

March 25, 2014

Overview of IBM Cloud Integration

Adam Gunther

Program Director, Cloud Offerings, WebSphere Product Management

Matt Lucas

Lead Architect, IBM Integration Bus



Agenda

- Market Observations
- API Economy
- Integration
- IBM Cloud Integration Offerings

The world is changing and each of these technology shifts has potential to make a significant impact.

Big Data

90



percent of the data created in the last two years alone.

Mobile

1



billion (plus) smart devices shipped in 2013 alone.

Social

81



percent of customers depend on social sites for purchasing advice.

Cloud

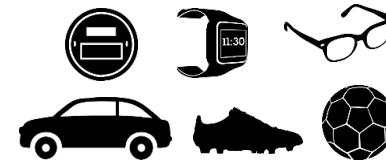
62



percent of total workloads will be in the cloud by 2016.

Internet of Thing

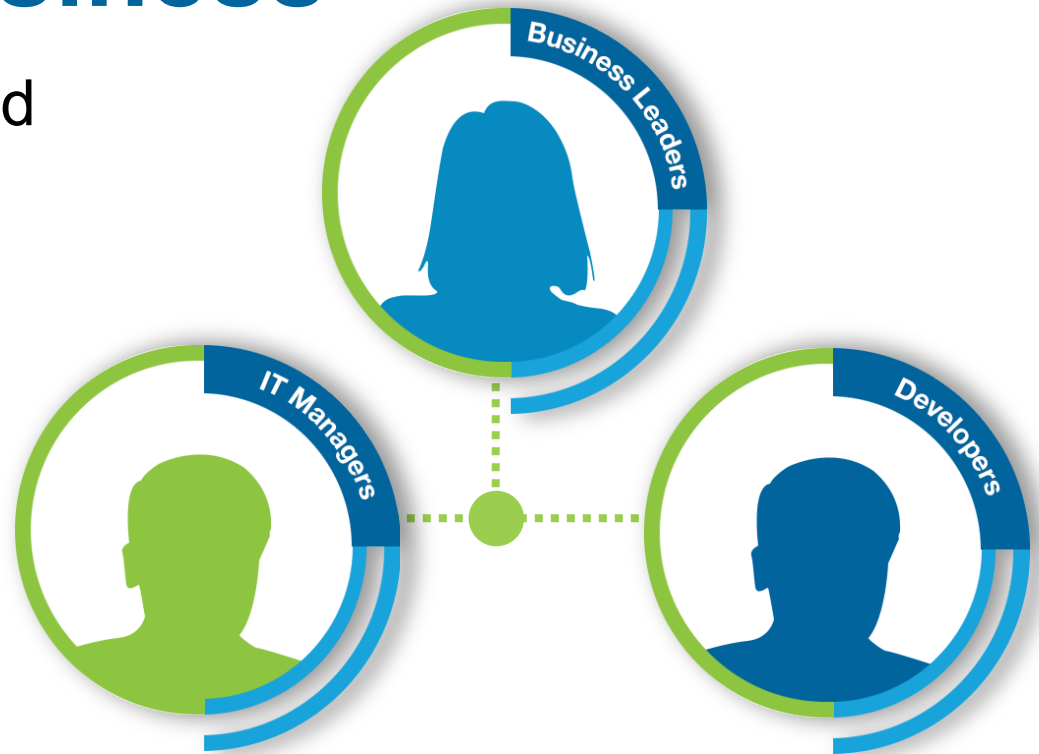
75



billion devices connected to the internet by 2020.

The Future is a Composable Business

- Restless reinvention and process innovation
- Better decision making from actionable insight
- Speed to market



The Path to
**Composable
Business**

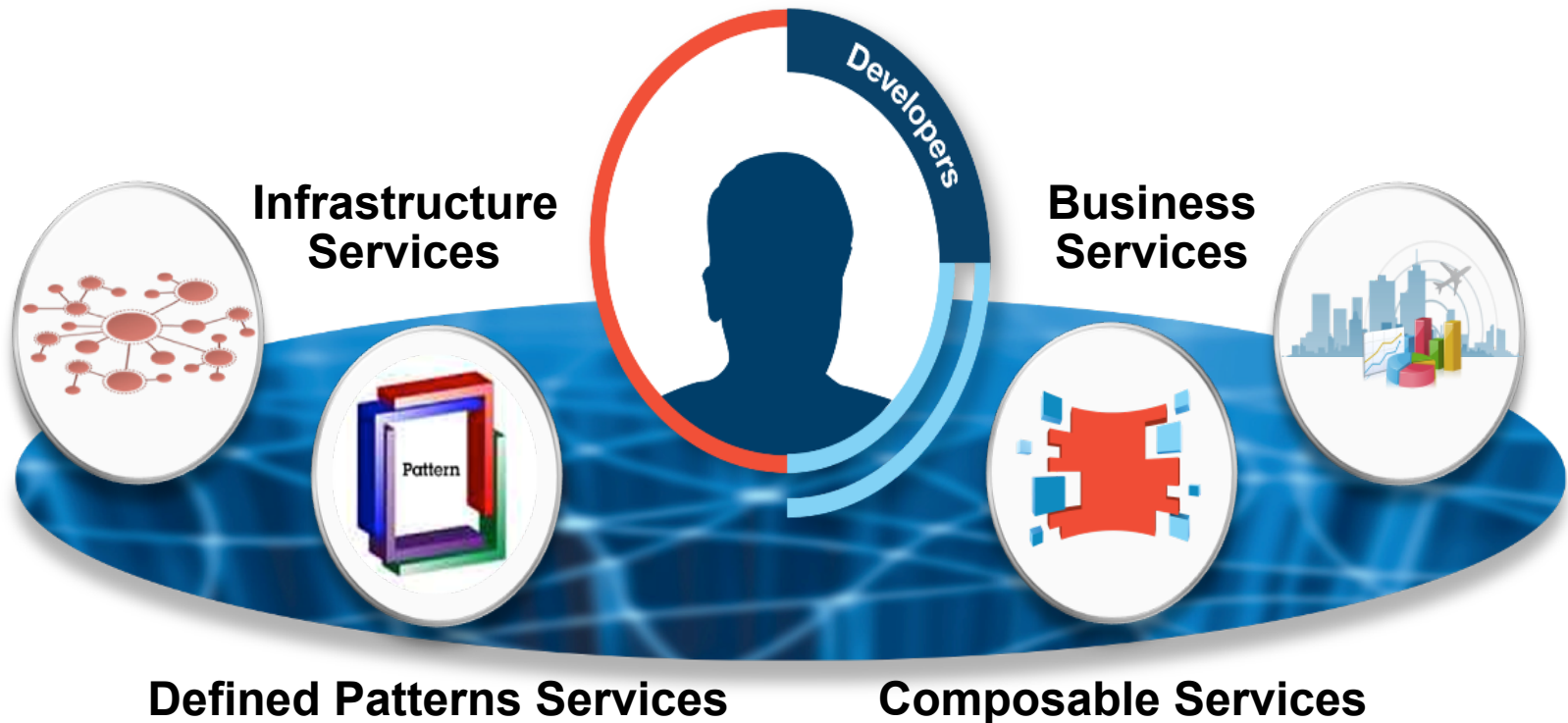
IS Dynamic Cloud



The ability to dynamically consume, interconnect and orchestrate all types of clouds and IT to speed innovation and adapt to changing business conditions.

Composable Business Requires a Continuum of Services

Ranging from an IaaS based virtual machine to a SaaS application



Public or Private? Dynamic is the future

Private Cloud & IT

**Benefits:**

- Fully customizable
- Robust management
- Secure by design



Public Cloud

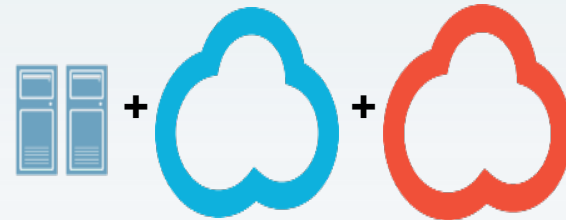
**Benefits:**

- Low entry cost
- Pay-per-use
- Highly elastic

Dynamic Cloud



**Best of both worlds.
Better outcomes.**



- ✓ Maximize return on existing IT investments
- ✓ Match workloads to best-fit infrastructure
- ✓ Hit the right balance of risk to speed
- ✓ Meet seasonal capacity without CapEx
- ✓ Add new capabilities quickly

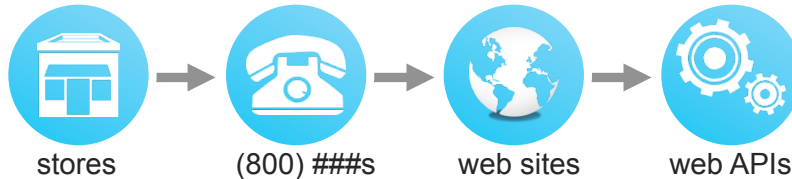
Questions to consider...

1. How aggressive is your company playing in the API Economy?
Mostly a Provider? Consumer?
On a scale from 1-5.... (5 highest)
2. Which are the top 3 Cloud Solutions you are most likely to rent?
3. What sorts of innovative applications are you most likely to “mash up” using 3rd Party APIs?
4. Are you looking to create a marketplace for your company?
What's in it?



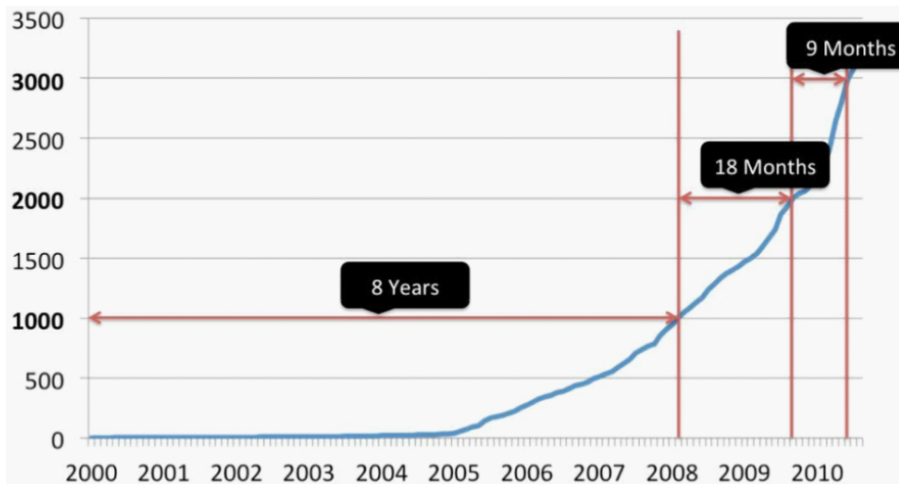
APIs are a path to new business opportunities

Business models are evolving



APIs represent a new, fast-growing channel opportunity

and growth is accelerating dramatically



Total APIs Over Time

By 2014, **75%** of the Fortune 1000 will offer public Web APIs.

By 2016, **50%** of B2B collaboration will take place through Web APIs.

API Economy

Lifecycle

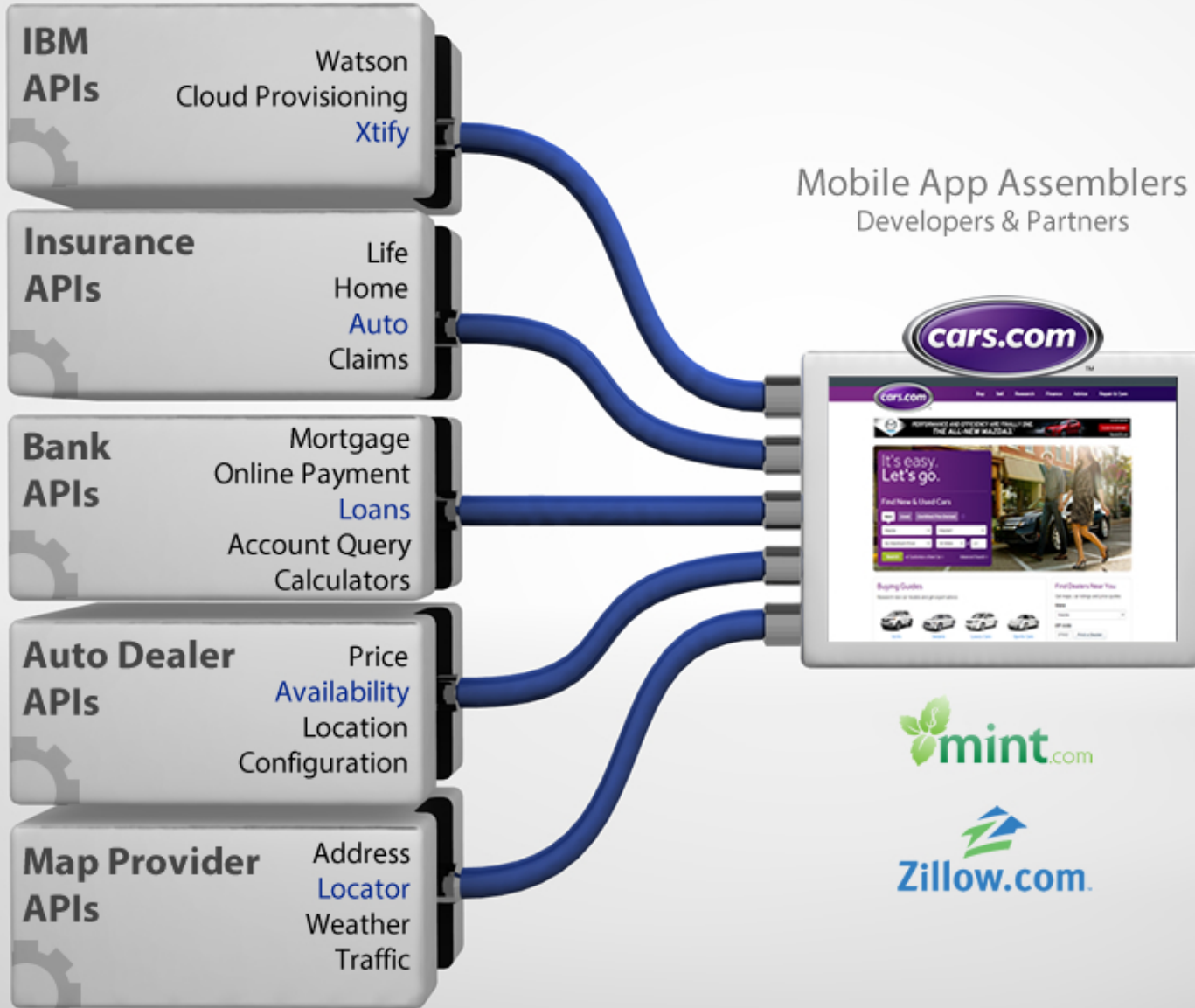


The API Economy

Where companies [providers] expose their (internal) digital business assets or services in the form of (Web) APIs to third parties [consumers] with the goal of unlocking additional business value through the creation of new assets

API Economy

Mobile App Assembly



New Customers



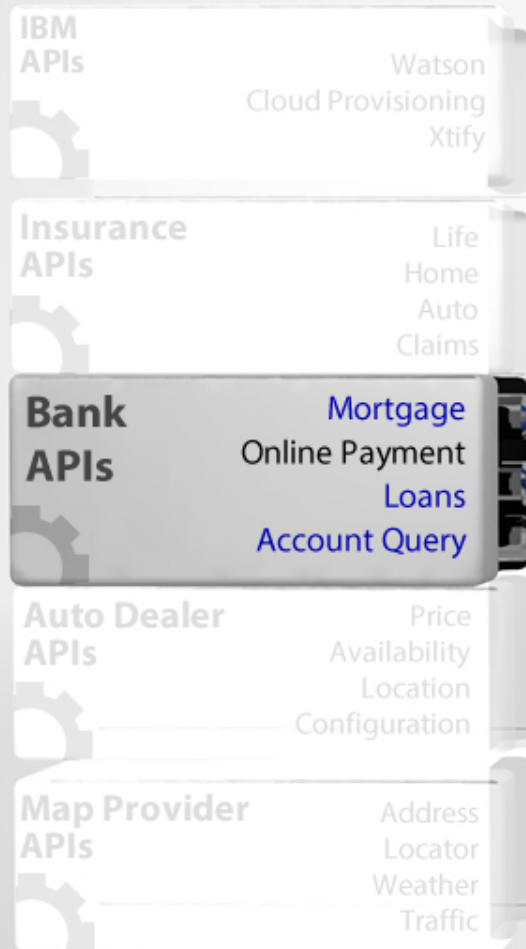
Providers

Consumers

API Economy

Provider Perspective

Mobile App Assemblers Developers & Partners



New Customers



Providers

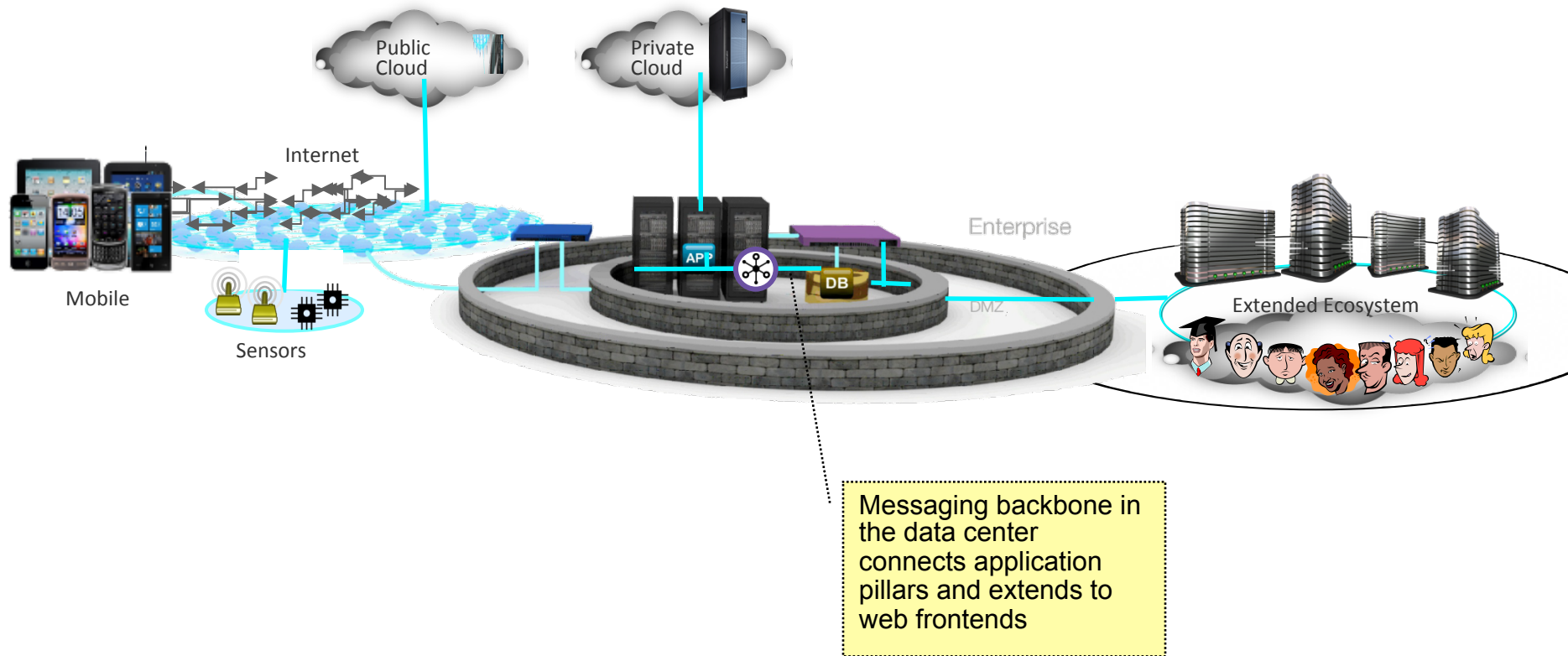
Consumers

Pitney Bowes, a global leader in software innovations, and mailing and shipping solutions, powers billions of transactions in modern commerce

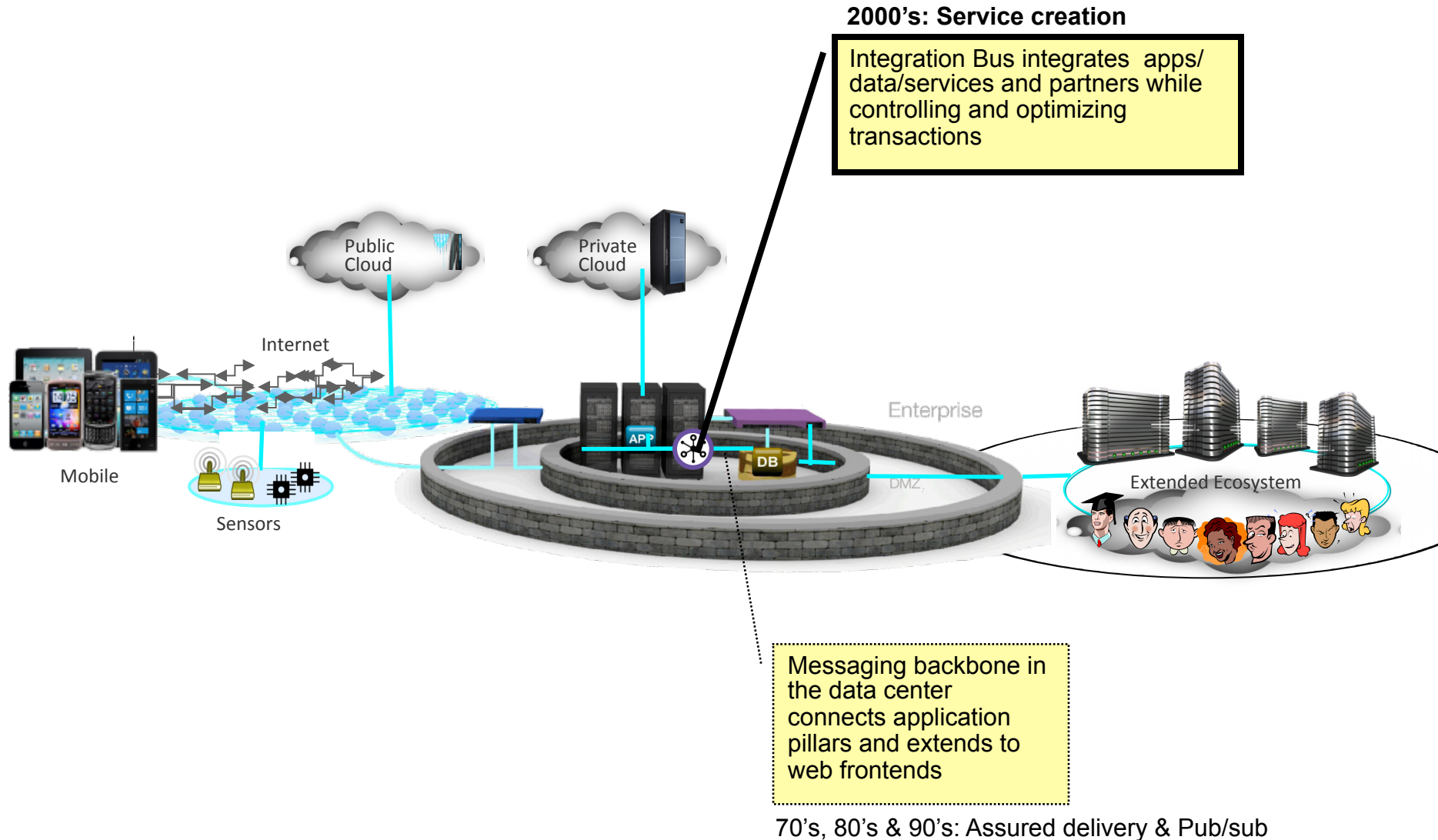


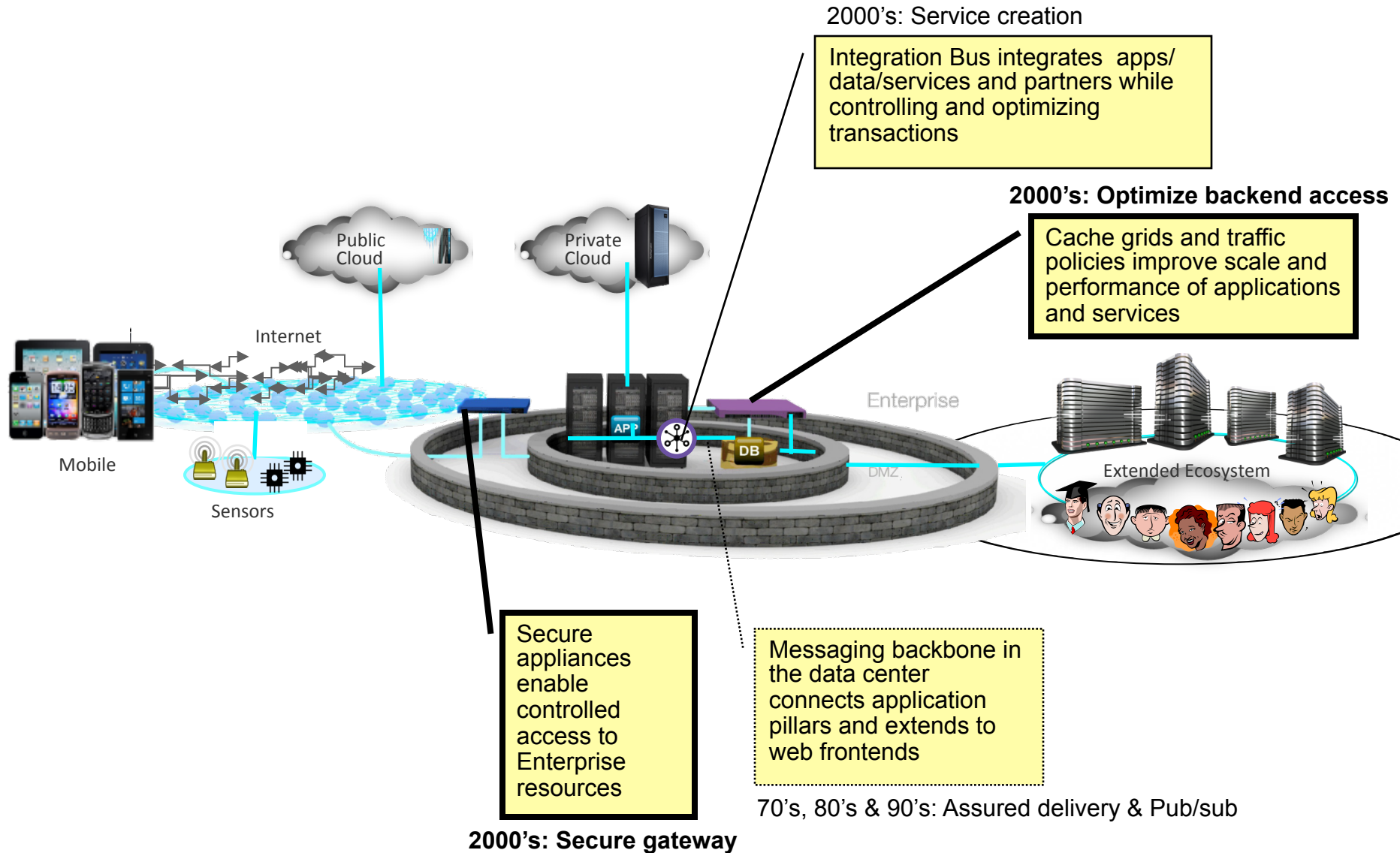
“Pitney Bowes location-based services on IBM BlueMix will allow innovators and developers to seamlessly extend their products and services to the cloud and mobile devices.”

*-Roger Pilc, Chief Innovation Officer,
Pitney Bowes*



70's, 80's & 90's: Assured delivery & Pub/sub





2013: Cloud integration

Connectivity to applications in the public cloud enables Enterprises to leverage a new cloud economy

2013: "On demand" & "Follow the sun"

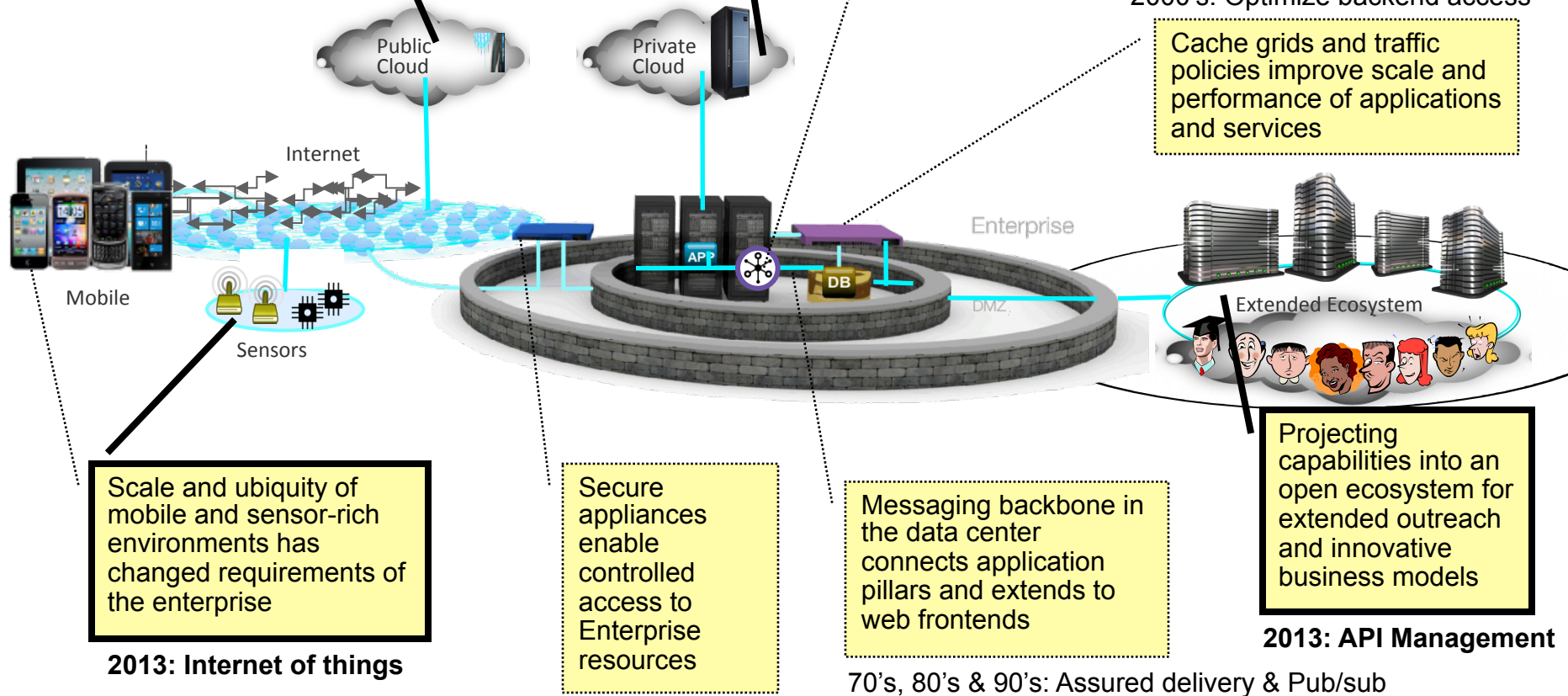
Enterprises looking to achieve "more with less" by better managing IT resources as collectives

2000's: Service creation

Integration Bus integrates apps/data/services and partners while controlling and optimizing transactions

2000's: Optimize backend access

Cache grids and traffic policies improve scale and performance of applications and services



Hybrid Integration – Different Perspectives, different expectations

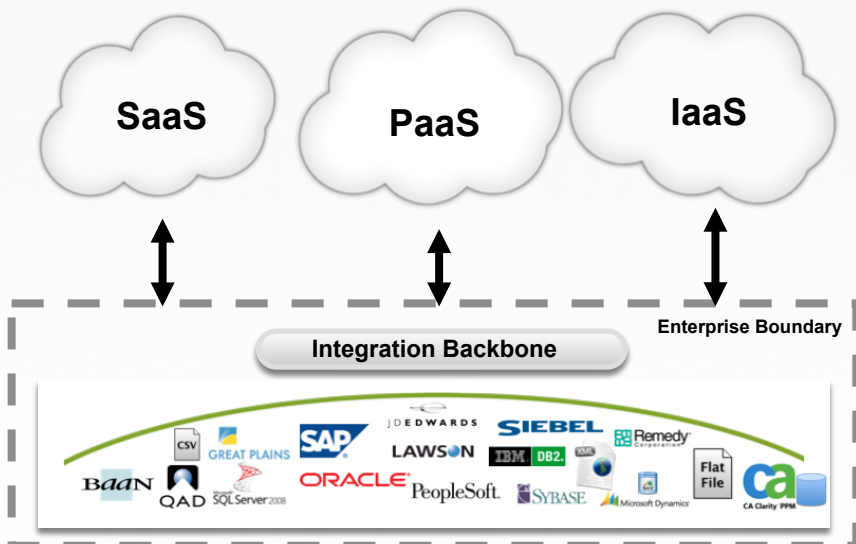
Enterprise-Out



Enterprise IT

1. How to Integrate and govern cloud assets as part of my enterprise
2. How to expose enterprise assets for controlled consumption in the cloud

IT lead Strategic Integration



Cloud-In



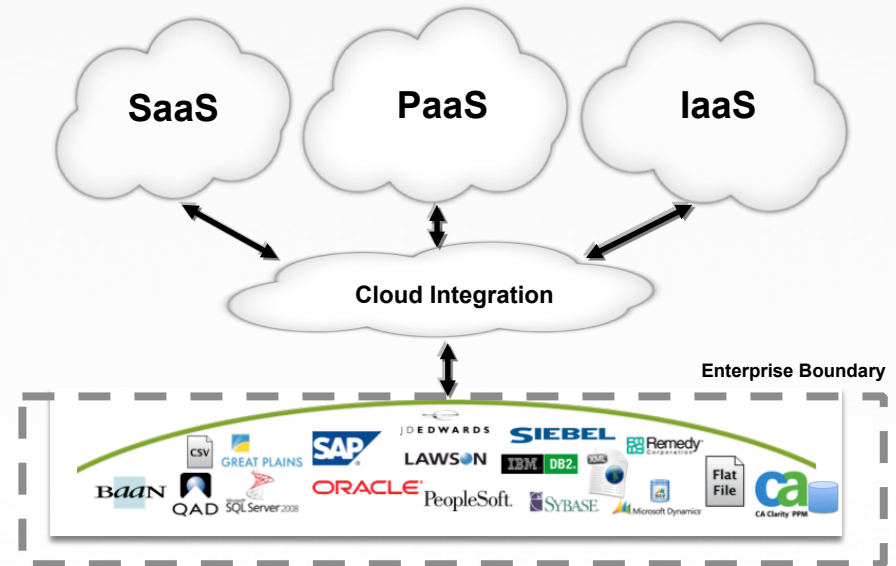
PaaS app developer



SaaS admin

How do I quickly integrate enterprise data/ services into my app to give value to my business

Tactical business need driven



Hybrid 2.0 is designed for Enterprise-Out and Cloud-In

Integration today is designed for one perspective or the other

Hybrid 1.0

Born in the cloud
Connecting SaaS to the enterprise
Designed to securely reach into enterprise end points
Designed to be **Cloud In**

Integration Platforms

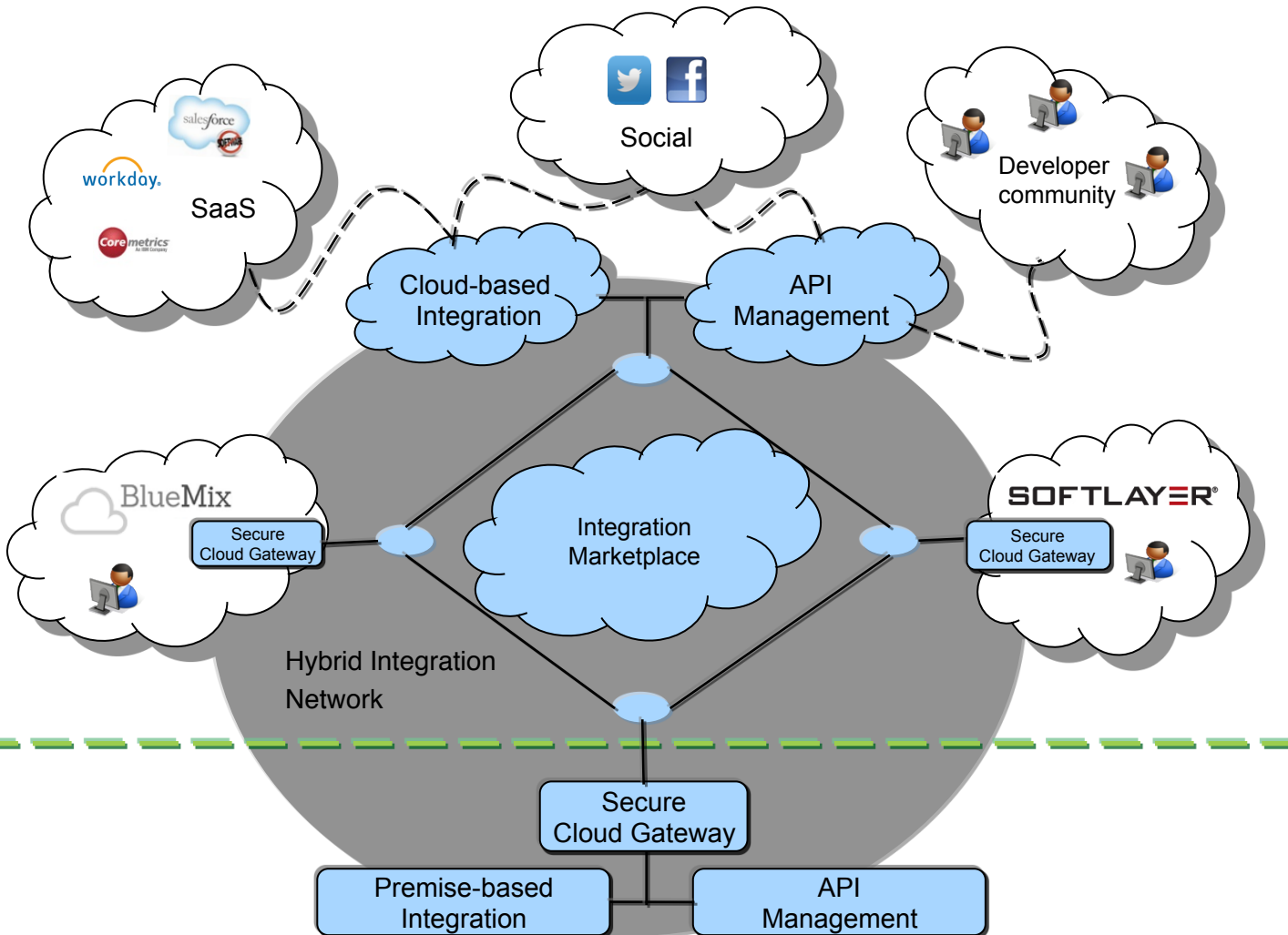
Born within the enterprise
Designed for enterprise IT
Designed to be secured at the enterprise boundary
Starting to be extended to reach out to the cloud

Hybrid 2.0 is designed for Enterprise-Out and Cloud-In

Hybrid 2.0

Born to be hybrid
Designed to be *Enterprise Out & Cloud In*
Provides speed and simplicity for the business to implement tactical integration solution
Enables IT to manage and control tactical and strategic cloud integration solutions
One integration solution, run on premise, in the cloud, in your IaaS, with your PaaS apps

Cloud Integration Vision – Design Layout



Multi-Use Case
(cloud integ, API,
premise-based integ)

Heavily distributed

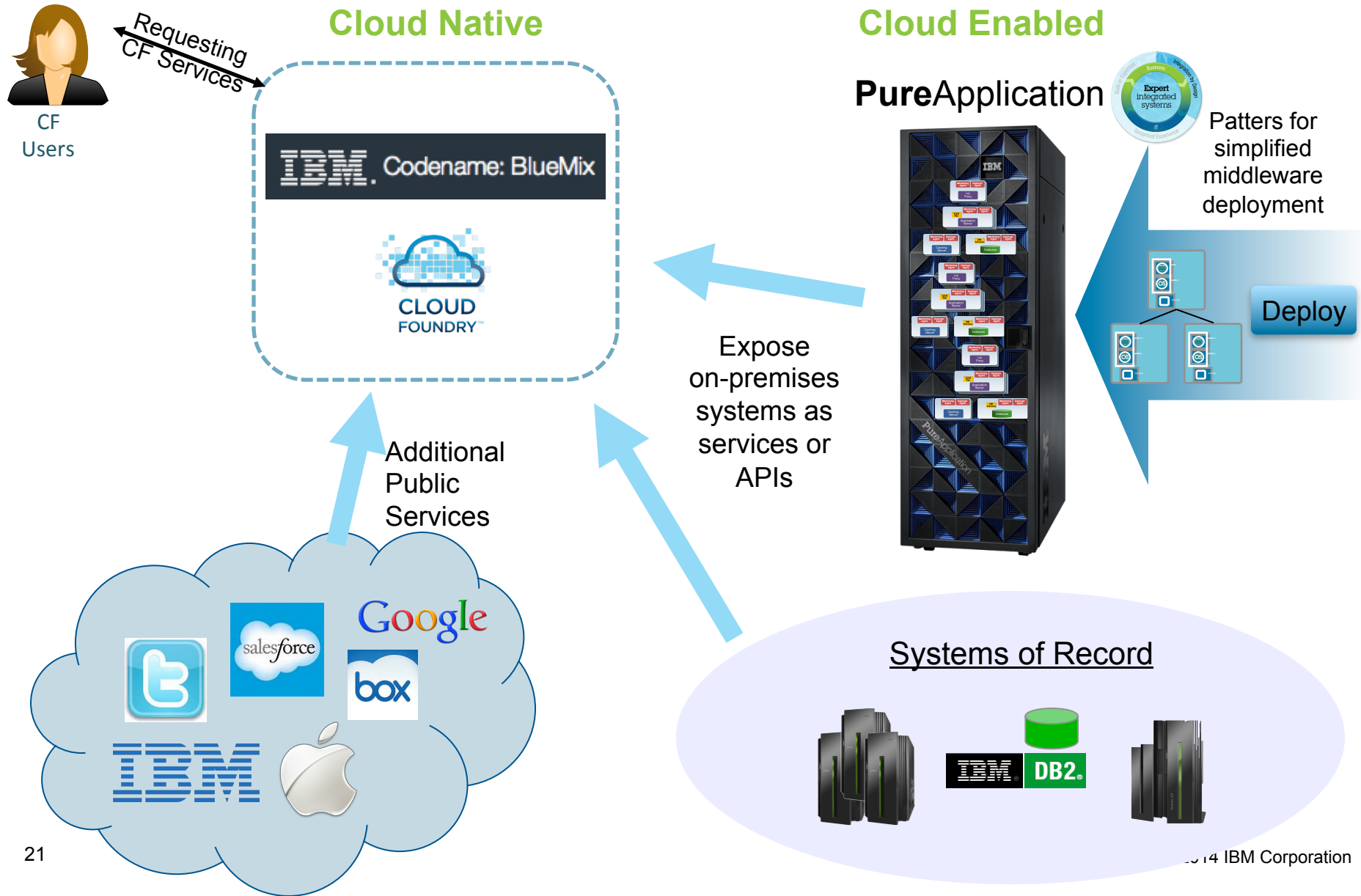
Optimized for 'data
residency' and 'data
gravity'

Elastic and Scalable to
handle volatile
workloads and peaks

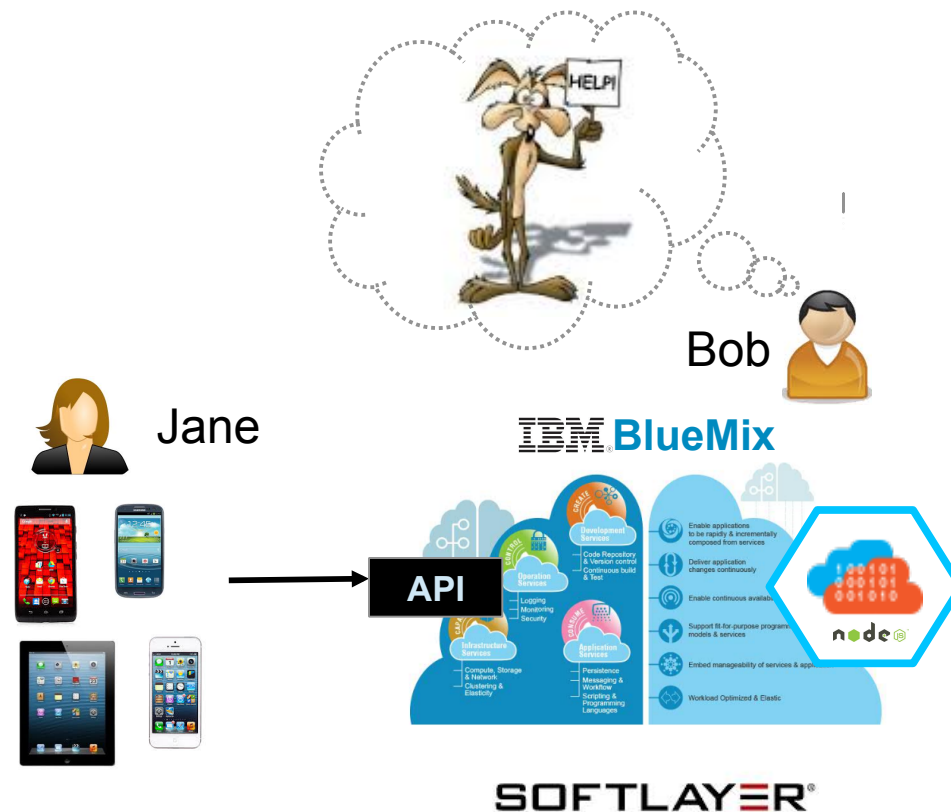
Handles all types of
data, app and service
integration

Integration Catalog
- TIPs
- Connectors
- Integration APIs &
SDKs

Cloud Integration is the Glue Across a Continuum of Services



Demo: ACME Acquires Anvils.com



SaaS clouds

Partner APIs



On-premise resources

ACME DataCenter



- ACME CRM is using on-prem DB2 SoR and Salesforce
- Bob is ACME's integration developer
- Jane is ACME's mobile developer

MATT WHITEBOARD

Motivation & Opportunity (in a nutshell)

▪ *Why now?*

- Mobile + Internet of Things (user centric design & insight)
- Cloud + API Economy (lean innovation = fast & awesome)

▪ *How do I participate?*

- Bring your innovation (liberate it) to the cloud as APIs, unleashing new channels of innovation
- Consume the best innovative APIs that the cloud has to offer
- Compose solutions by combining your awesomeness with the industries awesomeness (rent everything else)
- Do it Fast and Don't get Fired...Always In the Know...
IT Operation Intelligence