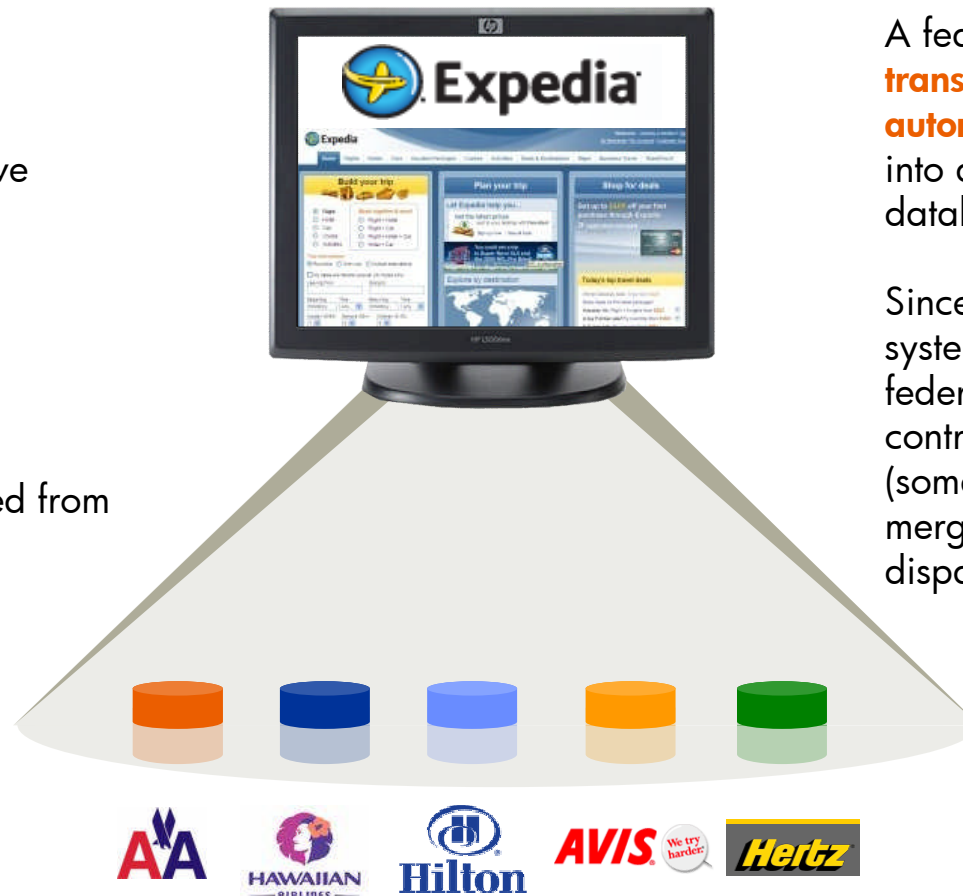
Actionable

In service context

Info related to apps and services

In user context

Per role and task of users and client apps



A federated database system **transparently integrates** multiple **autonomous** database systems into a single federated database.

Since the constituent database systems **remain autonomous**, a federated database system is a contrastable **alternative** to the (sometimes daunting) task of merging together several disparate databases.

—Wikipedia

View-Only vs. Actionable Federation

Plan a trip from San Francisco to Honolulu,
3/16 to 3/25

View Only
Launch-in-Context

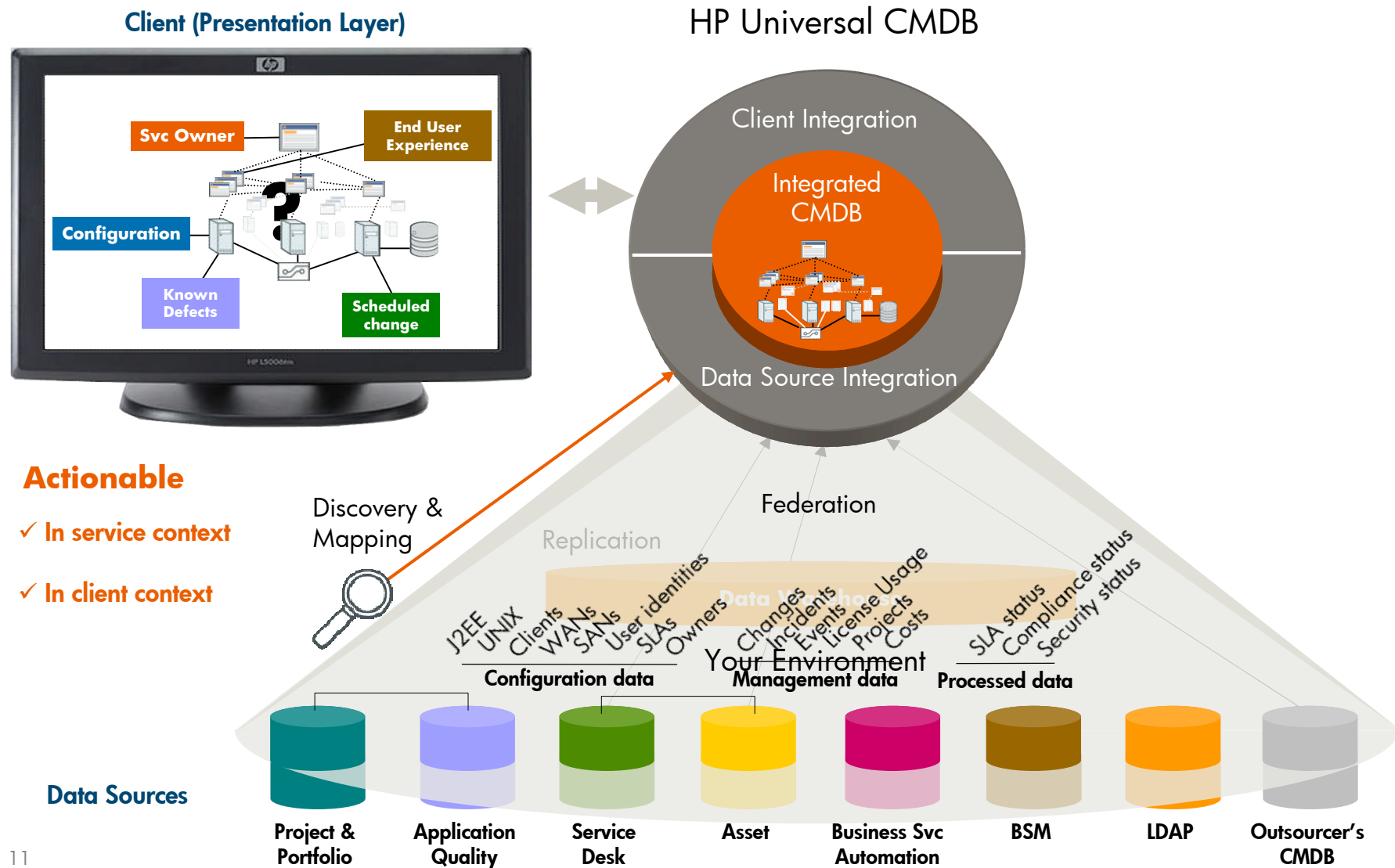


Actionable Federation



- Sort by price
- Change return to 3/24

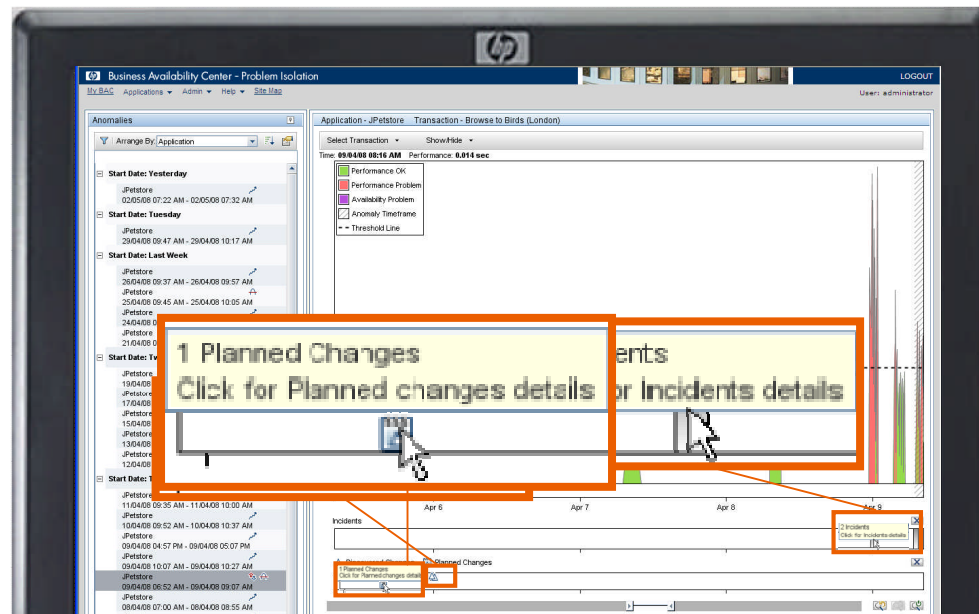
CMS With Actionable Federation: dynamic access to distributed data in service context



Reduce MTTR with federated change and incident visibility in HP Problem Isolation

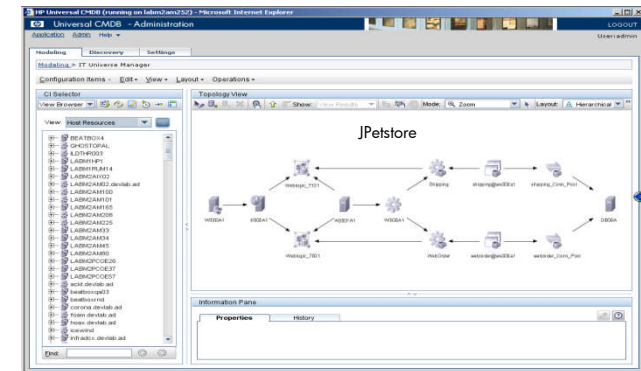
HP Business Availability Center
Problem Isolation

HP Universal CMDB



Planned Changes Details

Number	CI Name	CI Type	Description	Category	Priority	Urgency	Impact	Risk	Status	Approval	Start	End
C21	vmanrmd06.devlab.ad	Windows	Add new service	RFC	1	2	1	2	initial	pending	30/03/08 05:00 AM	31/03/08 07:00 AM



Update Incident Number IM10011

Incident ID	Open Time	Update Time	Alert Status	Category	Brief Description
IM1005	12/29/00 10:27:19	04/07/08 04:31:24	updated	shared infrastructure	Cannot read information on disk. Messages of "can't read" and "can't seek"
IM1007	12/29/00 16:33:43	04/07/08 04:32:18	updated	client system	Can't get the controller to recognize a 3rd party external disk drive. She
IM1001	12/29/00 10:13:57	04/07/08 04:31:56	updated	telecoms	Phone is going dead intermittently.
IM1023	12/29/00 13:14:30	04/07/08 04:32:39	updated	shared infrastructure	*Received an svc09 error in the JES log for the PHWS job. Developer: check next breed new

Incident Number: IM10011 Ticket Status: Open

Incident Title: Long time for Rapture category to load

Alert Status: open Owner: bac_user

Category: Business applications Primary Assign Group: AUTO

Subcategory: Client dependent Assignee Name:

Product Type: Client dependent support sof Second Assign Group: TBA

Problem Type: Server Hot Ticket: ☐ Total

Manufacturer: Unknown Initial Impact Assessment: 4 - User

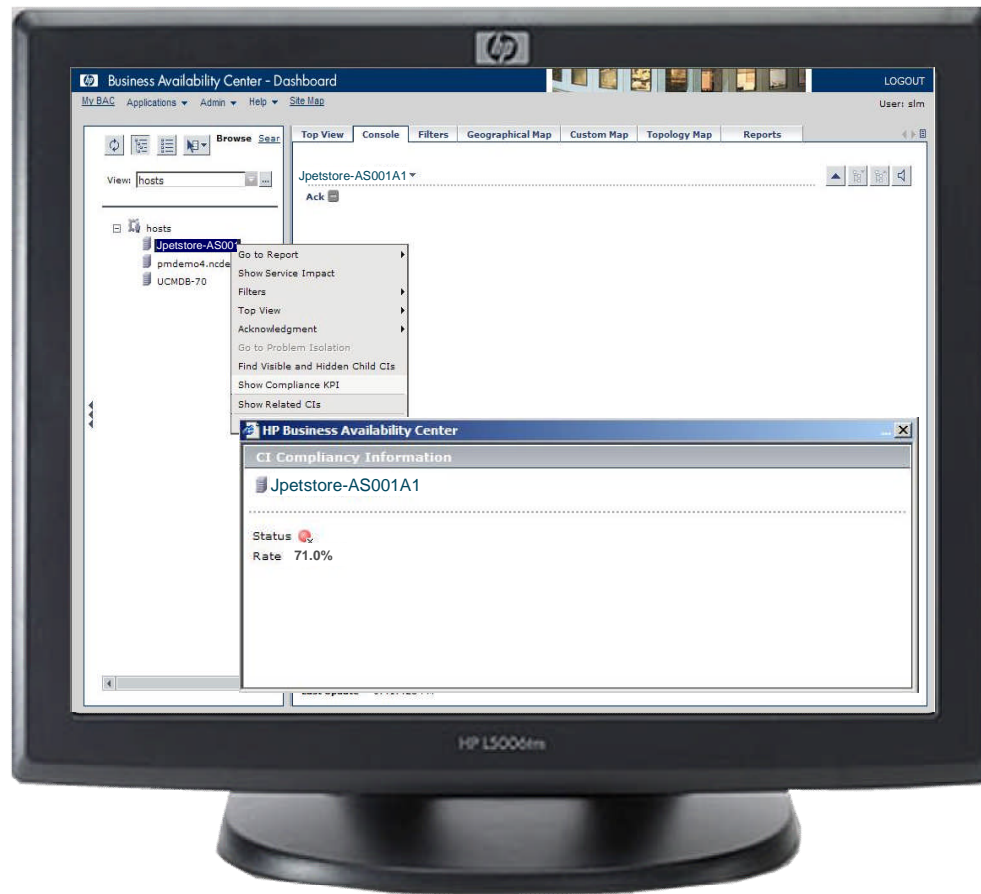
Class: Urgency: 4 - Low

HP Service Center

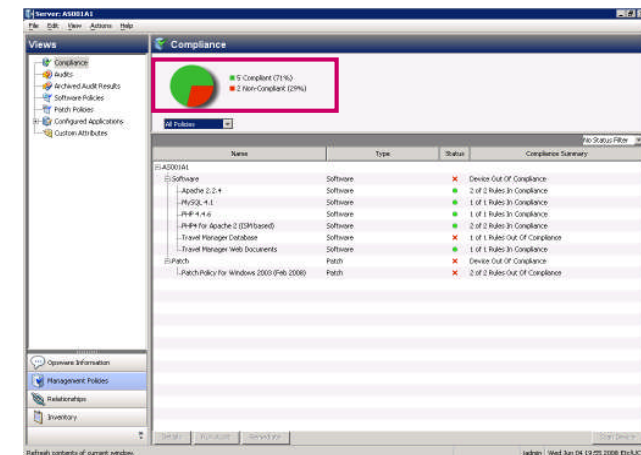
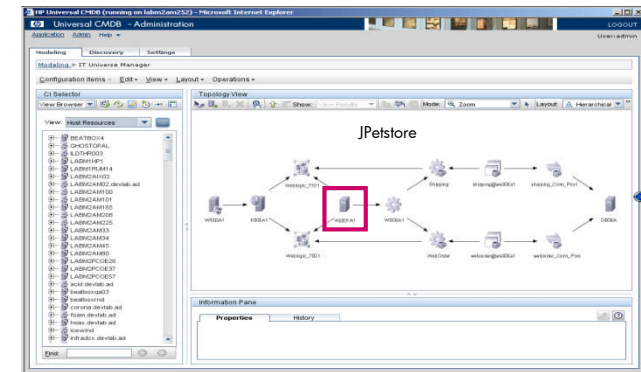


Reduce MTTR with federated configuration compliance visibility in BSM Dashboard

HP Business Availability Center
Dashboard



HP Universal CMDB



HP Server Automation

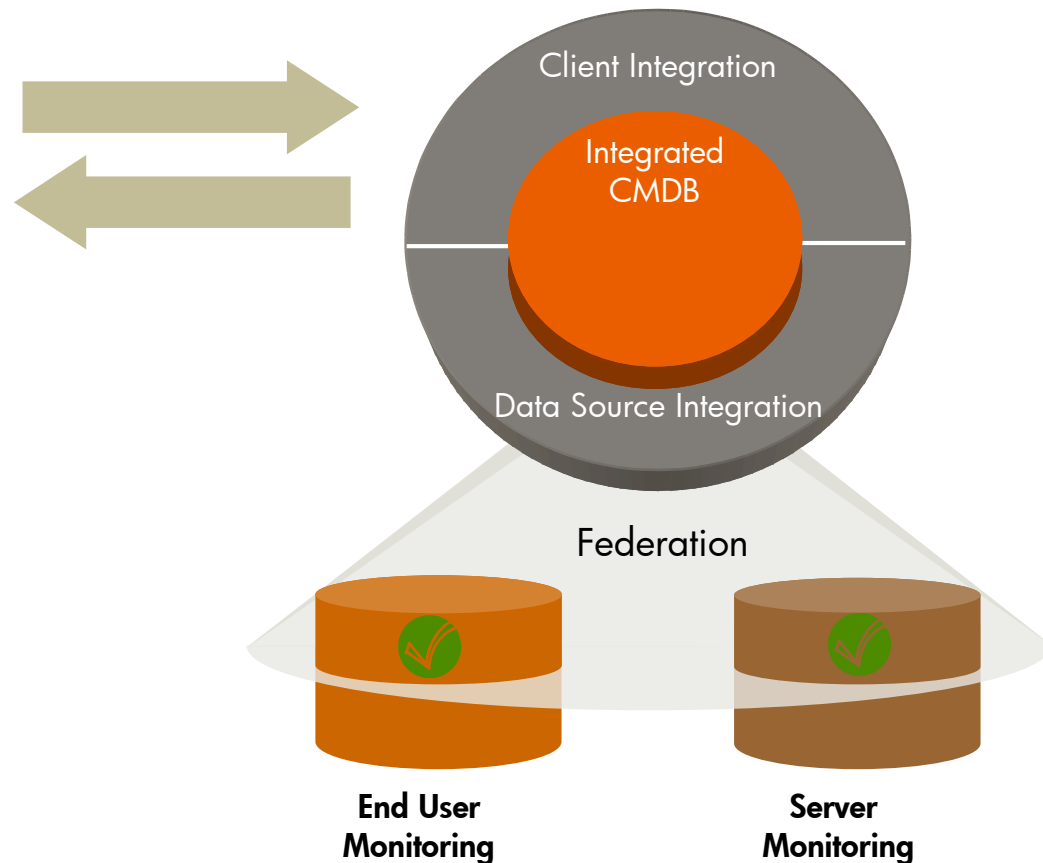


Accelerate change audit with service status visibility

1. Change Manager verifies SAP patch
2. Queries CMS for service performance, availability
3. CMS checks SAP service status
4. Single result for all CIs appended to RFC

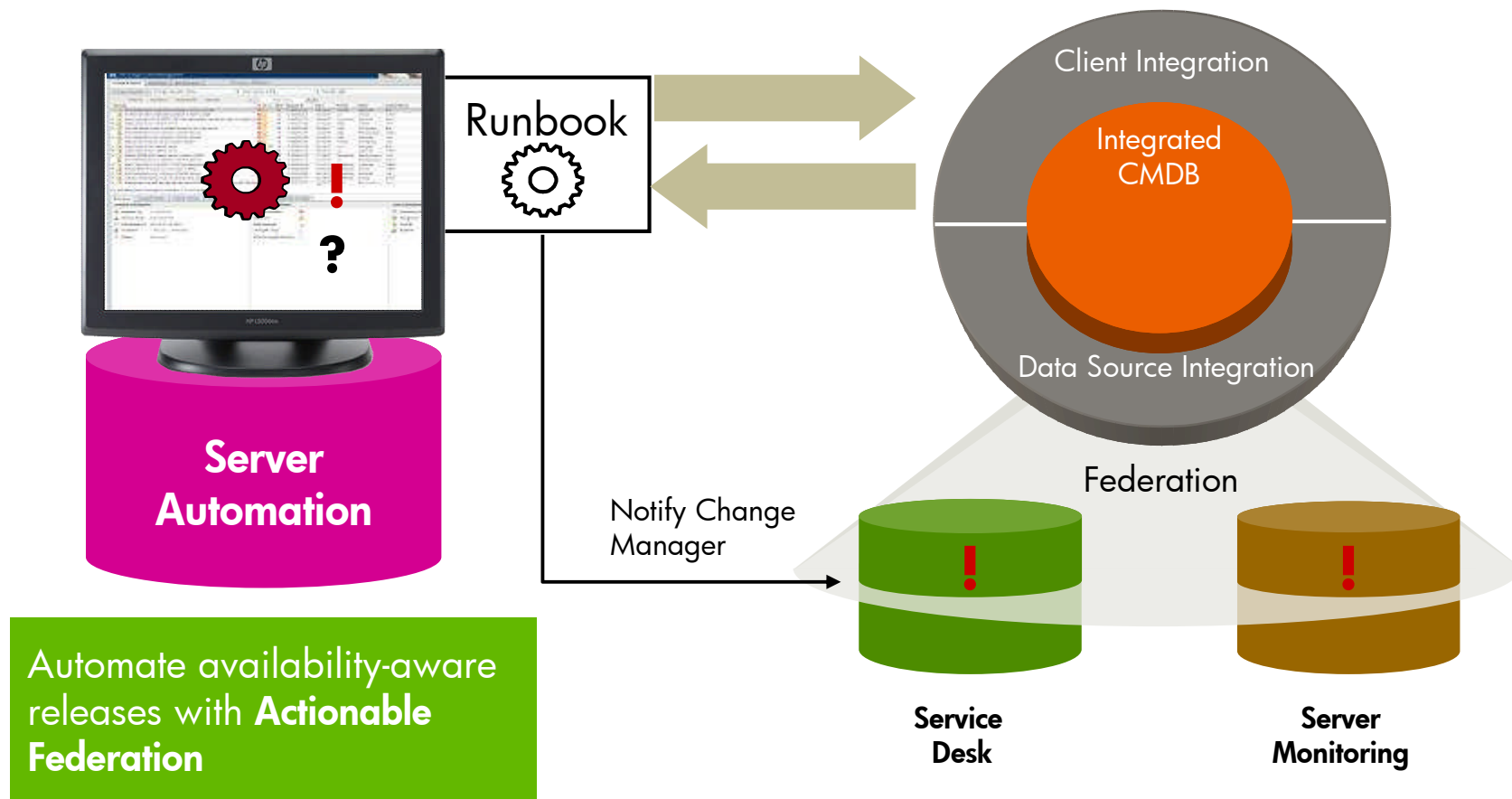


Automate closed-loop change with **Actionable Federation**

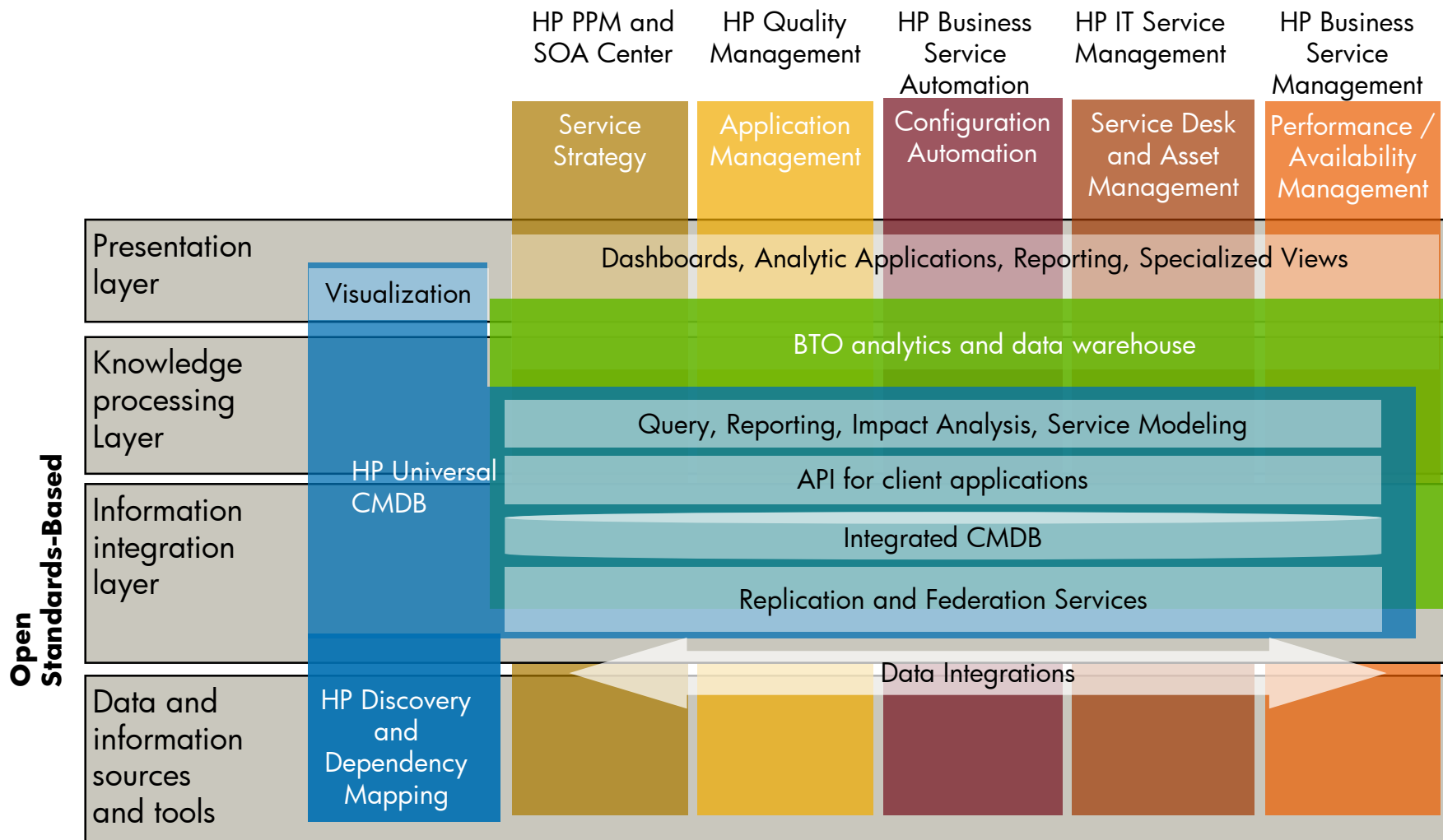


Improve release outcomes with service status visibility in service automation

1. SAP enhancement scheduled for deployment
2. Server Automation queries CMS for status of the target servers
3. Query reveals open server incidents and availability alerts
4. User delays deployment
5. Automate with Runbook

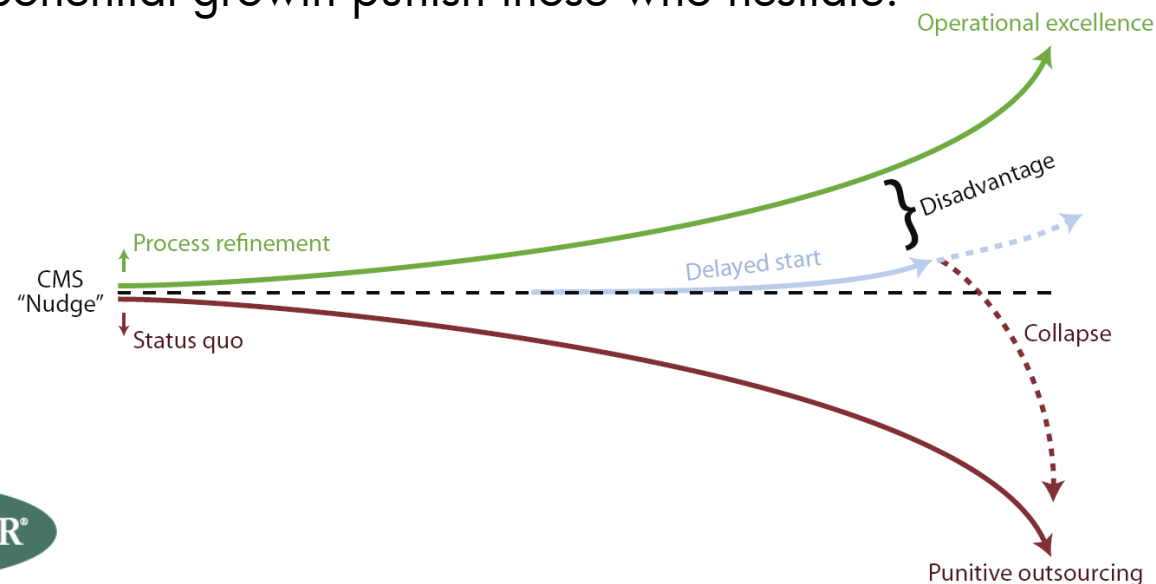


HP BTO Approach to Configuration Management System



Get started now on CMS journey

“Benefits from CMDB/CMS efforts — such as incident and problem management, risk mitigation of changes, trustworthy business services — compound over time, yielding an exponential growth in returns that will **create the IT superstars of the future**. On the other hand, **delays impose disadvantages like continued operational deterioration**. This exponential “butterfly effect” means Herculean efforts are needed to overcome early-stage delays, as the laws of exponential growth punish those who hesitate.”

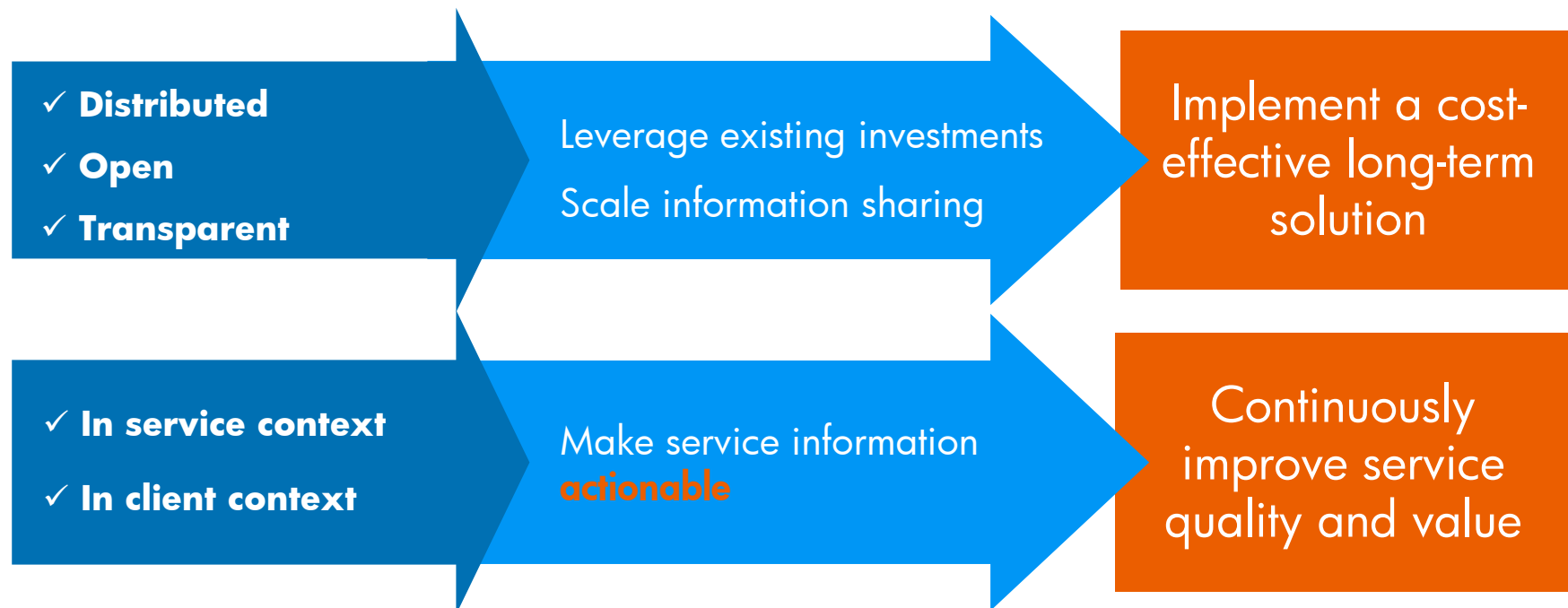


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Forrester Research, “A Federated CMDB Remains Distant, But Start Now”, June 30, 2008, Glenn O’Donnell

Why HP for CMS?

- Most complete IT management software portfolio
- Deep operations and ITIL process expertise and services
- Leading products, integrated ecosystem for federated CMDB and discovery





Thank You



Optimize the business outcome of IT