

# WebConnect Project

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WebConnect  
**OVERVIEW**

# WebConnect - Overview

- Background
- The team
- Project Phases

# What is WebConnect?

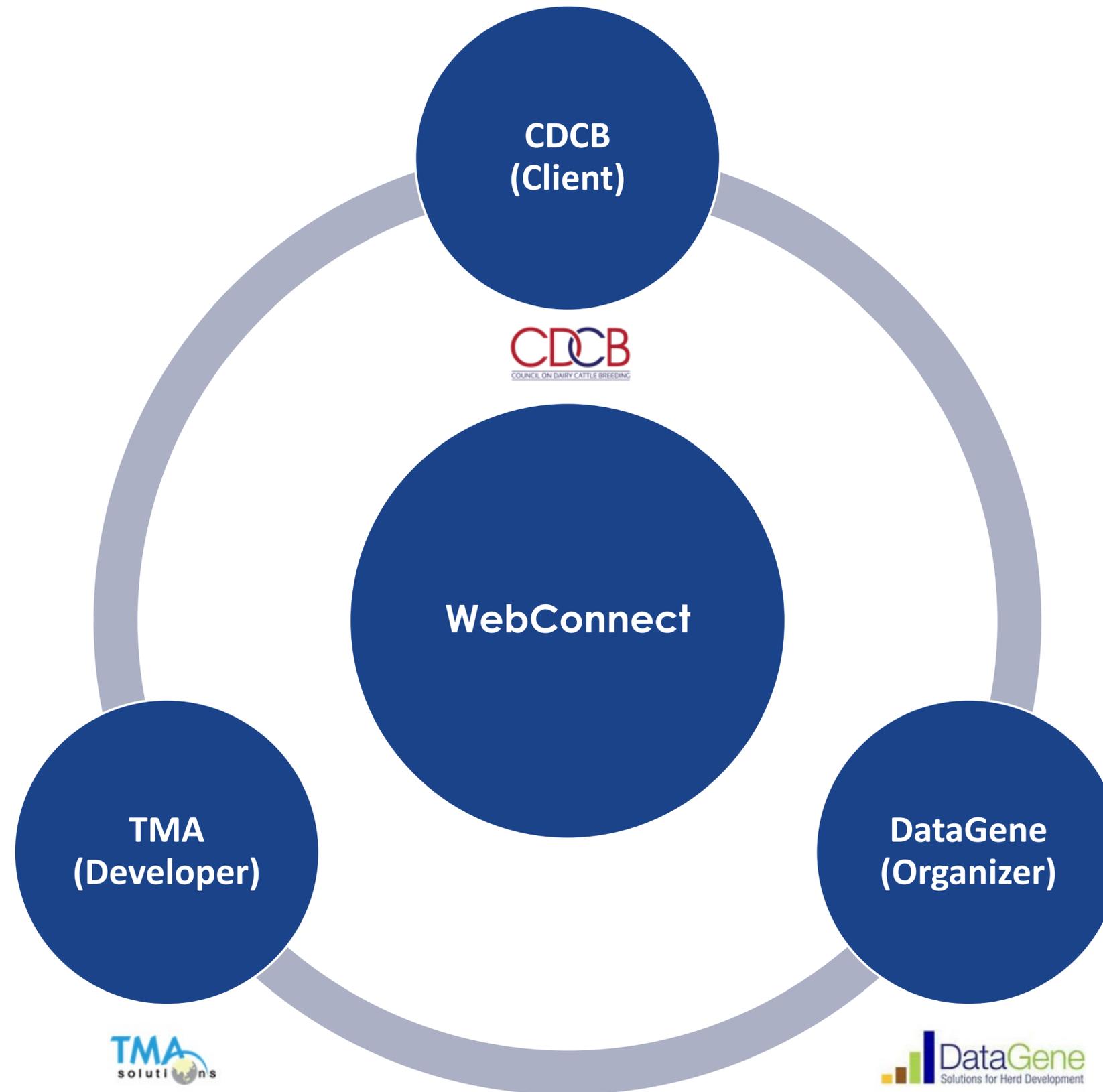
**WebConnect** is a project to redevelop the National Cooperator Database Interface, specifically focusing on the delivery of new web capabilities to improve overall functionality and user experience

# What is the purpose of WebConnect?

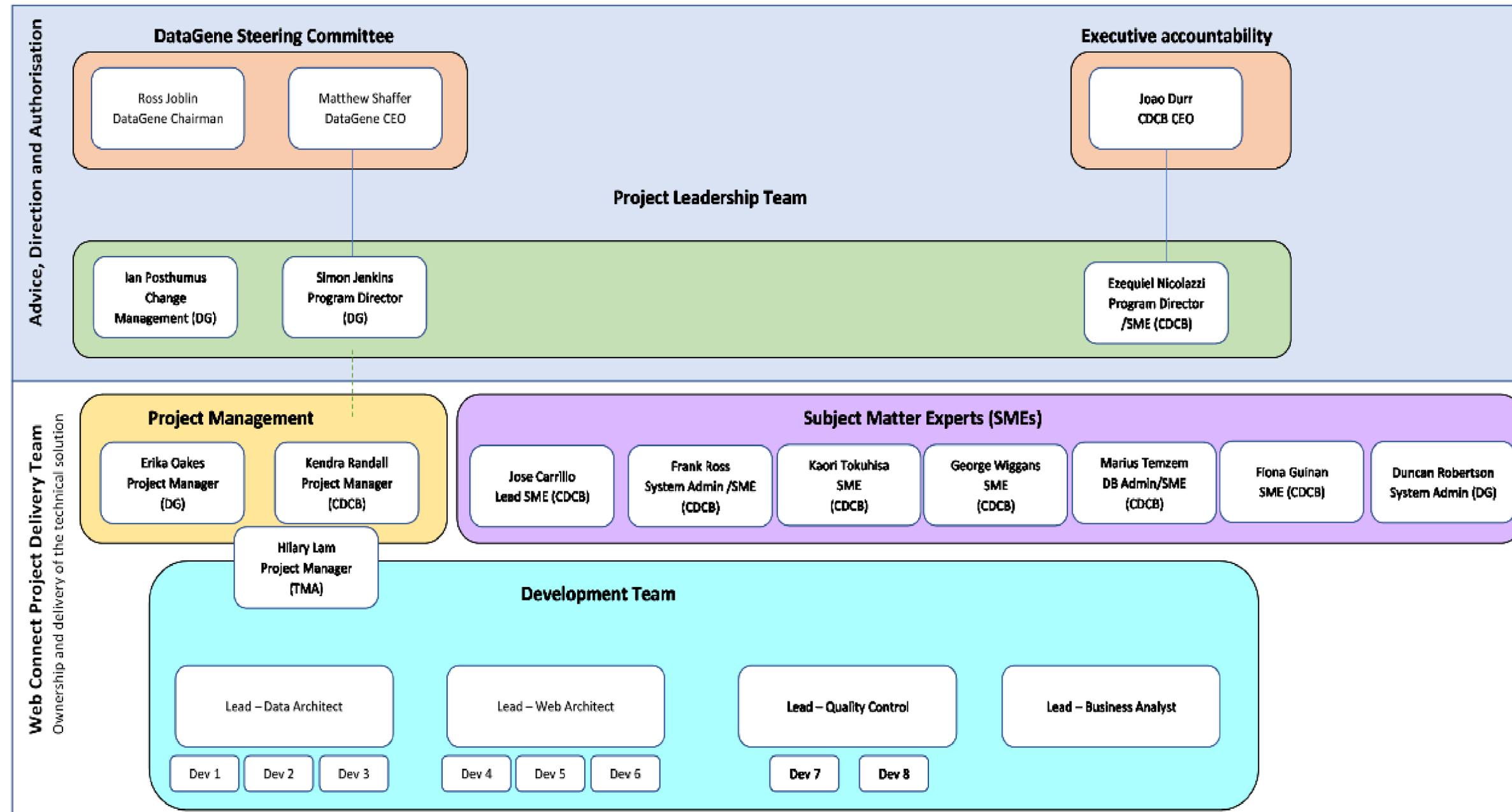
- Provide an up-to-date system
- Easy navigation and usage of web tools
- Enhance the user experience
- Improve customer service
- Provide more opportunities for data transfer and integration

WebConnect

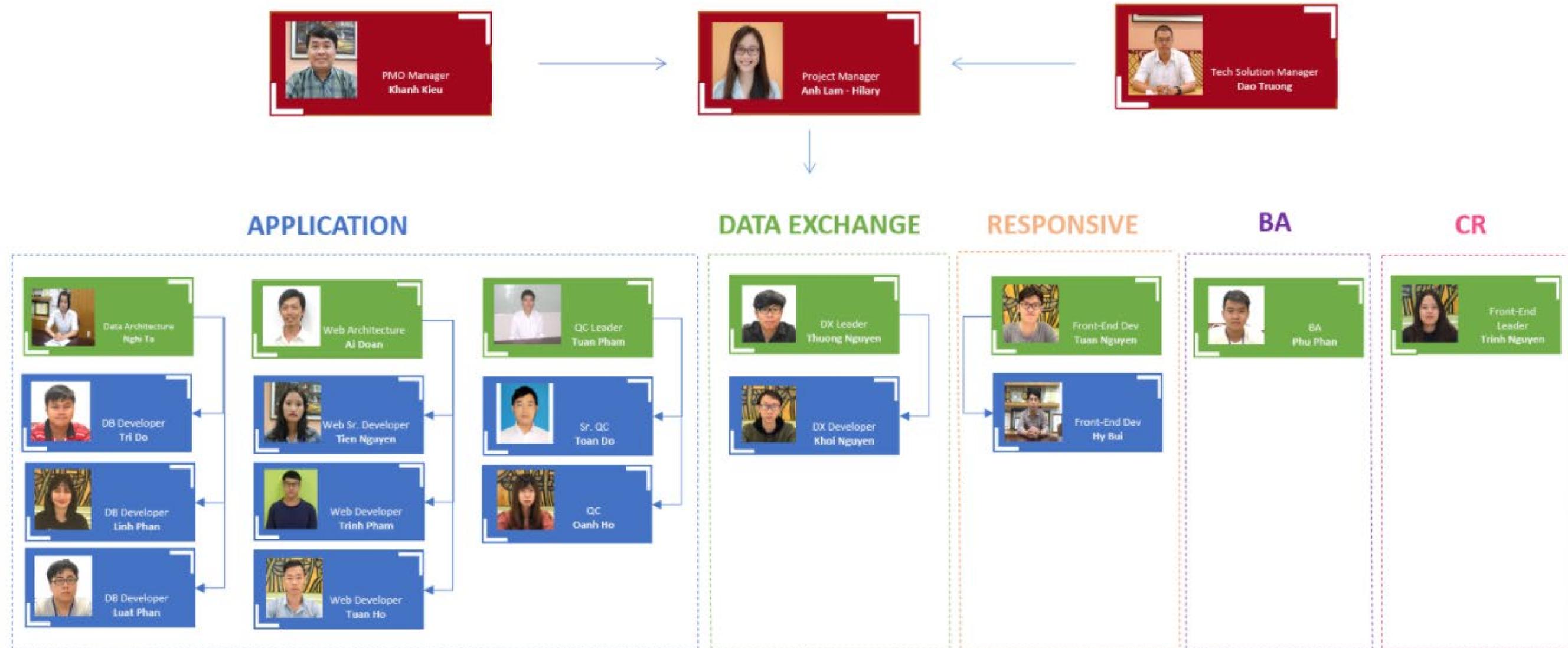
# THE TEAM



# Project Team (Roles) – CDCB – DataGene - TMA



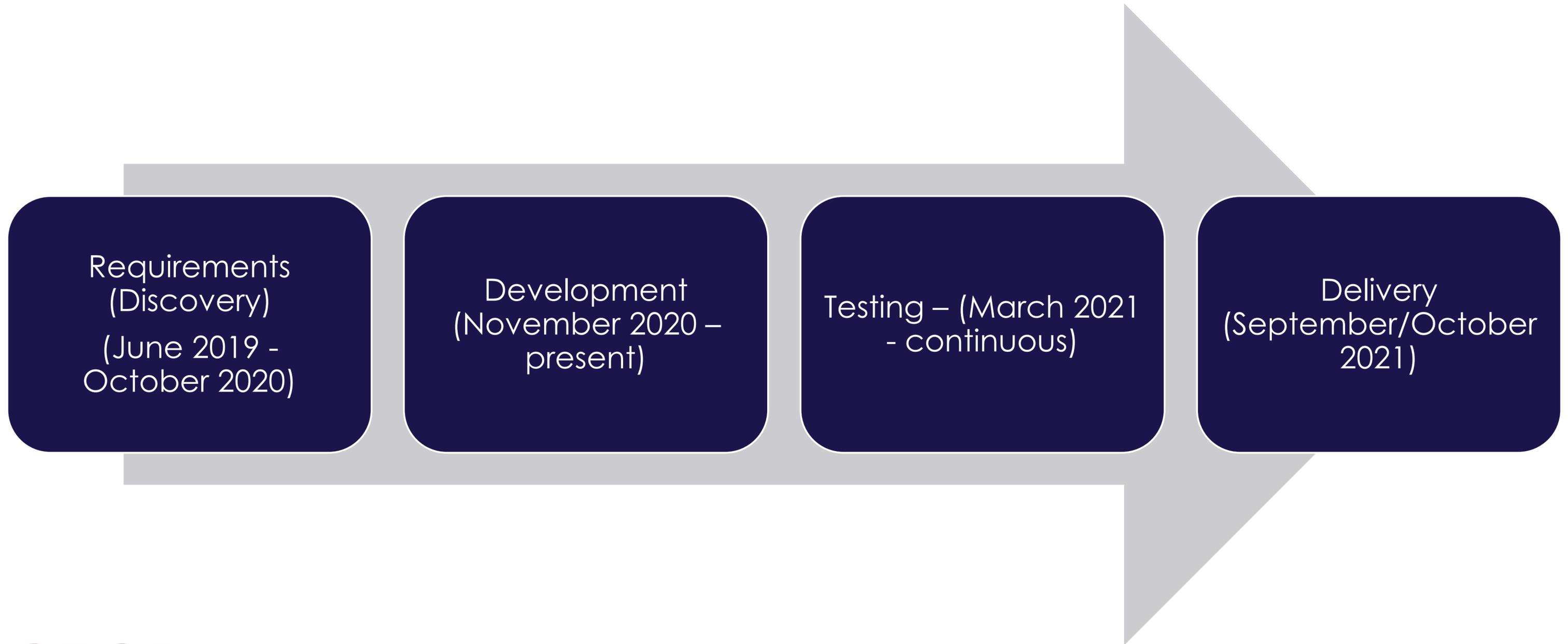
# TMA – WebConnect Project Developers



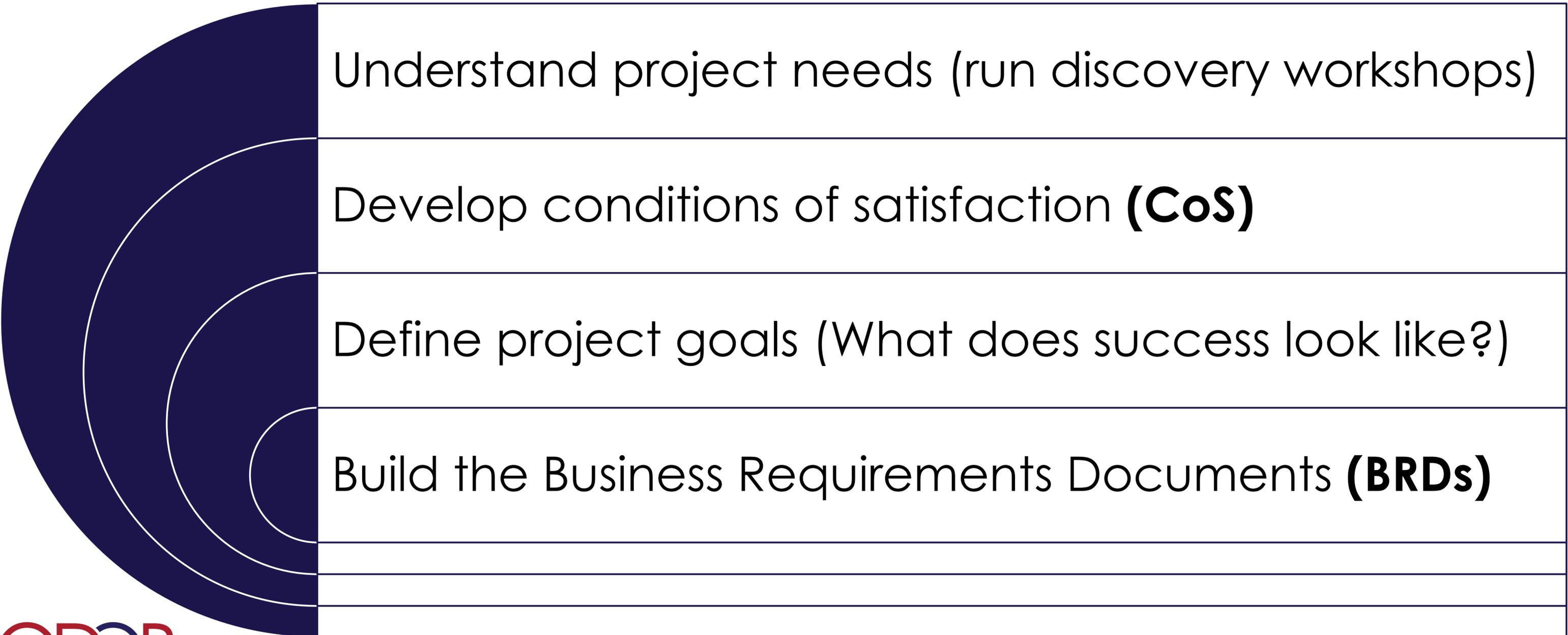
WebConnect

# PROJECT PHASES

# Project Details (Phases)



# Requirements (Discovery) – Phase 1



Understand project needs (run discovery workshops)

Develop conditions of satisfaction (**CoS**)

Define project goals (What does success look like?)

Build the Business Requirements Documents (**BRDs**)

# CoS vs BRDs

- **Conditions of Satisfaction (CoS)** – Directs the project and helps project managers keep the project on course throughout subsequent phases. Ex: workshops, pre-draft of requirements written by CDCB, playback sessions
- **Business Requirements Documents (BRDs)** – Describes in as much detail as possible the system and services required by the client. It is one of the most important artifacts of the project

# BRDs development process

- **BRD – Draft:** Used to inform the design, build and testing components of the project. It goes through a series of edits with the review process between CDCB and TMA
- **BRD – Final:** The complete and finalized version that has been signed off. Requirements are ‘locked’ in and used to set the scope of work and inform the delivery plan

# Requirements Workshop Schedule (CDCB – DataGene – TMA): CoS - Draft

April:	Task	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
<b>Remote Workshops</b>																															
14 half Days available for CDCB > DataGene Workshops from US 1pm - 4.30pm																															
Regualr standups and workshops with TMA to handover the work																															
<b>WebConnect UI / UX Mock - up</b>																															
Top Animal Listing (A)																															
Errors (B)																															
Trends & Stats / Summary Tables (B)																															
<b>Business Requirements Document</b>																															
As - Is' Queries / Code reviewed - reverse engineering commences																															
Review & Document Business Rules (reversed from Code)																															
Draft of Functional Requirements																															
<b>API / Data Interchange (DI)</b>																															
Needs case analysis																															

# BRD Edit & Review Process Cycle (TMA-DataGene – CDCB): BRD - Draft

#	BRD	Date available for 2nd review	CDCB submit edits to DataGene	Date available for CDCB 3rd review (accept additions)	CDCB send back to DG with any final changes	CDCB to Hand to Ezequiel	Approved by Ezequiel
1	ID/Pedigree	20-Aug	21-Aug	8-Sep	11-Sep	14-Sep	18-Sep
2	Errors	19-Aug	4-Sep	8-Sep	11-Sep	14-Sep	18-Sep
3	Evaluation	20-Aug	2-Sep	8-Sep	11-Sep	14-Sep	18-Sep
4	Progeny	20-Aug	3-Sep	8-Sep	11-Sep	14-Sep	18-Sep
5	Lactation	20-Aug	16-Sep	22-Sep	28-Sep	1-Oct	7-Oct
6	Herd Info	21-Aug	16-Sep	22-Sep	28-Sep	1-Oct	7-Oct
7	Top Animal Listing	21-Aug	16-Sep	22-Sep	28-Sep	1-Oct	7-Oct
8	Summary Stats	28-Aug	16-Sep	22-Sep	28-Sep	1-Oct	7-Oct
9	Master BRD incl. Admin, Security, Data Exchange, Style guide, Tools & Tech	Moving from 16th to 21 Sep	25-Sep	30-Sep	5-Oct	8-Oct	9-Oct
10	Genotype	11-Sep	6-Oct	12-Oct	14-Oct	16-Oct	23-Oct
11	Special Section	3-Sep	6-Oct	12-Oct	14-Oct	16-Oct	23-Oct
12	Goats	14-Sep	7-Oct	13-Oct	15-Oct	20-Oct	26-Oct

# BRD - Final

- CDCB approved and signed off on all BRDs in October 2020



<https://uscdcb.atlassian.net/wiki/spaces/WCP/pages/426704910/4.+Functional+Documentation>

# Development – Phase 2

Sprint Cycle

Project/Task Management Tools

Subject matters

- Queries
- UX/UI (JSON)
- Data Exchange

# Sprint Cycle

A 'Sprint' is a project-defined period within which project-specific deliverables are achieved

- **WebConnect** operates a 2-week sprint cycle

- Example:

<b>SPRINT: 17   START - END: June 28 - July 9</b>	
<b>RESPONSIVE</b>	9 <sup>th</sup> July 2021
Apply Responsive for UI of Data Exchange	
<b>DATA EXCHANGE</b>	9 <sup>th</sup> July 2021
<b>Create Format</b>	
Make cow format-105 records	
Make cow format-4 records	
Make cow format-4 records from error records	
Make cow format-5 records	
Make cow format-5 records from error records	
<b>Data Mapping for Queries in Data Exchange Only</b>	

# Project/Task Management Tools

## Atlassian tools

- **Confluence** – Repository for project documentation (BRDs)
- **JIRA** – task management tool used to track and report:
  - Tasks between CDCB-DataGene-TMA
  - Progress of work completed based on sprint cycle
  - Team schedule (monthly)

## Redmine - Project management and issue tracking tool

- Current CDCB Documentation & References
- Issue management tool (ticket system)

# Queries

Limitation of a result set of 50 records or less

Accessible for Cattle/Goat data

Offers 10 search option selections

<https://40.142.54.173/#/queries>

# User Interface (UI/UX)

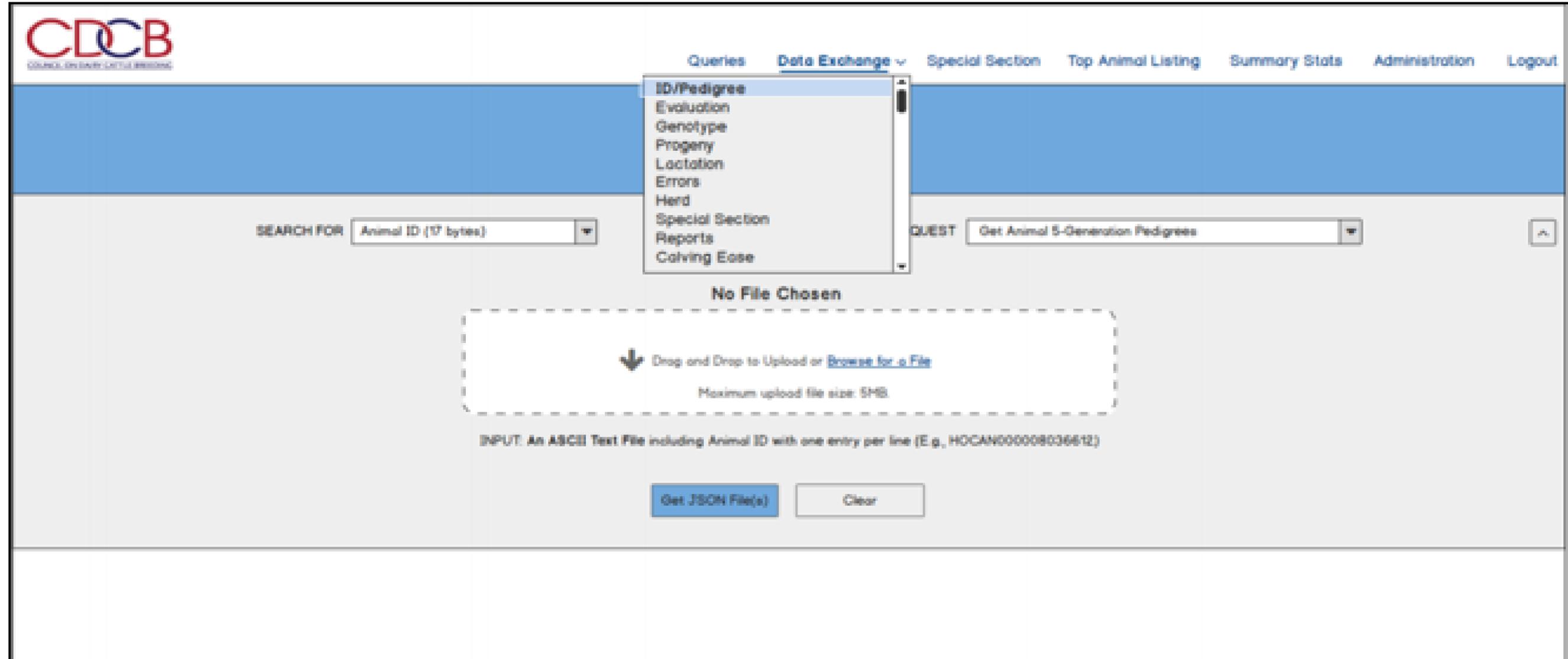
Application of an API (JSON) to allow collaborators to receive large datasets

Option of file upload (ASCII text file or JSON) – 5MB or less

Accessible for authorized users (not available to the Public)

Easy and efficient data transfer through a simple & interactive interface

# User Interface - Display



<https://40.142.54.173/#/data-exchange/id-pedigree>

# Cont'd

## ID/PEDIGREE

SEARCH FOR

API REQUEST

No File Chosen

↓ Drag and Drop to Upload or [Browse for a File](#)

Maximum upload file size: 5MB

INPUT: An ASCII Text File including Animal ID with one entry per line (E.g., HOCAN000008036612)

# User Interface – Processing Request(s) Display

ID/PEDIGREE

SEARCH FOR  API REQUEST  ^

### Data Exchange Request

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2020\_Aug\_01\_User\_Request\_03 | Total: 6

Start: 01-Aug-2020 18:00:00

Completed: 1/6

Name	Start	End	Status	
Get Animal 5-Generation Pedigrees	01-Aug-2020 18:00:00	01-Aug-2020 18:01:30	COMPLETED	
Get Animal Aliases	01-Aug-2020 18:01:30		RUNNING	
Get Animal Formatted-Pedigree Information			IN QUEUE	Cancel
Get Bull-Owner Names and Addresses			IN QUEUE	
Get Cow Herd and Cow Control Numbers from Keys or ID			IN QUEUE	
List Members of A Clonal Family			IN QUEUE	

# Data Exchange

The ability to share data with its collaborators

Provide a modern data sharing mechanism that is: Efficient, fast, scalable and robust

Return results for 2000 records per request

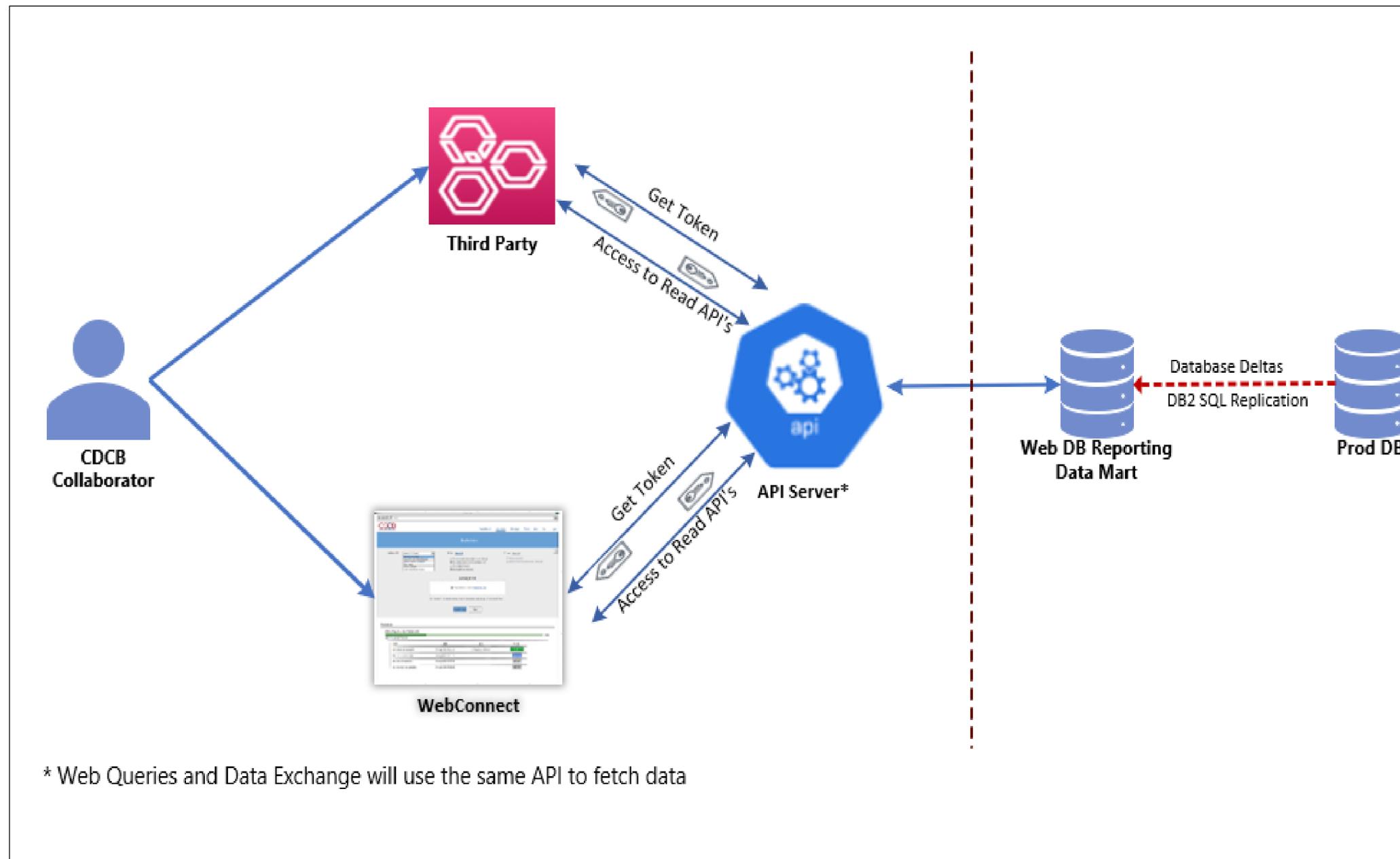
Only authorized users will be able to receive API URL(s) for access

Accessible for cattle data ONLY





# Data Exchange Model



# Testing – Phase 3

**Unit Testing** - Ensures that each component works independently of one another (developers)

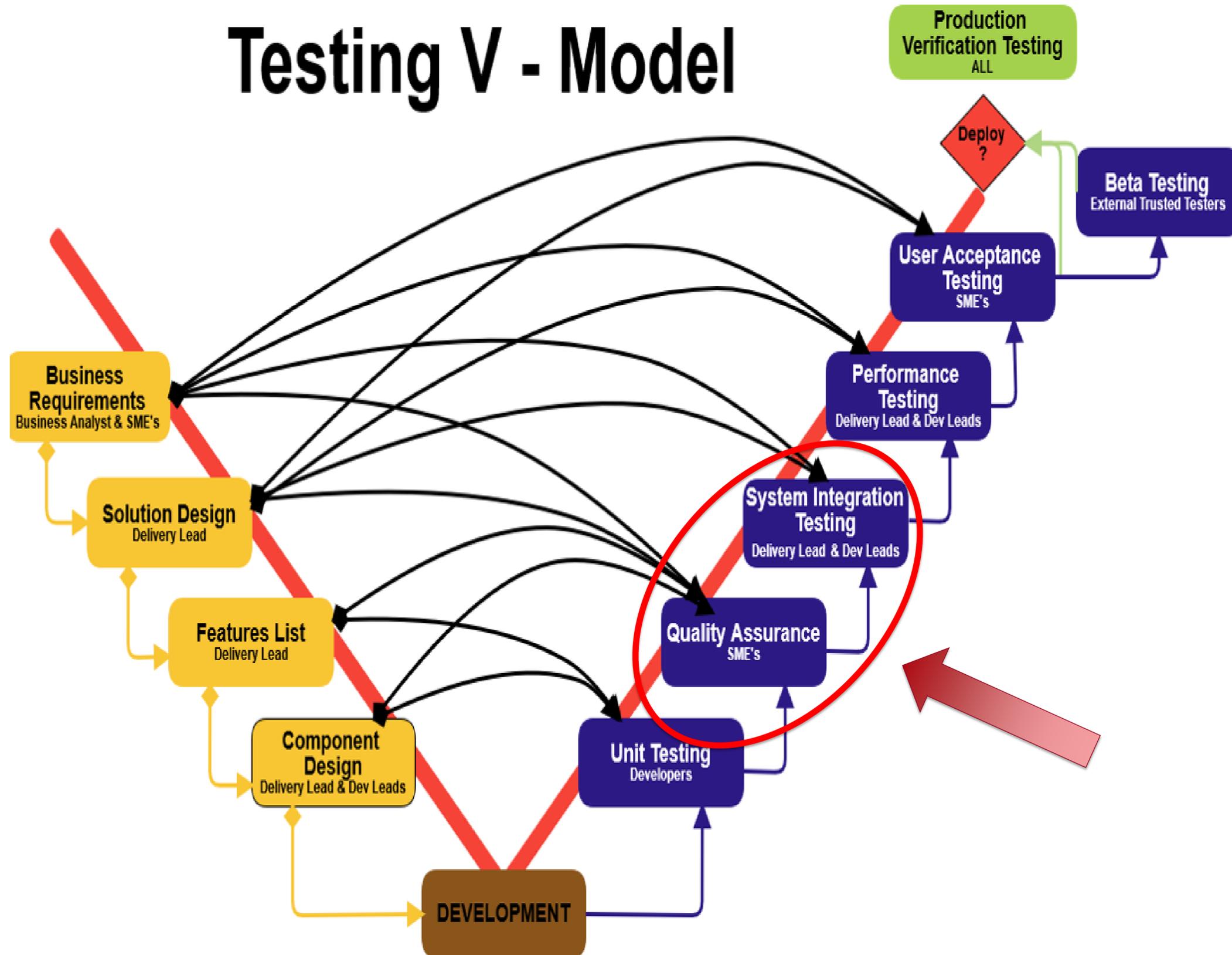
**Quality Assurance (QA)** – It is an early evaluation of quantitative and qualitative performs that provides feedback to the delivery team. Demonstrates functional delivery of a business process or workflow (SEM)

**System Integration Testing** – Verifies that common components link together correctly and that interactions between those units have no unintended consequences (Delivery & developer leads)

**Performance Testing** – Ensures that the non-functional requirements are fulfilled. This includes timeliness or speed performance, time to display information, total number of active users and other key metrics

**User Acceptance Testing** – Last phase of software testing process. Tests the software to make sure it can handle real world scenarios, according to specifications (SME)

# Testing V - Model



# Delivery – Phase 4

**UAT/Beta Testing** – CDCB will reach out to specific collaborators with previous experience of CDCB's legacy system to provide feedback on the new system in new place

**Deployment** – Final product will be moved to production and will go through a release plan

(Expected launch date of WebConnect: September/October 2021)

Thank You!