



# Introduction to Salesforce

What we do, how you can be part of it, how we approach a transformation journey

**Danilo Pede**  
Director, Professional Services

**Gabriele Morrone**  
Lead Solution Engineer



# Thank you





# Today's Agenda

What is Salesforce?

Salesforce in action!

Be a Trailblazer!

The Salesforce Platform - Under the hood

How do we approach a Transformation Project?

Resources



# Today's speakers

## Danilo Pede

Director, Professional Services



## Gabriele Morrone

Lead Solution Engineer





# Credits to contributors to this deck



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**Enza  
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**Dario  
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This presentation contains forward-looking statements about, among other things, trend analyses and future events, future financial performance, anticipated growth, industry prospects, environmental, social and governance goals, and the anticipated benefits of acquired companies. The achievement or success of the matters covered by such forward-looking statements involves risks, uncertainties and assumptions. If any such risks or uncertainties materialize or if any of the assumptions prove incorrect, Salesforce's results could differ materially from the results expressed or implied by these forward-looking statements. The risks and uncertainties referred to above include those factors discussed in Salesforce's reports filed from time to time with the Securities and Exchange Commission, including, but not limited to: impact of, and actions we may take in response to, the COVID-19 pandemic, related public health measures and resulting economic downturn and market volatility; our ability to maintain security levels and service performance meeting the expectations of our customers, and the resources and costs required to avoid unanticipated downtime and prevent, detect and remediate performance degradation and security breaches; the expenses associated with our data centers and third-party infrastructure providers; our ability to secure additional data center capacity; our reliance on third-party hardware, software and platform providers; the effect of evolving domestic and foreign government regulations, including those related to the provision of services on the Internet, those related to accessing the Internet, and those addressing data privacy, cross-border data transfers and import and export controls; current and potential litigation involving us or our industry, including litigation involving acquired entities such as Tableau Software, Inc. and Slack Technologies, Inc., and the resolution or settlement thereof; regulatory developments and regulatory investigations involving us or affecting our industry; our ability to successfully introduce new services and product features, including any efforts to expand our services; the success of our strategy of acquiring or making investments in complementary businesses, joint ventures, services, technologies and intellectual property rights; our ability to complete, on a timely basis or at all, announced transactions; our ability to realize the benefits from acquisitions, strategic partnerships, joint ventures and investments, including our July 2021 acquisition of Slack Technologies, Inc., and successfully integrate acquired businesses and technologies; our ability to compete in the markets in which we participate; the success of our business strategy and our plan to build our business, including our strategy to be a leading provider of enterprise cloud computing applications and platforms; our ability to execute our business plans; our ability to continue to grow unearned revenue and remaining performance obligation; the pace of change and innovation in enterprise cloud computing services; the seasonal nature of our sales cycles; our ability to limit customer attrition and costs related to those efforts; the success of our international expansion strategy; the demands on our personnel and infrastructure resulting from significant growth in our customer base and operations, including as a result of acquisitions; our ability to preserve our workplace culture, including as a result of our decisions regarding our current and future office environments or work-from-home policies; our dependency on the development and maintenance of the infrastructure of the Internet; our real estate and office facilities strategy and related costs and uncertainties; fluctuations in, and our ability to predict, our operating results and cash flows; the variability in our results arising from the accounting for term license revenue products; the performance and fair value of our investments in complementary businesses through our strategic investment portfolio; the impact of future gains or losses from our strategic investment portfolio, including gains or losses from overall market conditions that may affect the publicly traded companies within our strategic investment portfolio; our ability to protect our intellectual property rights; our ability to develop our brands; the impact of foreign currency exchange rate and interest rate fluctuations on our results; the valuation of our deferred tax assets and the release of related valuation allowances; the potential availability of additional tax assets in the future; the impact of new accounting pronouncements and tax laws; uncertainties affecting our ability to estimate our tax rate; uncertainties regarding our tax obligations in connection with potential jurisdictional transfers of intellectual property, including the tax rate, the timing of the transfer and the value of such transferred intellectual property; uncertainties regarding the effect of general economic and market conditions; the impact of geopolitical events; uncertainties regarding the impact of expensing stock options and other equity awards; the sufficiency of our capital resources; the ability to execute our Share Repurchase Program; our ability to comply with our debt covenants and lease obligations; the impact of climate change, natural disasters and actual or threatened public health emergencies; and our ability to achieve our aspirations, goals and projections related to our environmental, social and governance initiatives.



salesforce

# What is Salesforce?



# Our Vision



**Connect with your customers  
in a whole new way.**

**Build a Customer 360.**



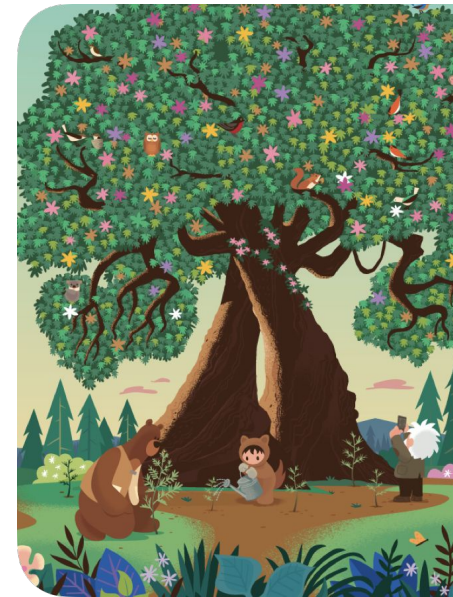
# Core Values. Our North Star.



salesforce

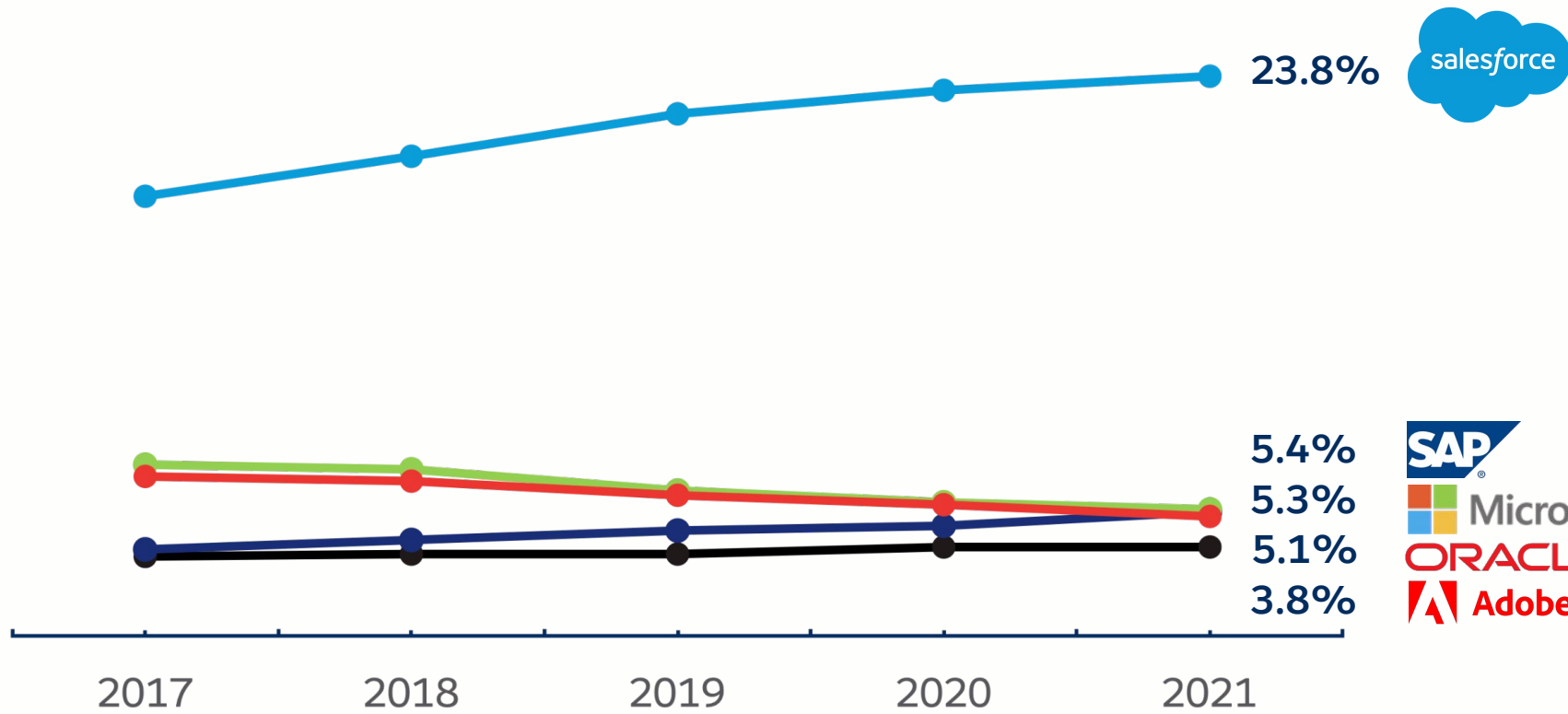
**CORE VALUES**

- TRUST
- CUSTOMER SUCCESS
- INNOVATION
- EQUALITY
- SUSTAINABILITY



# Salesforce: #1 CRM

Ranked #1 for CRM Applications based on IDC 2021 Revenue Market Share Worldwide.



Source: IDC, Worldwide Semiannual Software Tracker, April 2022. CRM market includes the following IDC-defined functional markets: Sales Force Productivity and Management, Marketing Campaign Management, Customer Service, Contact Center, Advertising, and Digital Commerce Applications.



# Customer Success, Together



**T-Mobile** | 93% fewer clicks in sales process

**ADT** | -80% in person service visits

**-25%**  
IT costs



**-27%**  
support costs



**+28%**  
marketing ROI



**+29%**  
revenue



**+29%**  
faster time to insight



**+30%**  
faster collaboration



# World's Largest Enterprise Apps Company

Leader in  
Philanthropy

Top 100  
Companies  
that Care

6 years in a row

People

Leader in  
Innovation

#1 Most  
Innovative  
Companies

Forbes

Leader in  
Culture

#1 Best  
Workplaces

Japan, Argentina, France  
Spain, Germany, the UK  
& the Netherlands

Great  
Place  
To  
Work



\*High end of FY23 revenue  
guide of \$30.9B to \$31.0B

# Business is the Greatest Platform for Change



1% Equity

**\$575M**

all-time giving

Announcing

**\$25M**

to education  
#dfgives

Adopt a  
public school



1% Time

**7.2M**

volunteer hours



1% Product

**50K**

nonprofits



**Net zero**

**100%** renewable  
energy

**\$1.87B**

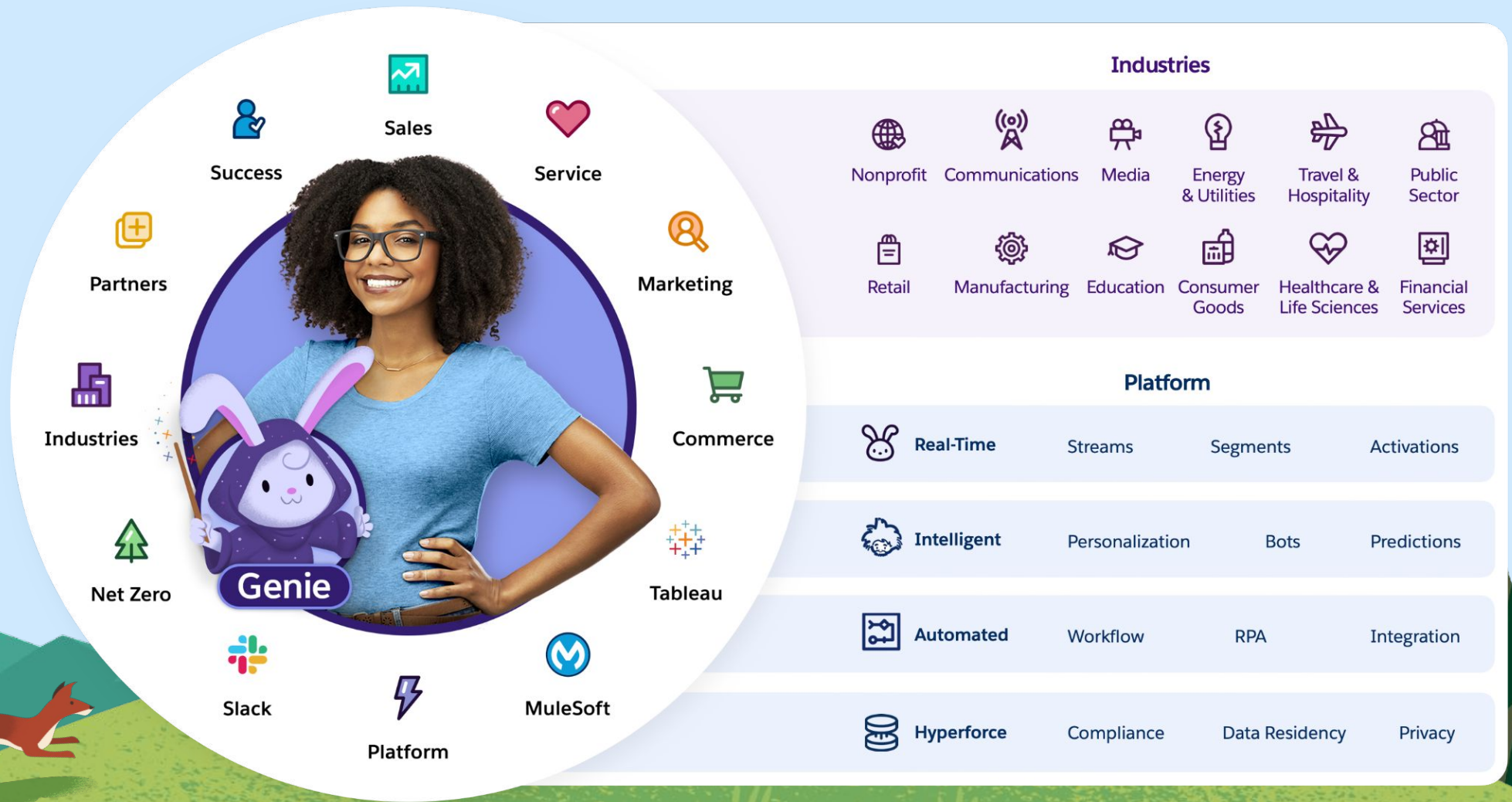
in FY22

[pledge1percent.org](https://pledge1percent.org)

Join **17K** companies



# Real-Time Customer 360 for Every Industry





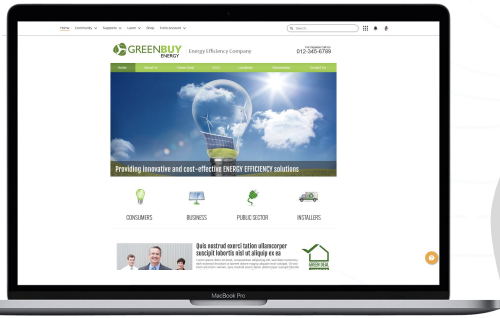
Salesforce in action!



# Customer Connected Experience



Giorgio



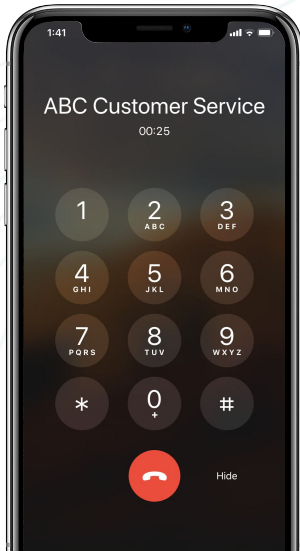
Chat Support



Blackout!



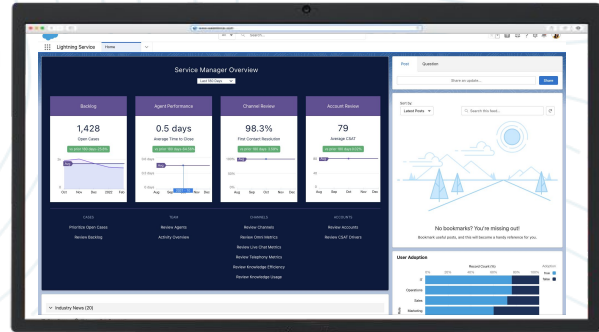
Call to solve the issue



Confirm and survey



Send the receipt



**TRAIL KEY**

- Interaction
- Journey





Be a Trailblazer!



# Trailblazers Are Ready for the Future

/treyl-bley-zer/ noun

- (1) a pioneer; an innovator; a lifelong learner; a mover and shaker.
- (2) a leader who leaves a path for others to follow.
- (3) most importantly, a person who builds a better world for others.

15M  
Trailblazers



Ali Duncan  
Administrator

Aldo Fernandez  
Platform Architect

Rochelle Hinds  
Marketer

# It's a Trailblazer Economy



**9.3M**  
new Salesforce  
economy jobs



**\$1.6T**  
new business  
revenue by 2026\*



**Mustafa Akil Jhabuawala**  
Dohrinii Technologies

**Brad Ringer**  
AT&T

**Jennifer Cole**  
908 Devices

Source: IDC White Paper, sponsored by Salesforce, "The Salesforce Economic Impact," doc #US48214821, September 20, 2021.



# Salesforce non è solo un business. It's an Economy of Trust.



Nuovi posti di lavoro in Italia

**93.3K\*** Nel settore economico di  
Salesforce entro il 2026

Impatto Economico in Italia

**\$34Mld\*** Nuovo fatturato  
indotto entro il 2026



IDC



**+4.1K**  
Certificati

**+32K**  
Trailblazers

# Be a Trailblazer in the Salesforce Ecosystem



**Trailhead**



**Trailblazer  
Community**

# Be a Trailblazer in the Salesforce Ecosystem



**Trailhead**



**Trailblazer  
Community**



# The Way We Learn and Connect Has Changed



**Community-Driven**  
Learning together



**Online & Mobile**  
Optimized to learn anywhere



**Gamified**  
Interactive design



**Trailblazer-First**  
Focused on experience



**Personalized**  
For roles and levels

# Trailhead

Skill up for the future

## Learn In-Demand Skills

Learn the skills companies need to drive success from anywhere either on-demand or from Trailhead Academy experts.

## Earn Resume-Worthy Credentials

Prove your expertise with skill-based badges and role-based credentials that lead to top jobs in the Salesforce Ecosystem.

## Connect to a Global Community

Connect with the Trailblazer Community, a network of millions of people who help each other along the journey of learning and succeeding with Salesforce.

<https://trailhead.salesforce.com>

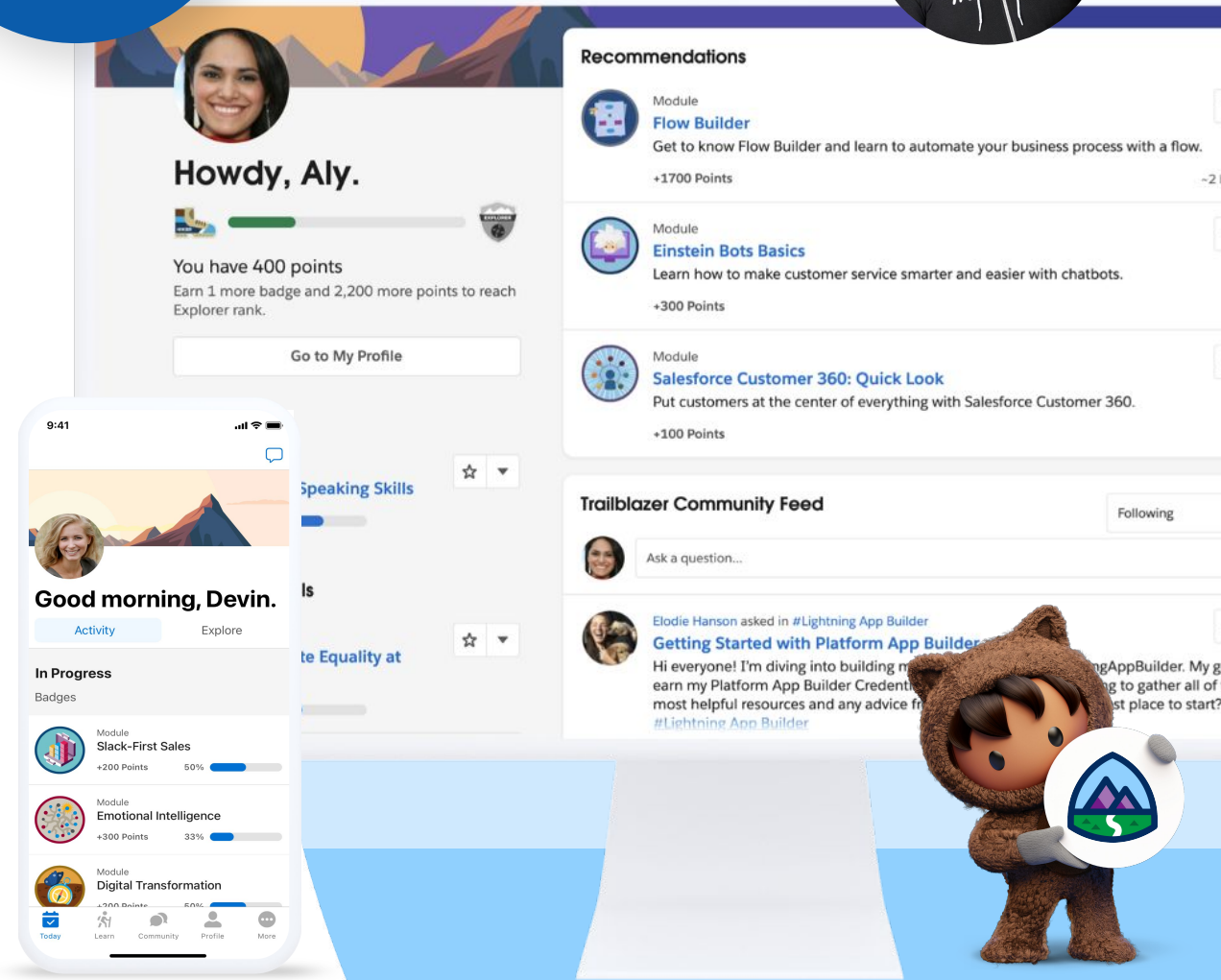
Source: Trailhead

4M+

learners have  
skilled up on  
Trailhead

salesforce

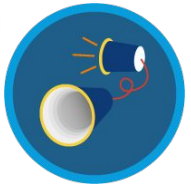
Aaron McGriff  
Salesforce Consultant



# Trailhead Skills Span the Salesforce Ecosystem



## People



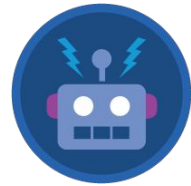
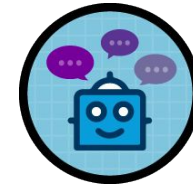
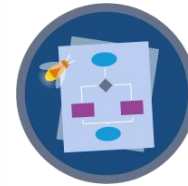
Virtual Collaboration  
Public Speaking Skills  
Emotional Intelligence  
Equality Ally Strategies  
Storytelling & Communication

## Salesforce



Salesforce Platform  
Salesforce Customer 360  
CRM  
Sales Cloud  
Service Cloud

## Technologies



Flow Builder  
Einstein Bots  
Process Automation  
Digital Transformation  
Artificial Intelligence





# Get Hands on & Prove Your Skills

Trailhead's secret sauce

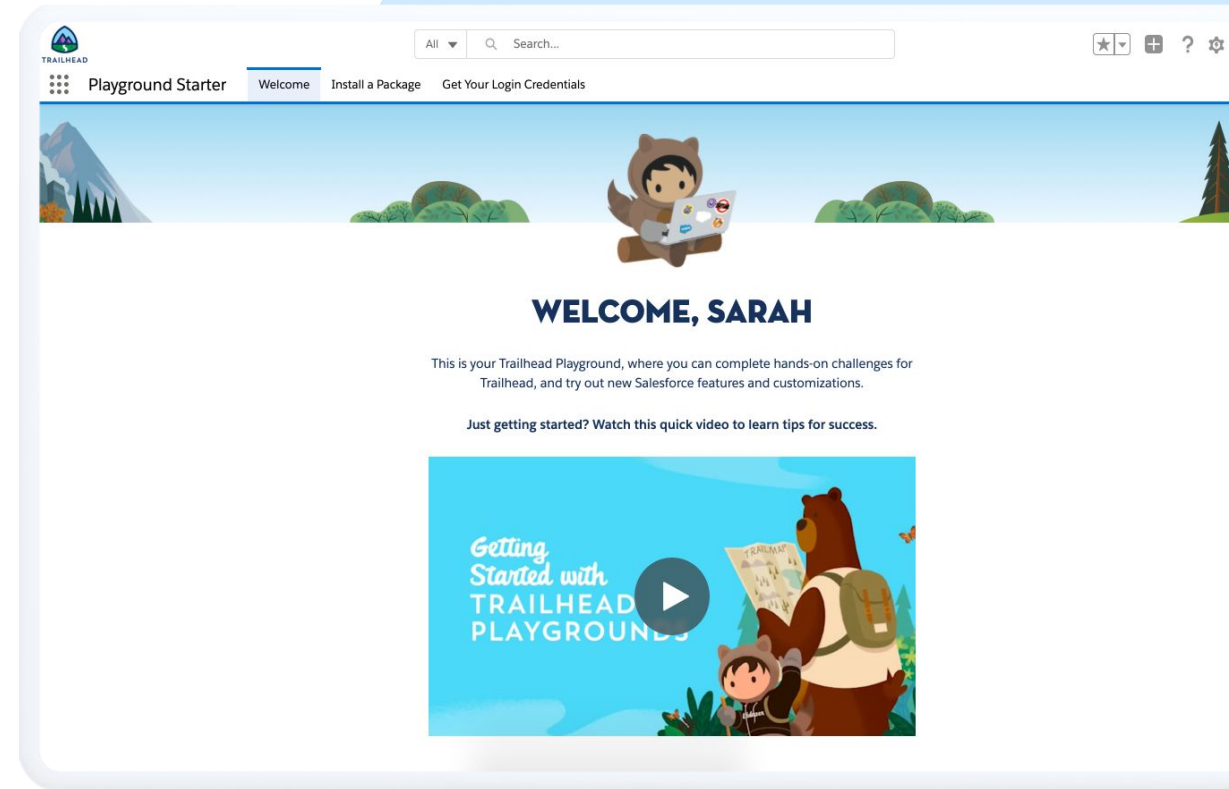


## Trailhead Playground

Your own, free Salesforce Developer environment

## Learn by Doing

The Trailhead Playground provides hands-on challenges to learn new features and test customizations



# Build a Successful Career in the Salesforce Ecosystem



Career paths empower anyone to find their entry point and succeed in tech



**Marketer  
Career**



**Salesforce  
Architect**



**Salesforce  
Consultant**



**Service  
Career**



**Sales  
Career**



**Salesforce  
Developer**



**Salesforce  
Administrator**



**Salesforce  
Designer**



**Business  
Analyst**



**Data  
Analyst**



# Earn Globally-Recognized Salesforce Credentials



Validate your skills and grow your resume



## Superbadges

*Skills-based credentials*

Apply your Salesforce skills to **hands-on, real-world business problems.**

Prove your expertise in specific roles and take the **next step towards getting certified.**



## Certifications

*Role-based credentials*

Prove your hands-on experience with Salesforce to get a **competitive edge that leads to new opportunities.**





# Be a Trailblazer in the Salesforce Ecosystem



**Trailhead**



**Trailblazer  
Community**

# The Trailblazer Community Today



## 4,000 Questions Answered

Questions posted monthly to the community, 90% peer-driven responses.

## 1,000+ Active Groups

Join or start discussions with peers and Salesforce employees

## 20+ Customer Success Groups

Salesforce-led groups help customers get support and drive adoption

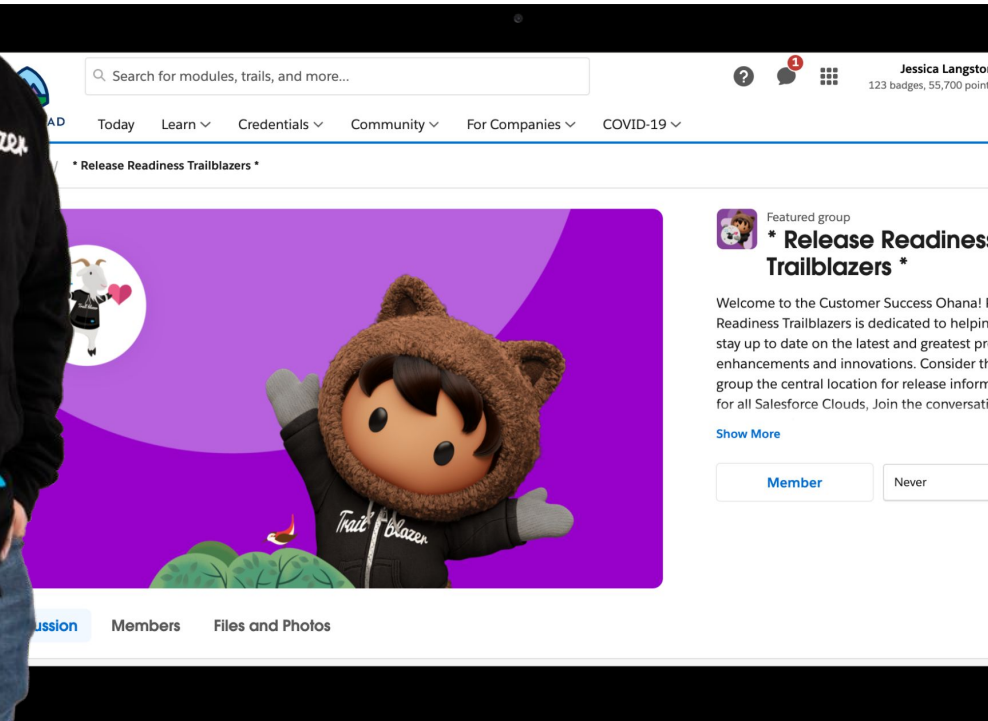
## Diverse Topics

From getting started, to writing complex code, to connecting at Salesforce events

<https://trailblazers.salesforce.com>



Carlos Umana  
Salesforce Admin, BMC





# salesforce+

Inspiration starts here.

## An all-new digital streaming service

Experience live Salesforce broadcasts and original content that inspire change in business and the world. **Free.**

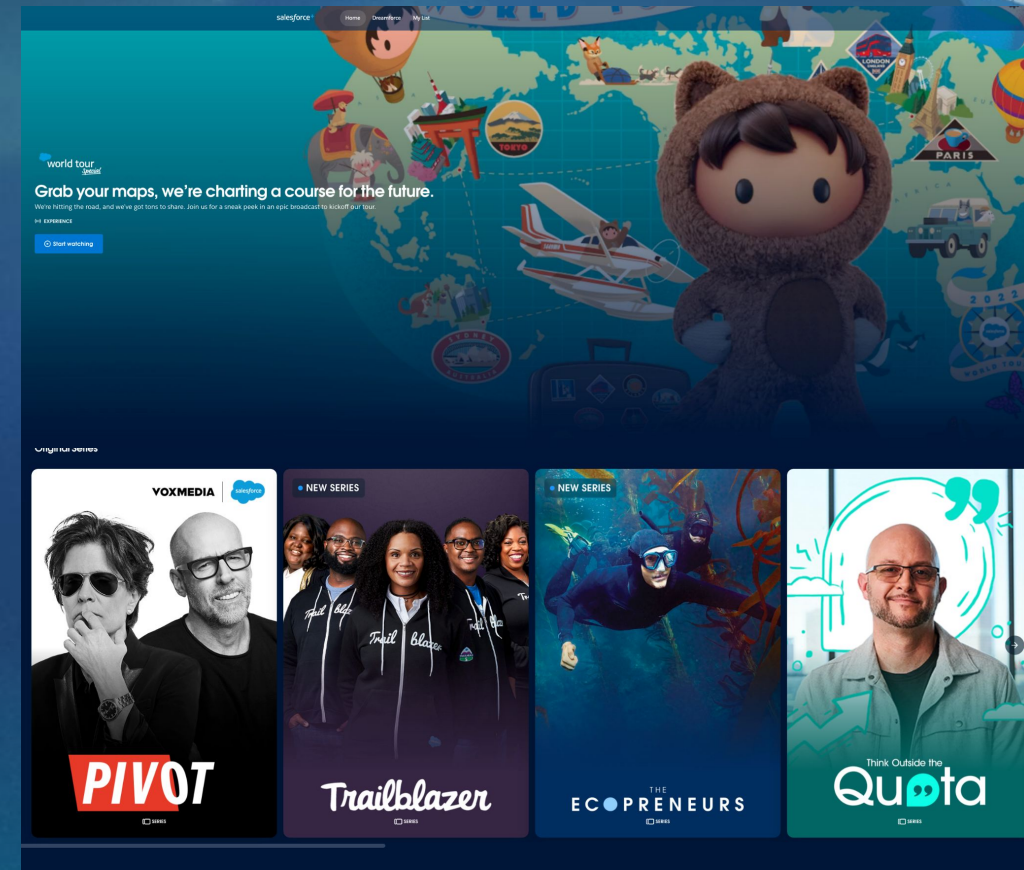
## Your front row seat to Global Events

Catch all the luminary speakers, customer success, and groundbreaking innovation from anywhere.

## Rich original series just for you

Learn from inspiring Trailblazers and thought leaders across industries and roles. Exclusively on Salesforce+.

<https://www.salesforce.com/plus/>





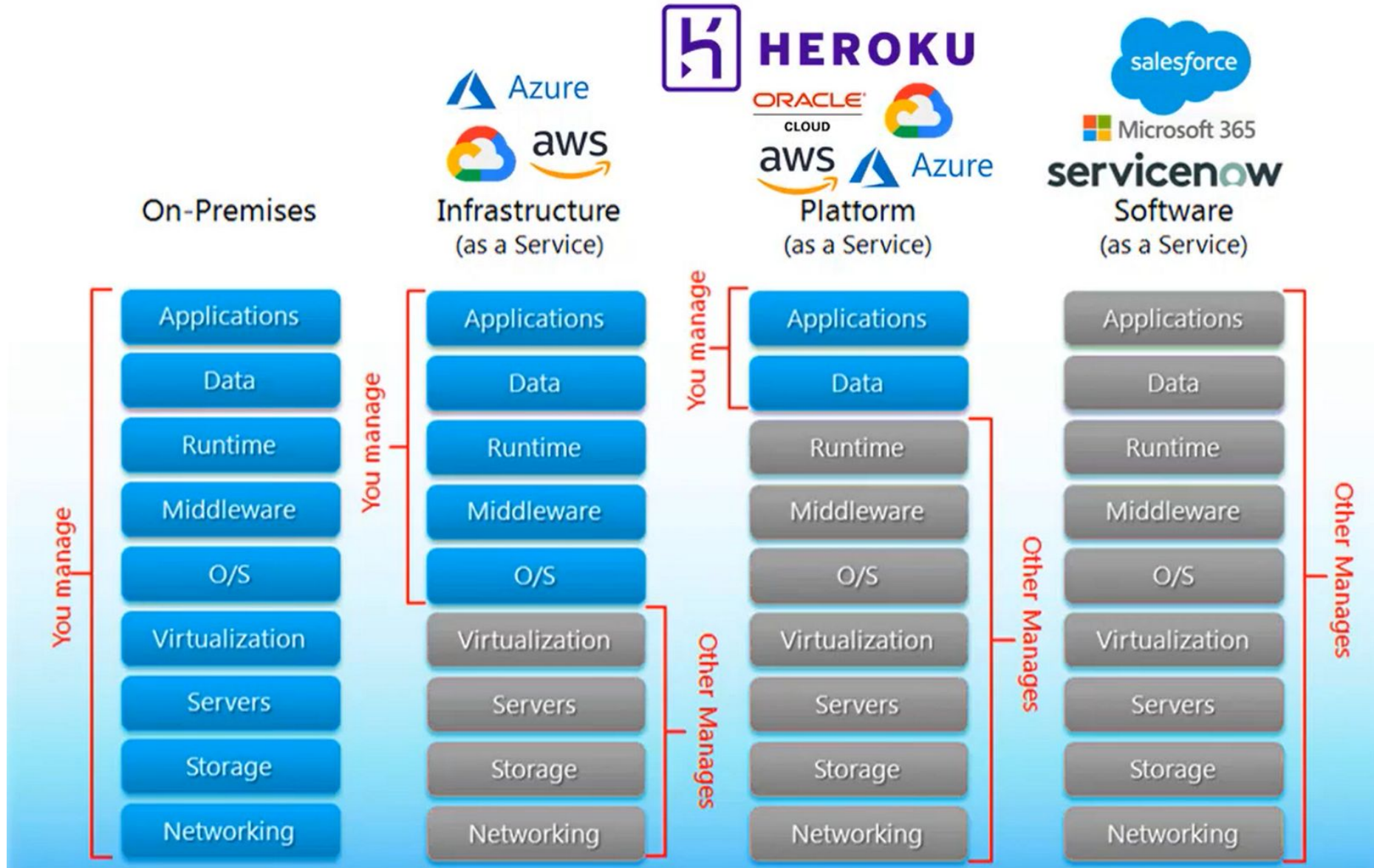


# The Salesforce Platform

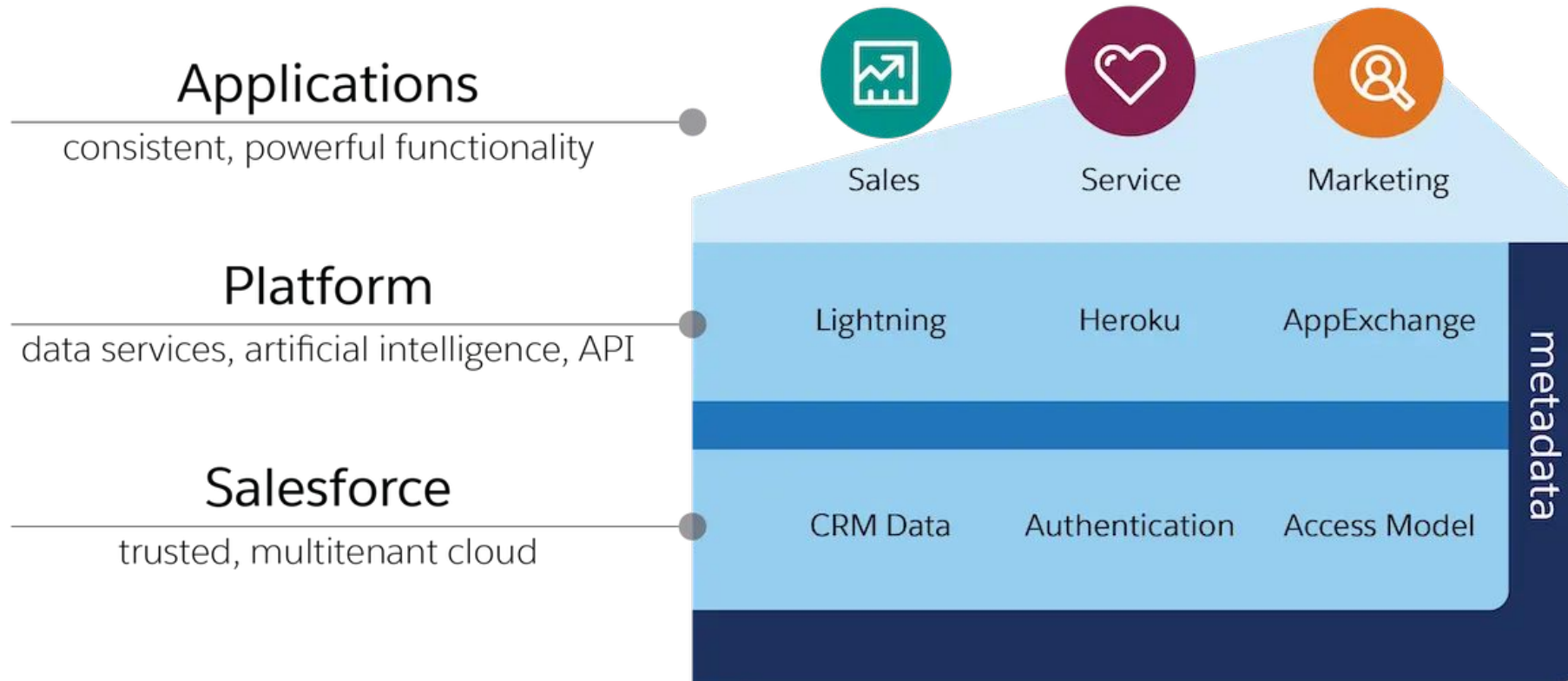
Under the hood



# Cloud Models: What Do You Manage?



# Salesforce Architecture







# Salesforce Platform

Real-Time Flow Automation

Real-Time Einstein AI

Real-Time  
Hyperscale Data Platform

Transactional  
Database



Hyperforce



# Salesforce Multitenancy... simplified!



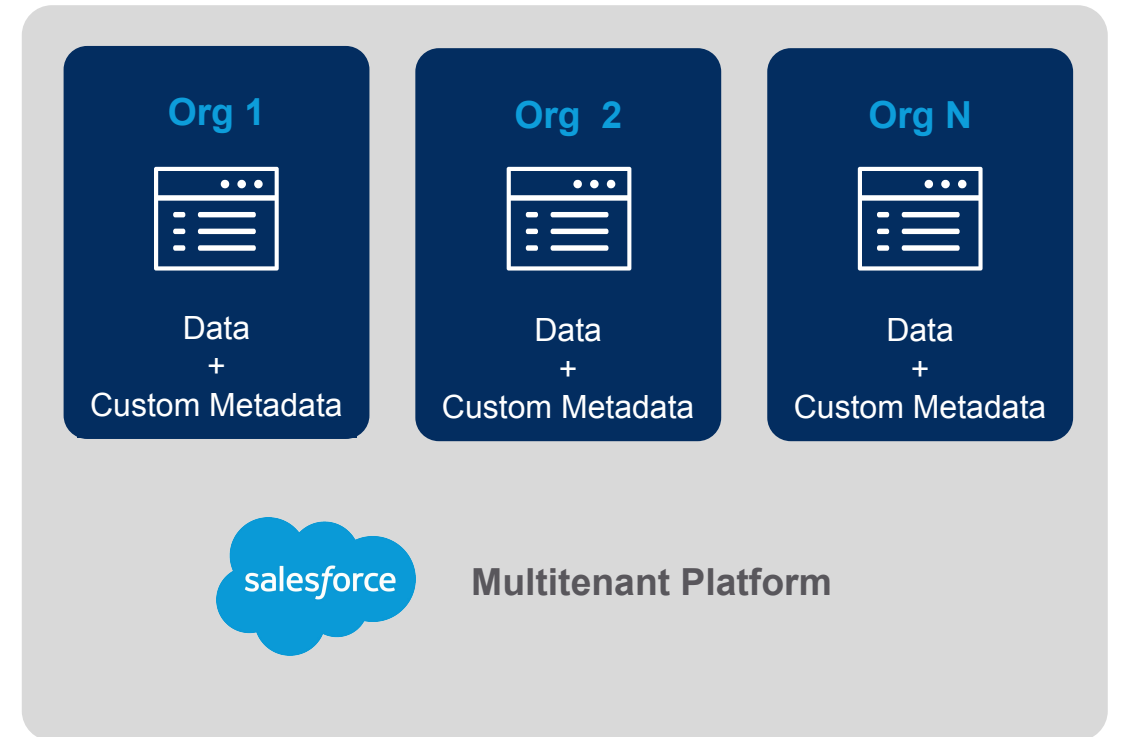
# What is an Org?



## Each Org is

- A provisioned set of resources that **contain data and metadata** supporting one or more applications
- A **distinct entity** (tenant) hosted on a common (multitenant) platform with data and metadata insulated from other tenants

*Customers can own one or more Orgs depending on their needs*





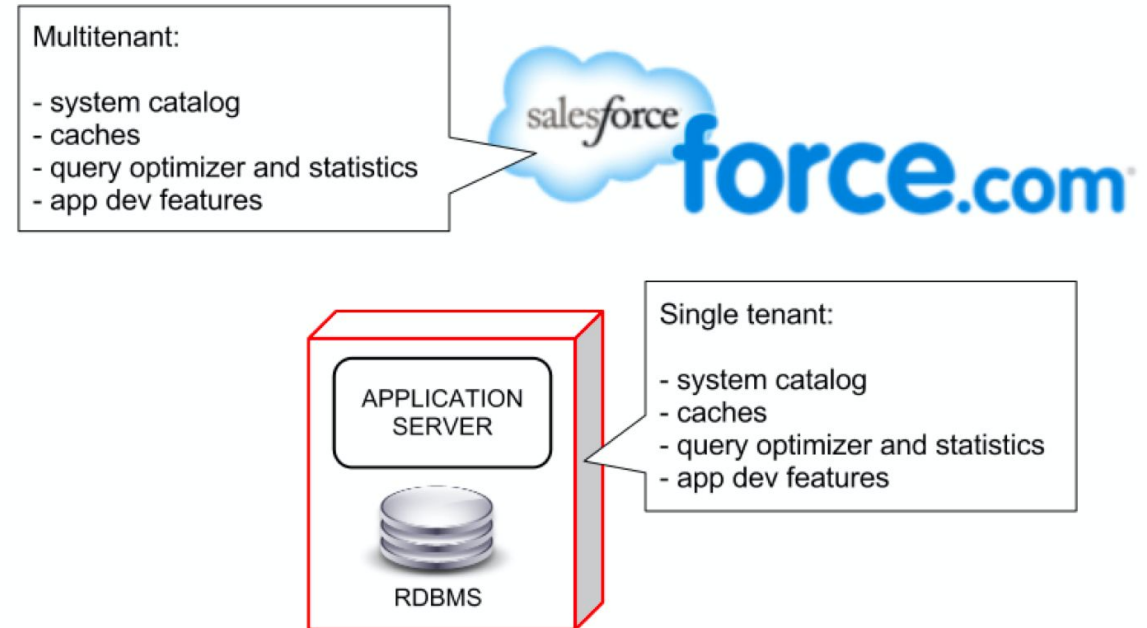
# Multitenant Architecture



RDBMS: most of which designed in the '70s and '80s to support individual organizations' on-premises deployments.

All the core mechanisms in an RDBMS (as its system catalog, caching mechanisms, query optimizer, and application development features) are **built to support single-tenant applications** and be run directly on top of a specifically tuned host operating system and raw hardware.

**Multitenant cloud database services built with a standard RDBMS are only possible with the help of virtualization, which typically hurts the performance of an RDBMS.**



# Salesforce Multitenant Approach

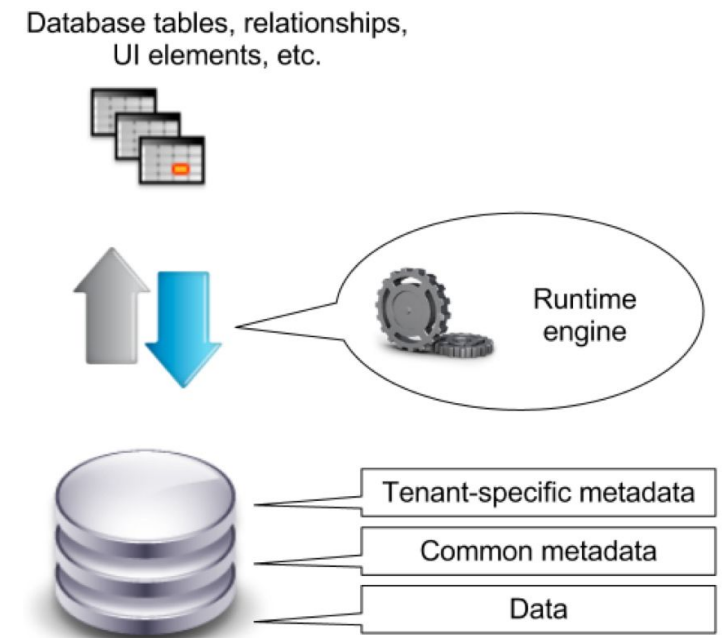


In contrast, Salesforce Platform combines **several different persistence technologies**, including a **custom-designed relational database schema**, which are innately designed for clouds and multitenancy—**no virtualization required**.

For these reasons, Salesforce Platform’s core technology uses a **runtime engine that materializes all application data from metadata**—data about the data itself.

In Salesforce Platform’s well-defined metadata-driven architecture, there is a **clear separation of the compiled runtime database engine (kernel), tenant data, and the metadata that describes each application**.

These distinct boundaries make it possible to **independently update the system kernel and tenant-specific applications and schemas**, with virtually no risk of one affecting the others.



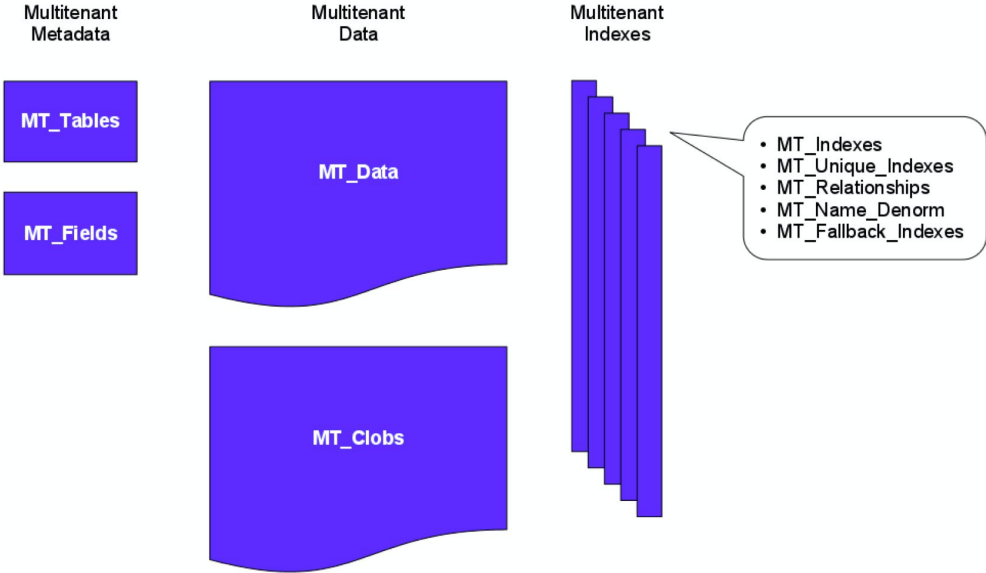
# Multitenant Data Model

The Salesforce Platform storage model manages **virtual database structures** using a set of metadata, data, and pivot tables.

When you create application schemas, the *Universal Data Dictionary (UDD)* keeps track of metadata concerning the objects, their fields, their relationships, and other object attributes.

Meanwhile, a few large database tables store the structured and unstructured data for all virtual tables.

A set of related multitenant indexes, implemented as simple pivot tables with denormalized data, make the combined data set extremely functional.



GUID	OrgID	ObjID	...	Value0	...
a01...1	org1	a01	...	Up	...
a01...2	org1	a01	...	Flat	...
a02...1	org1	a02	...	20110129	...
a02...2	org1	a02	...	20110214	...
a03...1	org1	a03	...	41.23	...
a03...2	org1	a03	...	-10.3	...



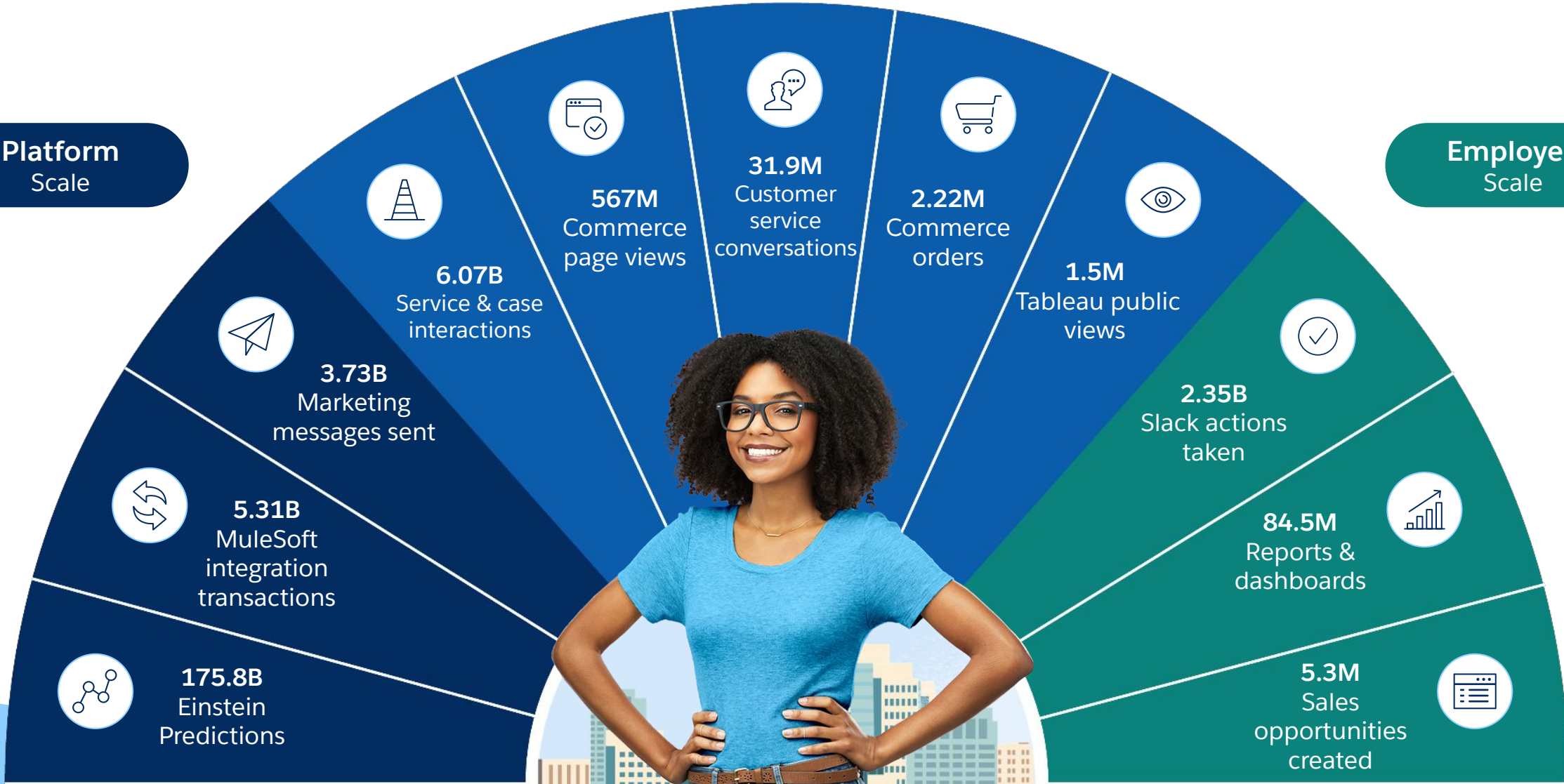
# 24 Hours in the Life of Salesforce



## Consumer Scale

## Platform Scale

## Employee Scale



Source: Salesforce August 2022

# How do we approach a Transformation Project?



# What do we consider in a transformation project?







# The buyers

(why a transformation project?)



# Meet the buyers: who they are...



## IT

Balances keeping all of the lights on, **responding to the business's needs**, and **driving innovation** while managing things like **costs and security**

## Marketing

Creates the **customer experience across every brand touchpoint**, driving **brand awareness**, **customer loyalty**, and **sales**

## Sales

Focuses on “hitting their numbers” by **driving pipeline**, helping reps find new opportunities, and **closing deals**

## Service

Owens customer service operations and **customer satisfaction**, including call center **agent productivity**, **cost management**, and **engaging customers across multiple channels**

# ...what are their concerns...



The buyers

## IT

Security Breaches  
Governance  
Demand Planning  
Shadow IT  
Outages

## Marketing

Marketing ROI  
Customer Satisfaction  
Information Overload  
Managing Content  
Cost Reduction

## Sales

Repeating Success  
Accurately Forecasting  
Increasing  
Performance  
Beating Competitors  
Keeping Up with Tech  
Accessing Data

## Service

Changing Customer  
Expectations  
Meeting Service Levels  
Agent Turnover  
Legacy Systems  
Cost Containment  
Security and Privacy



# ...what are their goals

## The buyers

### IT

- Reducing costs and keeping systems current and running.
- Delivering success to each line of business via tools and apps.
- Providing great user experiences for internal and external customers.
- Growing the business into the future by providing innovative solutions.

### Marketing

- Acquiring new customers and increasing revenue
- Onboarding new customers using a multi-channel marketing strategy, such as email, mobile, and social.
- Improving customer satisfaction
- Driving ongoing engagement and sales through promotions, campaigns, and loyalty programs.

### Sales

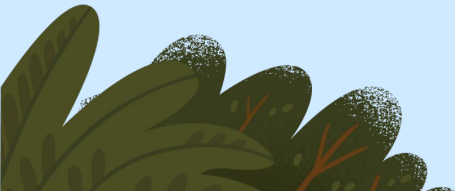
- Meeting customer expectations and connecting with them through multiple channels.
- Coaching sales managers to hire the right talent and keep them productive.
- Hitting their numbers every month by staying on top of key metrics.

### Service

- Providing personalized service to exceed customer expectations.
- Keeping service agents engaged and empowered to solve customer issues fast.
- Moving service from a cost center to a growth center.
- Adapting technology to the needs of their business and customers.



# Goals, Actors, Devices, Location



# Who will use the platform? Internal Users...





# ... and External Users



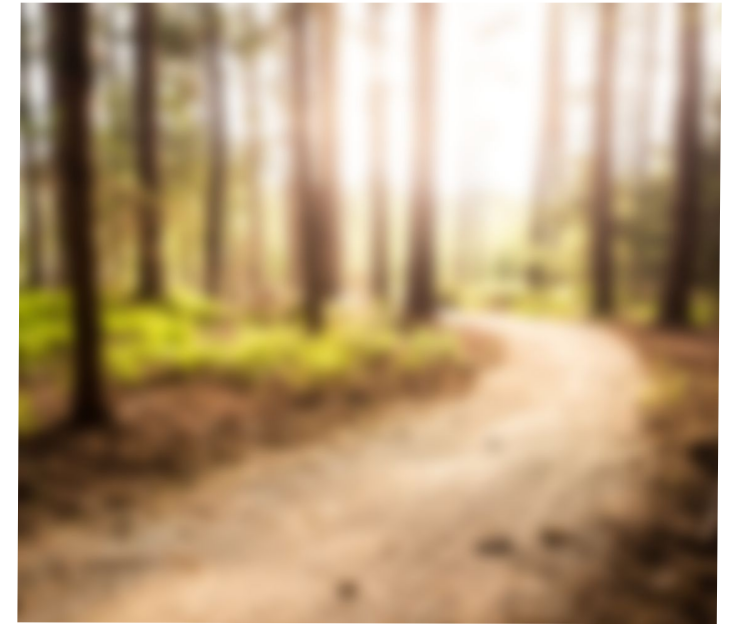
# Where will they connect from?



Office

Home

Mobility



# What devices will they use?

Desktops, laptops, tablets, mobile phones, but also...





# Org Strategy

Just One Org? Multiple Orgs?





# What to consider for an Org Strategy?



## Culture

Collaboration  
Level of Autonomy  
Governance Model

## Business

Sharing Processes & Data  
Flexibility & Adaptability  
Internal Organization  
Time to Value

## Technical

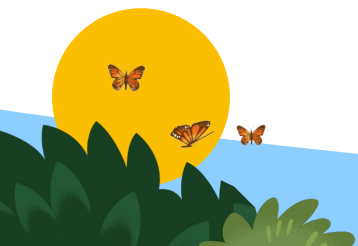
Security  
Governor Limits  
Architecture

## Support

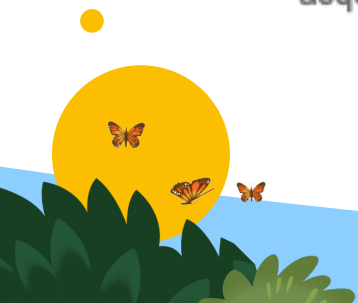
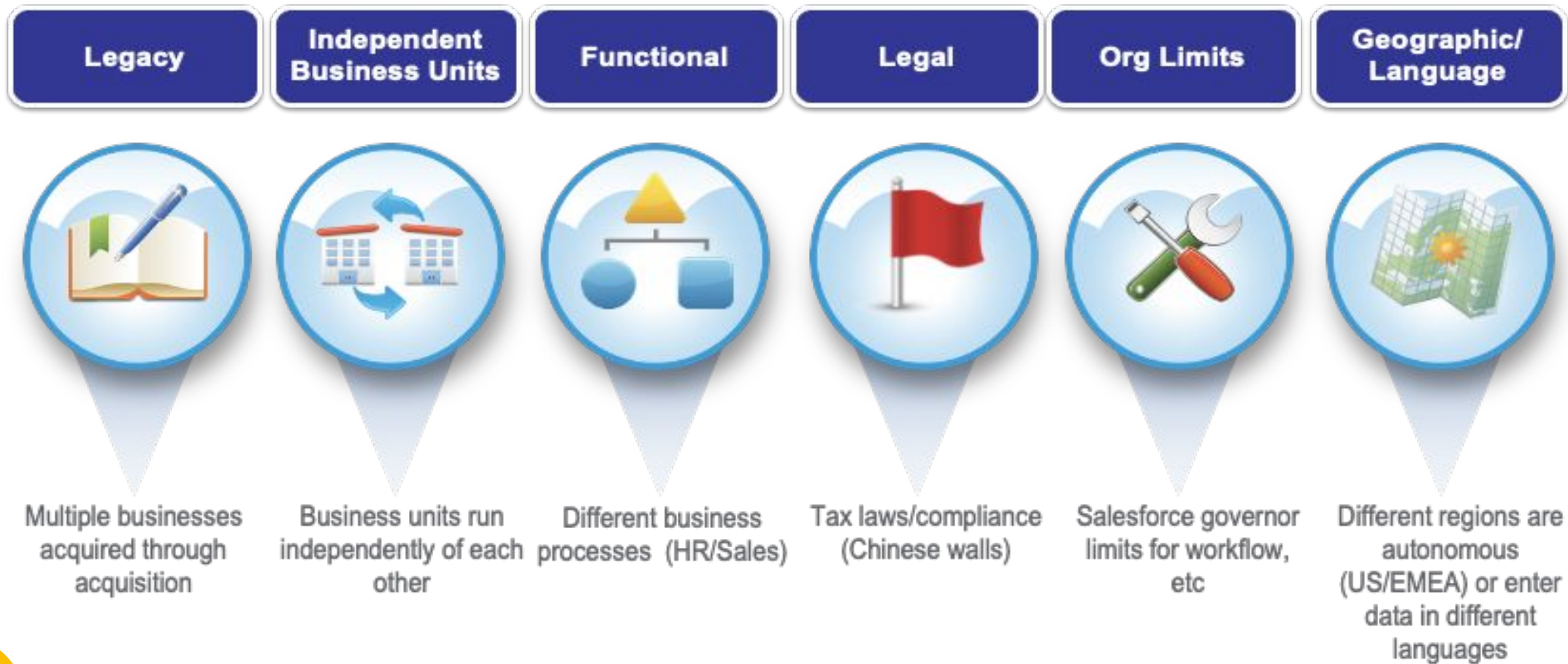
End-users Training  
Support Model  
Environments



# Top Drivers to choose a Single Org...



# ... and Top Drivers to choose Multiple Orgs





# System Landscape

As Is, Through the journey, To Be

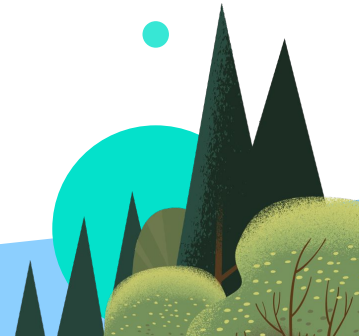




# Which systems does a CRM usually interact with?










-  Enterprise Resource Planning (ERP)
-  e-Commerce
-  Data Warehouse (DWH)
-  Identity Providers, SSO
-  Provisioning & Delivery
-  External Platforms (e.g. Payment Gateways, Credit Check...)
-  Billing
-  Integration Platforms (ESB, ETL)
-  Marketing

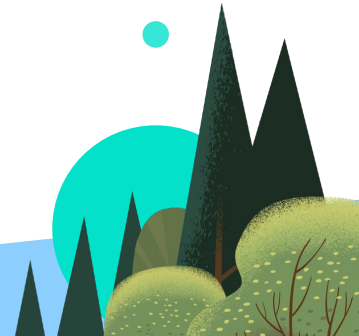


# Constraints? Decisions to take?

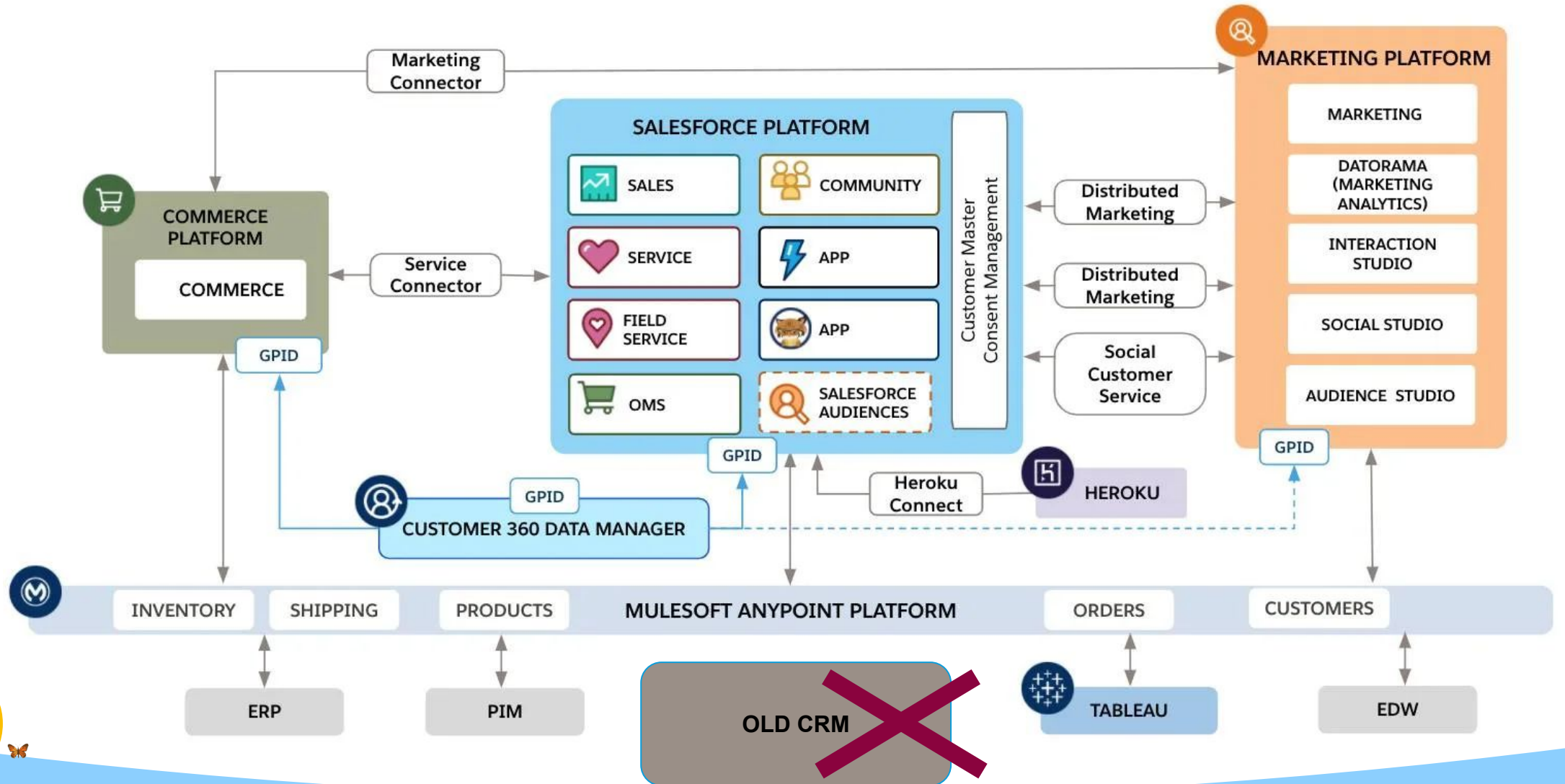


-  What happens to platforms planned to be replaced?
-  Is a data migration necessary?  
What happens to in-flight data?
-  Will there be a “Big Bang” or a “Phased” roll-out?
-  Will new and old systems coexist for a specific time interval?

-  Are there rigid target dates? E.g. imposed by Regulatory Agencies.
-  Are there still developer competences on the oldest systems to be integrated?
-  Is the customer willing to invest on evolution of old systems?



# Level 1: The Big Picture





# Data Model & Data Architecture







# Data Model: What is it?

## What is an object in Salesforce?

In Salesforce, when we talk about the data model, we're talking about the **collection of objects and fields in an app.**

We think about database **tables as objects**, we think about columns as fields, and rows as records. So instead of an account spreadsheet or table, we have an **Account object** with fields and a bunch of identically structured records.

The screenshot shows a Salesforce Account record for Maya Parker. The account name is United Oil & Gas Corp. and the annual revenue is USD 5,600,000,000.00. The record is displayed in a table format with two columns. The left column contains fields such as Account Owner (Maya Parker), Account Name (United Oil & Gas Corp.), Parent Account, Account Number (CD355118), Account Site, Type (Customer - Direct), Industry (Energy), Annual Revenue (USD 5,600,000,000.00), and Potential Value (USD 3,440,000.00). The right column contains fields such as Prospect Rating (Hot), Phone ((212) 842-5500), Fax ((212) 842-5501), Website (http://www.uos.com), Ticker Symbol (UOS), Ownership (Public), Employees (145,000), and SIC Code (4437).

Account	
Account Name	Annual Revenue
United Oil & Gas Corp.	USD 5.600.000.000,00
Related <u>Details</u> News	
Account Owner	Prospect Rating ⓘ
Maya Parker	Hot
Account Name	Phone
United Oil & Gas Corp.	(212) 842-5500
Parent Account	Fax
	(212) 842-5501
Account Number	Website
CD355118	http://www.uos.com
Account Site	Ticker Symbol
	UOS
Type	Ownership
Customer - Direct	Public
Industry	Employees
Energy	145.000
Annual Revenue	SIC Code
USD 5.600.000.000,00	4437
Potential Value	
USD 3.440.000,00	

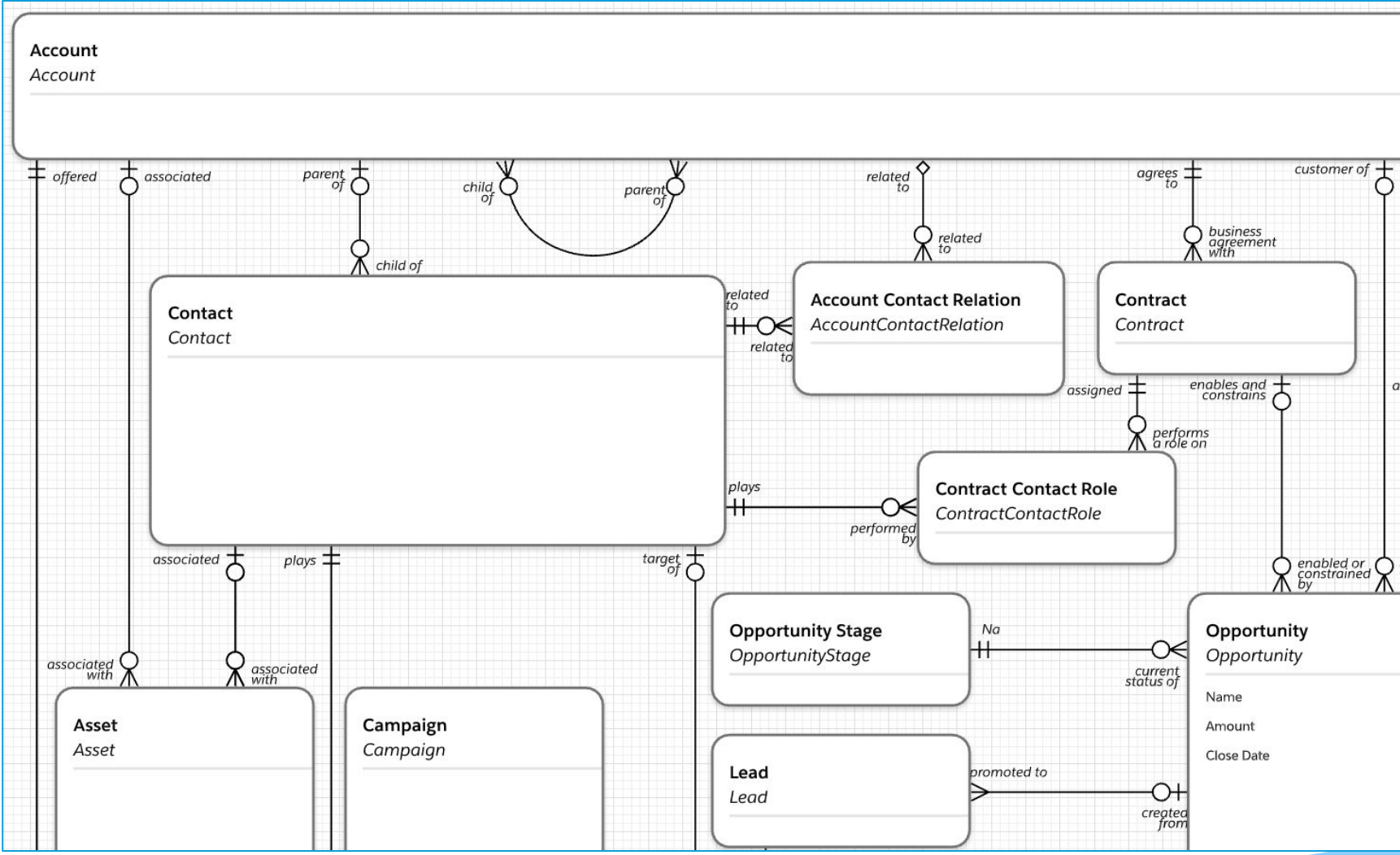


# Data Model: What is it?

A data model is more or less what it sounds like. It's a way to model what database tables look like in a way that makes sense to humans.

A data model typically includes:

- Standard Objects
- Custom Objects
- Relationships among objects
- Custom Fields



# Data Model: How do we design it?



---

## What does customer need to do?

- Collect and analyze business requirements to design the business process that represents customer use case.

Analyze

---

## Can I use out-of-the-box business processes supported by Salesforce?

- Map customer business process as closely to the out-of-the-box business process supported by Salesforce.

Map

---

## Do I need to store more data?

- Create custom fields & custom objects.
- Add relationships between objects following business requirements.

Customize

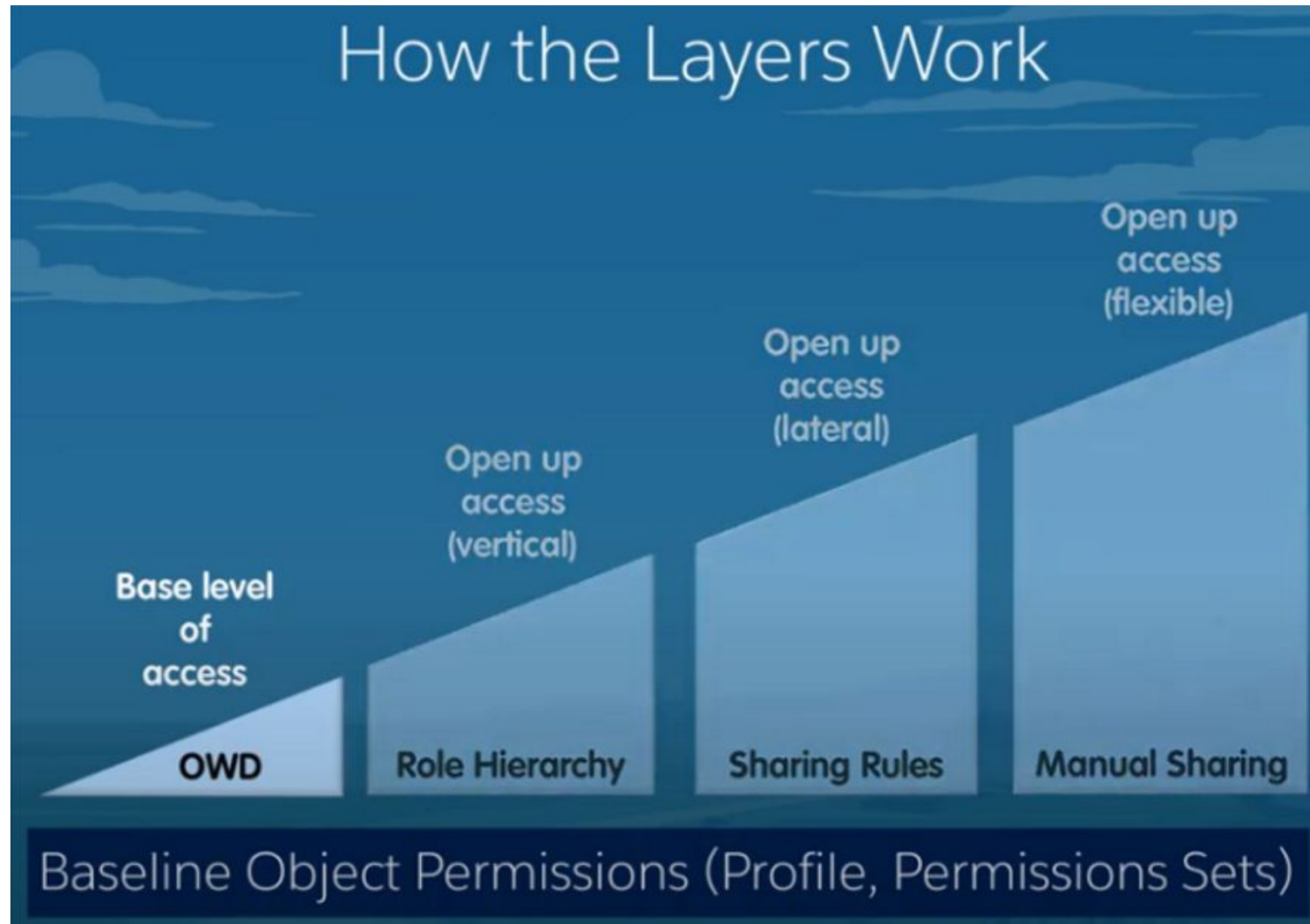


# Data Visibility & Security: Who sees what?





# Data Visibility & Security: Records Sharing



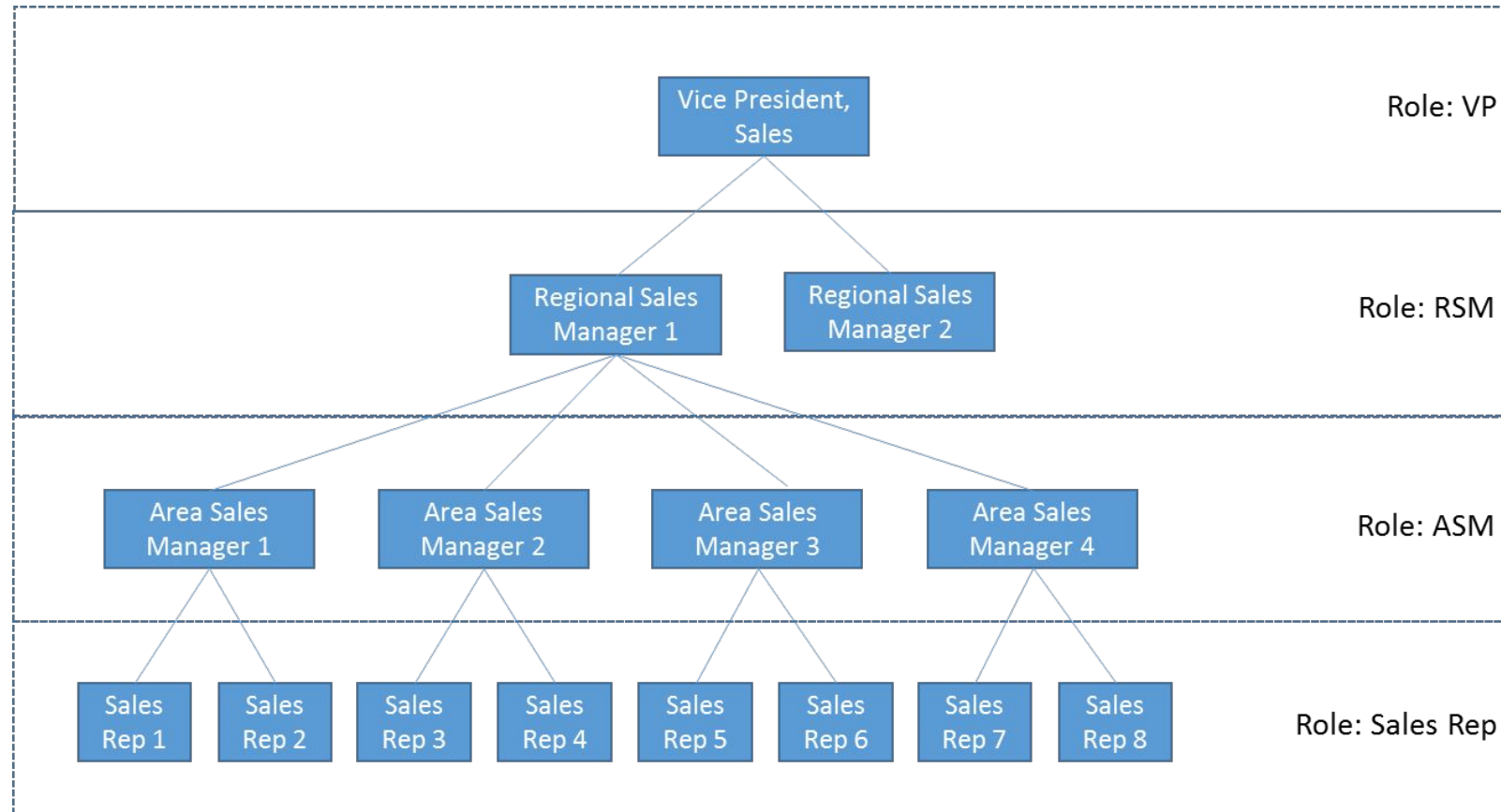
You can allow particular users to view an object, but then restrict the individual object records they're allowed to see.

**You can manage record-level access in different ways**

# Data Visibility & Security: Records Sharing



## Role Hierarchy

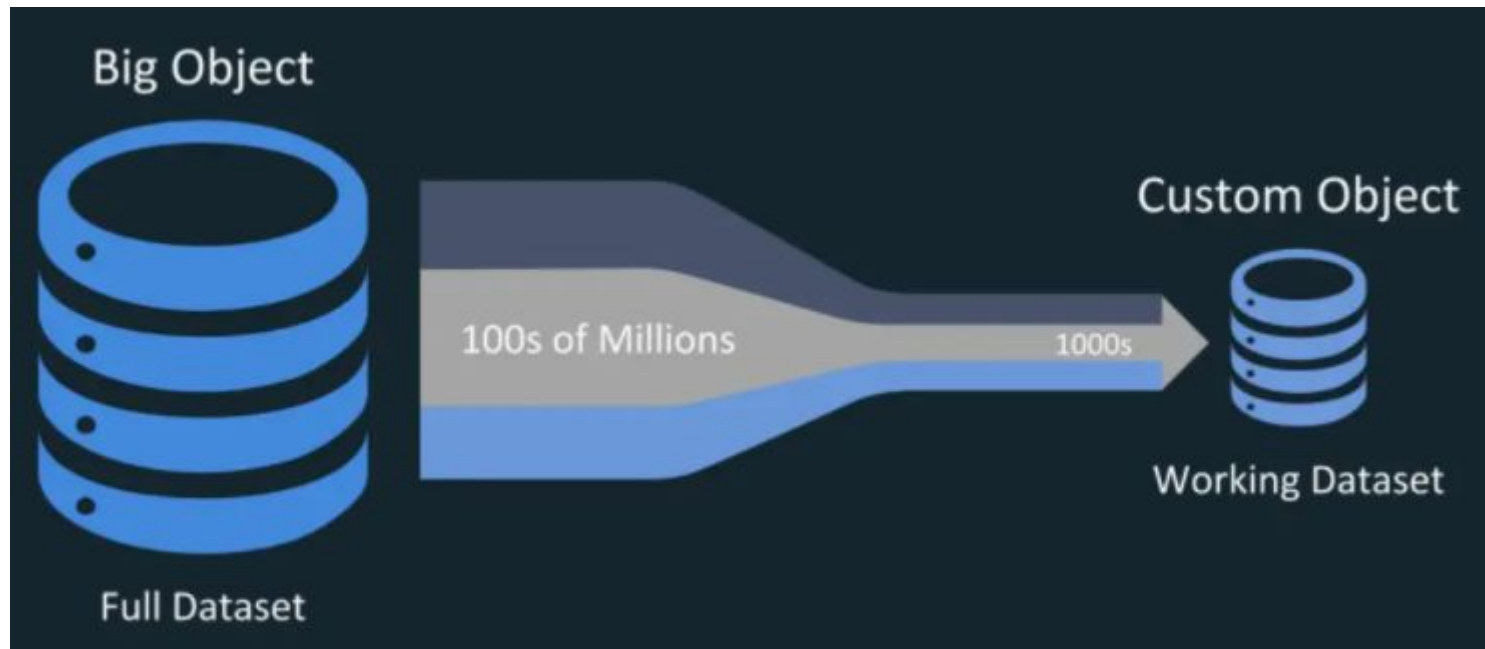


The role hierarchy **automatically grants** record-level permissions.

# Strategies for Big Data Architecture

Hello, Salesforce Big Objects

As the name suggests, **Big Objects** store and manage a massive amount of data on the Salesforce platform. Salesforce recommends it for **anything over 20 million rows, into the billions**. Big Objects utilize a non-relational database to store data.



Analyze big data with declarative **Tableau CRM UI** instead of writing code to perform aggregate functions. Big Objects can be the source object in a dataflow.

# CRM Data Strategy

An effective **CRM data management strategy** is founded on a solid understanding of customer business processes, users behavior and technology.

Consider these 5 steps when building your Salesforce Data Management Strategy:







# Integration



# Integration patterns



## Remote Process Invocation Request Reply

Salesforce invokes a process on a remote system, waits for completion of that process, and then tracks state based on the response from the remote system.



## Remote Process Invocation Fire and Forget

Salesforce invokes a process in a remote system but doesn't wait for completion of the process. Instead, the remote process receives and acknowledges the request and then hands off control back to Salesforce.

## Batch data Synchronization

Data stored in Lightning Platform is created or refreshed to reflect updates from an external system, and when changes from Lightning Platform are sent to an external system. Updates in either direction are done in a batch manner.



## Remote call in

Data stored in Lightning Platform is created, retrieved, updated, or deleted by a remote system.



## UI Update Based on Data Changes

The Salesforce user interface must be automatically updated as a result of changes to Salesforce data.



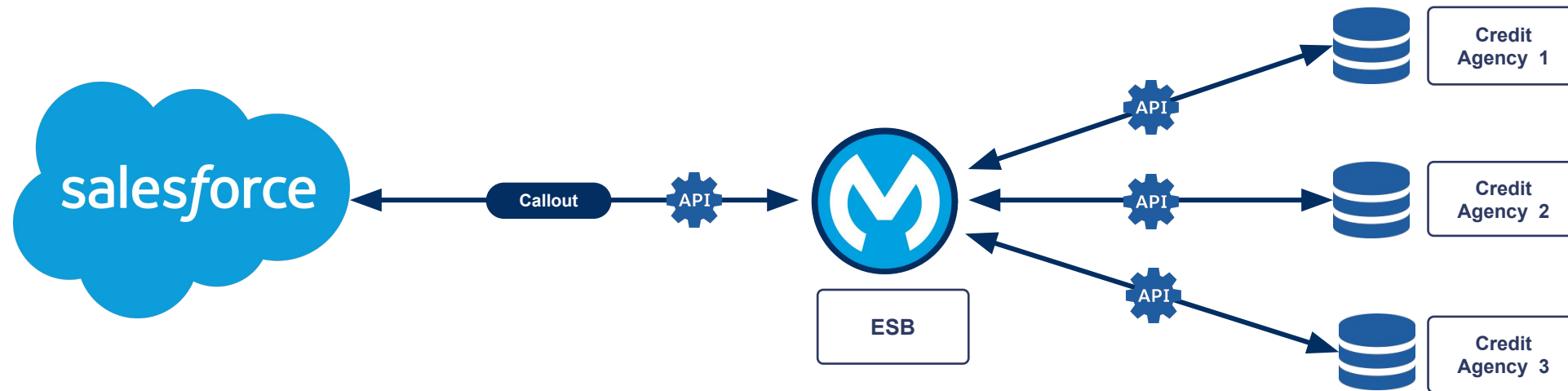
## Data Virtualization

Salesforce accesses external data in real time. This removes the need to persist data in Salesforce and then reconcile the data between Salesforce and the external system.



# Synchronous Interaction

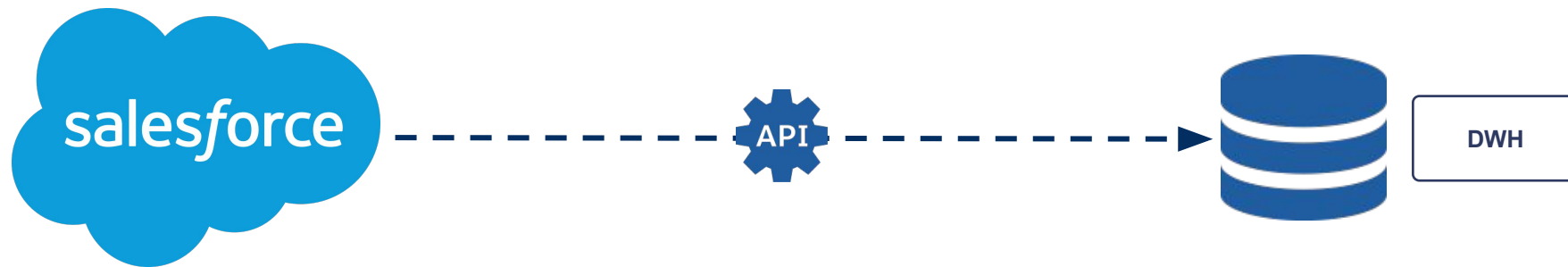
Example: credit check with external agencies/providers



Remote Process Invocation  
Request and Reply

# Asynchronous Interaction

Example: align other systems (for example, ERP, DWH)

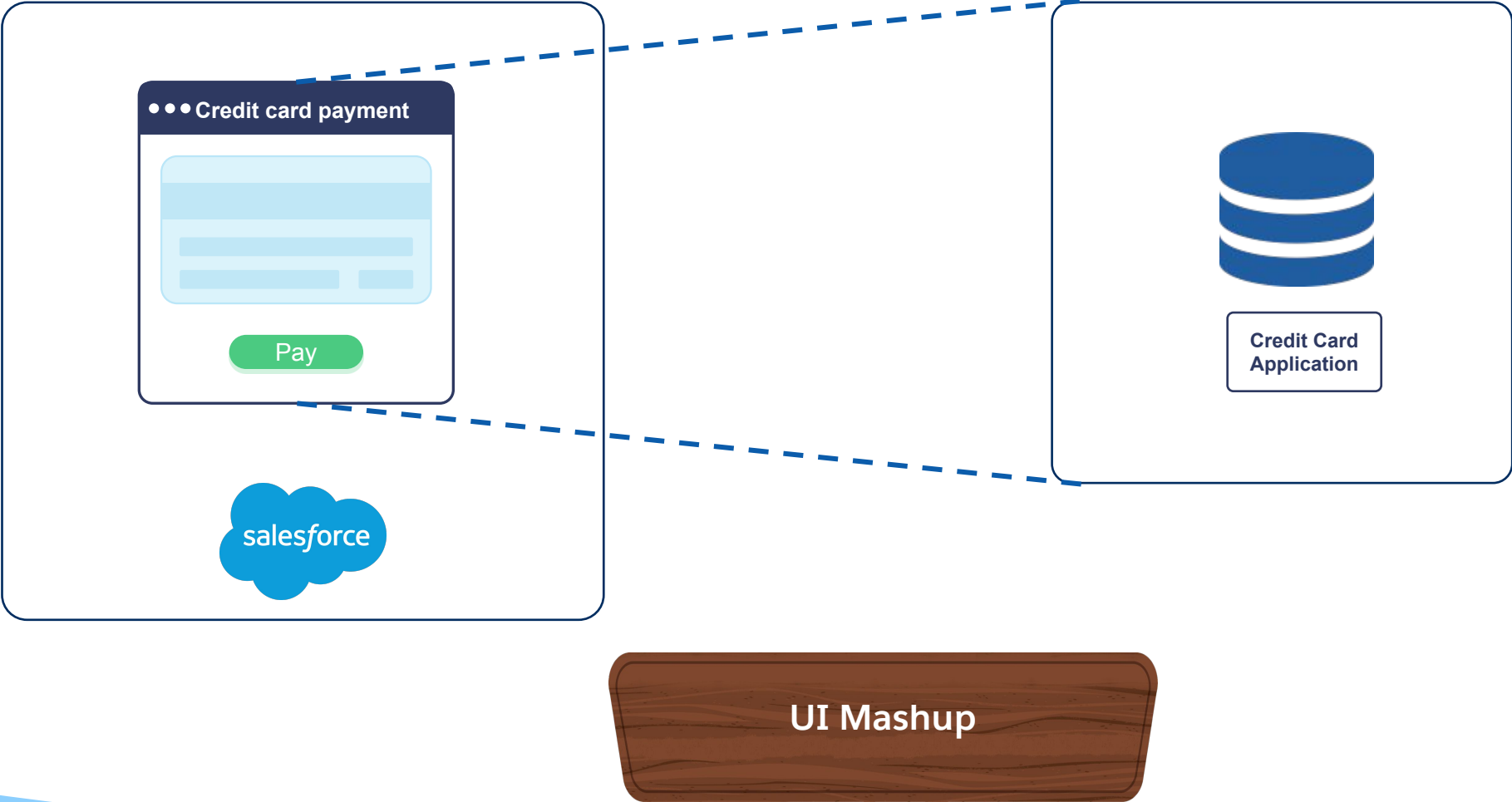


Remote Process Invocation  
Fire & Forget



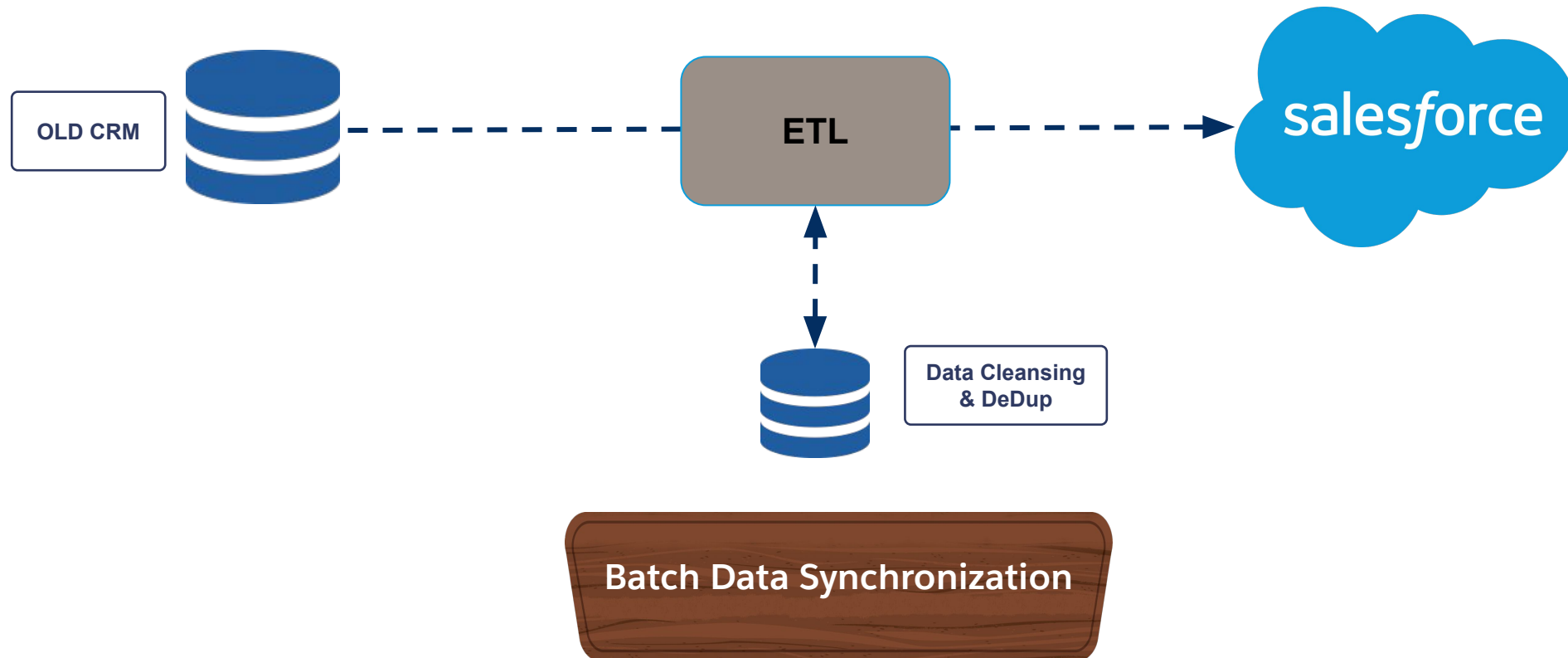
# Embedded GUI Interaction

Example: Maps, Credit Card Mgmt Applications

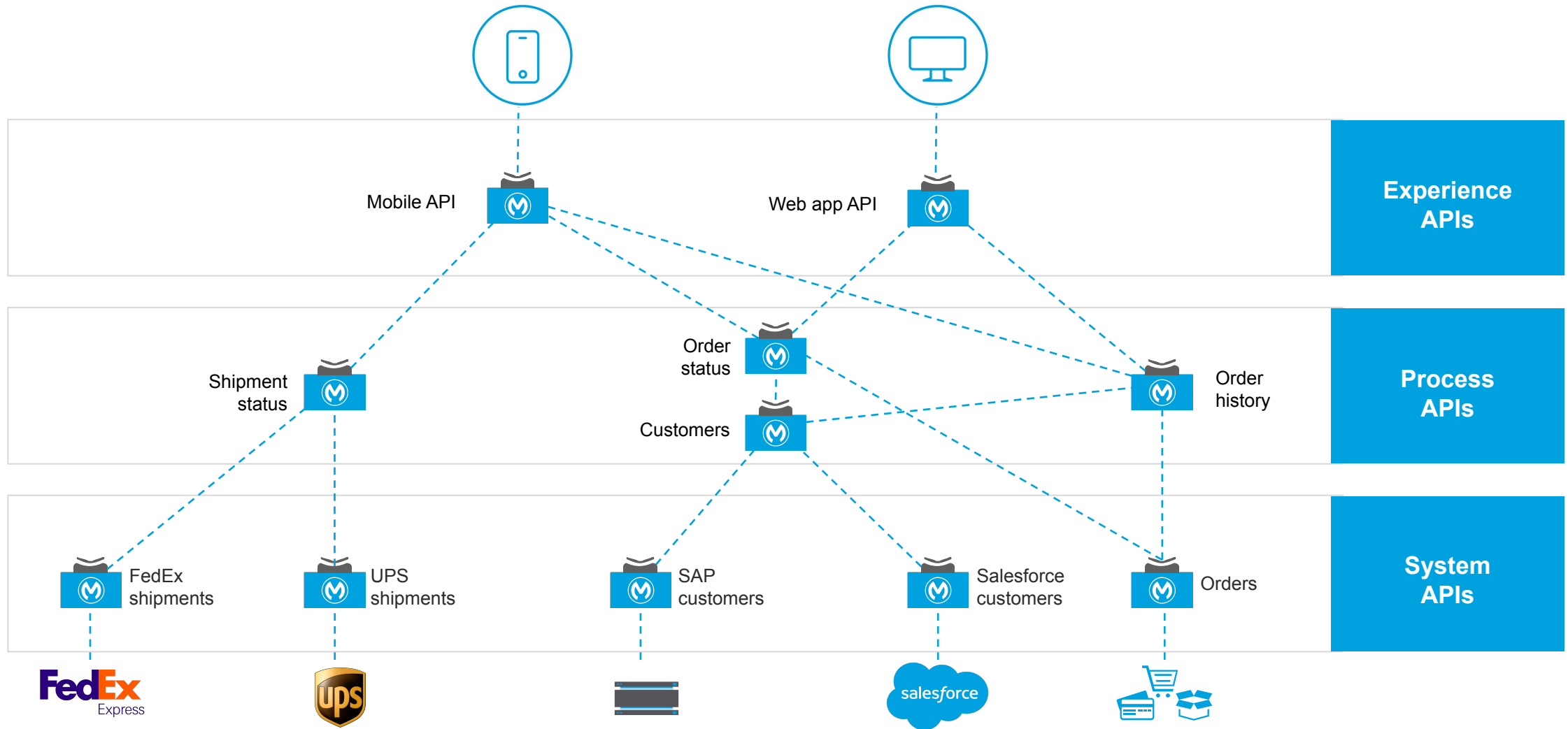


# Batch Alignment

Example: Massive data alignment, Data migration



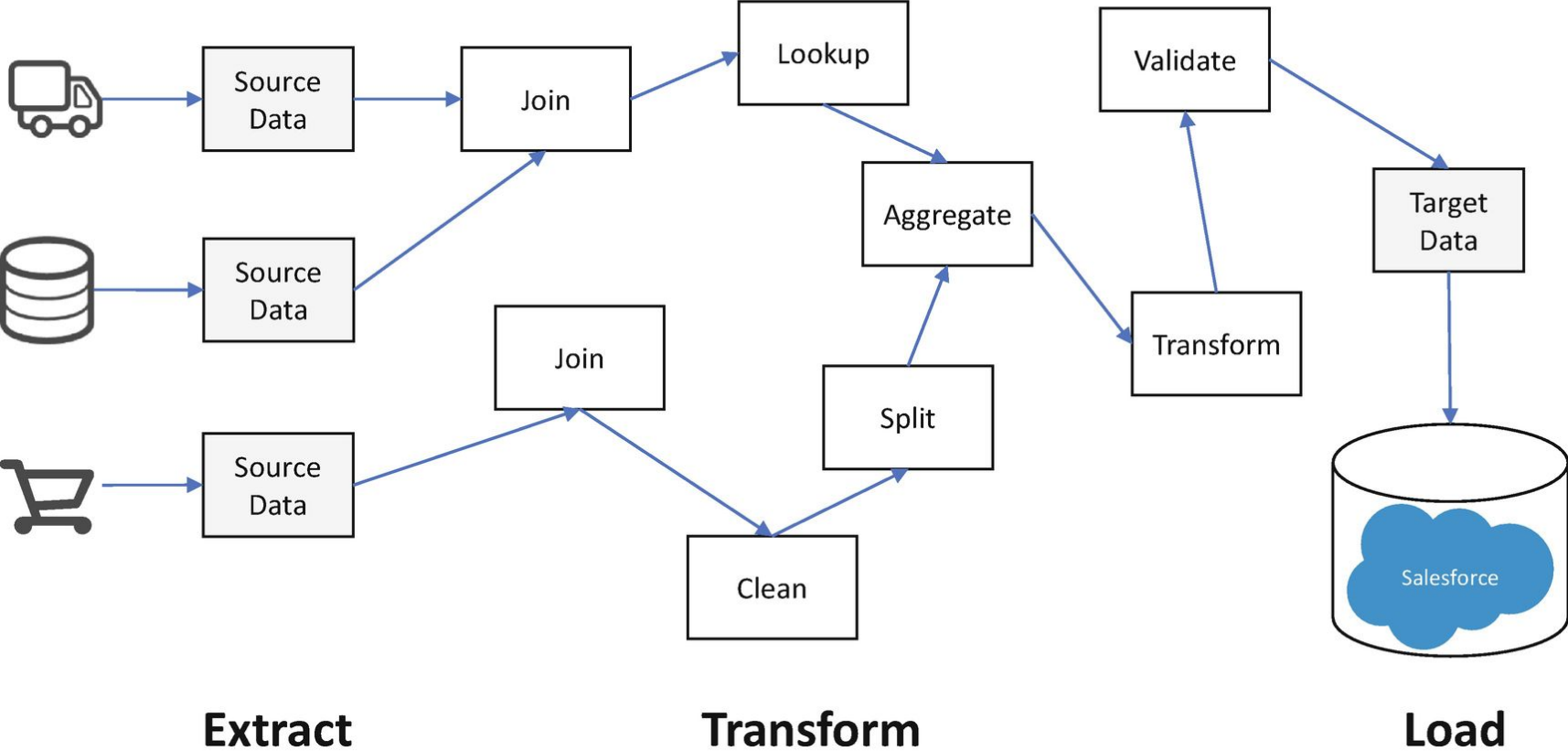
# Mulesoft ESB Api-led approach



# ETL process approach



ETL Process from Source data to Target data







# Identity Management



# Authentication - Authorization - Accounting



The key concepts of the “Identity Management”

## Identification

A User presents his/her access **Credentials**

In a **Real Life** similar to presenting your plane ticket at the airport

In **Digital Life** typing your Username/Pwd into a system

## Authentication

The process of confirming/verifying those **Credentials** are true and valid

In **Real Life** when the airport staff verify your ticket and make sure is valid (sometimes asking for second factor)

In **Digital Life** usually we don't see but in the back-end either a username/pwd verification occurs (or a SAML request to **Identity Provider**)

## Authorization

The process of determining what can an **authenticated** user access and do in the system

In **Real Life** is similar in going to security check where they make sure you can access restricted areas

In **Digital Life** is still behind the scene, but once the user is authenticated the system (usually the **Service Provider**) enforces what **resources** has access to and what can the user do with those resources

## Accounting

The recollection of user activities throughout the live of his/her session in the system

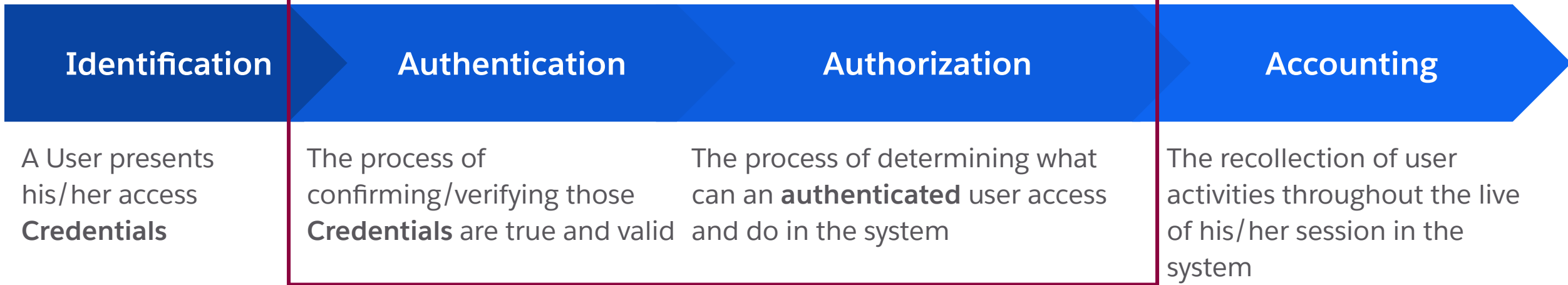
In **Real Life**, boarding the plane, when the ticket gets scan again

In **Digital Life** all the reports that summarize what the user where doing (Login History, Audit Log, etc.)



# Authentication - Authorization - Accounting

The key concepts of the “Identity Management”



## Identity

Identity of a digital user is the collection of digital information that truthfully allow you to know **WHO** the user is and **WHAT** he/she can access in the system

# What is Single Sign On (SSO)?



Single sign-on (SSO) is an **authentication** scheme that allows a user to log in with a single ID and password to any of several related, yet independent, software systems.

## Benefits

Reduce admin costs (password maintenance, forgot pwd on many system)

Leverage existing investment (many companies use LDAP to manage user identities)

Increase user adoption and productivity (user provisioning and just one login credentials)

Increase security (centrally managed user deprovisioning)

## SSO & Salesforce

Federated Authentication (using SAML)

Delegated Authentication

Authentication providers



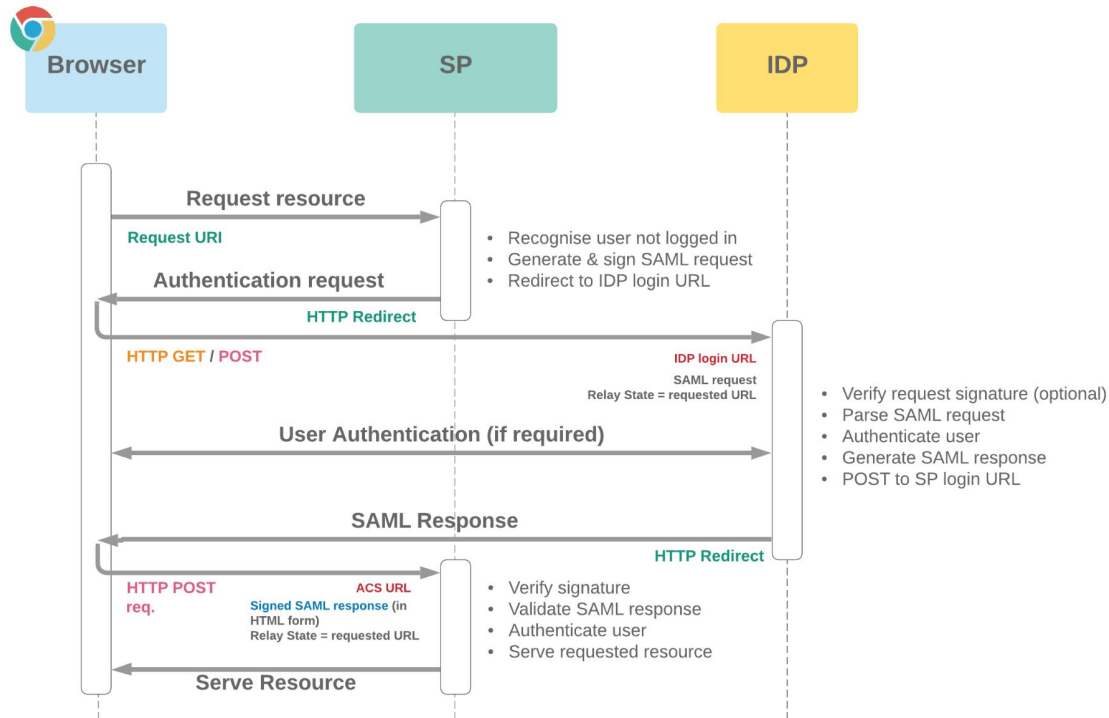
Authentication is done by an external Identity Provider (IdP) system and Salesforce is the Service Provider (SP)



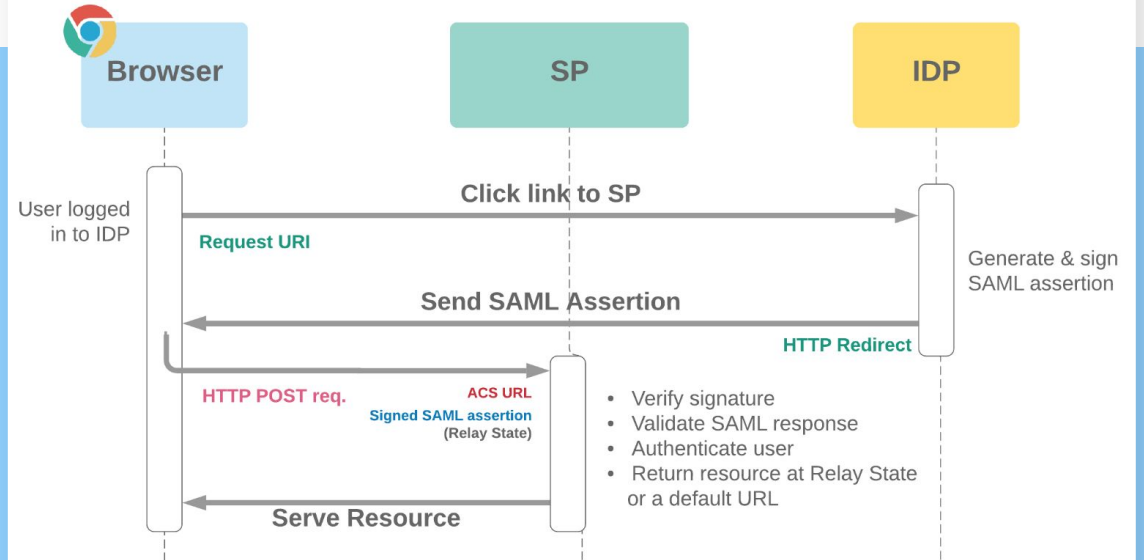
# SSO SAML Flow - SP & IdP Initiated



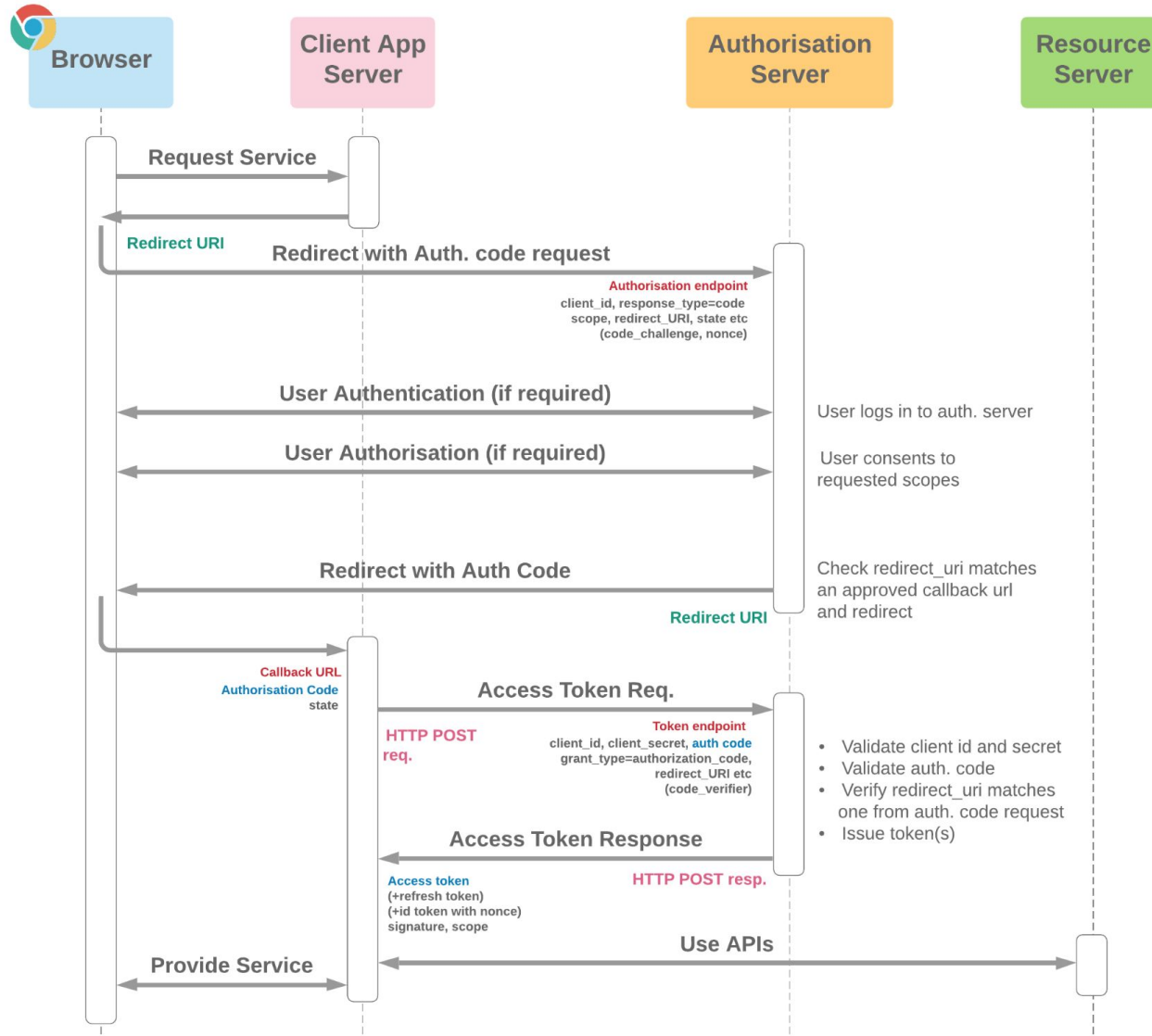
## SSO - SP Initiated



## SSO - IdP Initiated



# Authorization Flows - OAuth 2.0





# OAuth 2.0 Flows

There are several OAuth flow depending on the use case and device in place. These are just some of them:

OAuth 2.0 **Web Server Flow** for **Web App Integration** (Authorization Code Grant): used for Web Application Servers able to protect the connected app's identity

OAuth 2.0 **User-Agent** Flow for **Desktop or Mobile App Integration** (Implicit Grant): used for Mobile App or Web App that doesn't have a backend

OAuth 2.0 **JWT Bearer Flow** for **Server-to-Server Integration**: where instead there are no Web App on Browser

OAuth 2.0 **Device Flow** for **IoT Integration**: pps that run on devices with limited input or display capabilities, such as Smart TVs, appliances, and other IoT devices

OAuth 2.0 **Refresh Token Flow** for **Renewed Sessions**; renews access tokens issued by the OAuth 2.0 web server flow or the OAuth 2.0 user-agent flow.

OAuth 2.0 **SAML Bearer Assertion Flow** for Previously Authorized Apps: leverage a SAML Assertion to get an Access\_Token

# Multi Factor Authentication (MFA)

MFA is an effective way to increase protection for user accounts against common threats like phishing attacks, credential stuffing, and account takeovers



---

Something you know

Such as a username and password, or pin number



---

Something you have

Such as a one-time passcode from a hardware device or mobile app



---

Something you are

Such as fingerprint or face scanning technology



Because MFA requires you to submit multiple forms of authentication to prove your identity, your account is less likely to be compromised or breached

Salesforce is enforcing this additional layer of security on all his products by February 2022





# Development Lifecycle



# How do we develop in Salesforce?

From No-Code to Code



LOW-CODE

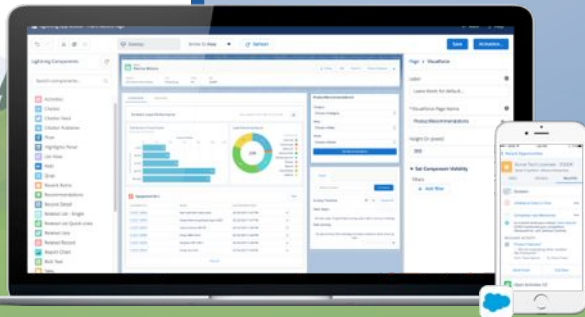
NO-CODE

CODE

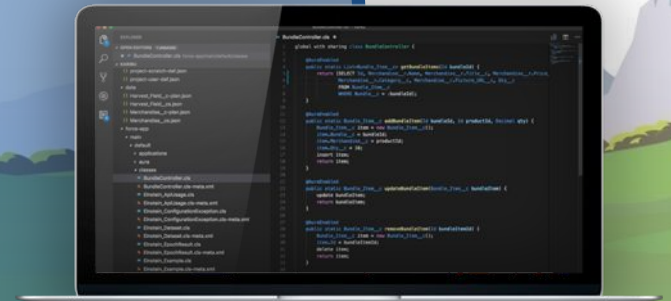


**Toya Gatewood**  
Consultant

**Jordan McDaniel**  
Developer & Architect



BUSINESS USERS

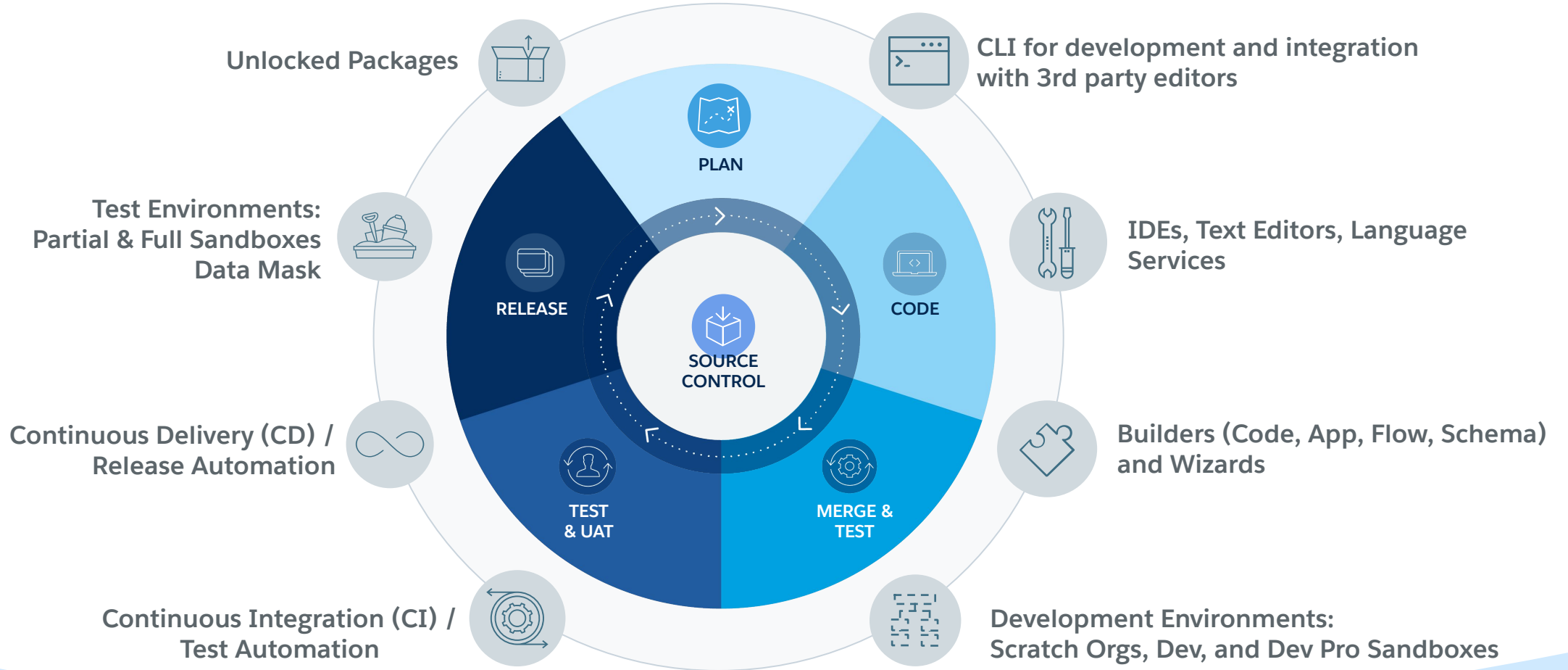


DEVELOPERS



# Modern Application Lifecycle Management (ALM)

The fast, efficient, and trusted path to build on Salesforce



# Development Models



Customizing Core Applications:  
Sales, Service, etc



## Org (Unpackaged) Development

- Declarative (UI)
- Programmatic (CLI)

Creating Custom Platform  
Applications for your Org(s)



## Package Development

- Programmatic (CLI)



# Environments? Sandboxes!



SANDBOX TYPE	REFRESH INTERVAL	STORAGE LIMIT	WHAT'S COPIED	TEMPLATES
Developer	1 day	Data storage: 200 MB File storage: 200 MB	Metadata only	Not available
Developer Pro	1 day	Data storage: 1 GB File storage: 1 GB	Metadata only	Not available
Partial Copy	5 days	Data storage: 5 GB File storage: Same as your production org	Metadata and sample data	Required
Full	29 days	Same as your production org	Metadata and all data	Available

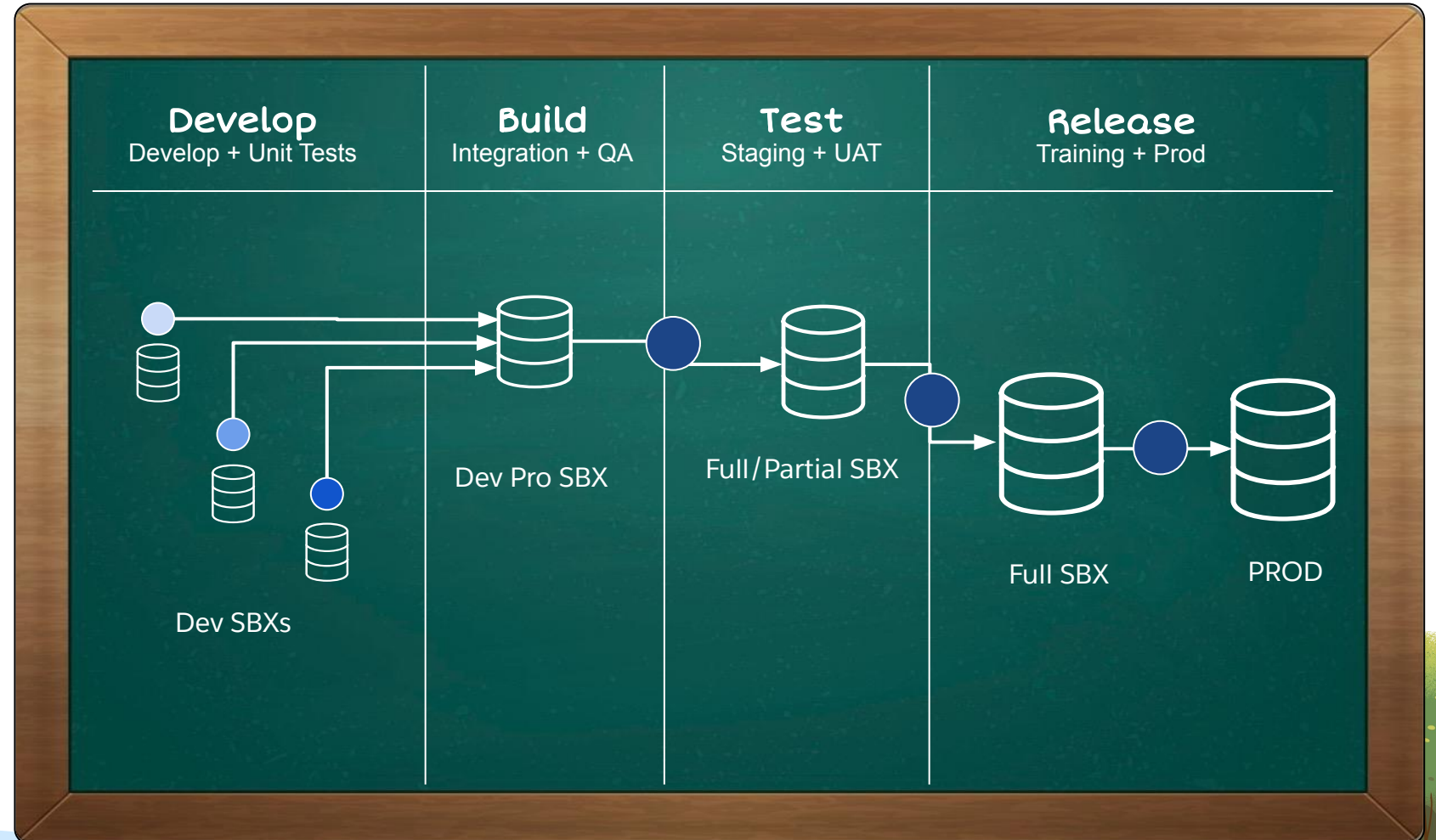


# Declarative Org (Unpackaged) Development Model



Promote org changes in Setup using Change Sets

Code is promoted through **Outbound and Inbound Change Sets**



# Change Sets Limits

Convenient for small orgs, but poorly suited to the needs of larger implementations

## Collaboration is hard

No conflict detection

No ability to merge changes in the same metadata

## Lack of traceability

Why was this change performed? By Who? When?

## Time consuming

Components have to be added manually

Does not play well with Continuous Integration



- An architect trying to scale with change sets -



# What is Source Control & Git?

An open-source distributed source code management system for the practice of tracking and managing changes to code

**Source control** (or version control) is the practice of tracking and managing changes to code. Source control management (SCM) systems provide a running history of code development and help to resolve conflicts when merging contributions from multiple sources.

**Git** is a distributed, open-source version control system (VCS) that enables you to store code, track revision history, merge code changes, and revert to earlier code version when needed. Git allows you to create a copy of your repository known as a **branch**.

**Using this branch**, you can then work on your code independently from the stable version of your codebase. Once you are ready with your changes, you can store them as a set of differences, known as a commit. You can pull in commits from other contributors to your repository, push your commits to others, and merge your commits back into the main version of the repository.

To learn more about Git, [go here](#).



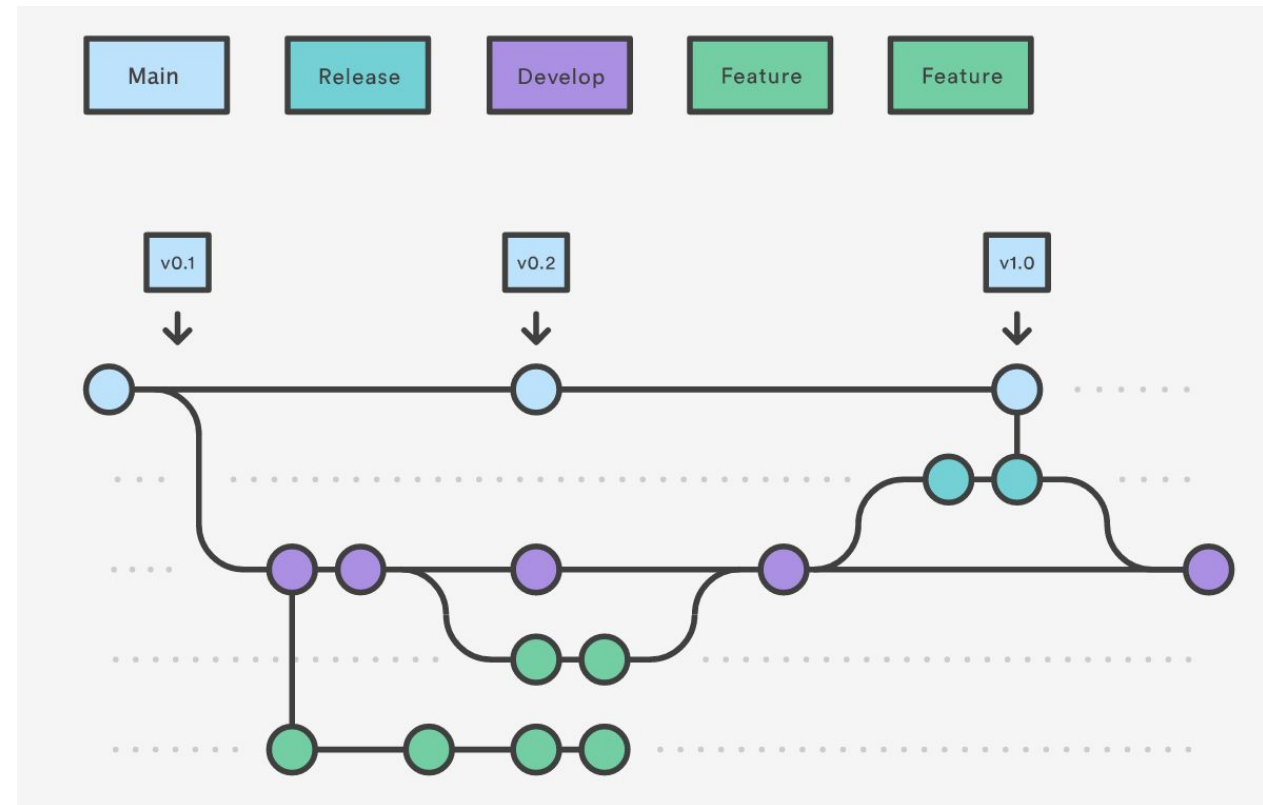
# Gitflow Workflow

A robust framework for managing small and large projects

Gitflow Workflow is a Git workflow design that was first published and made popular by [Vincent Driessen at nvie](#). The Gitflow Workflow defines a strict branching model designed around the project release. This provides a robust framework for managing larger projects.

Gitflow is ideally suited for projects that have a **scheduled release cycle**. This workflow doesn't add any new concepts or commands beyond what's required for the [Feature Branch Workflow](#). Instead, it **assigns very specific roles to different branches** and defines how and when they should interact. In addition to feature branches, it uses individual branches for preparing, maintaining, and recording releases.

Of course, you also get to leverage all the benefits of the [Feature Branch Workflow](#): pull requests, isolated experiments, and more efficient collaboration



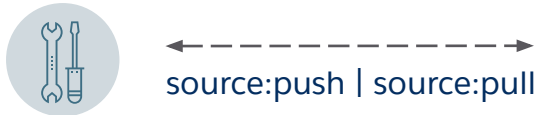


# Package Development Model

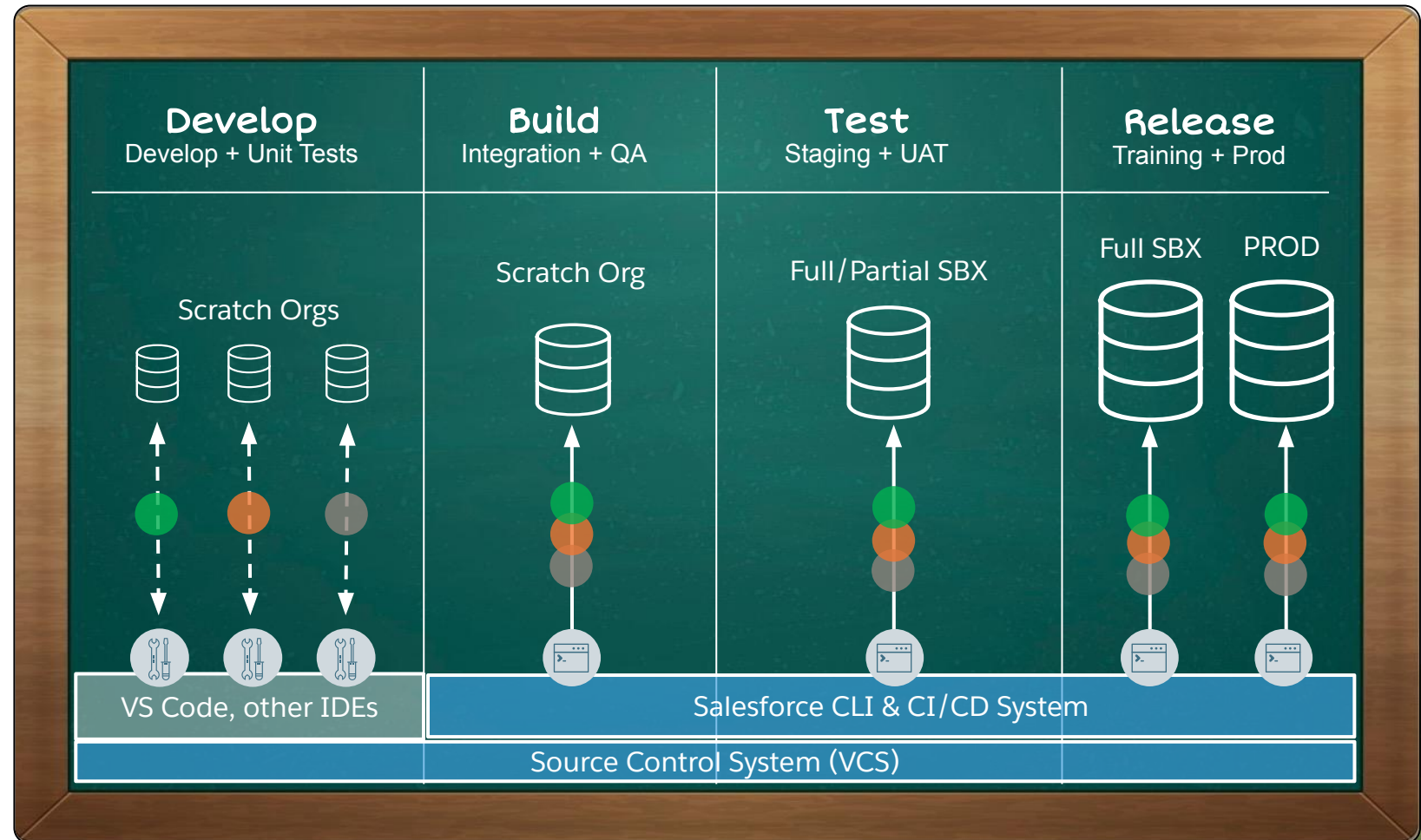


Create complete modules utilizing our IDE, CLI, and Source Control

Changes are tracked in source control. Updates are released with new package versions



each circle represents separate packages







# Governance



# Governance

## What is IT Governance

Ensure that the **project meets its objectives, success criteria, and success metrics** by controlling and **managing changes to scope, schedule, and budget** throughout the project lifecycle

**Enable** all stakeholders to influence the project's direction in order to **maximize its ultimate value**



Establish a **clear and agreed structure to monitor and manage** the fundamental elements of the project

**Helps avoid customer escalations, scope creep,** delivery of a solution that does not meet the expected business outcomes, and warranty work

*Think of Governance like the sheriff ensuring things don't go astray like the wild, wild West of your business processes.*



# Governance



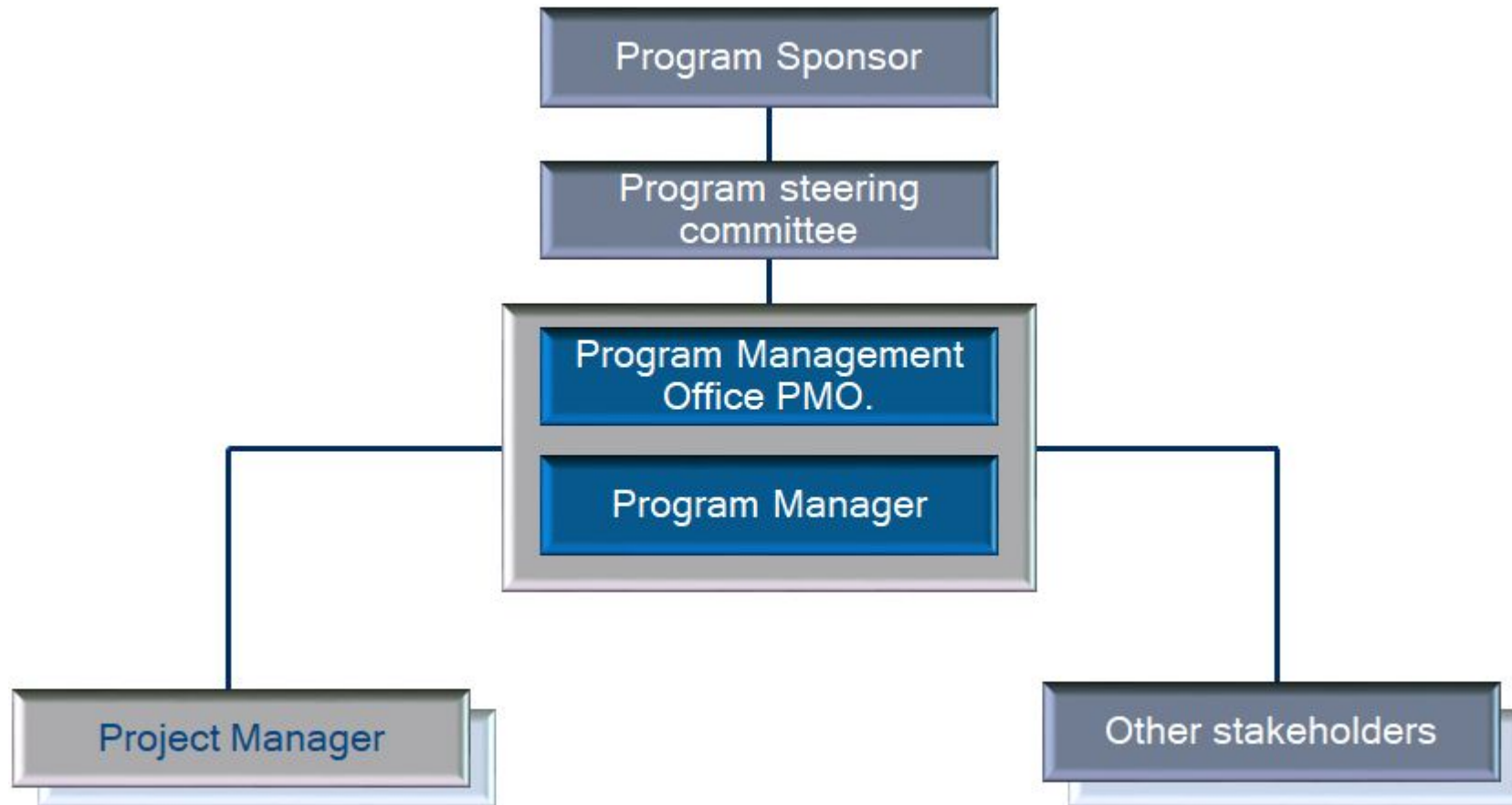
What are the Overall Benefits of Governance?

*Governance helps companys **create optimal value from IT** by maintaining a balance between realising benefits and optimising risk levels and resource use.*



# Governance

Main program governance roles



# Governance

## Create RASIC (Responsibility Matrix)

When establishing roles and responsibilities on a project or business activity, developing a **RASIC matrix** is a useful way to ensure that roles and responsibilities related to key activities and deliverables are understood and agreed upon.

A RASIC matrix is a grid showing **key activities and deliverables mapped against roles assigned to work on the project.**

RASIC is an acronym, which stands for "**Responsible**", "**Accountable**", "**Supporting**", "**Informed**" and "**Consulted**." These designations are defined as follows:

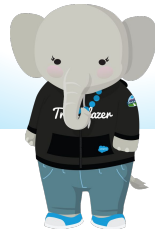
### Responsible

- The “doer”
- The chokable throat
- Only one “R” per row



### Accountable

- Buck stops here
- Veto power
- Only one “A” per row



### Supports

- Helps the “R”
- A secondary “doer”
- Can have 0,1, or many “S” per row



### Informed

- Needs to know of important decisions made or tasks completed
- One way communication
- Can have 0,1, or many “I” per row



### Consulted

- Provides input and considerations into key decisions before they are made
- Two way communication
- Kept in the loop
- Can have 0,1, or many “C” per row





# Governance



What does a RASIC look like?

	SDM	EM	PM	SBA	BA	TA	Dev	Data	UX	UI	Creative Director	QA Lead	QA Tester	Change Mgmt / Training	Client - Project Sponsor	Client - Product Owner
<b>Planning</b>																
Logistics for Week 1	C	A	R													
Project Initiation Document (Kickoff Deck)	C	A	R													
Facilitate Kickoff Meeting	C	A	R													
Pre-BPR Questionnaire	C	A	S	R		S			S							
Methodology Primer		A	R													S
RACI/RASIC		A	R	S		S					S					S
Work Breakdown Structure		A	R	S		S					S				I	S
Comprehensive Project Plan		A	R	C		C					C				I	C
Sprint Plan (Themes and loaded stories)			A	R		S										
Scrum Release Plan			R	S		S										
Org Procurement			C	C		C										A
Comprehensive QA Plan			A	C		C			C			R				

# Committees

## Meeting Attendees and Purpose



- **Executive Steering Committee:** Involve your key vendors and review and update the vision and strategy where necessary; address any showstoppers.
- **Stakeholders:** Ensure that you've aligned everyone's goals.
- **Day-to-day Project Management:** They are responsible for the day to day management of the project(s).
- **Change Control Board:** Agree on major enhancements that are based on business goals. Discuss end-user feedback. They own the backlog for each release.
- **Release Management Board:** Verify that the current release is on schedule and meets quality standards.
- **Architecture Review Board:** Define the project architectural and design standards and offer project team advice on solving complex architectural issues.

# Architecture Review Board

## Definition



The **Architecture Review Board (ARB)** serves as a governance body ensuring IT initiatives align with Ecosystem Architecture and ultimately align with organizational goals, strategies, and objectives.



The ARB's purpose is to **improve the quality of IT products.**



# Resources





# Be a Trailblazer in the Salesforce Ecosystem



Trailhead



Trailblazer  
Community

Visit [trailblazers.salesforce.com](https://trailblazers.salesforce.com) today!



## Get Hands-on!

### Resources



[Get Started With Trailhead](#) for Individual Learner Onboarding



[Salesforce Administrator Credential](#) Prepare for Your Salesforce Administrator Certification



[Trailblazer-Ranks](#) from Scout to Ranger - Motivate yourself to go even further with Trailblazer Rank

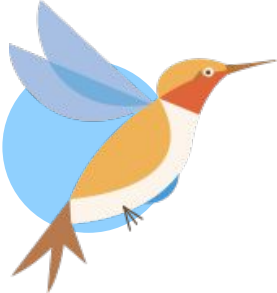


[Salesforce Career Path](#) - Discover your career path in the Cloud!



[Salesforce Architect Overview](#) - Get all you want to know about Salesforce Architect Certification path





**Q&A**





# Thank you



# Which KPIs do customers want to improve in Sales?

## Revenue Drivers

1. Lead conversion rate
2. Opportunity win rate
3. Lead volume
4. Cross-sell / upsell

## Efficiency / Data Accuracy

5. Sales productivity
6. Sales support productivity
7. Reduce uncontacted leads
8. Forecast accuracy\*

# Which KPIs do customers want to improve in Service?

## Efficiency

1. Service rep productivity
2. Case deflection
3. First contact resolution
4. New agent ramp time\*

## Revenue Drivers

5. Cross-sell / upsell
6. Customer retention
7. Purchase frequency



# Which KPIs do customers want to improve in Field Service?

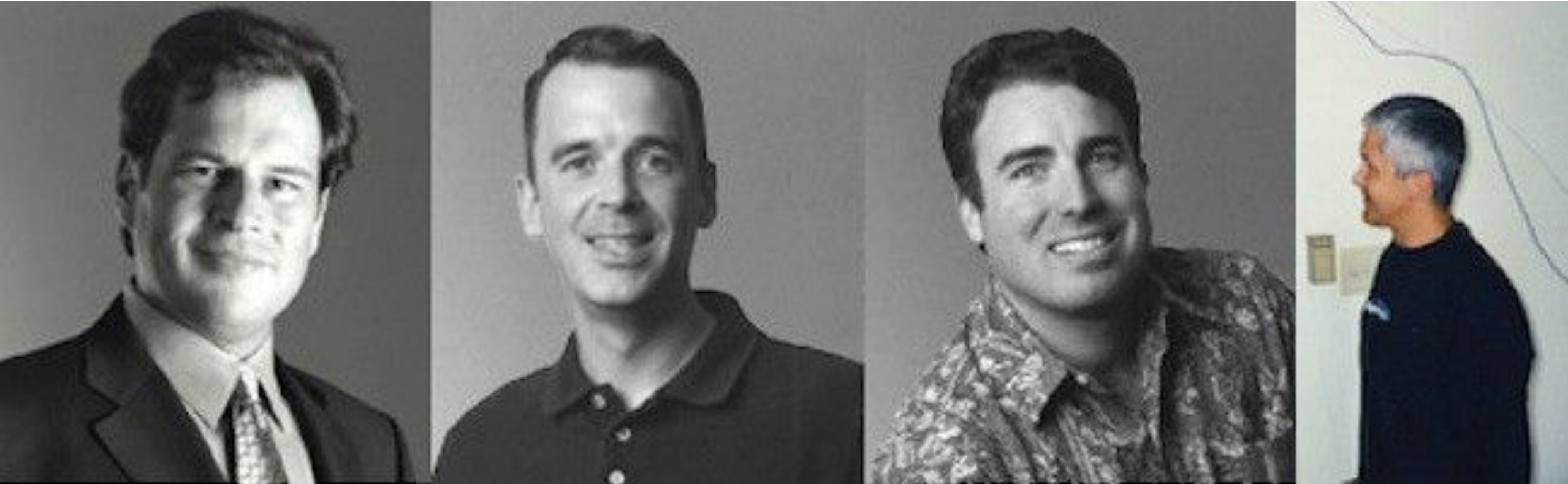
## Efficiency / Data Accuracy

1. Field tech capacity
2. Internal productivity
3. Reduce job cost / margin improvement
4. First time fix rate\*

## Revenue Drivers

5. Cross-sell / upsell
6. CSAT / customer retention
7. Warranty attachment rate
8. Revenue / cost leakage\*

# Everything starts in San Francisco, year 1999...



1999





**2021**



# Challenging the Status Quo



## A new Technology Model



## A new Business Model



Google!

Search 1,326,920,000 web pages

**amazon.com**



# The Customer Success Gap



Your Company

**75%**  
of companies  
think they are  
customer-centric

Economic crisis

Environmental crisis

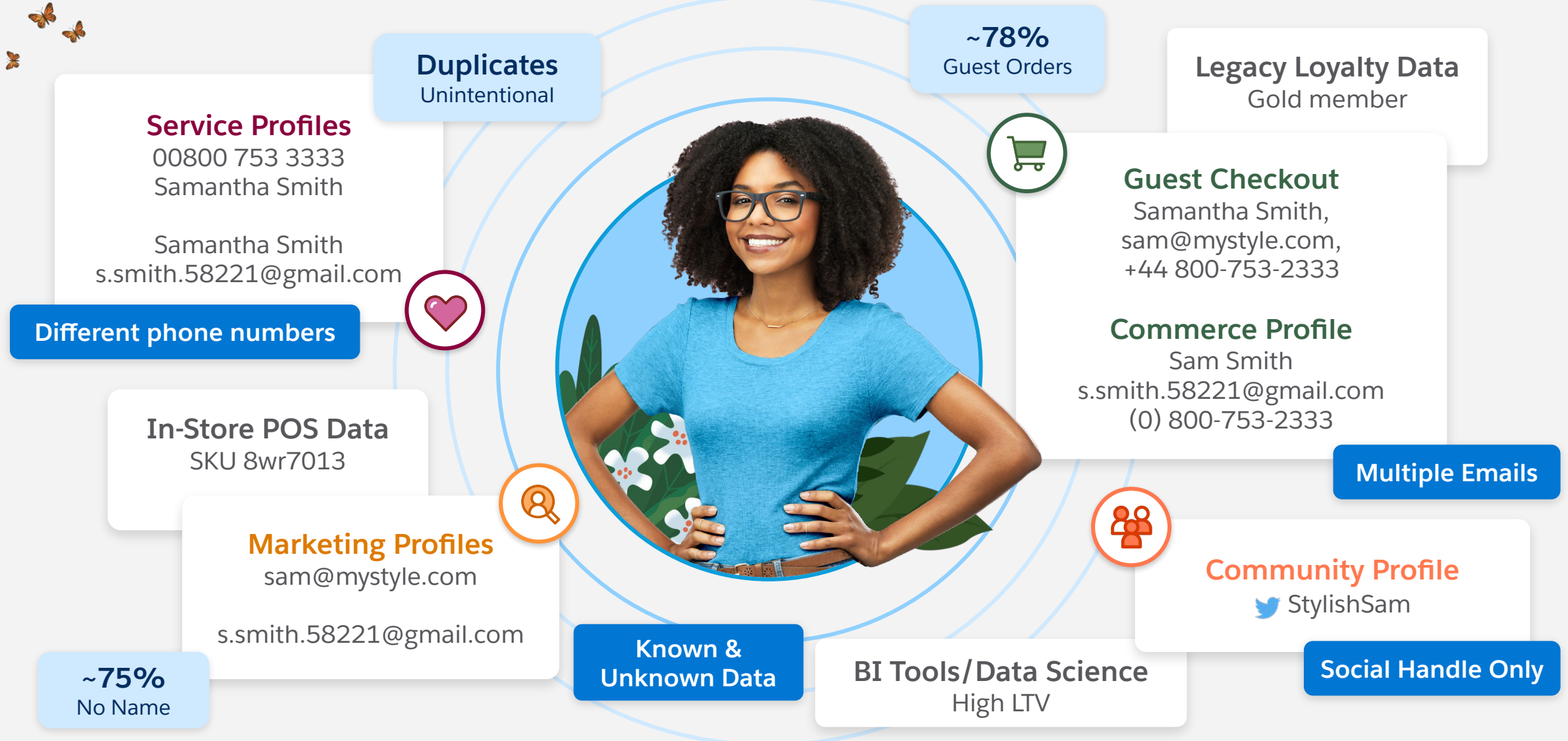
Workforce crisis



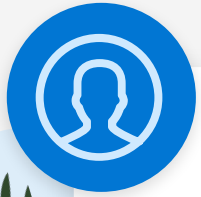
Your Customers

**30%**  
of customers  
actually agree

# Most Brands Struggle to Create a Single Source of Truth



# With Today's Digital-First Customer, Every Moment Counts



**84%** of customers say that being treated like a person, not a number, is very important to winning their business



Digital-First Customer



Digital Leader

**34%** of companies treat customers as unique individuals



# Salesforce Marketing Cloud Overview

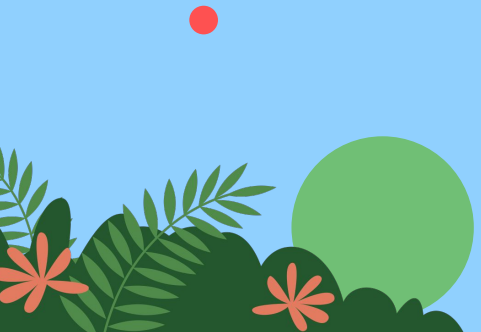






**DANILO**

# The Salesforce Customer 360 Platform



# Salesforce Customer 360



Real-Time	Streams	Segments	Activations
Intelligent	Personalization	Bots	Predictions
Automated	Workflow	RPA	Integration
Hyperforce	Compliance	Data Residency	Privacy

# Some of the Italian Customers

JACOBACCI  
PARTNERS



Super Solar



L'espresso



Rai Pubblicità



FONTANA GRUPPO  
SPECIAL FASTENERS

sky



Openjobmetis



MediaWorld



FREEDA

eudaimon

parah

PINKO

enel

TIM

pixartprinting

CheBanca!

GRUPPO 24 ORE

La cultura dei fatti

GESSI

INTESA



SANPAOLO

istitutomarangoni  
the school of fashion, art & design



MEDIASET  
PREMIUM

e.on

OCTO

CANDY



ENGIE

Cerved Group

talentia  
Software

YOUGO

Bambino Gesù  
OSPEDALE PEDIATRICO



Alitalia

BRUNELLO  
CUCINELLI



THE DEDICA ANTHOLOGY

CREDIMI

Prysmian  
Group

ptb  
advertising

moneyfarm

Teads

IG  
Italgas

FRATELLI  
Carli  
- DAL 1911 -



Azienda Provinciale  
per i Servizi Sanitari  
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ETHOS

subito

CIR  
food  
COOPERATIVA ITALIANA DI RISTORAZIONE

PerDormire  
MATERASSI - LETTI - POLTRONE

Miroglio FASHION

homepal  
Il tuo amico per trovare casa. Finalmente.

nicolaus  
TOUR OPERATOR

BANCA  
PROGETTO

Findus

ETAO



FEDEGARI  
GROUP

PUPA  
MILANO

FCA  
FIAT CHRYSLER AUTOMOBILES

Allini  
GROUP  
WWW.ALBINIGROUP.COM

RINASCENTE

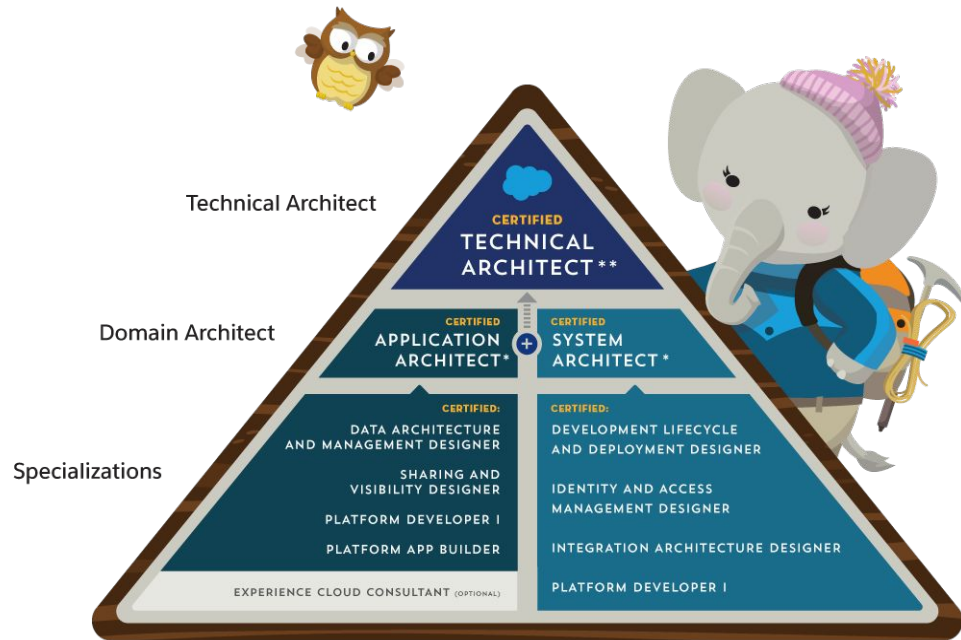
AON

# Blaze your Trail in your Career

## Salesforce Certified Architect Journeys



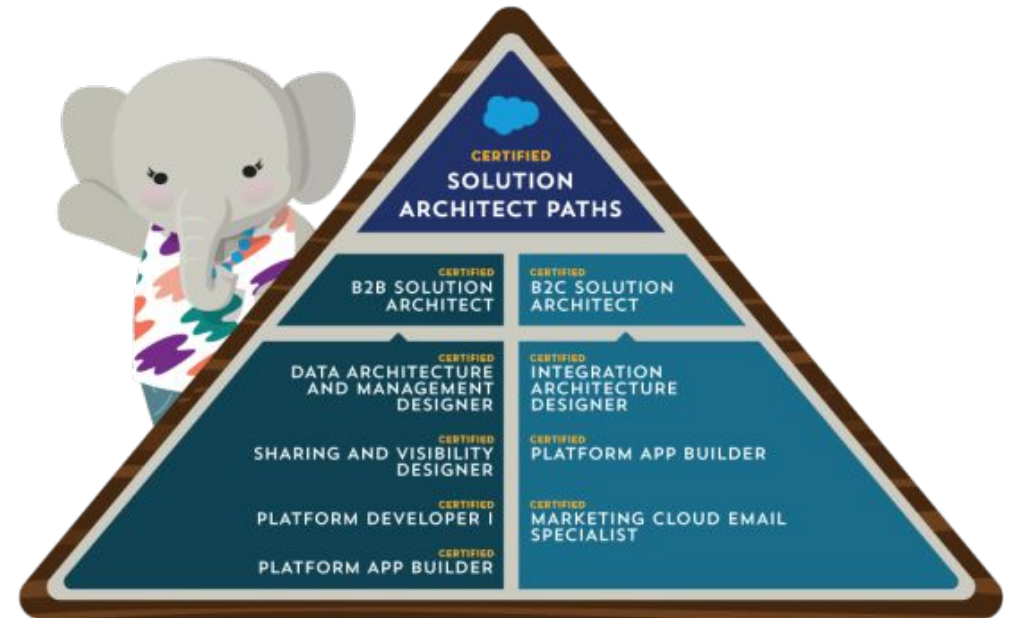
### Technical Architect



Related Certification: Certified Administrator (optional)

\* Credential earned upon completion of exams within the specializations tier, no additional exam requirements.  
 \*\* Credential earned upon successful completion of the Domain Architect tier and Review Board.

### Solution Architect



\*Prerequisite certifications can be earned in any order



# Today's goals



## Get to know Salesforce

What do we do? Why?  
Technology advantage



## Professional opportunity

One of the most in  
demand skills in the IT  
industry

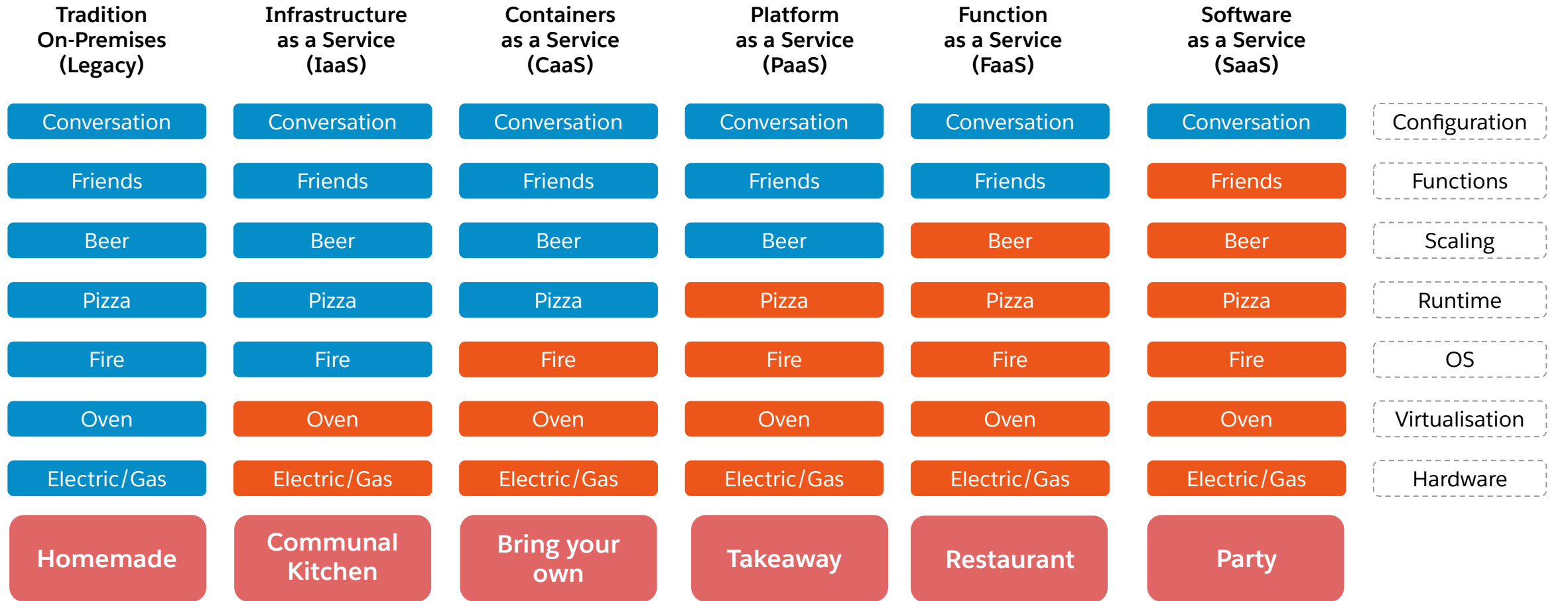


## Transformation Architecture

A sneak peek into Salesforce  
approach to Technical  
Architecture



# Pizza as a Service



■ You Manage
 ■ Vendor Manages

# How do we design an Architectural Diagram?

## Documentation & Implementation Diagram Style

### **Purpose:**

Help viewers understand an implementation or product-related technical detail.

### **Audience:**

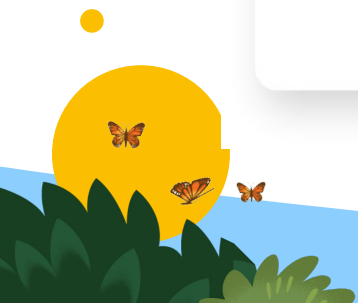
Delivery Teams, Technical Stakeholders

### What this style **can** show:

- How do we build [x] capability or solution?
- How does [y] product work with [x] products?
- What are the details of [y] product or implementation?
- What work was done to build [x]?

### What this style **cannot** show:

- A business capability focused view
- Business value / ROI of products or solutions



# How do we design an Architectural Diagram?

## Marketing, Strategy & Sales Diagram Style

### **Purpose:**

Help viewers understand concepts or processes, or a vision for a solution.

### **Audience:**

Business & Executive Stakeholders, Technical Influencers

### What this style **can** show:

- What is the big picture?
- Why are we doing this?
- Why would we do this?
- What is the business value of products or solutions?

### What this style **cannot** show:

- An implementation ready view
- Technical specifications
- Product documentation

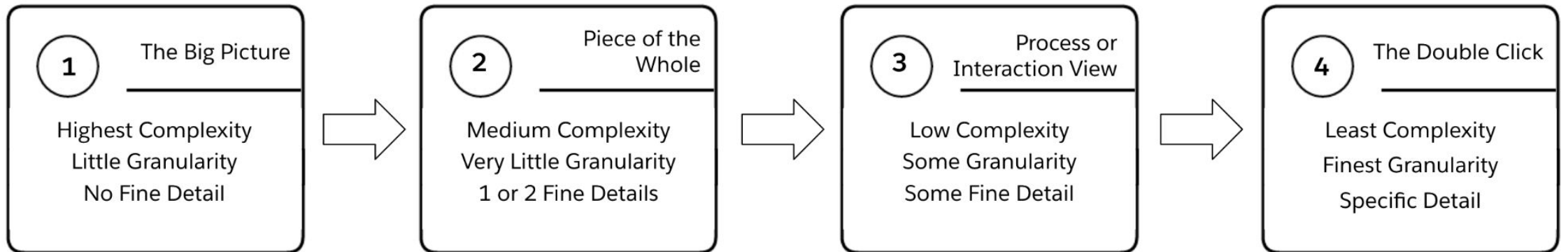




# How much should I detail the diagram?



## Diagram Levels



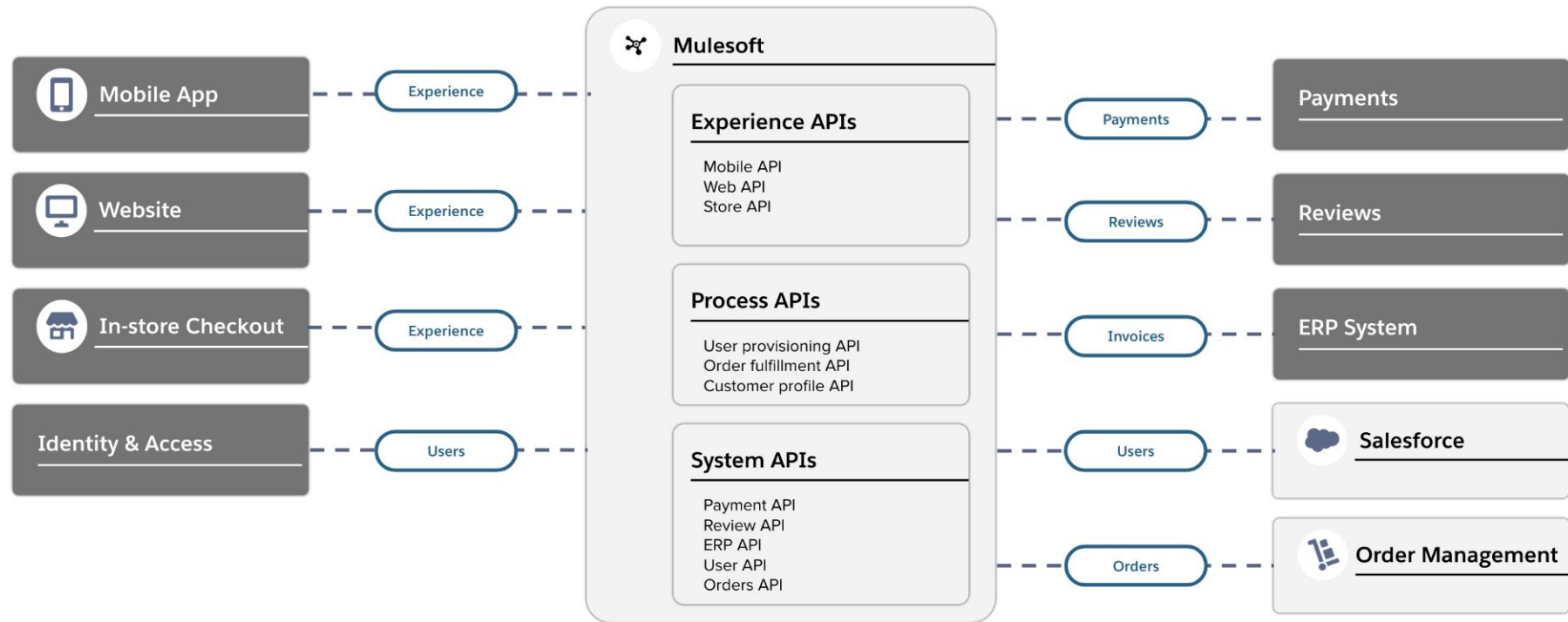
# Level 2: Piece of the Whole



Your Logo Here

## Integration Layer Diagram

This Level 2 diagram example shows the integration layer with the products and technologies directly involved in this layer. We also see more details about integration behavior and key functionality.



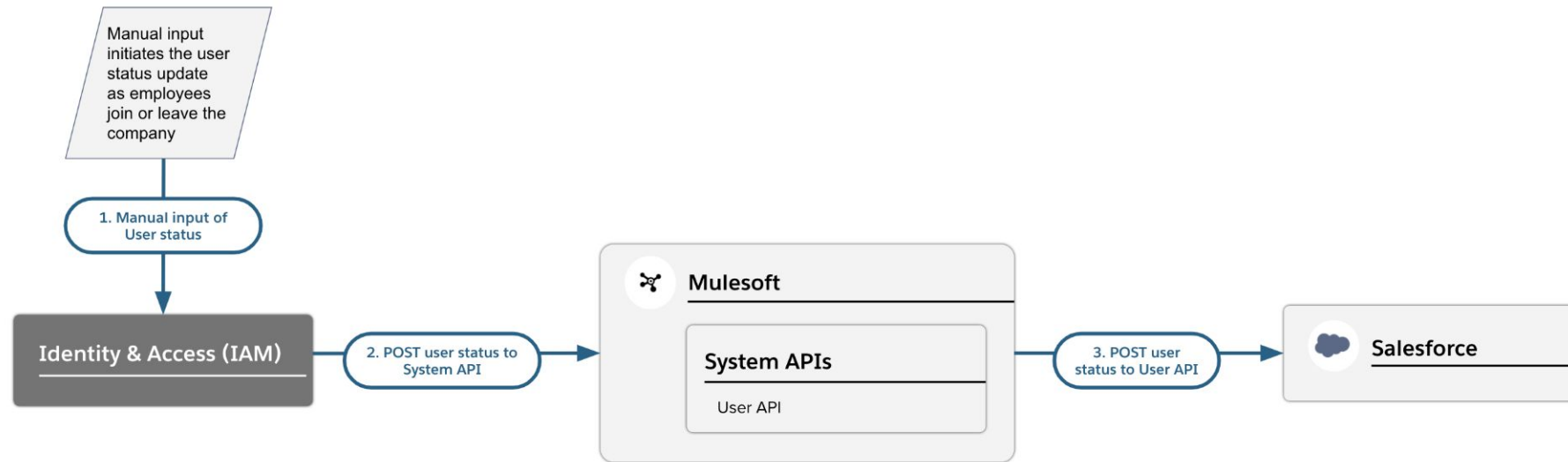
# Level 3: Process or Interaction View



Your Logo Here

## User Provisioning & Deprovisioning Flow

This Level 3 diagram shows a user provisioning and deprovisioning flow. Only products or technology directly involved in the process appear, along with greater detail about the order of the steps and behavior of the flow.



# Level 4: The Double Click

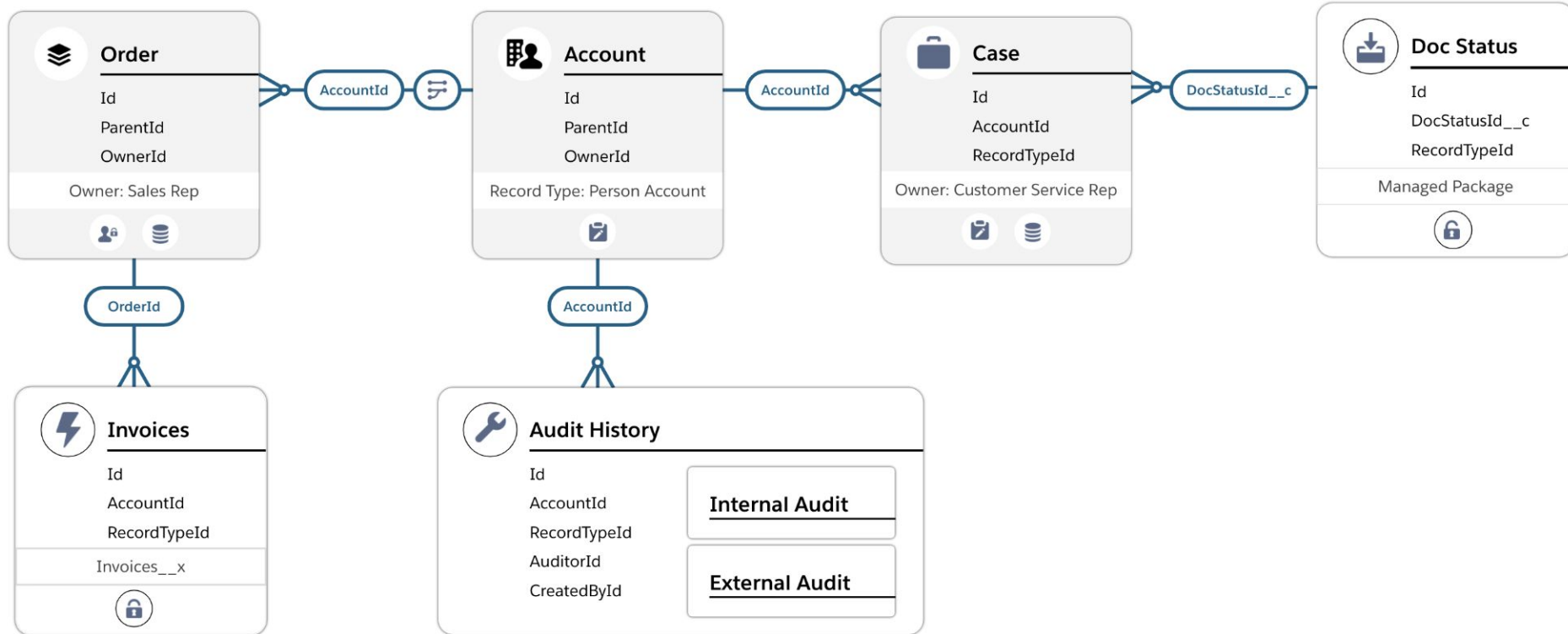


Your Logo Here

## Data Model

This Level 4 diagram shows part of the data model involved in the solution. Only information that is important for understanding a data model is presented: Salesforce provided defaults, notable limits, relationship details, etc.

- External Object
- Custom Object
- Private
- Public Read/Write
- Large Data Volume
- Standard Object
- Package Object
- Public Read Only
- Controlled by Parent
- Data Skew



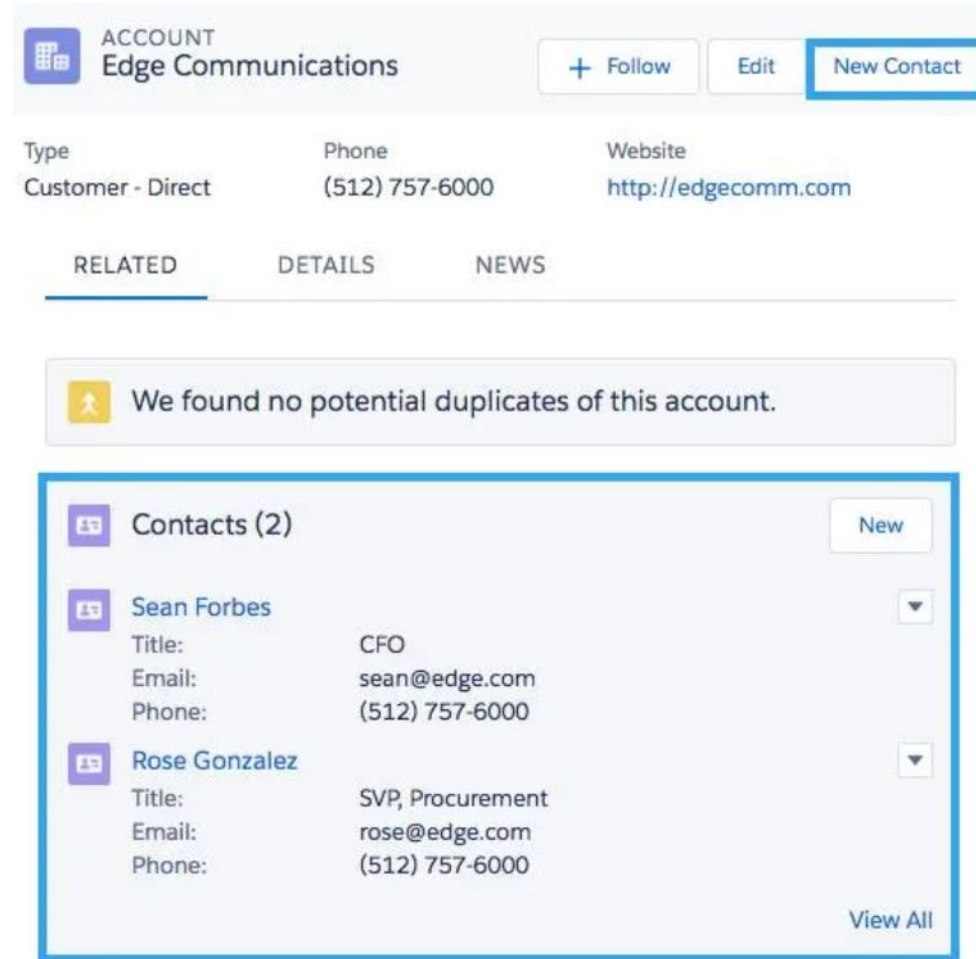


# Data Model: What is it?

## How can relationships change user experience?

When you look at an account record in Salesforce, you can see that there's a section for contacts on the **Related** tab.

You can also see that there's a button that lets you quickly add a contact to an account.



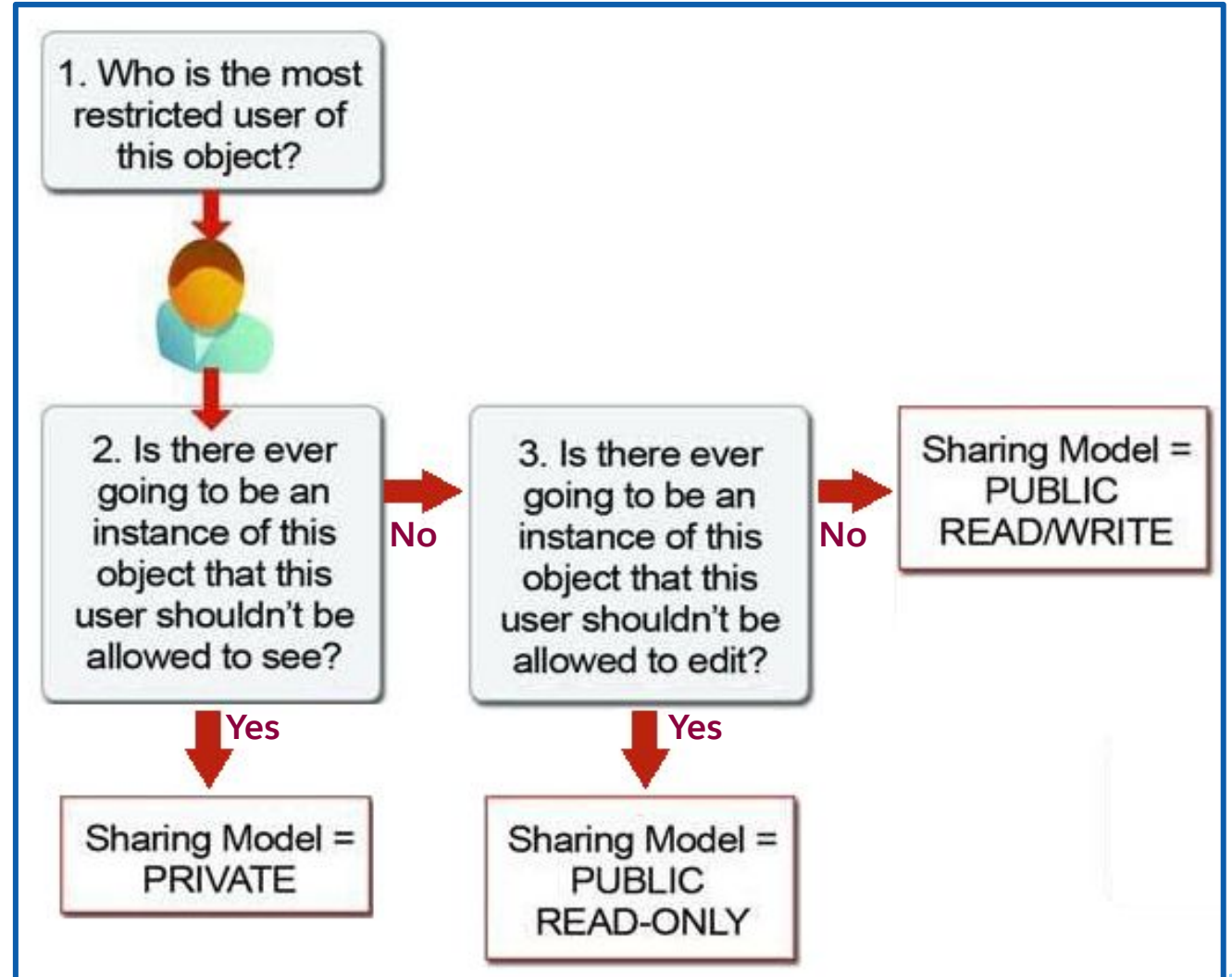
The screenshot displays the Salesforce interface for an Account record. At the top, the account name is "ACCOUNT Edge Communications". To the right of the name are three buttons: "+ Follow", "Edit", and "New Contact". Below the name, there are three fields: "Type" (Customer - Direct), "Phone" ((512) 757-6000), and "Website" (http://edgecomm.com). Below these fields are three tabs: "RELATED", "DETAILS", and "NEWS". The "RELATED" tab is selected. Below the tabs, there is a message box that says "We found no potential duplicates of this account." Below the message box, there is a section titled "Contacts (2)" with a "New" button. This section contains two contact records: Sean Forbes (Title: CFO, Email: sean@edge.com, Phone: (512) 757-6000) and Rose Gonzalez (Title: SVP, Procurement, Email: rose@edge.com, Phone: (512) 757-6000). At the bottom right of the contacts section, there is a "View All" link.

# Data Visibility & Security: How To



How I can determine the org-wide defaults customer needs?

Ask yourself these questions about each object.

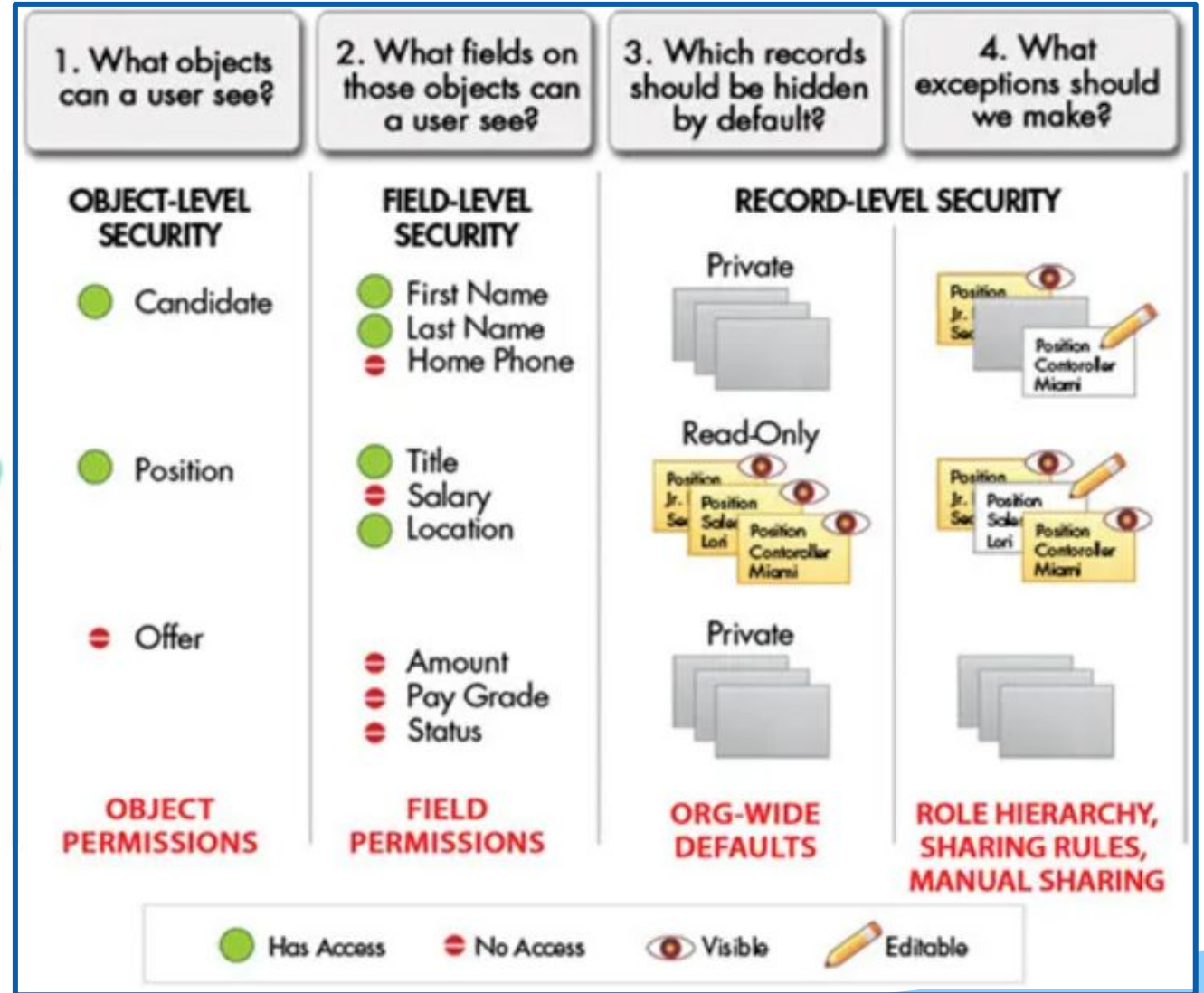


# Data Visibility & Security: How To



How I can set up my users security model?

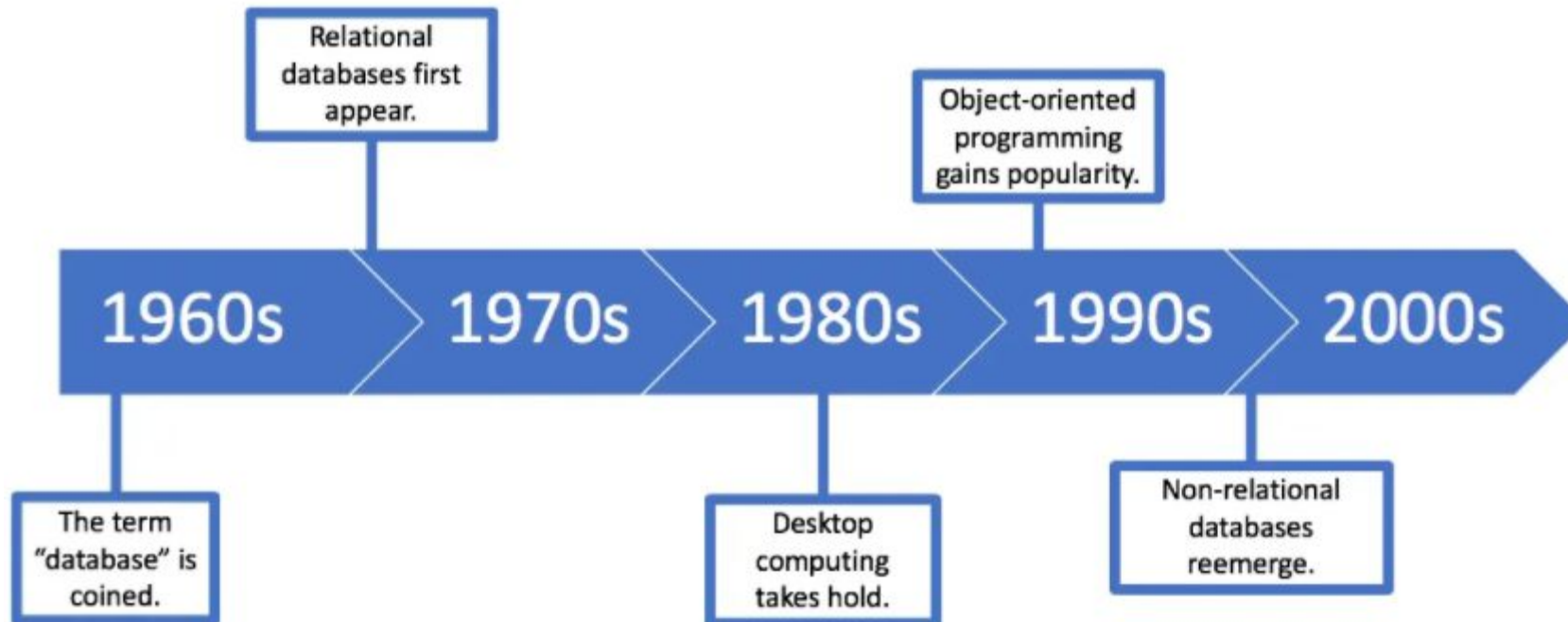
Make a table of the various types of users in your organization.



# Strategies for Big Data Architecture

How is all this data organized and accessed?

“It’s in the cloud.” This is something we hear all the time. Of course any images it conjures of vapor and foggy mist are misleading because **the cloud is just a physical data center full of servers**. Salesforce has many of them, all over the world. But how is all this data organized and accessed? Well, **it all depends on the database**.



The term “database” emerged in the early **1960s**



# Strategies for Big Data Architecture



## Relational DB

Table A	
Primary Key	
a06U000000KvbWc	
a06U000000KxDiK	
a06U000000Kvm7L	

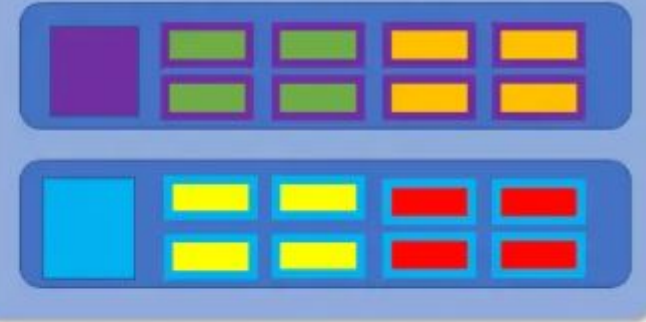
Table B	
Primary Key	Foreign Key
b01X000000WnbVc	a06U000000KvbWc
b01X000000WnBwE	a06U000000KxDiK
b01X000000WqIFy	a06U000000KxDiK
b01X000000WqvNd	a06U000000KxDiK
b01X000000WjhYO	a06U000000Kvm7L
b01X000000WkyUI	a06U000000Kvm7L

## Non-relational Databases

### Key-Value Pairs

Name Vijay  
Street 1 Main St.  
City New York

### Column Oriented Store



### Document

```
{  
  Username: "alanders"  
  Phone: {  
    Home: "555-456-1234"  
    Cell: "555-343-4312"  
  }  
}
```

### Graph



Each type of database suits different business requirements. When it comes to **huge volumes** of information, **non-relational** is the way to go

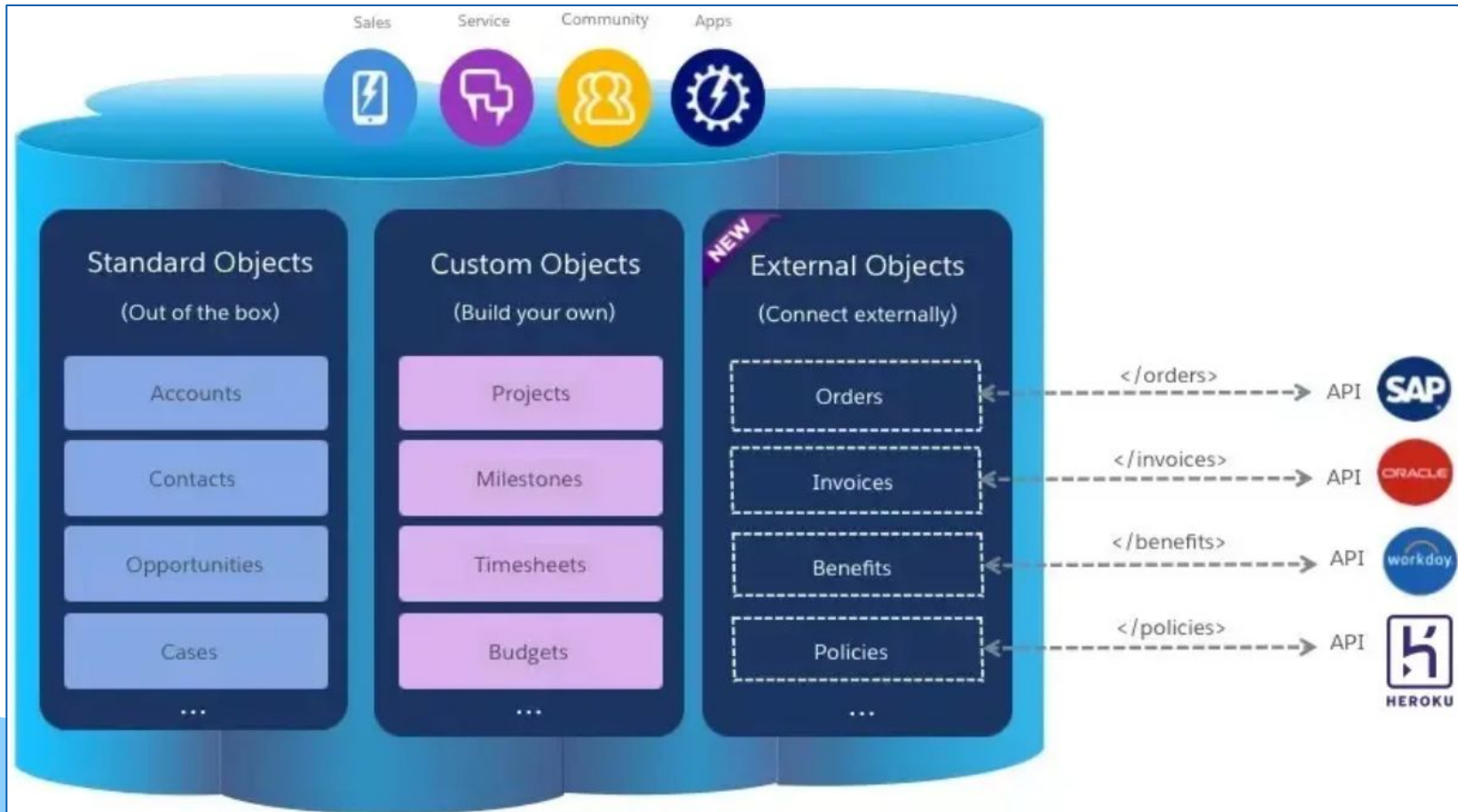


# Strategies for Big Data Architecture



Where the data lives? Which system is the master of data? Hello, External Objects

**External objects** are similar to custom objects, except that they **map to data that's stored outside your Salesforce org.**



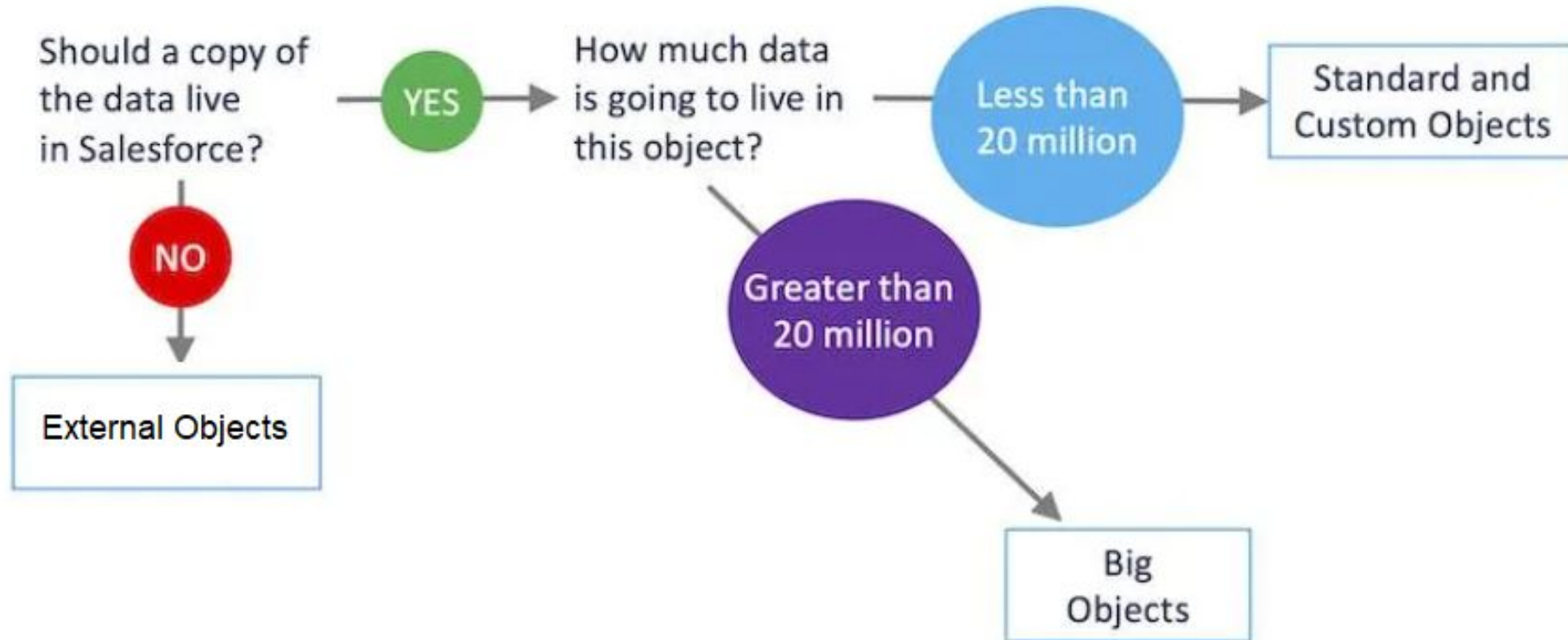
Data are stored in an external data source.

**Salesforce Connect** uses external data sources to access these external data.

# Strategies for Big Data Architecture



**Begin by asking a few questions:** Should a copy of the data live in Salesforce? How much data are we talking about—over 20 million records? Once you know these things you can start to weed out solutions that don't fit.



# Heroku: Platform as a Service

- What is this Heroku Platform thing?
- What can I do with it?

Heroku is a cloud **platform as a service (PaaS)**

Heroku is used to **build, deliver, monitor, and scale** applications

Heroku supports multiple **programming languages**



Node.js



Ruby



Java



PHP



Python



Go

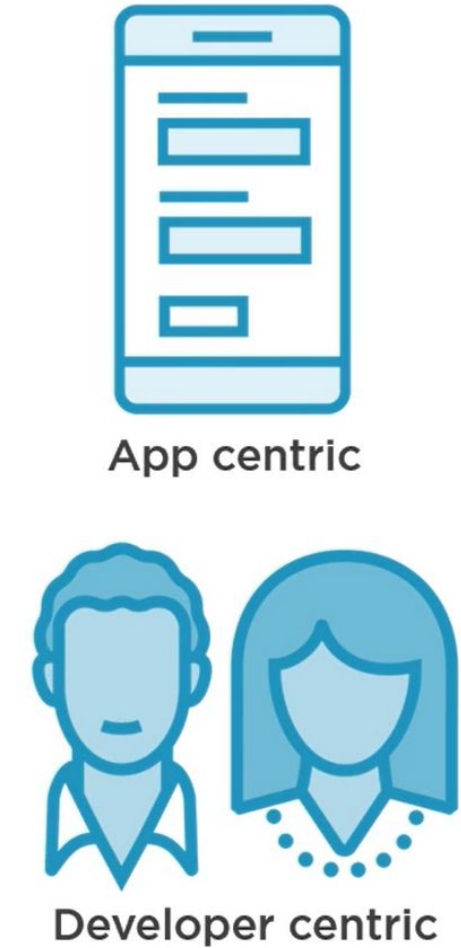
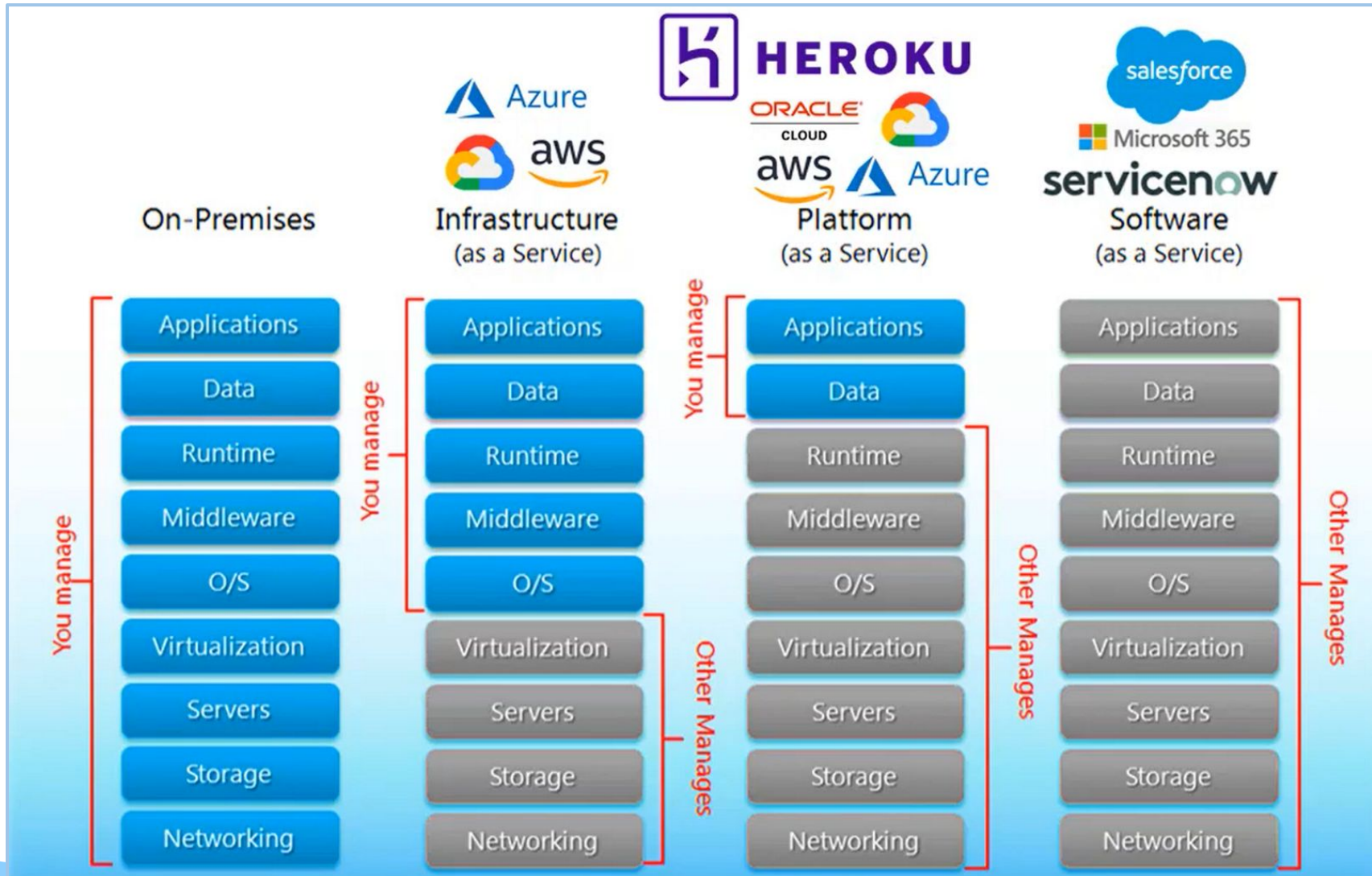


Scala



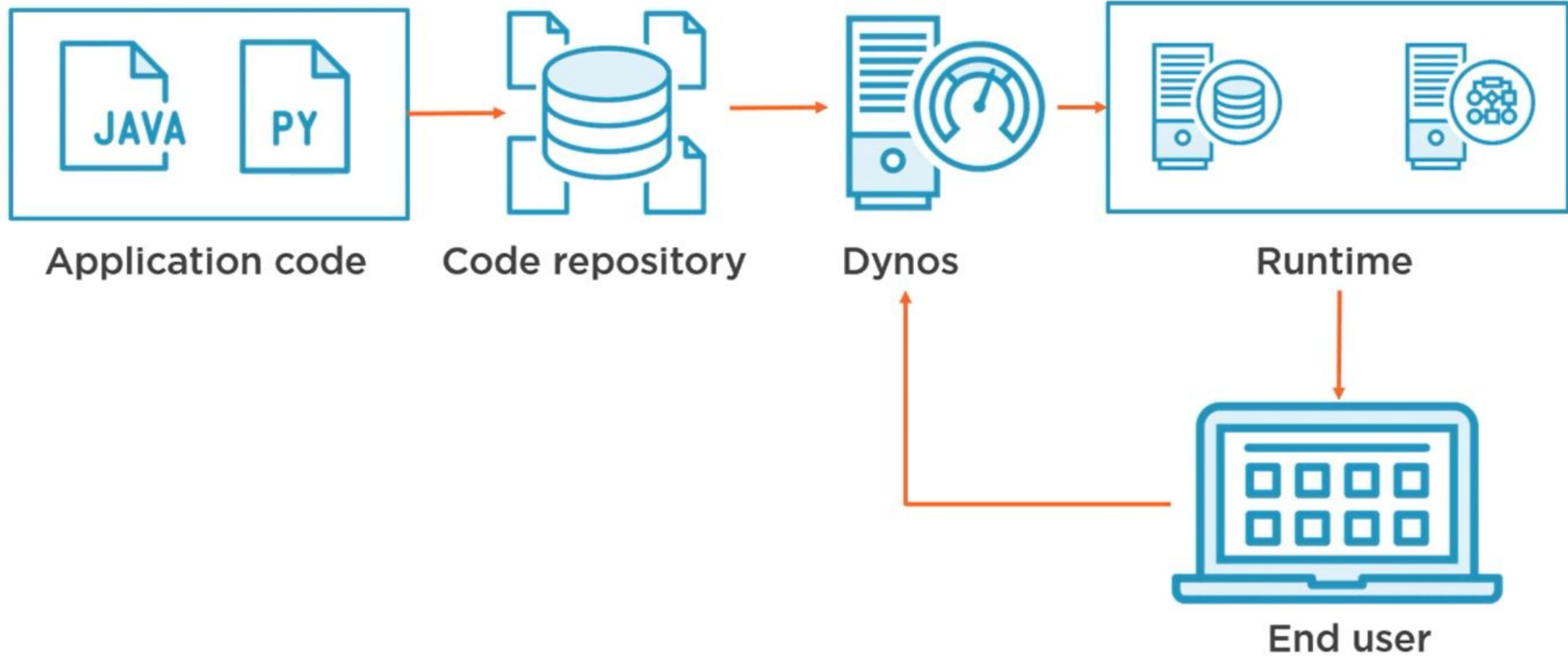
Clojure

# Heroku: Where does it fit in Cloud?





# Heroku: Web Application Architecture

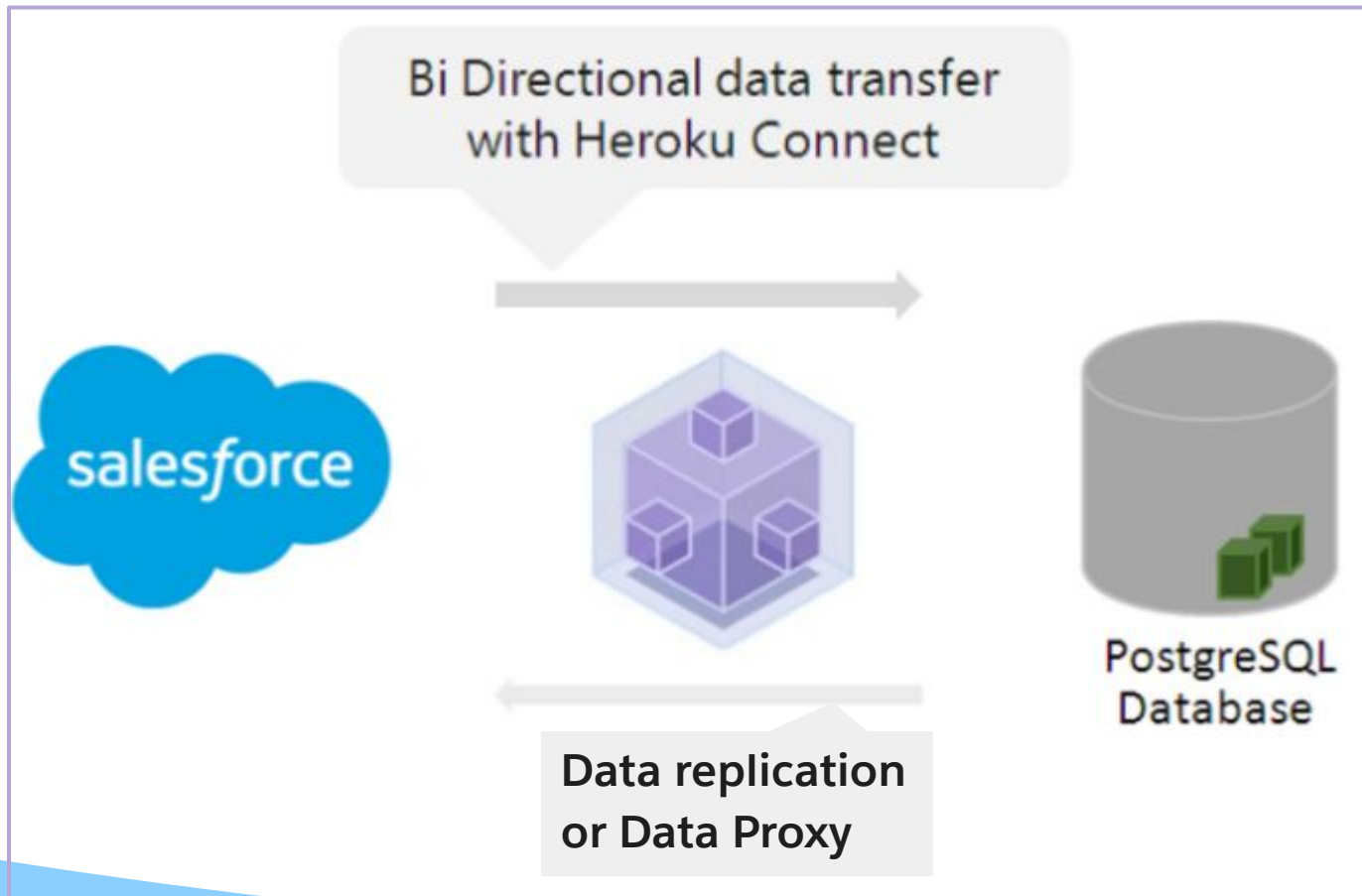




# Heroku: Integration with Salesforce



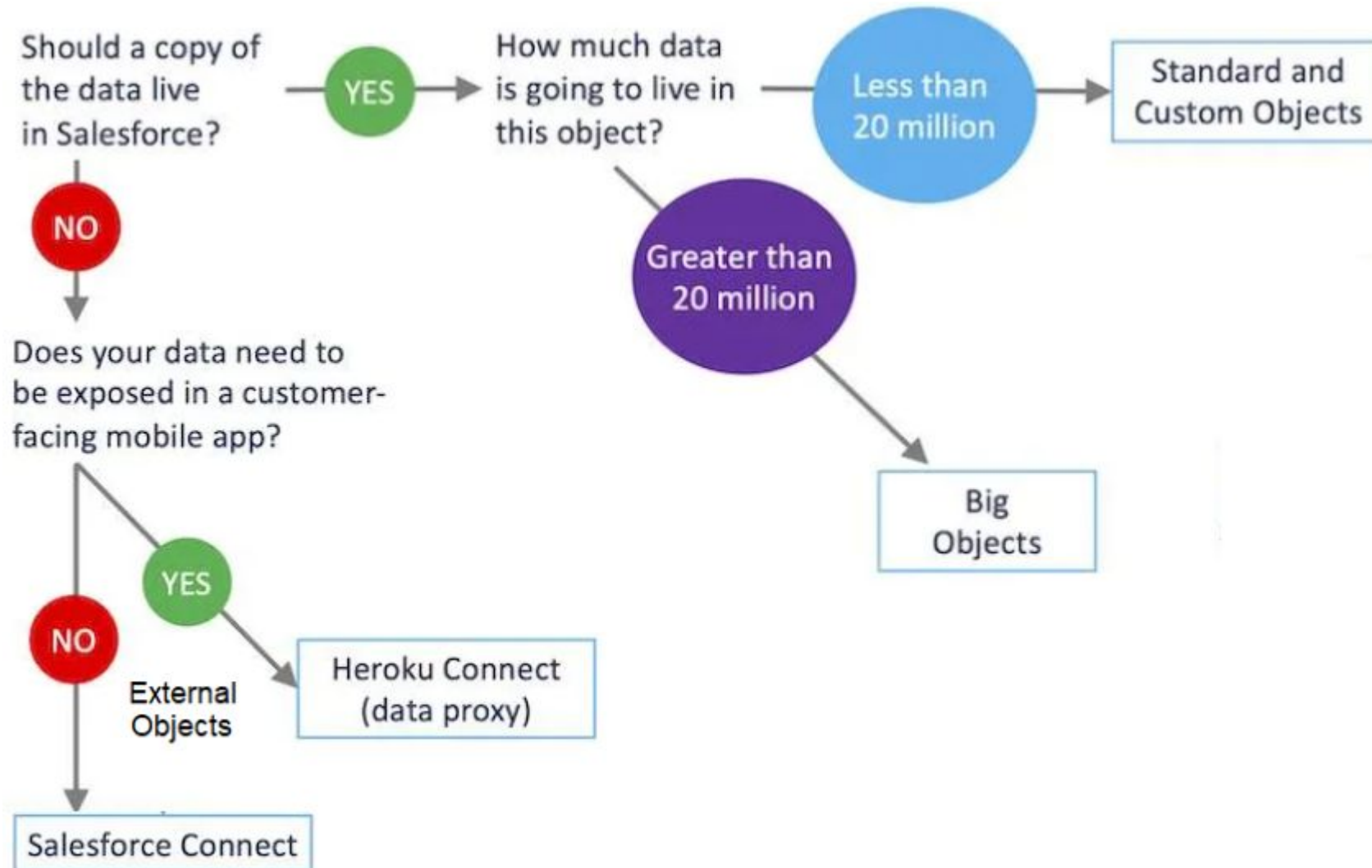
**Heroku Connect** is a service (add-on) that provide bi-directional data sync between SF and Heroku PostgreSQL DB.



## Use Cases:

- Consolidate **multiple data sources** into **PostgreSQL**. And make all this data available in SF
- PostgreSQL as **DWH**
- Build **customer facing apps** on Heroku, with read/update data in PostgreSQL
- **Empowering Mobile** and IoT via API Services

# Heroku: Another Choice for Big Data Architecture

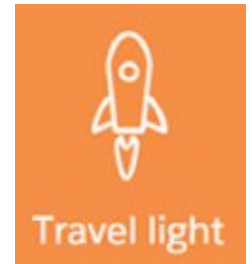


# CRM Data Strategy - Archiving



## Why do I need to move my data from Salesforce?

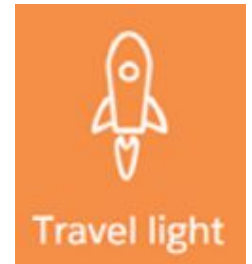
- Optimize data storage usage
- Reduce costs
- Consistent application performance
- Regulatory compliance



# CRM Data Strategy - Archiving Solutions

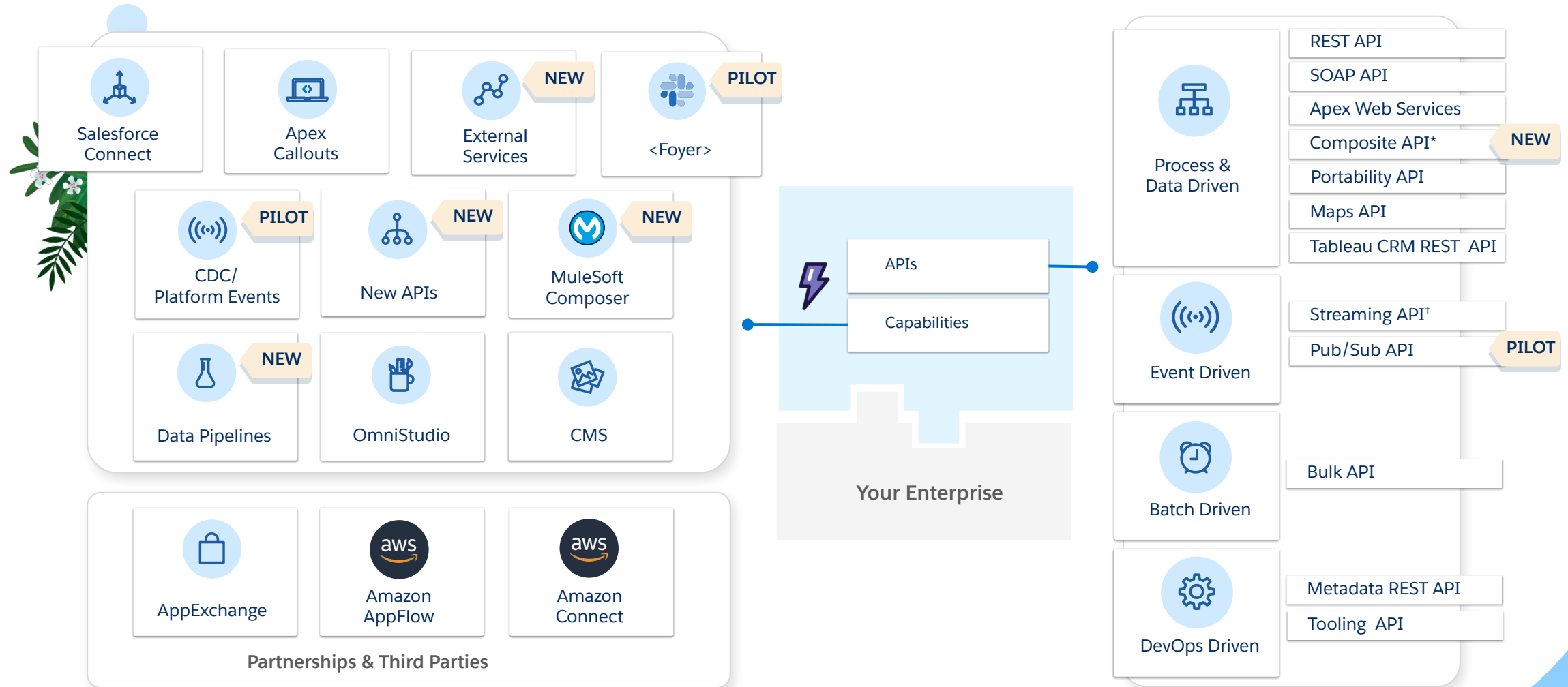
## How can I move my data from Salesforce?

- Data Extracts via Bulk API
- Big Object
- Heroku Based Solutions
- AppExchange Archiving Solutions
- Custom Solutions e.g. Data Lakes, DWH





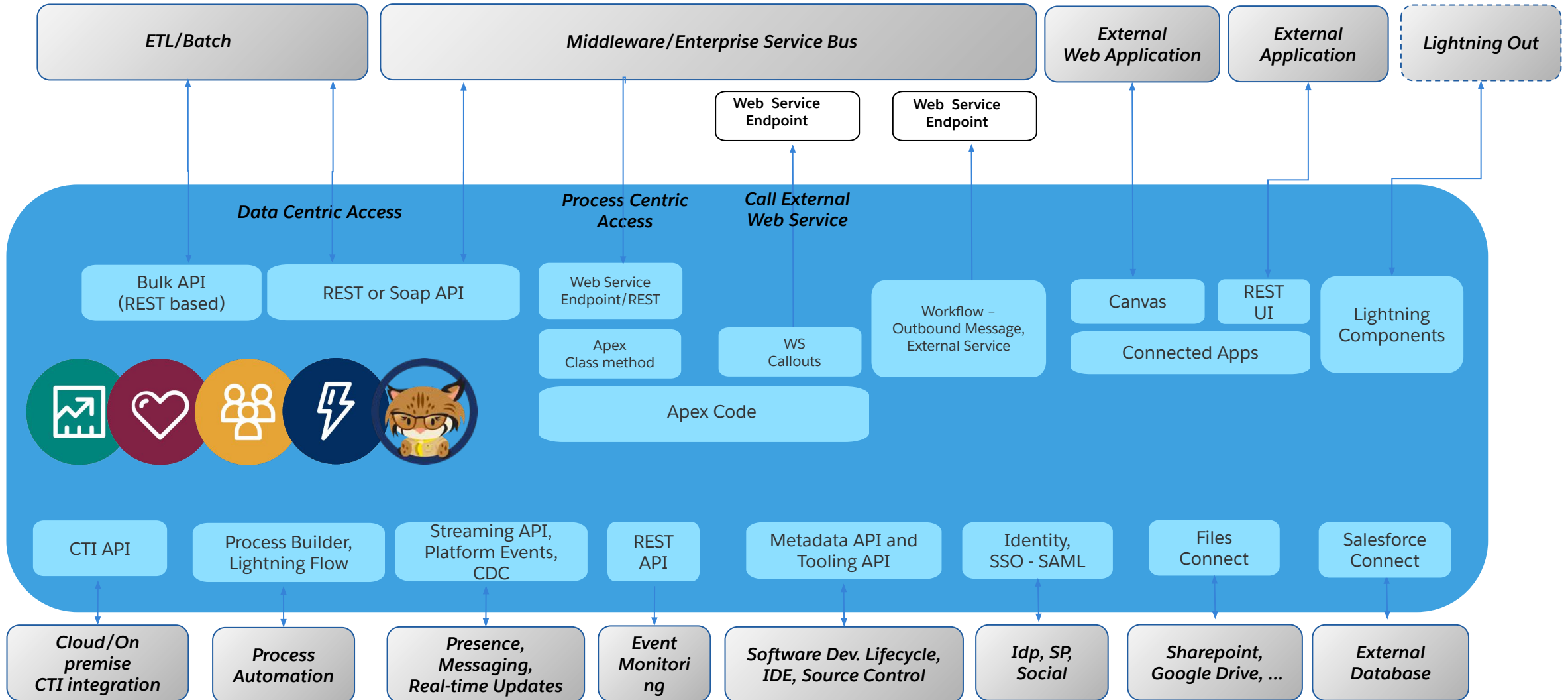
# Salesforce Core Integration Options



\*Composite resources include composite, batch, SObject tree, collections, graph (new - GA) and mass operations (new - Pilot)

†The Streaming API subscription mechanism supports multiple types of events, including PushTopic events, generic events, platform events, and Change Data Capture (CDC) events

# Salesforce Integration Options



# Cybersecurity

*“Cybercriminals are developing and boosting their attacks at an alarming pace, exploiting the fear and uncertainty caused by the unstable social and economic situation created by COVID-19.”*

Jürgen Stock, INTERPOL Secretary General



Distribution of the key COVID-19 inflicted cyberthreats based on member countries' feedback



Figure 2. What tactics are utilized? (Actions)

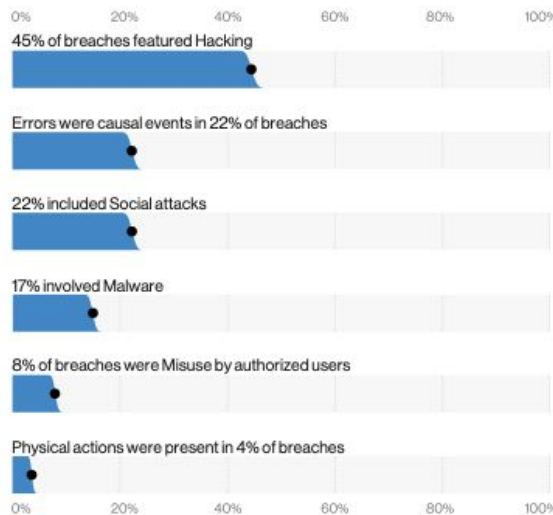


Figure 3. Who's behind the breaches?

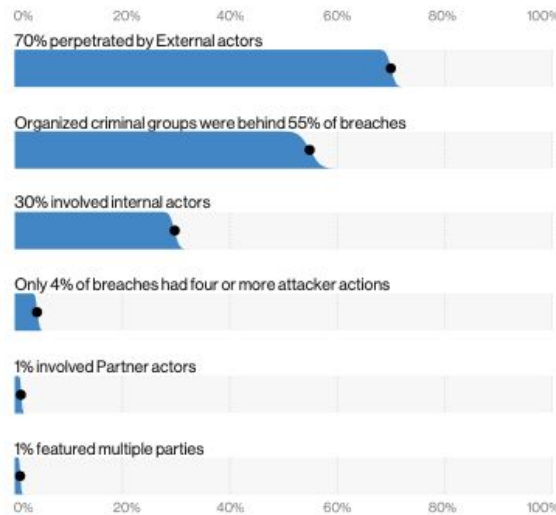


Figure 6. Select action varieties in breaches over time



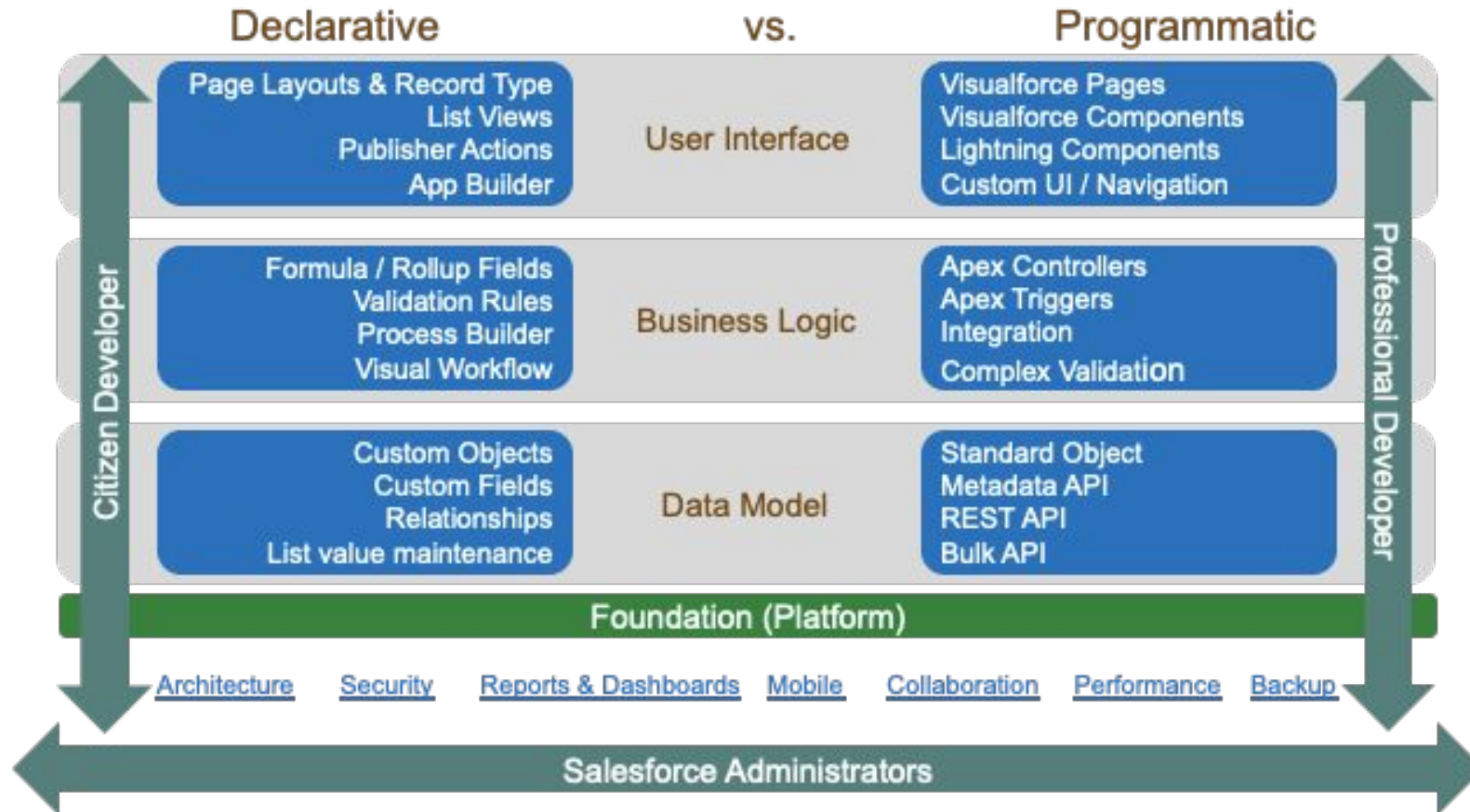
## Sources:

<https://www.interpol.int/en/News-and-Events/News/2020/INTERPOL-report-shows-alarming-rate-of-cyberattacks-during-COVID-19>

<https://enterprise.verizon.com/content/verizonenterprise/us/en/index/resources/reports/2020-data-breach-investigations-report.pdf>

# No code, low code, code

Several options for all types of users and application layers







# Programmatic Org-Based Development Model

Promote org changes utilizing IDE Extensions, CLI, and Source Control

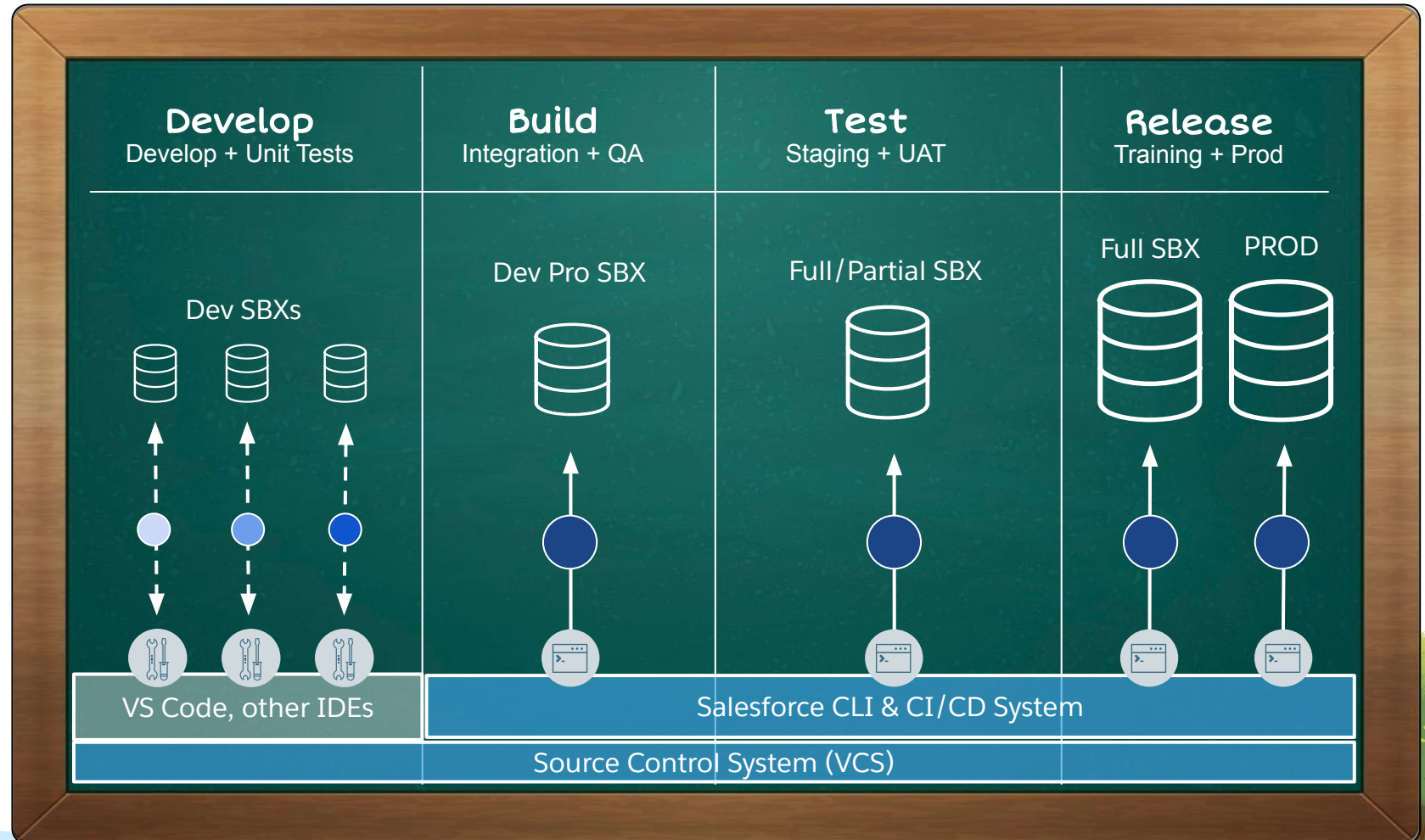
Unpackaged changes are tracked in each dev org. All changes are aggregated in source control and released via CLI

← source:deploy | source:retrieve  
mdapi:deploy | mdapi:retrieve  
source:push | source:pull (pilot) →

→ source:deploy | mdapi:deploy

● track changes from dev orgs

● aggregate changes to release





# Key Takeaways

Bringing modern ALM to your org

## Source-driven, API-first

Source-driven modern ALM; CLI commands for all operations; easy to setup CI / CD

## Dependency Management

Rich versioning and dependency management capabilities

## Organize Metadata in your Org

Modularize Metadata in your prod orgs with a set of well-defined packages

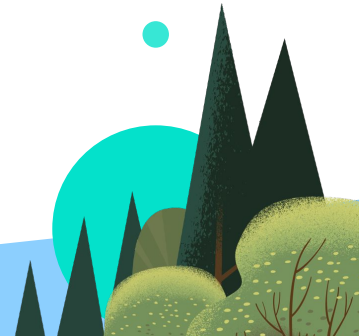


# Which process fits my needs?

## Decision drivers

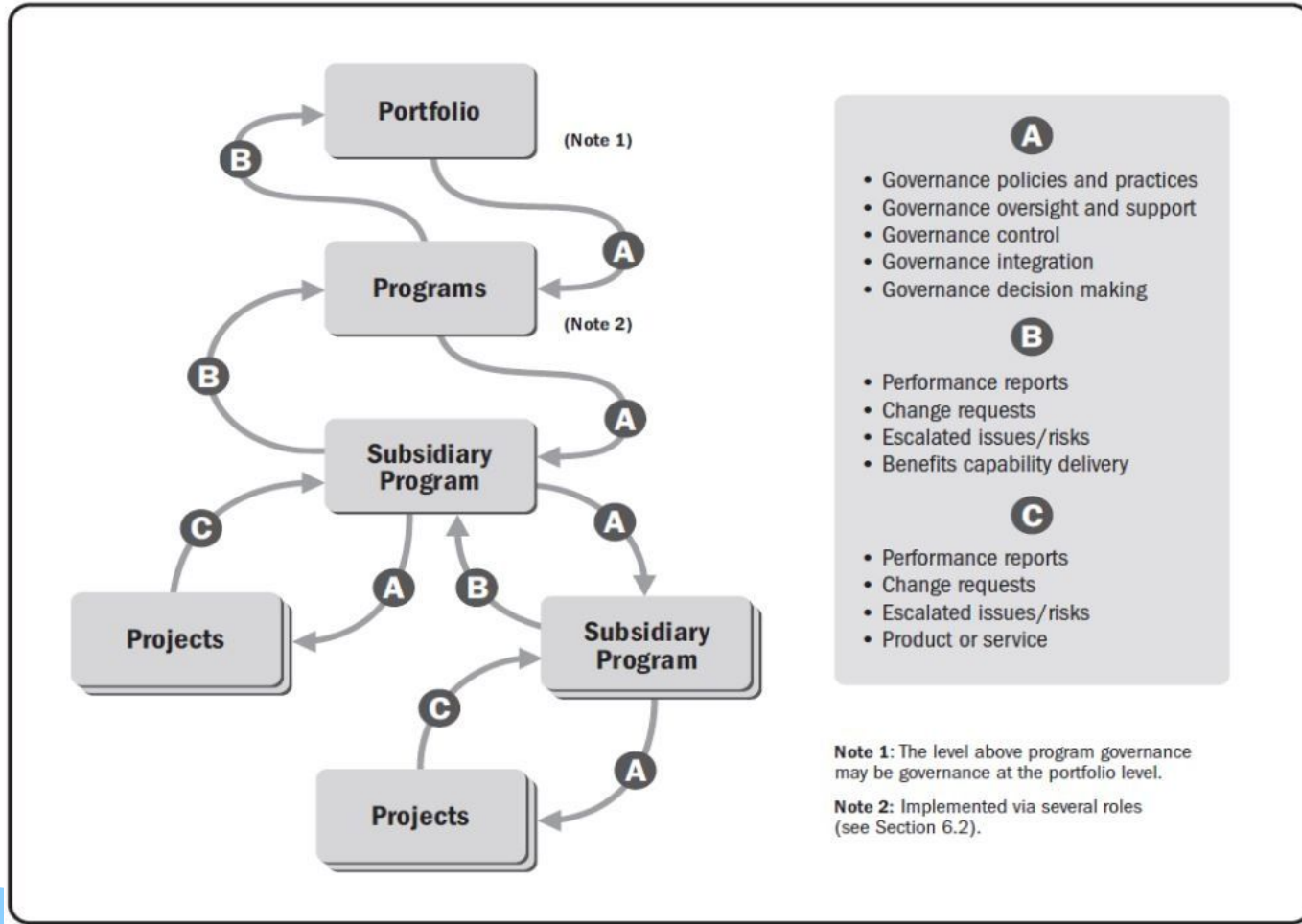
Drivers for packaging and DX based development process:

- Multiple production Orgs
- Multiple teams developing to a single production Org
  - If there is isolation of dev process for each group, the product of each team could be a package
  - If many teams work on the same thing, a package based approach may not necessarily provide improvements
- Many applications running on a single Org
- Parallel projects and need for flexible release schedules



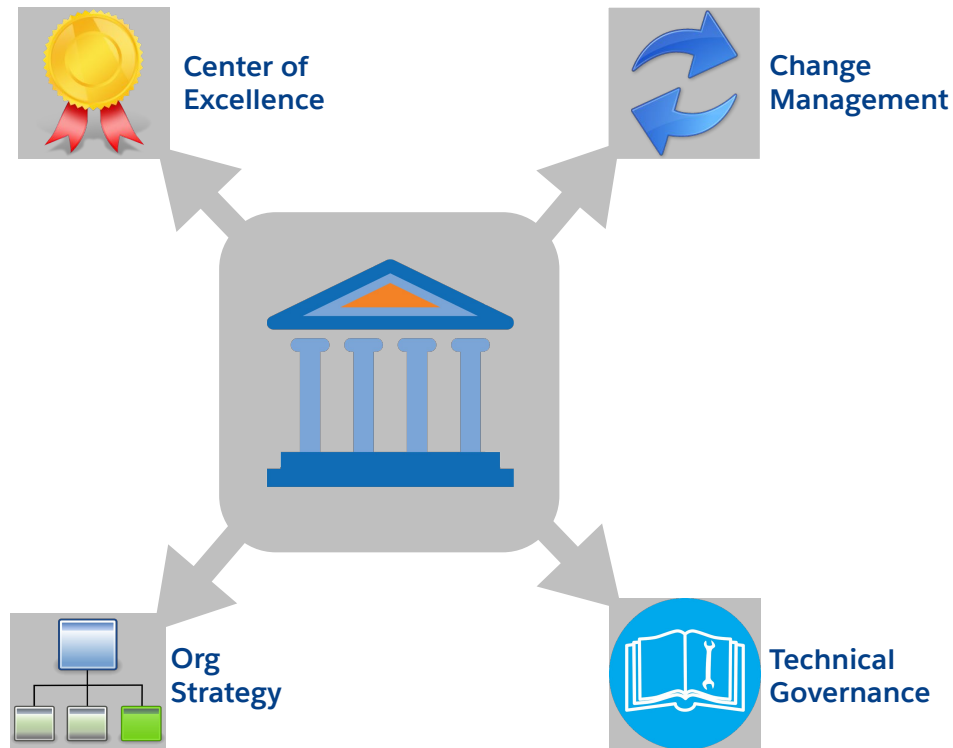
# Governance

Program Governance relationships with portfolio and program components (sub-programs, projects)



# Governance

## Key Elements of a Salesforce Governance Framework<sup>1</sup>



Within the Salesforce context, the components that comprise a governance program fall into four major categories:

- **Center of Excellence (CoE)<sup>2</sup>**  
The process of managing governance.
- **Change Management**  
The process of managing change within the overall program or project lifecycle – from collecting Business requirements through go-live in production.
- **Org Strategy**  
The design and structure of the foundational “orgs” or areas where the customer’s Salesforce applications will reside and run.
- **Technical Governance**  
The guiding principles for effectively developing the technical aspects of Salesforce.

<sup>1</sup> The Salesforce Governance framework embraces the core principles of key industry frameworks such as COBIT5 and ITIL .

<sup>2</sup> Many Salesforce customers rebrand their CoE using terms including "Network of Excellence", "Center of Innovation, etc.

# Architecture Review Board



## Key roles and responsibilities

Domain	Role/Responsibility
Decision Making	<ul style="list-style-type: none"><li>• Establish architecture roadmaps</li><li>• Establish architectural and design principles and best practices</li><li>• Evaluate solution designs per best practices; if design is rejected provide recommendations for improvement</li><li>• Solicit and consider input from other governing bodies during decision making process</li><li>• Document rationale for decision in meeting minutes or other documentation</li><li>• Provide input to decisions made by other governing bodies</li></ul>
Escalation	<ul style="list-style-type: none"><li>• Escalate decisions beyond their authority to CIO or Executive Team (ET)</li><li>• Recommend a course of action and provide supporting analyses (when decision is escalated to another body)</li></ul>
Communication	<ul style="list-style-type: none"><li>• Communicate decisions to CIO and other key stakeholders in accordance with communications plan</li><li>• Keep CIO informed of major IT architecture decisions</li></ul>
Ongoing Activities	<ul style="list-style-type: none"><li>• Create architecture strategy and roadmap</li><li>• Define architecture principles and best practices</li><li>• Identification of innovation in IT that can help the business (e.g., new technologies)</li></ul>
Ad-Hoc Activities	<ul style="list-style-type: none"><li>• Create temporary teams to address specific tasks</li></ul>