

#### Tech Talk Series PowerCenter Users: Architect Your Future to the Cloud

#### Session 1 of 4:

How to Overcome Cloud Challenges with a Cloud Native Solution

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## Top of Mind



Modernize & Standardize Integration

On average an organization deploys 4-6 integration tools serving different integration patterns



Productivity for ALL Users

Citizen Integrators, Low Code/No-Code, Al-Powered Automation



## Vendor Neutrality & Scale

Integration is sticky & leads to vendor lock in. Don't let your integration platform dictate your future architecture

#### Microservices-based

**API driven** 

Multi-tenant

#### Multi-cloud

"Integration is the backbone of your architecture and should act as an enabler of digital transformation"

Cloud-Native Data Management Critical for your Warehouse, Lake -- Challenges Persist



of organizations using cloud data management will encounter budget overruns resulting in their questioning the value of using cloud services 50% year-over-year growth in the number of open data engineering positions

**Resource Constraints** 



of organizations are still struggling to operationalize AI within their enterprise



#### Problem #1: Cost Overruns

# 80%

## of organizations **overshoot** their cloud budgets due to **ineffective cloud cost management**

Source: Cloud Cost Management, LLC

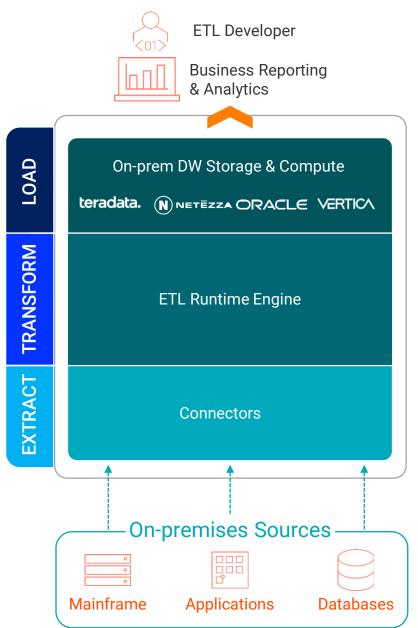


#### What we hear from customers:

- Difficulty managing compute costs
- Lack of control of users and usage
- Easy access to add more compute
- Increasing data transfer costs

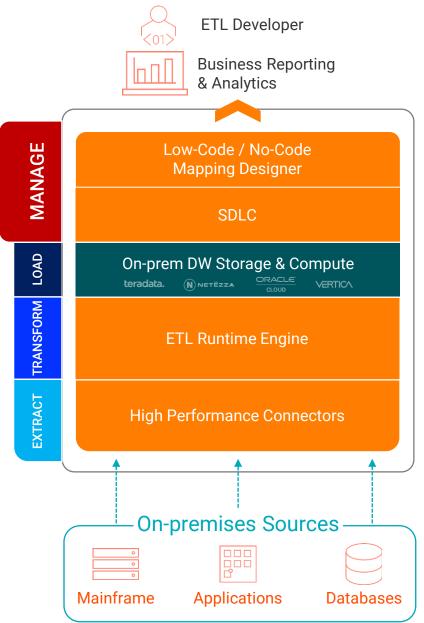
The solution: Optimization Engine Intelligent Cost Controls Consumption-based Pricing

### Old World Traditional ETL for Star Schema

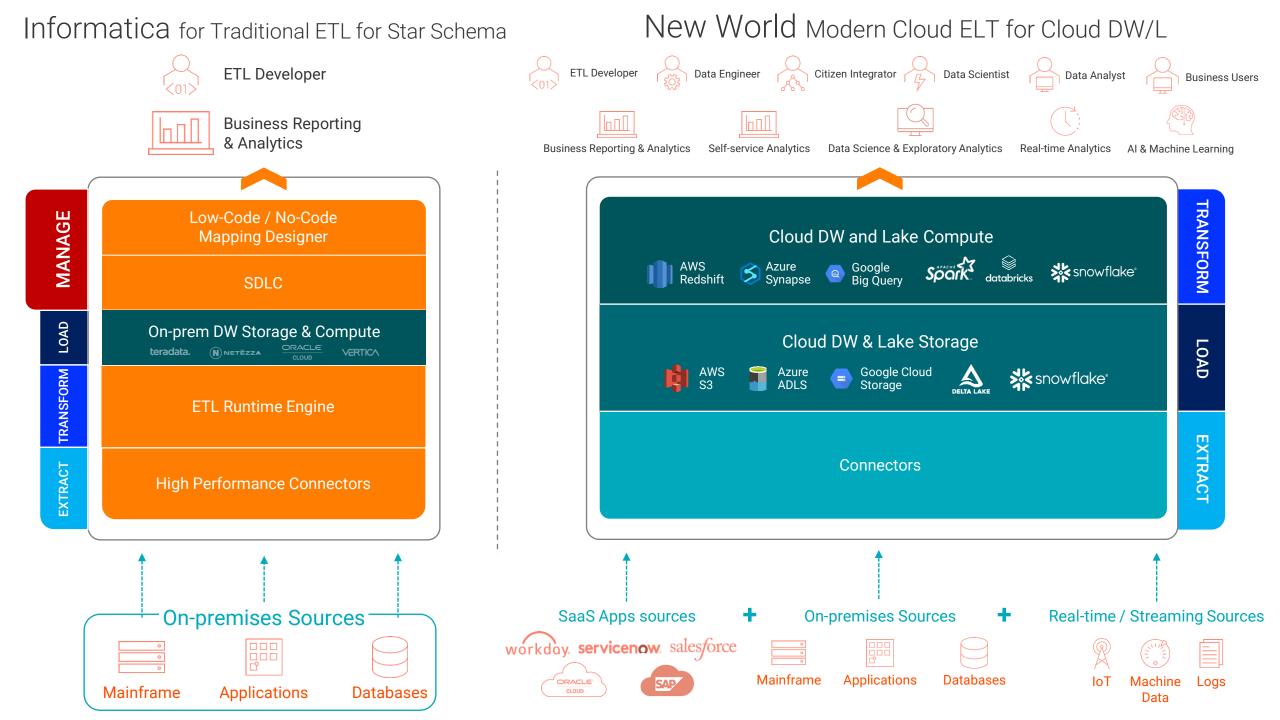


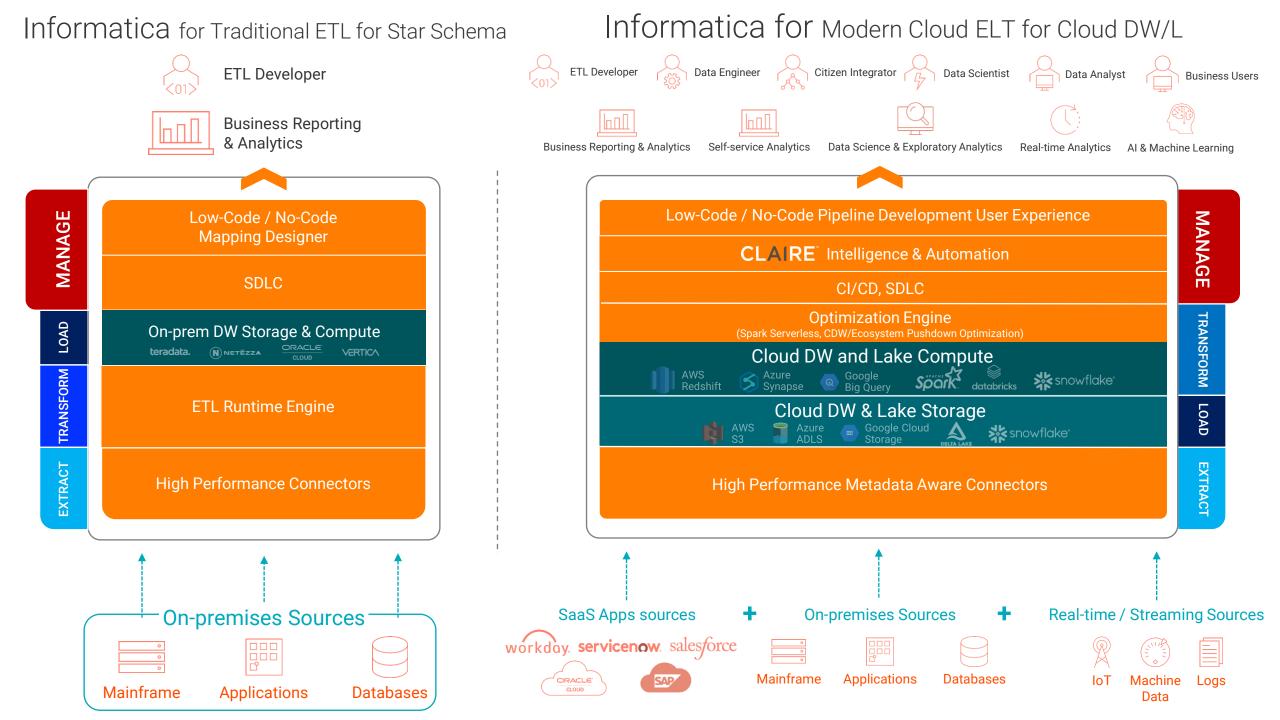


#### Informatica for Traditional ETL for Star Schema









## Use Our Optimization Engine to Control Cost Overruns



#### Data Transfer Costs

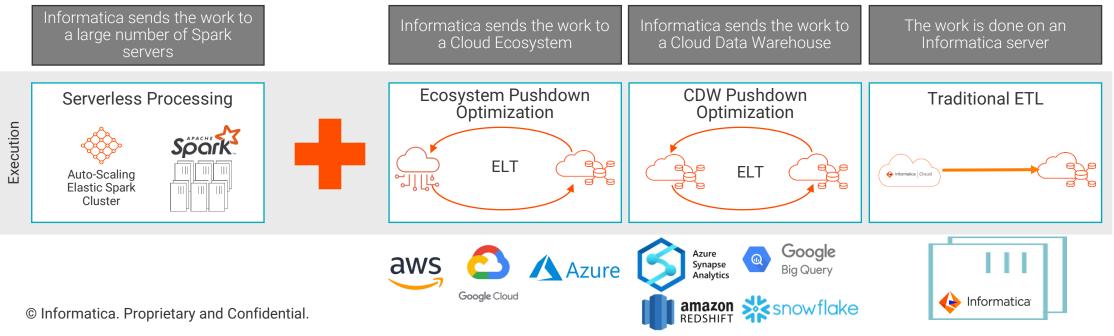
Costs associated with getting data in and out of CDW's or public Clouds

#### Compute Hours

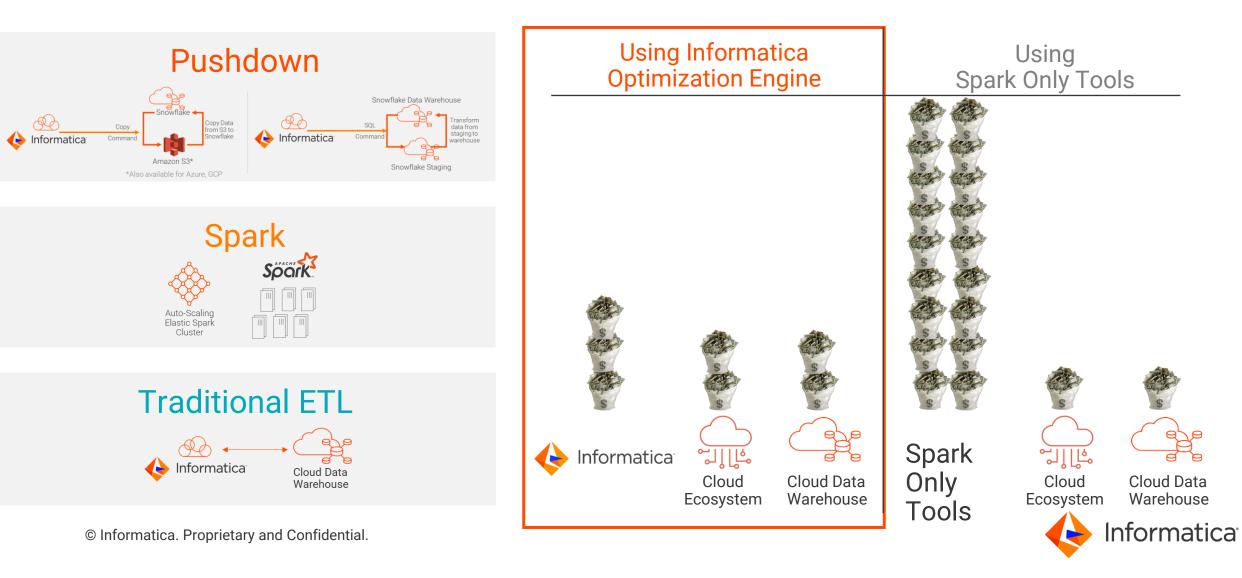
Costs associated with the number of servers and amount of time the servers are used

#### Most cloud data integration uses Spark

#### Informatica offers FASTER Spark and More Cost-Efficient Processing



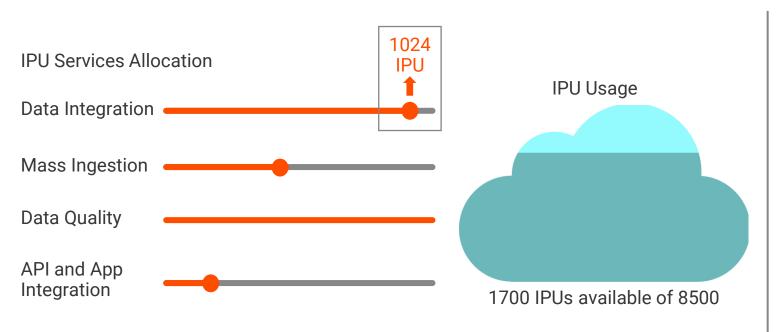
#### Optimization Engine Informatica Sends the Work to the Most Cost Effective Option



## Get access to all our cloud services

Dynamically scale usage up/down to fit your needs

#### Use AWS/Azure/Google Cloud Pre-Commit Dollars



- 1. Our pricing is Usage-based The cost of a service is based on how much the service is used
- 2. You have Full Access All cloud native services
- 3. Use Any Service at Any Time Every month, change services and usage as needed



#### Problem #2: Resource Constraints

# 87%

of organizations experiencing or expecting to face talent shortage in software development, including data & analytics talent

> Source: Daxx, A Software Development Outsourcing Company based on Europe



#### What we hear from customers:

- Not enough resources & 2 or more resources for every job
- Difficulty finding specialized skills
- Lack of automation
- Lack of tools for non-tech users

The solution: Self-Service Bundles, Templates, Wizards Intelligent Automation

#### Self Service: GUI Development vs. Hand-Coding





## Self-Service with Simple, Role-based Tools

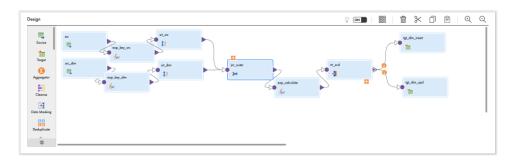


Developer GUI Canvas & Provision to Add Code			Analyst Wizard		IT Operations Dashboard		
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Single pane of glass across all services

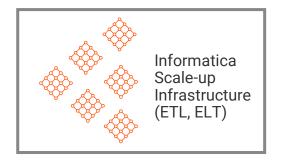
## Self Service with Serverless

Start developing your data pipelines on day 1





Open Informatica Design Canvas. Start Developing X Talk to administrator X Pick OS version X Select hardware Define configuration options X Spin up cluster X Ramp down cluster



Informatica takes care of your Secure Compute Infrastructure





## Accelerators can reduce development by up to 80%

Multi-Step Wizards for Data Ingestion & Integration

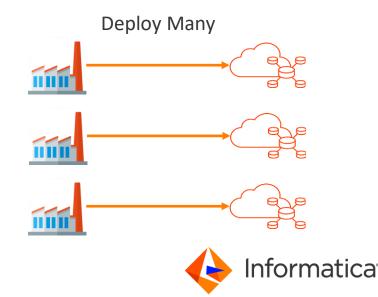
Quick Start Bundles for Common Use Cases Create Custom Templates with Dynamic Mappings

## 4 STEP WIZARD 35+ PRE-BUILT



- Ingestion
- Replication
- Streaming
- Synchronization
- Masking

- Data Warehousing
- Data Quality
- Data Migration
- Snowflake
- Application Integration



### Data Integration Development

Intelligent Automation vs. Manual Design



## Hand-Coding & Other Tools

#### Use AI & ML to Automate Development:

- Claire recommends how to build a mapping
- Claire automatically recognizes different file formats
- Build once, deploy many reusable mappings

#### No AI & ML, throw bodies at the problem:

- Start every job from scratch
- Build each job manually
- No reusability

Problem #3: Complexity with technology & operationalization

# 80%

of AI projects will remain alchemy, run by wizards whose talents will not scale in the organization

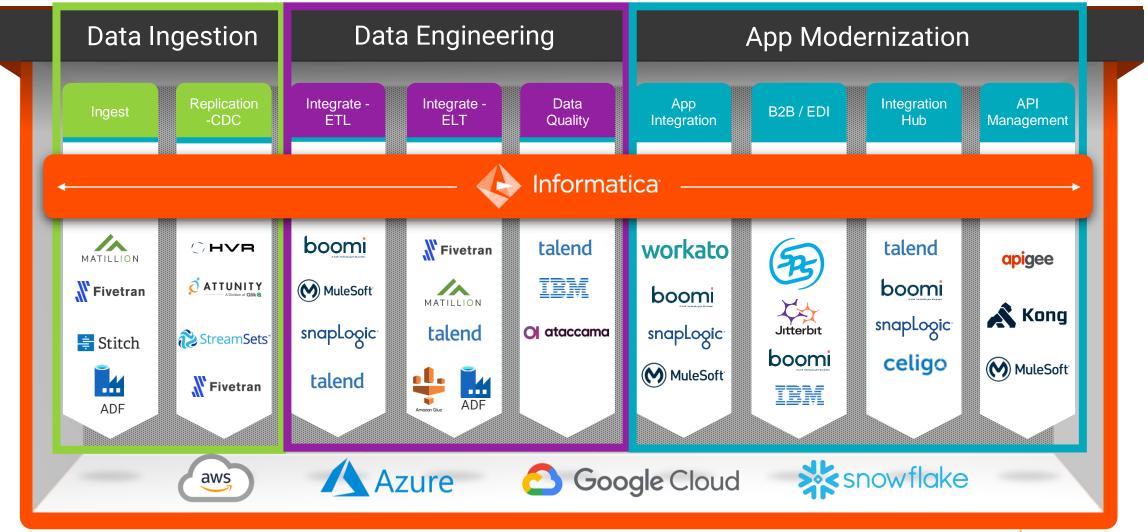
Source: DZone, October 2020

What we hear from customers:

- Disjointed tools that don't work together
- Development to production is arduous/costly
- Cloud and on-prem deployments don't interoperate
- Constantly evaluating new technologies

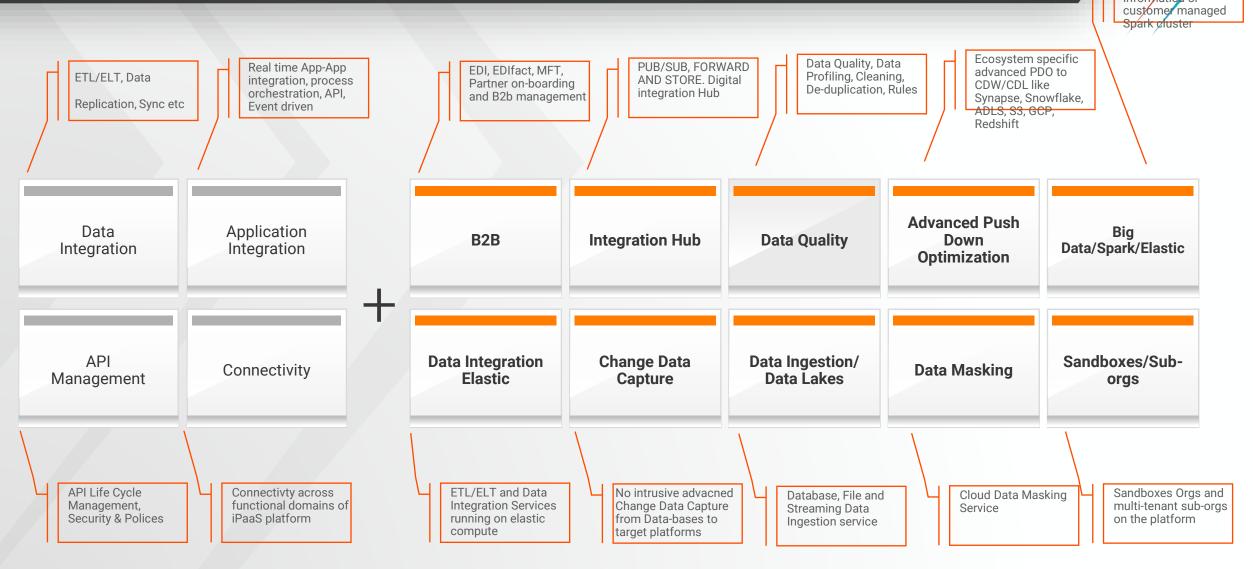
The solution: Single, Comprehensive Platform Support for Multi-Cloud, On-Prem Integrated Data Quality

## End-to-End Cloud-Native Data Management





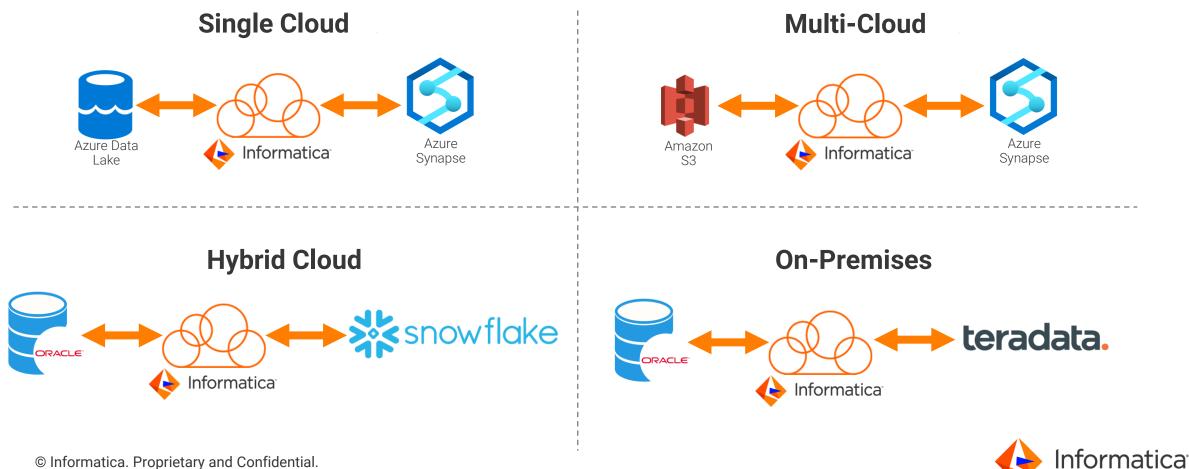
## Multi-Pattern Integration Platform



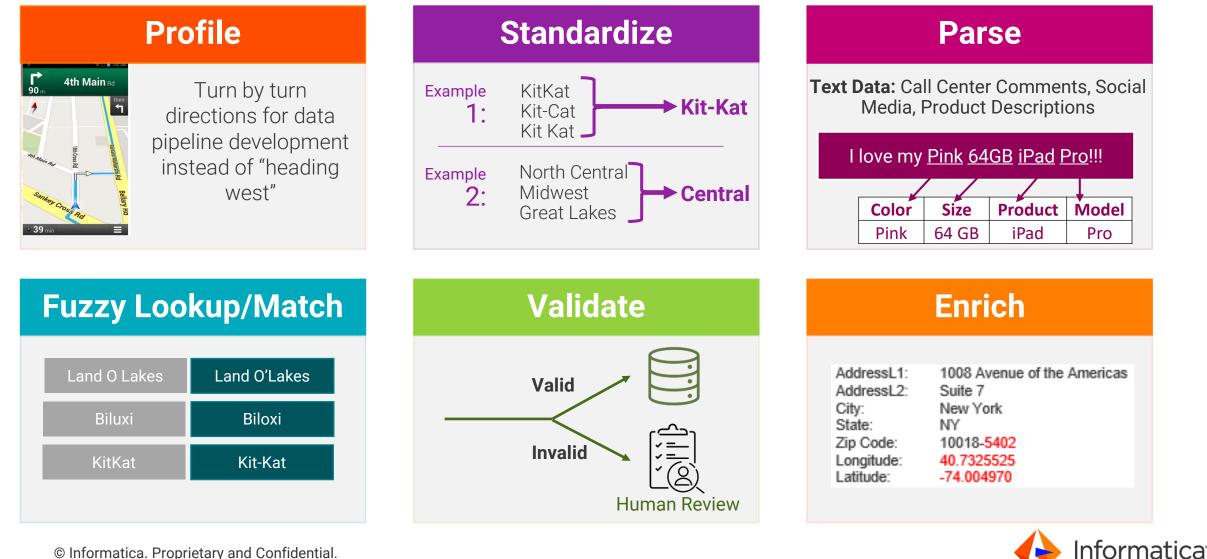


Codeless Spar processing on Informatica or

### One set of tools for all your cloud and on-premises data and applications



## Why Data Quality for Data Integration?



## Why Data Quality for Business Intelligence?

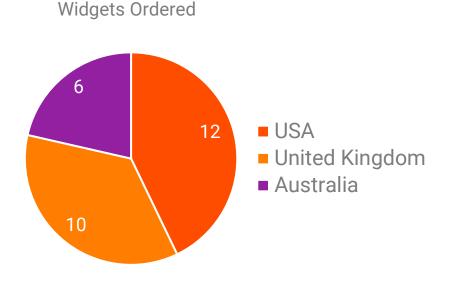
#### Without Standardization



- USA
  - United Kingdom
  - Australia
  - United States of America
  - UK
  - US of A

#### 6 customers, United Kingdom is largest, Australia is second





3 customers, USA is largest, United Kingdom is second

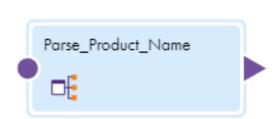


### Why Data Quality for Artificial Intelligence?



## Hand Coding Data Quality is Time Consuming, Error Prone, Hard to Maintain, and Does Not Scale

#### **Parse Product Description**



my\_string = 'Names: Widget, Cog

# split the string at ','

step\_2 = step\_1.split(',')

# strip leading and trailing edge spaces of each item of the list

step\_3 = [name.strip() for name in step\_2]

 $\ensuremath{\texttt{\#}}$  do all the above operations in one go

```
one_go = [name.strip() for name in my_string.split(':')[1].split(',')]
```

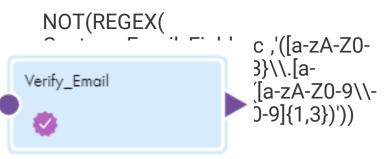
for idx, item in enumerate([step\_0, step\_1, step\_2, step\_3]):

print("Step {}: {}".format(idx, item))

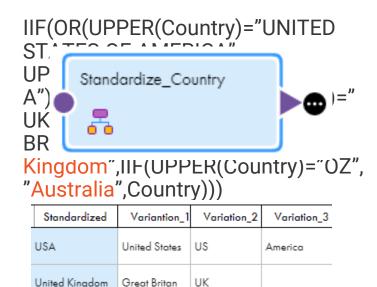
print("Final result in one go: {}".format(one\_go))

```
© Informatica. Proprietary and Confidential.
```

#### Verify Email



#### **Standardize Country**





## The Informatica Intelligent Data Management Cloud (IDMC) Platform



## Informatica Solves Your Data Management Challenges

#### **Cost Overruns**



• Up to 70% reduction in ETL processing time

#### **Resource Constraints**



 New integration job setup time Reduced by 40% to 55%

#### Complexity



 Cloud Data Quality reduced the time dedicated to quality assurance tasks by up to 35% each week



## Mature, Secure, Multi-Cloud Platform

Connects to Everything



## A Leader in Five Gartner Magic Quadrant Reports

Informatica is placed furthest in completeness of vision and highest in ability to execute in ALL of these Magic Quadrant Reports



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Cloud Data Integration on Azure & AWS www.informatica.com/azurefree www.informatica.com/awsfree

Process up to 500M rows of data per month free-of-charge

- Cloud Data Integration Service automates, high performance data integration at scale
- Cloud Mass Ingestion Service streamlines building and running of complex integrations with high-performance ingestion

Full product 30-day trial www.informatica.com/trials

**Cloud Data Warehousing** 

**Cloud Data Integration** 

**Cloud Mass Ingestion** 

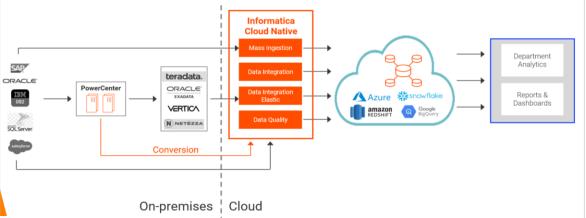
**Cloud Data Quality** 



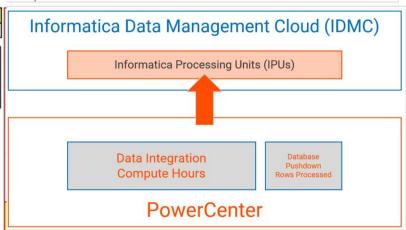


## Next Session: The Best Way to Modernize from PowerCenter to the Cloud

- 1. How can we leverage what we've already built in PowerCenter?
- 2. What if we want to start using a new cloud data warehouse?
- 3. Does Informatica have a solution for modernizing PowerCenter?
- 4. Are there any incentives for PowerCenter customers?



	Tota	Total Workflows 67		Total Worklets	Total Sessions	Total Fla	gs Scanned	
				13	363	2	026	
				This	s Many will be Fully Automate			
	Fully Automated Today			October, 2020	Q1, 2021 Q2, 2021		Possible for Manual Conversio	
_				6	37	1	23	
8				9%	64%	66%	34%	
WORKFLOW	Possible for Manual Conversion							
8 S	Needs Review 23							
≥								
	COMPLEXITY	% of Total		Workflows				
	Low	39%		26				
	Medium	51%		34				
	High	7%		5				
	Very High	3%		2				
	Grand Total	100%	I	67				





## Thank You

