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Product Portfolio Rationalization

Methodology & Case Studies

Product Portfolio Analysis

What are the **motivations** that lead to creation of a Product Portfolio?

- A. To diversify product offerings**
- B. Segment across different geographies / demographics etc.**
- C. Create additional revenue streams using existing offerings / resources**
- D. Adjunct products for innovation**

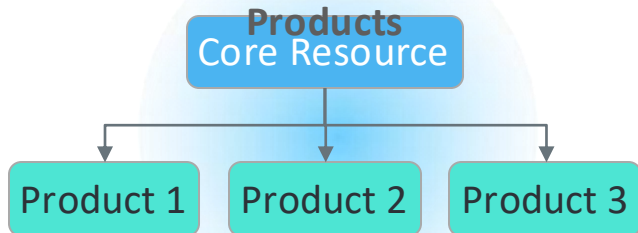
Methodologies to create a product portfolio?

- A. Inorganic Evolution - Mergers and Acquisitions**
- B. Organic Evolution - Self Developed Solutions**

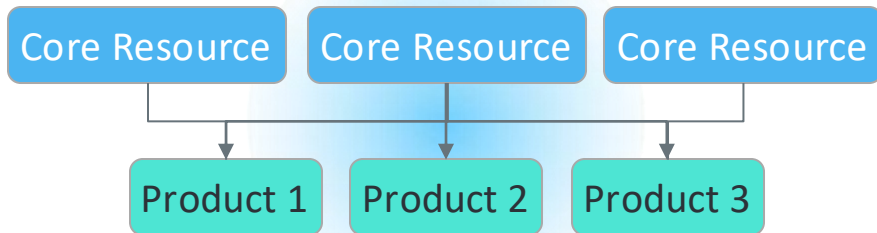


Structural Patterns in Product Portfolio

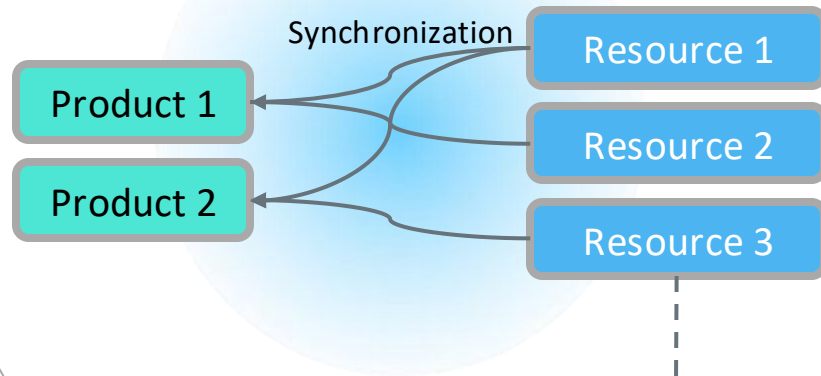
Core Resource Common Between Products



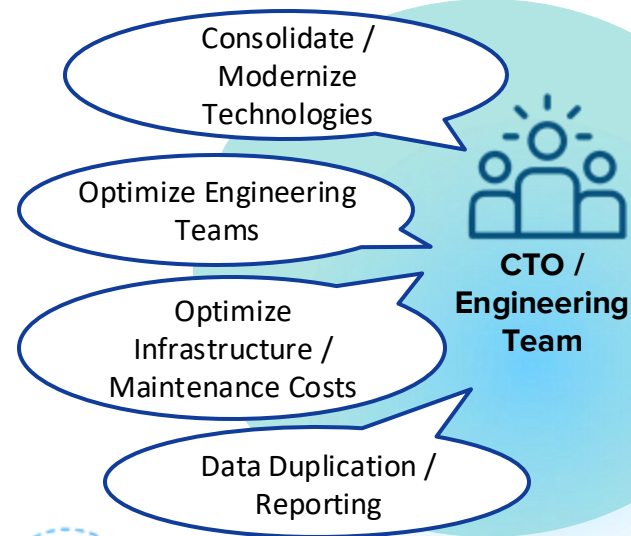
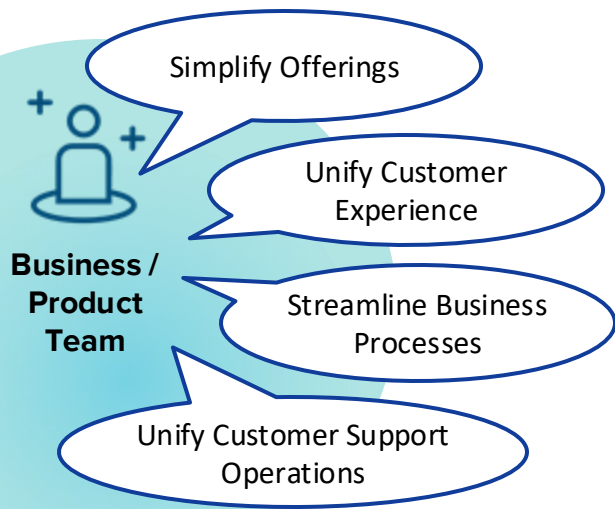
Multiple Resources Common Between Products



Synchronization Between Resources



Business & Technology Objectives



Key Pain Points Summarized

Category	Root Cause
I can't run an international influencer marketing campaign that spans multiple geographies from a single portal.	Functional Overlap
I have a vintage tractor that I need to auction, but have to manage and run the auction on multiple websites.	
As a Product Manager, everytime I have to modify a feature, I have to modify it in all the products.	
Our Infrastructure costs are too high considering all the applications that we have to host.	Architecture Overlap
Everytime I switch from one product to another I have to login again.	
Everytime we find a new data source to integrate into our products, all of our products have to undergo changes for that integration.	

Accion's Rationalization Methodologies

Rationalization Tenets

Functional Overlap

Consolidate

Migrate

Sunset

Architecture Overlap

Isolate

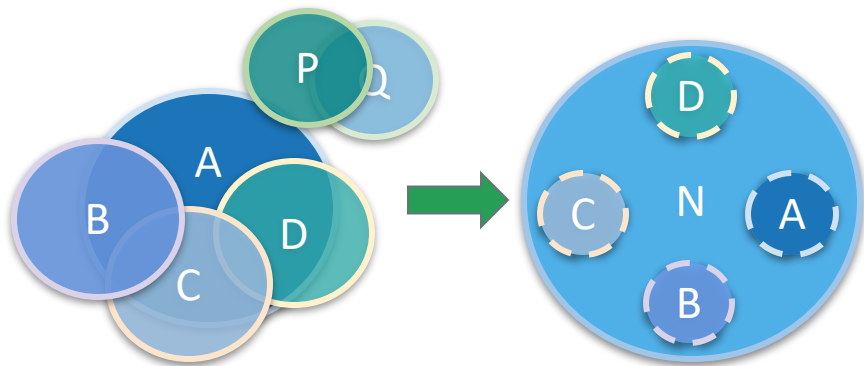
Share

Reuse

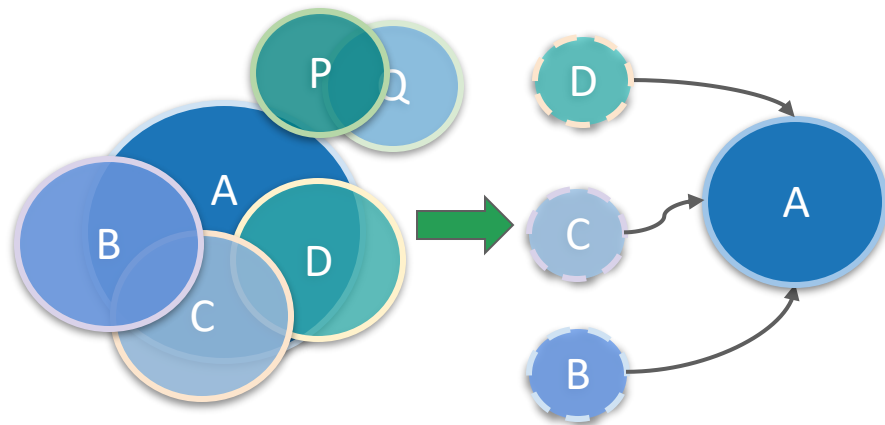


Consolidation Approaches

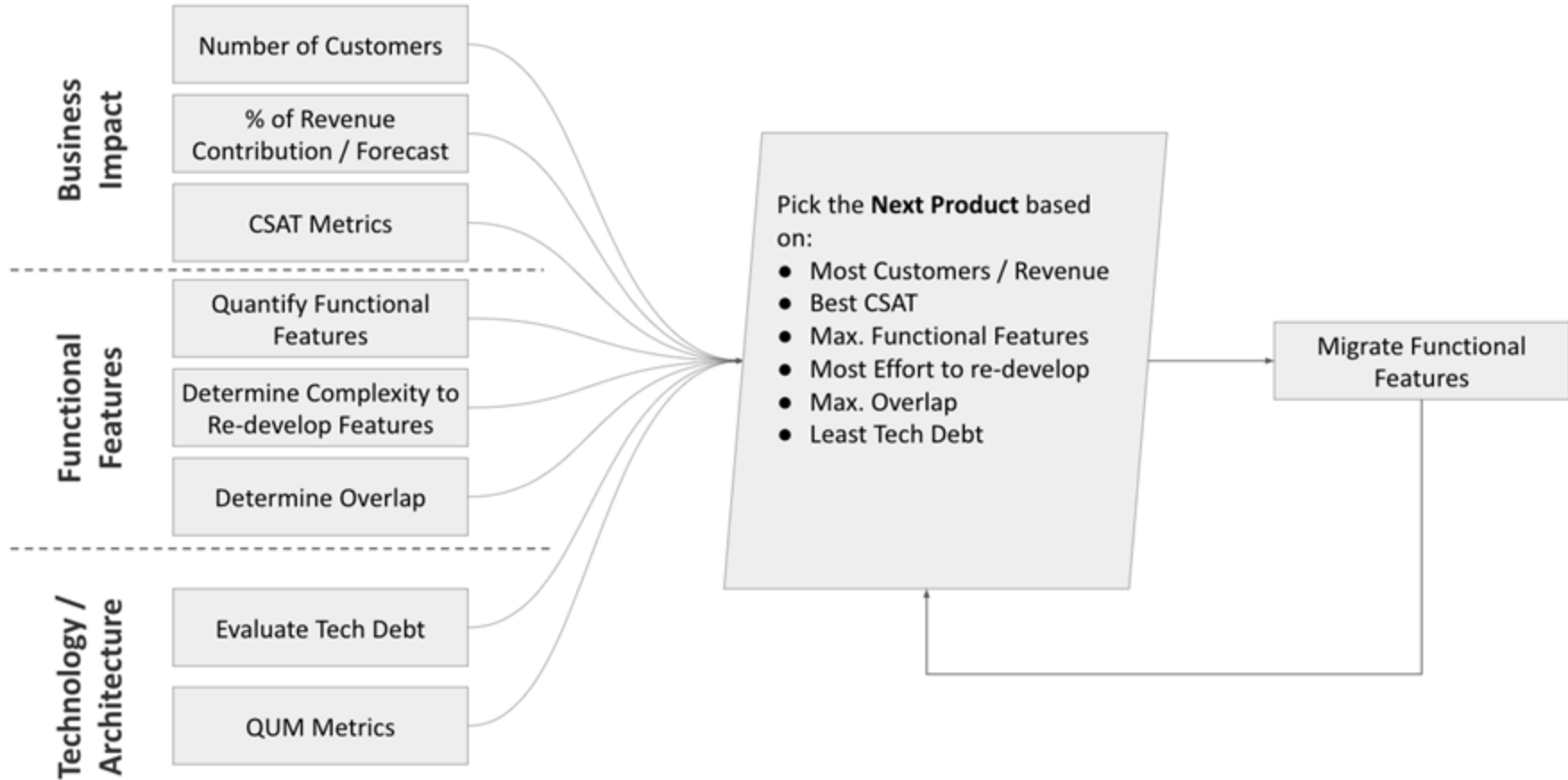
Develop New Unified Product



Nominate & Enhance Existing Product



Iterative Consolidation Process



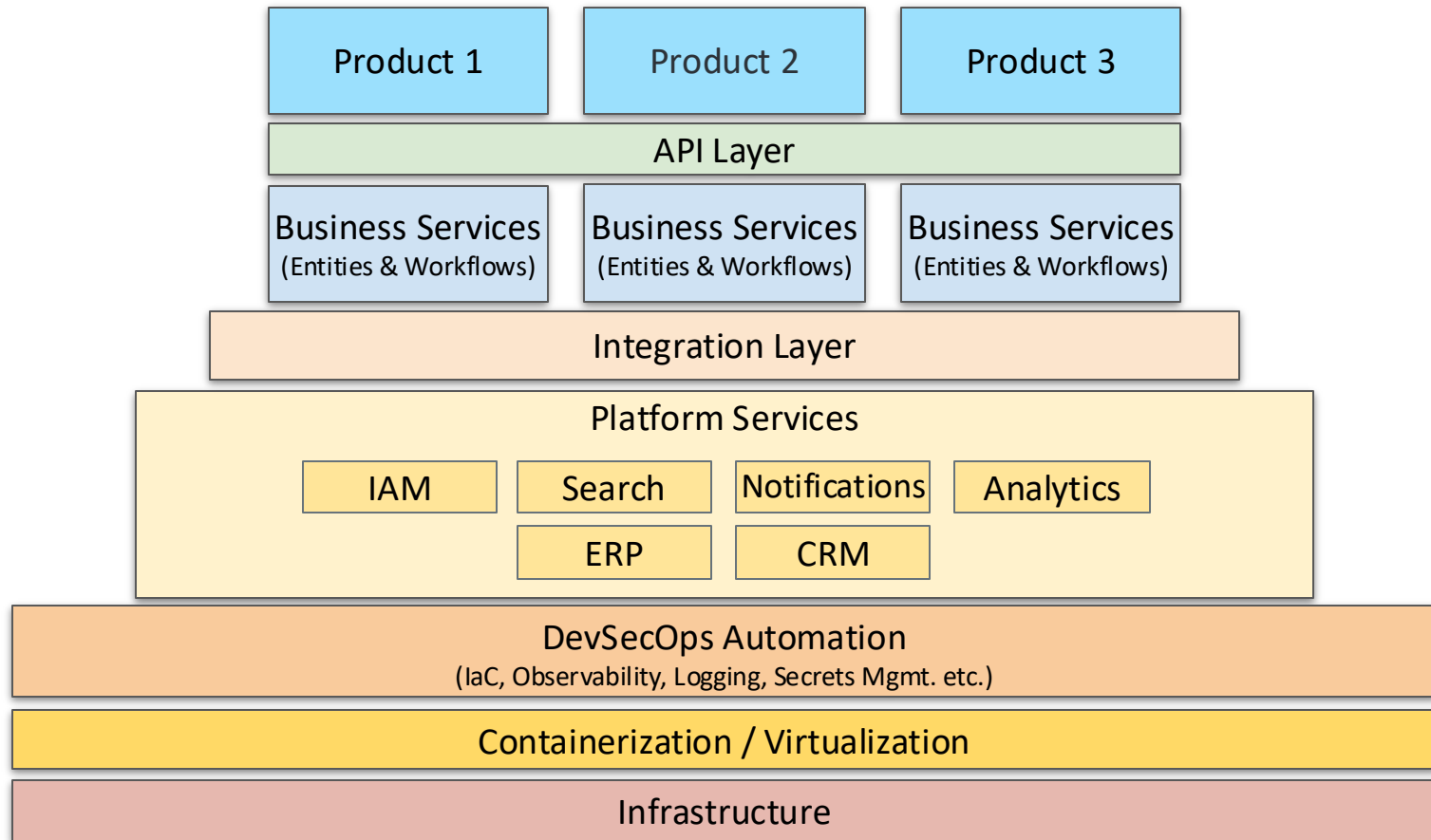
QUM Methodology to Measure Functional Overlap

Product A		Product B		Product C	
A1	FUNCTIONAL Persona / Task / Outcome / Scenario Product: Pet Clinic Release 1 Persona: Pet parent Task: Book an appointment with a veterinary doctor Outcome: Successful appointment Scenario 1: Booking appointment for the very first time	B1	FUNCTIONAL Persona / Task / Outcome / Scenario Product: Pet Clinic Release 1 Persona: Pet parent Task: Book an appointment with a veterinary doctor Outcome: Successful appointment Scenario 1: Booking appointment for the very first time	C1	FUNCTIONAL Persona / Task / Outcome / Scenario Product: Pet Clinic Release 1 Persona: Pet parent Task: Book an appointment with a veterinary doctor Outcome: Successful appointment Scenario 1: Booking appointment for the very first time
A2	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	B2	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	C2	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt
A3	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	B3	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	C3	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt
A4	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	B4	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt	C4	Persona: xxxxxxxxxxxx Task: yyyyyyyyyy Outcome: zzzzzzzzzz Scenario 1: ssssssss Scenario 2: tttttttt

Options to Bridge Functional Gaps

- Merge code from separate code bases
 - Migration of code from one product to another.
 - Applicable only for same / similar tech stacks
 - This may not be always possible / likely to be the case.
- Create Shared libraries / Reusable components
 - Create shared libraries / reusable components that can be reused
 - Applicable only for same / similar tech stacks
 - Applicable in scenarios where APIs are not available
- Share Backend via API Integrations
 - Applicable for polyglot products when APIs are available.
 - May require additional considerations like SSO, synchronizing master data and other data elements may be necessary.
- Share Backend via Microservices
 - Cull out Microservice from Product A to Product B
 - Applicable for polyglot products when the coupling between the implementation of features is minimal or none.
- Share Backend + Frontend - Microservices + Micro Frontends
 - Cull out the Front end in the form of micro front end and Microservice from Product A to Product B
- Write Code from Scratch
 - Least ideal approach, but consider in worst case scenario.

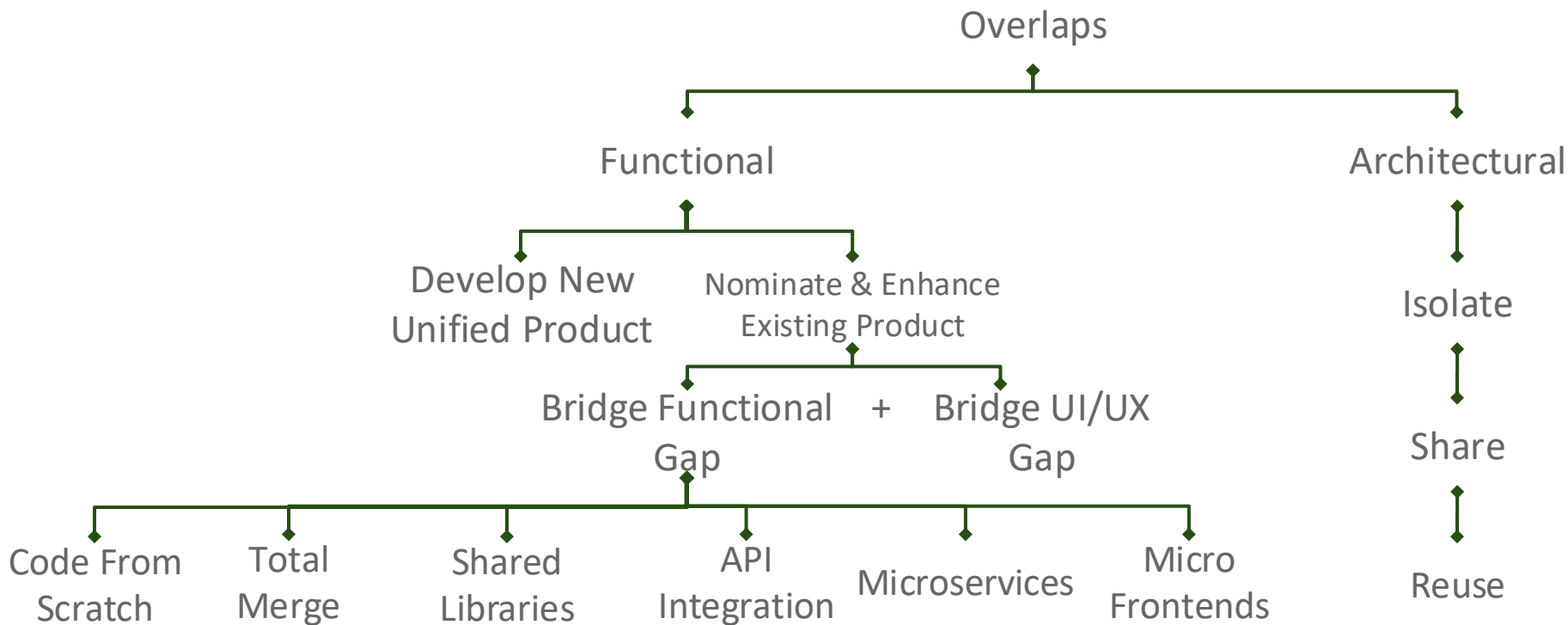
Architectural Overlap - Isolate, Share & Reuse



Key Considerations in Rationalization

Category	Area
User Experience	Adaptability
	Feature Parity
	Internationalization / Localization
Business Process	Workflows and Business Rules Consolidation / Simplification
	Automation
Technology	Current Tech Debt
	Data Quality / MDM
	Data Migration
People	Customer Migration
	Team Skills
Economics	Capital Investments
	Operational Costs
	Time to Market, ROI

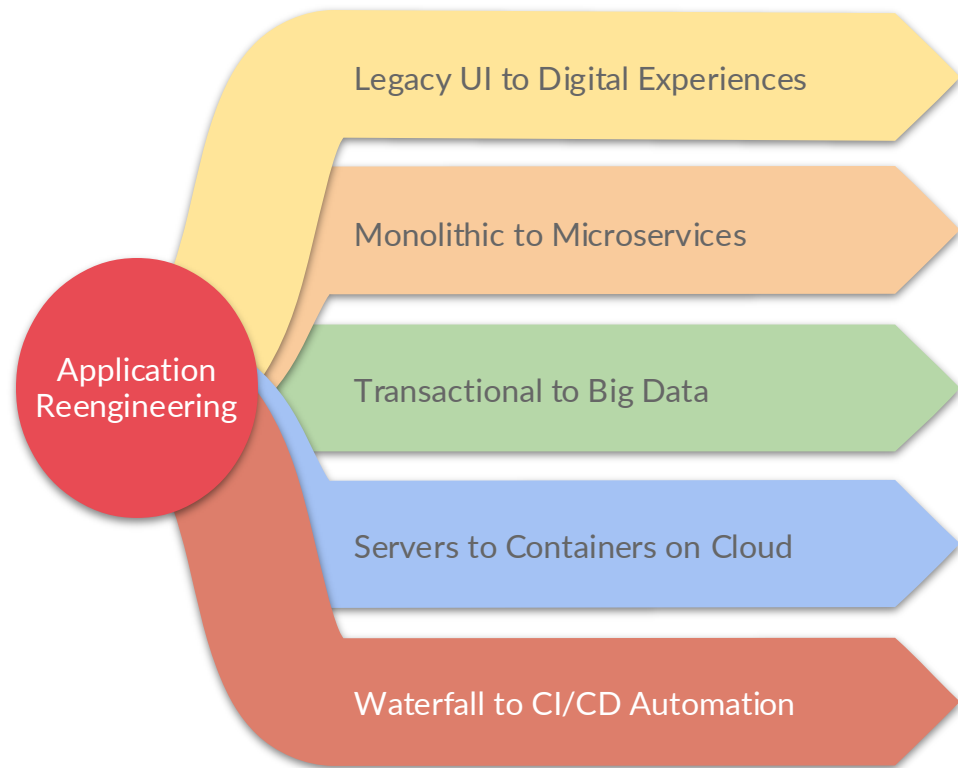
Summary



Re-Engineering Methodology



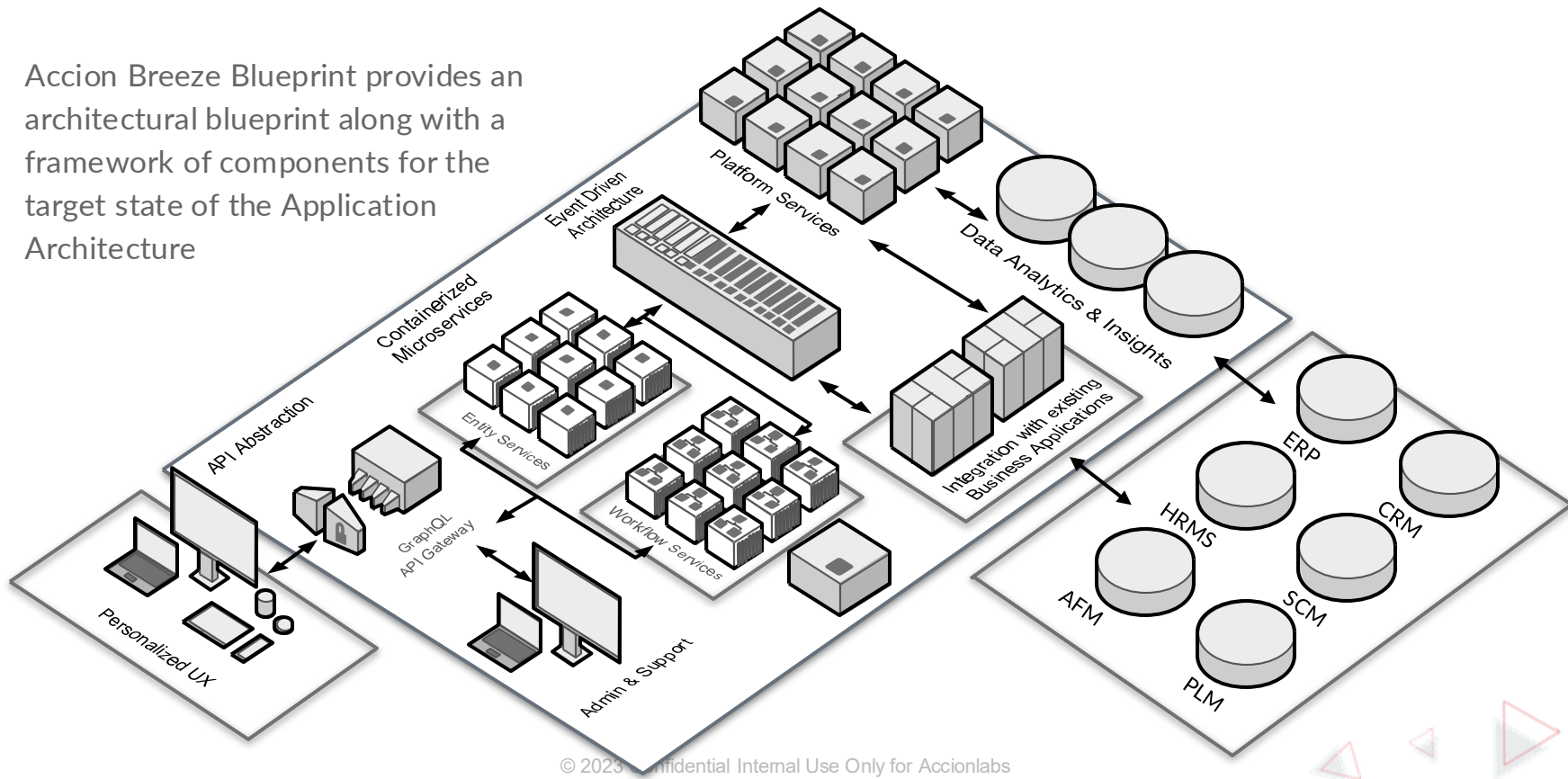
Reengineering / Modernization Work Streams



- Accion helps clients to re-engineer their legacy software applications into scalable, high performing Digital Products
- Multiple re-engineering work streams are prioritized and executed in parallel
- Applications are re-engineered in iterative releases, so that customers can adopt new products in stages
- Accion helps to develop, maintain and implement the re-engineered digital products
- Accion Breeze provides a comprehensive foundation for building digital platforms

Breeze - Digital Architecture Blueprint

Accion Breeze Blueprint provides an architectural blueprint along with a framework of components for the target state of the Application Architecture



Re-Engineering Approaches

Tech Debt Addressal



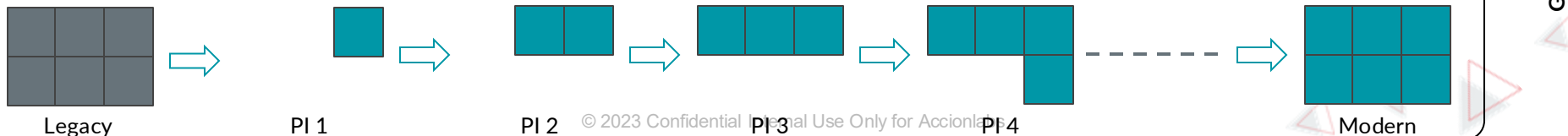
Parallel Development & Integration



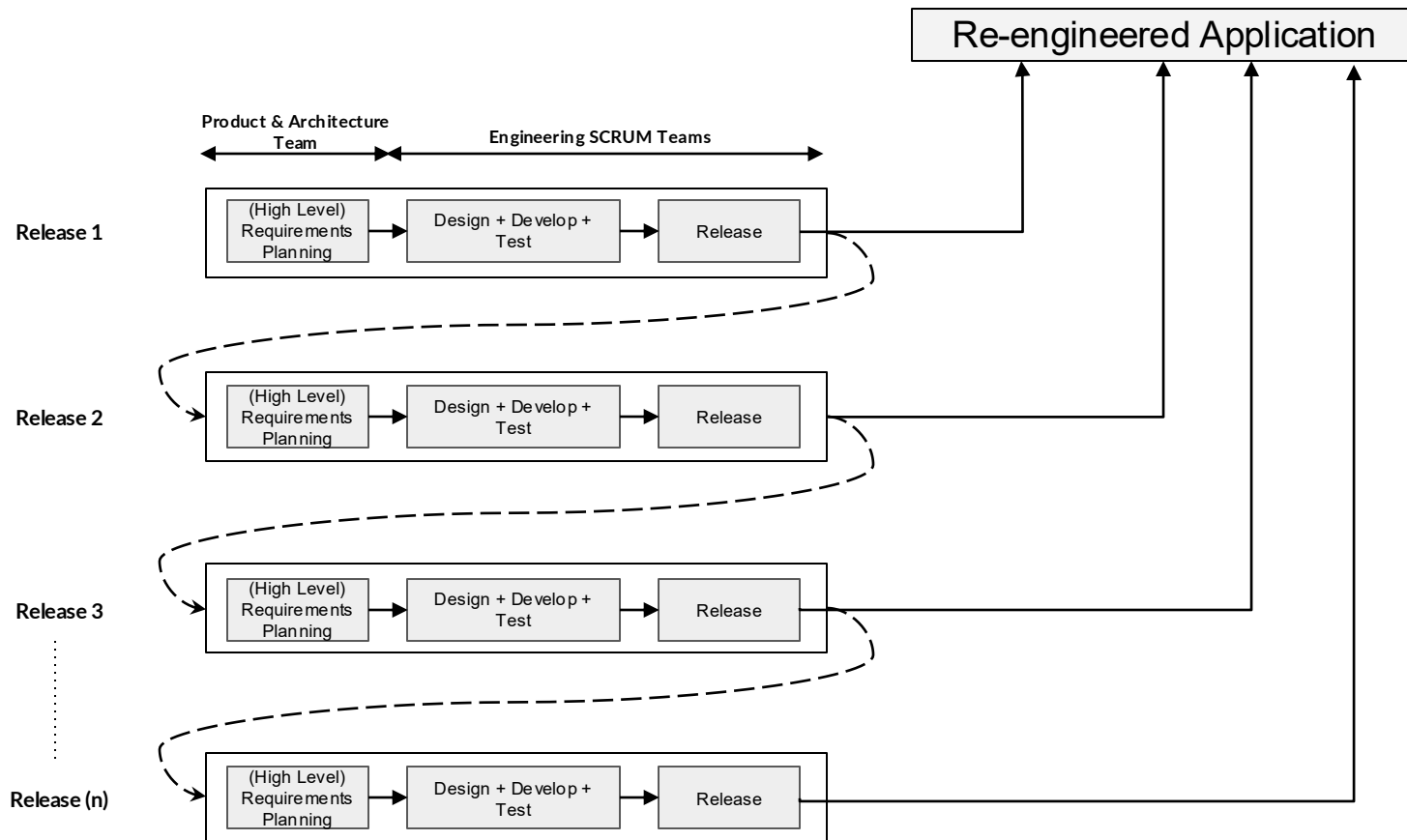
Incremental Value Delivery



Module by Module



Time Boxed Release Methodology



Case Studies



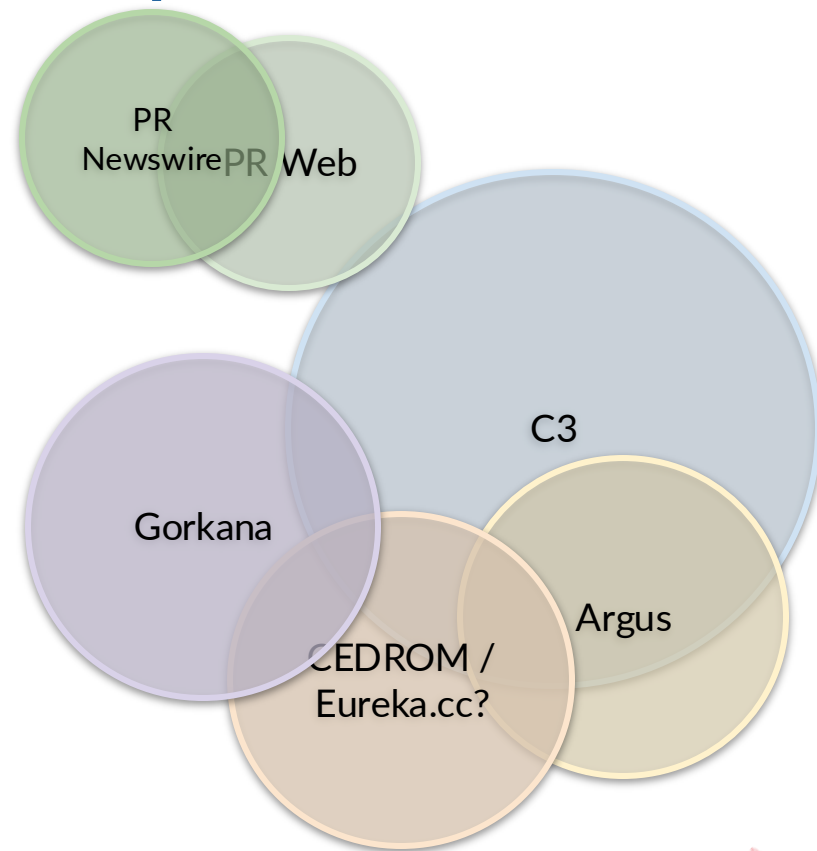
MarTech Product Portfolio Analysis

Metrics	C3	Argus	CEDROM	Gorkana	PRWeb	PRNewswire
Category	Media Monitoring, Insights and Analysis, Targeting				Content Creation, Scheduling, Distribution, Tracking and Analysis	
Markets	USA / Worldwide	France	Canada & France	UK	USA / Worldwide	USA / Worldwide
Media Type	Digital Media	Digital Media / Traditional Media?	Digital and Traditional Media	Digital Media	Digital Media, Press Releases, Digital Assets	Digital Media, Press Releases, Digital Assets
Competitors	Meltwater, Mention, Critical Mention, Hootsuite, Sprout Social, Muck Rack				Businesswire, Newswire, Globe Newswire	
History / Origin	Homegrown, Flagship Product	Acquired from Argus de la presse	Acquired from CEDROM CNI	Acquired from Gorkana Group	Homegrown	Homegrown

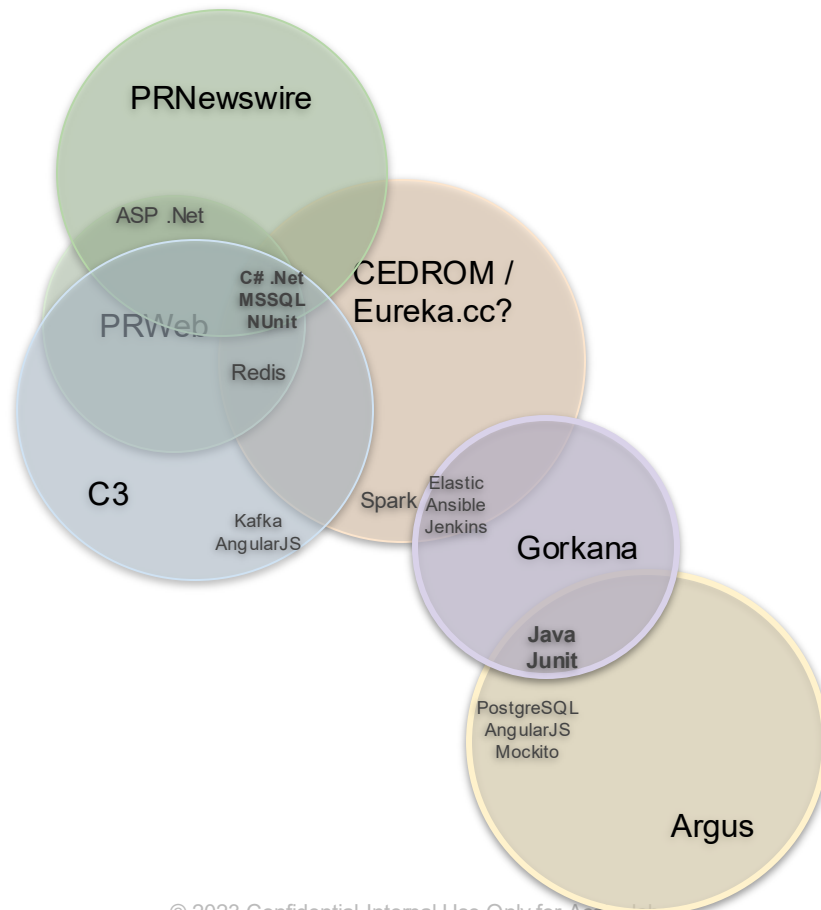
Monitoring - Product Features Overlap

Distinguishing Factors:

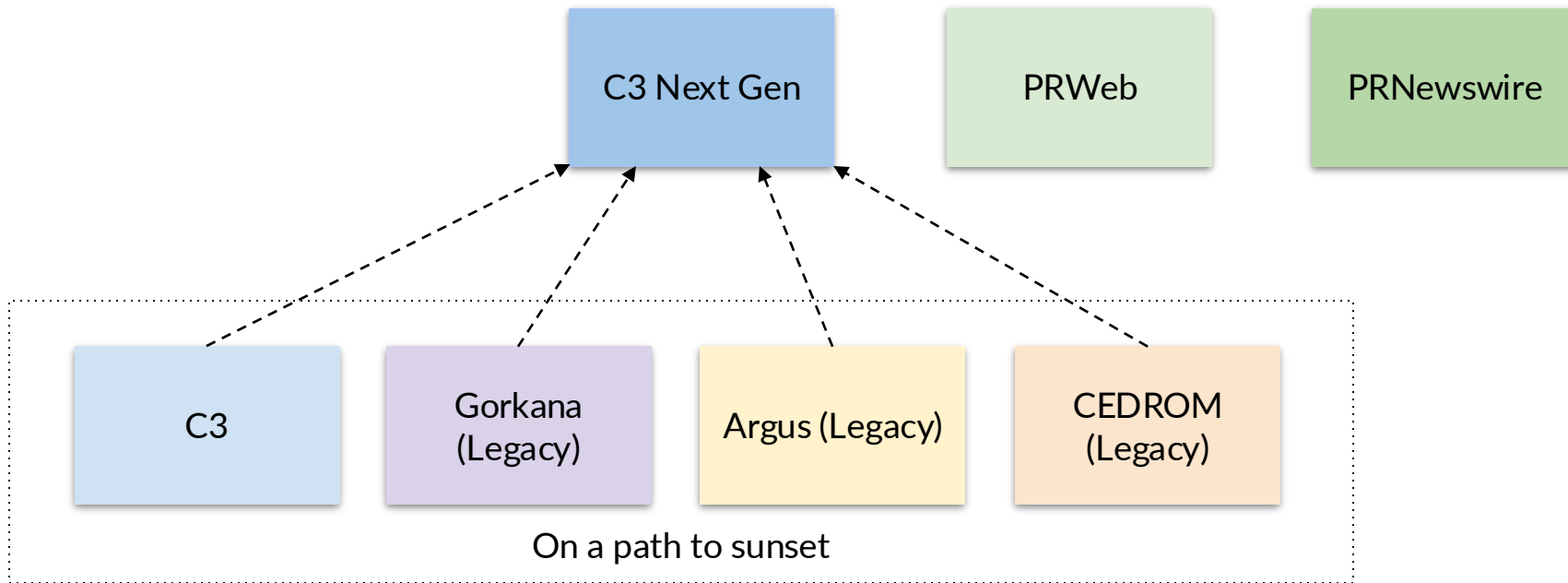
- Primary features of the product
- Distinct Media Types for Analysis
 - TV media
 - Radio
 - Podcasts
 - Newspapers
 - Magazines
 - Social Media etc.
- Geo specific data sources
- Locale coverage of contacts / influencers
- Dependencies on other applications:
 - LuQi
 - Visible
 - IRIS
 - WISE etc.



Monitoring - Product Technologies Overlap



Product Portfolio Consolidation + Reengineering



PR Distribution Platform Reengineering

Legacy Architecture

- Custom Built Monolithic Legacy Systems
 - Multiple Technology Stacks
 - Duplicate Features in multiple applications
 - Difficult to add new features
 - Third party components with no support
 - Scalability and performance issues
 - Silo databases with complex synchronization
- Legacy UI / UX
 - Legacy UI architecture (ASP.net)
 - Multiple front end portals with duplicate features
 - No mobile support
 - Custom front end for large customers
- Legacy Infrastructure
 - On Premise Data Center
 - Legacy Infrastructure Investments
 - Internal IT Support
 - Performance and Scalability Issues

Problem Areas

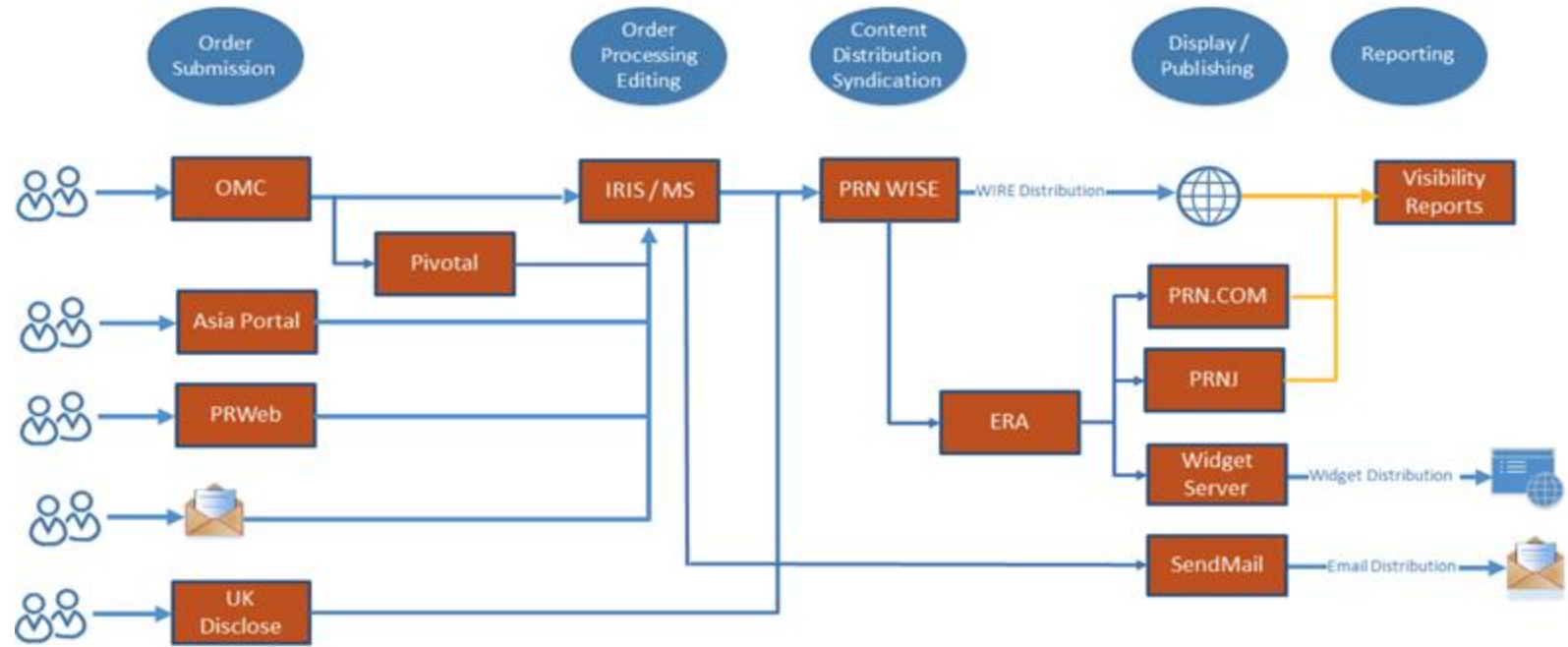
- High cost of maintenance for legacy systems
 - Each backend system has dedicated teams
 - Multiple tech skills and architecture
 - Undocumented code and APIs
 - Frequent bug fixes
- Ineffective Customer Experience
 - Different front end for different geographies
 - No path for cross sales or feature parity
 - Competition from new players with modern apps
 - Frequent customer complaints on UX
- Brittle Infrastructure
 - Duplicate data in multiple systems leading to high data management costs
 - Legacy investments in IT infrastructure
 - High internal costs
 - No easy path for cloud migration

Reengineering Objectives

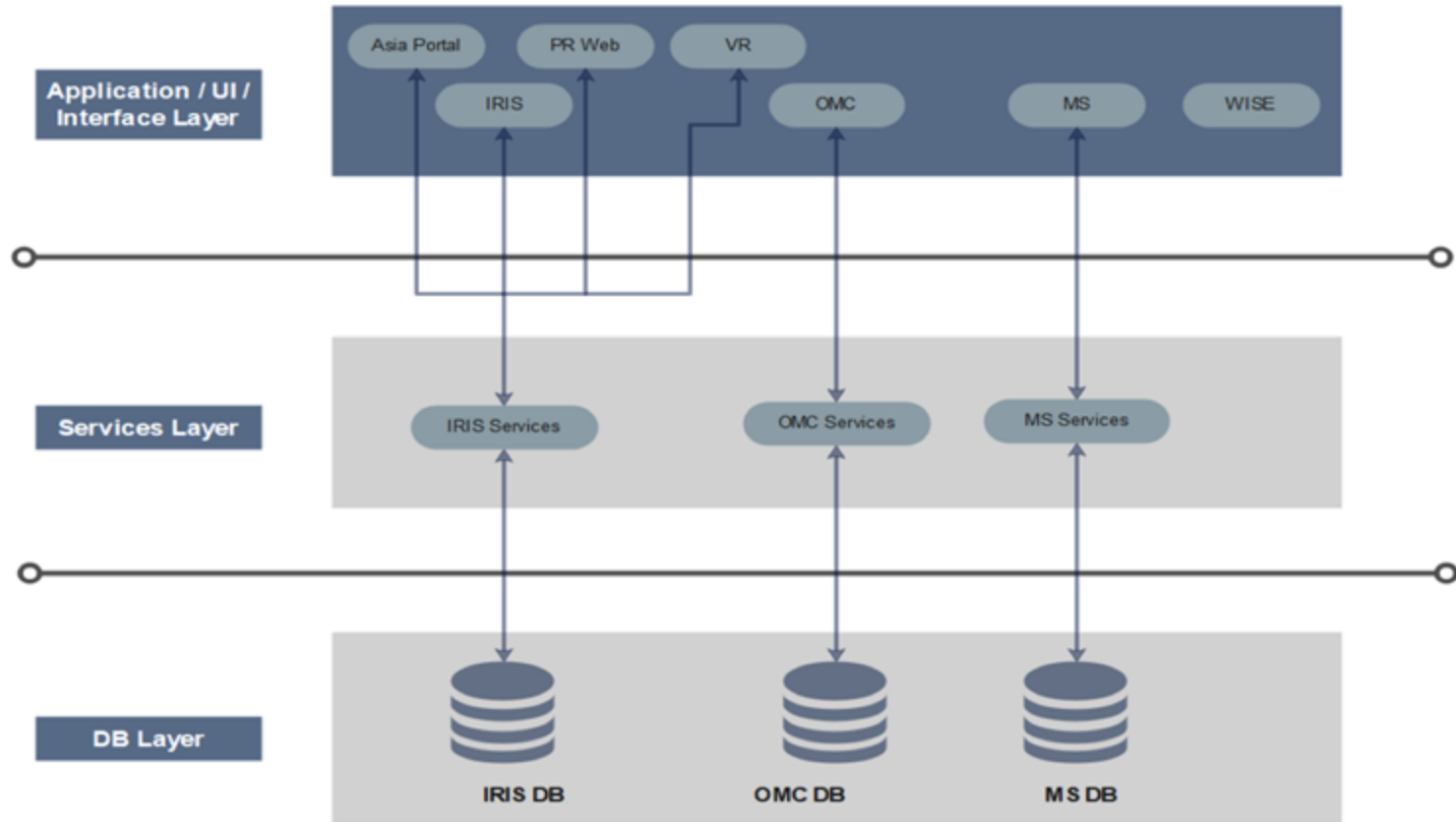
- Single Technology Stack
 - Multiple products through acquisitions and internal growth, with different technology stack. Moving to a single technology stack will increase reusability and reduce maintenance overhead
- High Availability
 - All systems should be available 24/7/365 except planned down times. System monitoring needs to expose the health of all components.
- Easy and Flexible Deployment
 - New features should be easy to deploy without compromising dependencies between components
- Modernize User Experience
 - Personalized user interfaces that recognize and customize the views for each individual user, and allow innovations to surface easily
- Support Future Business Requirements
 - The reengineered architecture should support making significant changes based on new requirements from customers, markets or competitors
- Ease of Integration
 - It should be easy to integrate other external or internal applications with adequate measures of security and access control implemented
- Security Compliance
 - The application architecture needs to be compliant with all security and privacy requirements as mandated by customers or internal guidelines
- Seamless Patching or Rebuilding
 - It should be possible to seamlessly patch in new versions, bug fixes or data issues with no disruption to the smooth functioning of the application

Distribution - Functional Analysis

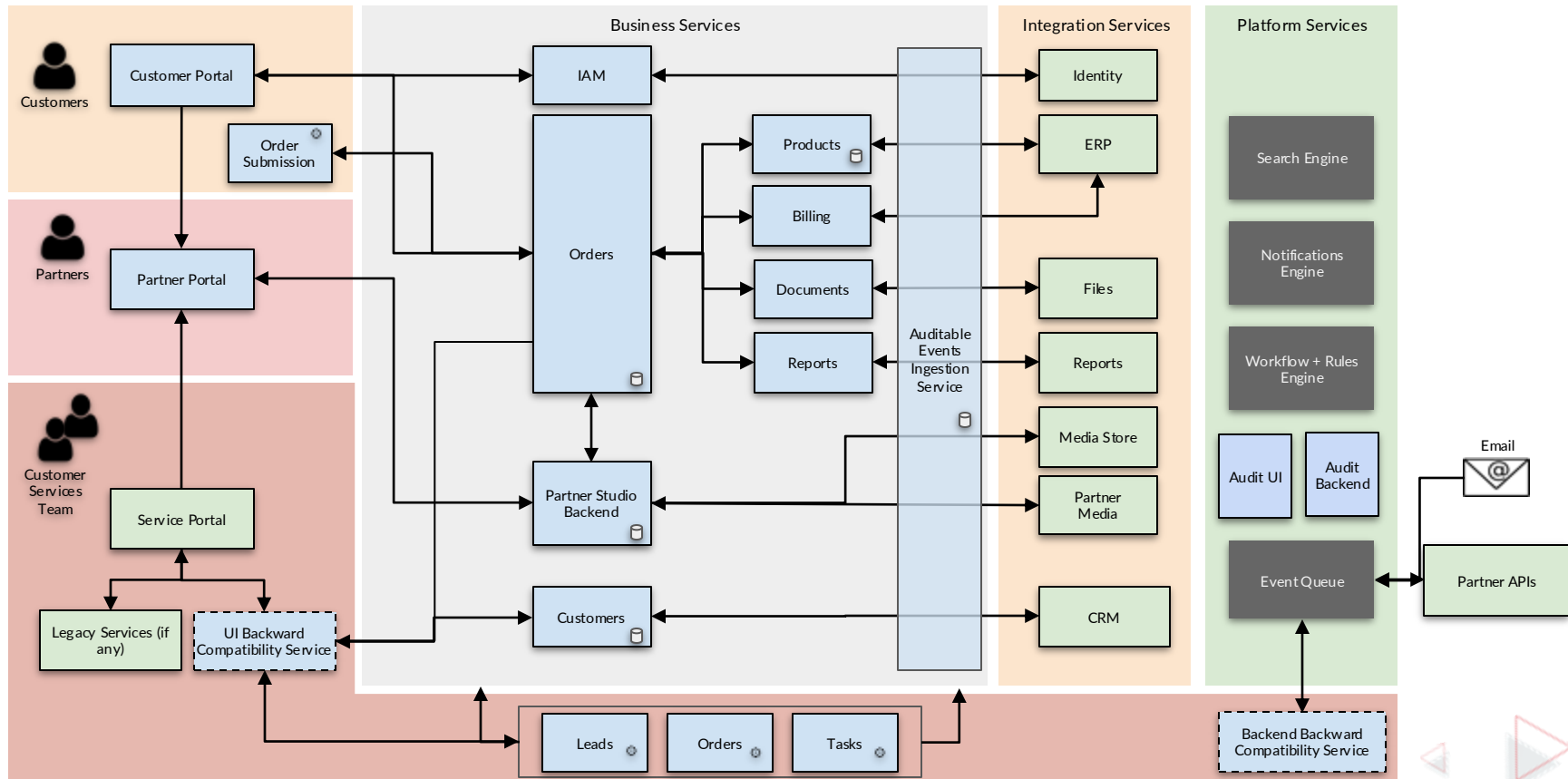
Press Release Processing and Distribution Flow



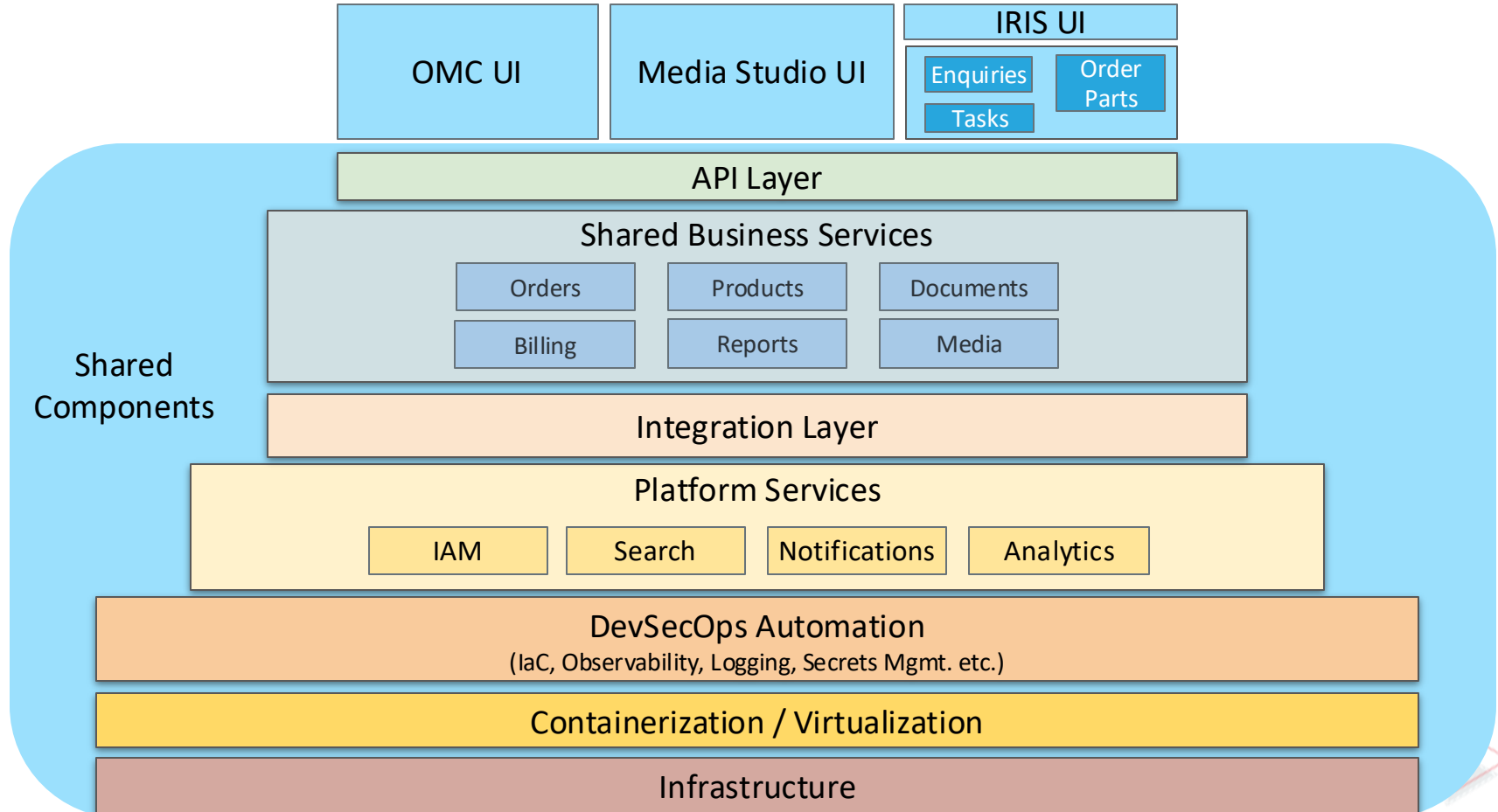
Distribution - Technology / Architecture Analysis



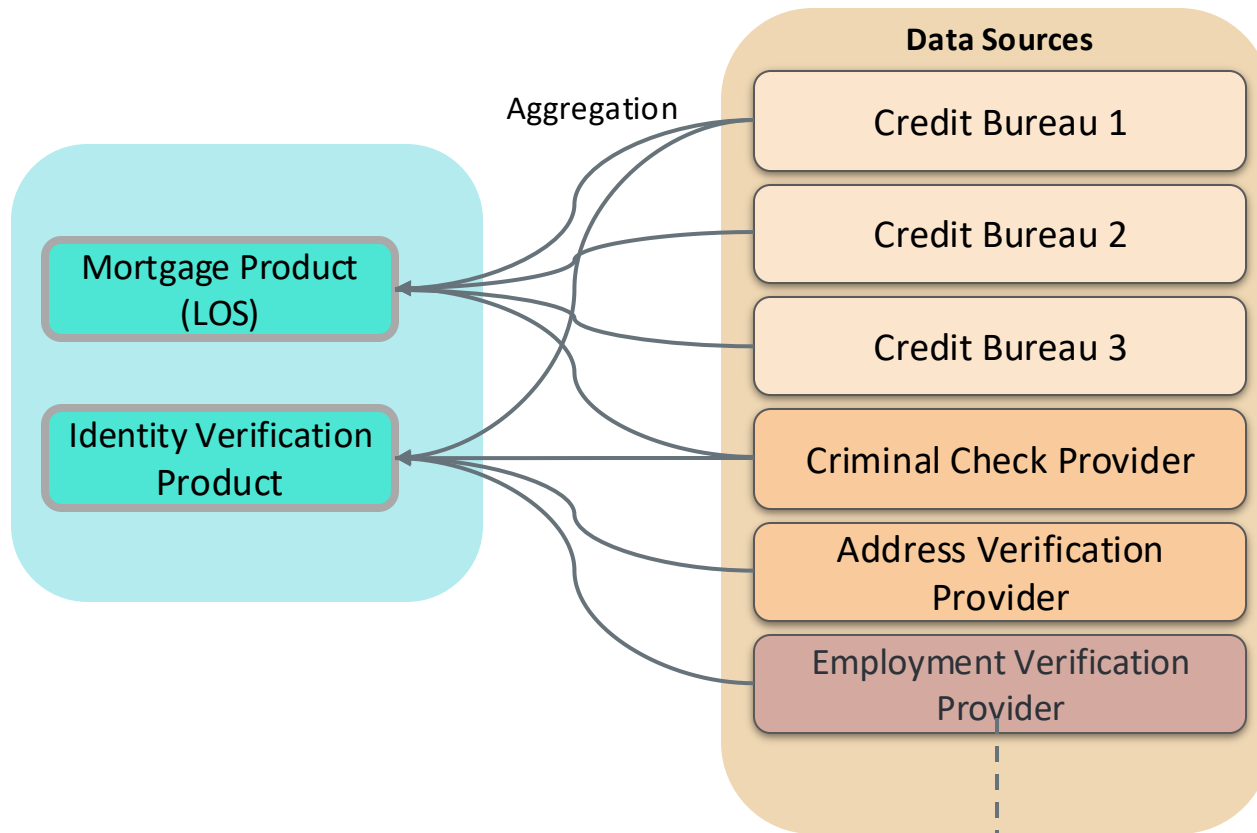
Distribution - Solution Conceptual Architecture



Distribution - Architecture Overlap



Credit Aggregator - Product Portfolio

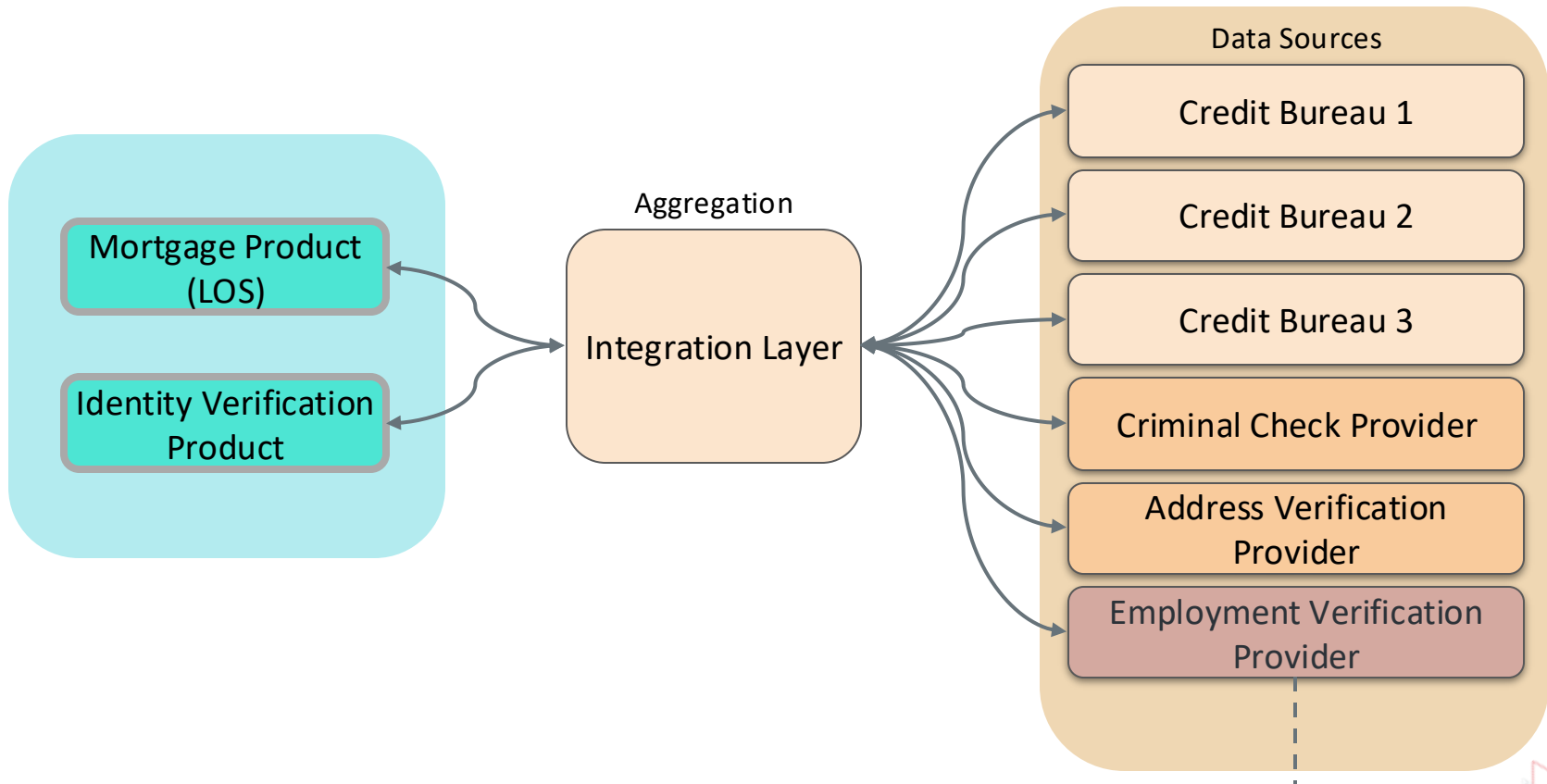


Credit Aggregator

Motivation: Additional Revenue Streams & Adjunct Innovation

Methodology: Self Developed

Credit Aggregator - Solution Architecture



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Thank You!