

# Origin Placement



# Contents

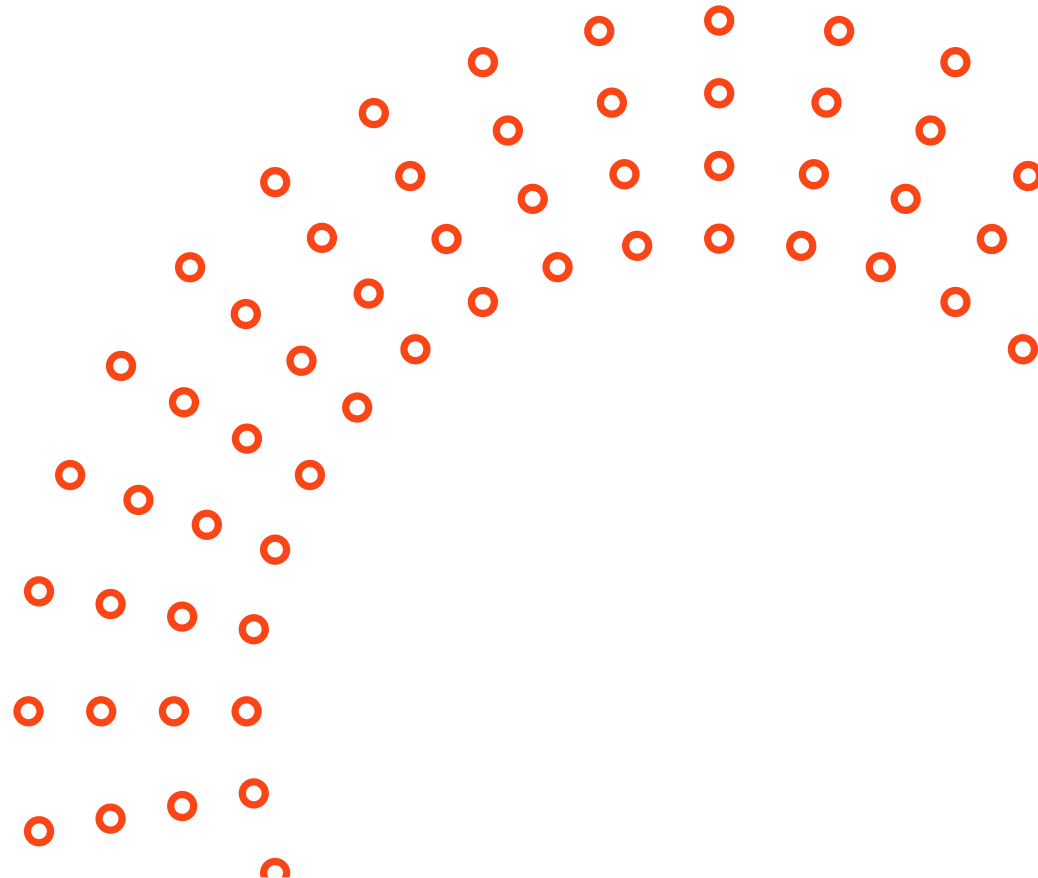
The Organisation

Individual Role

Legacy Project

Key Experiences

Final Word



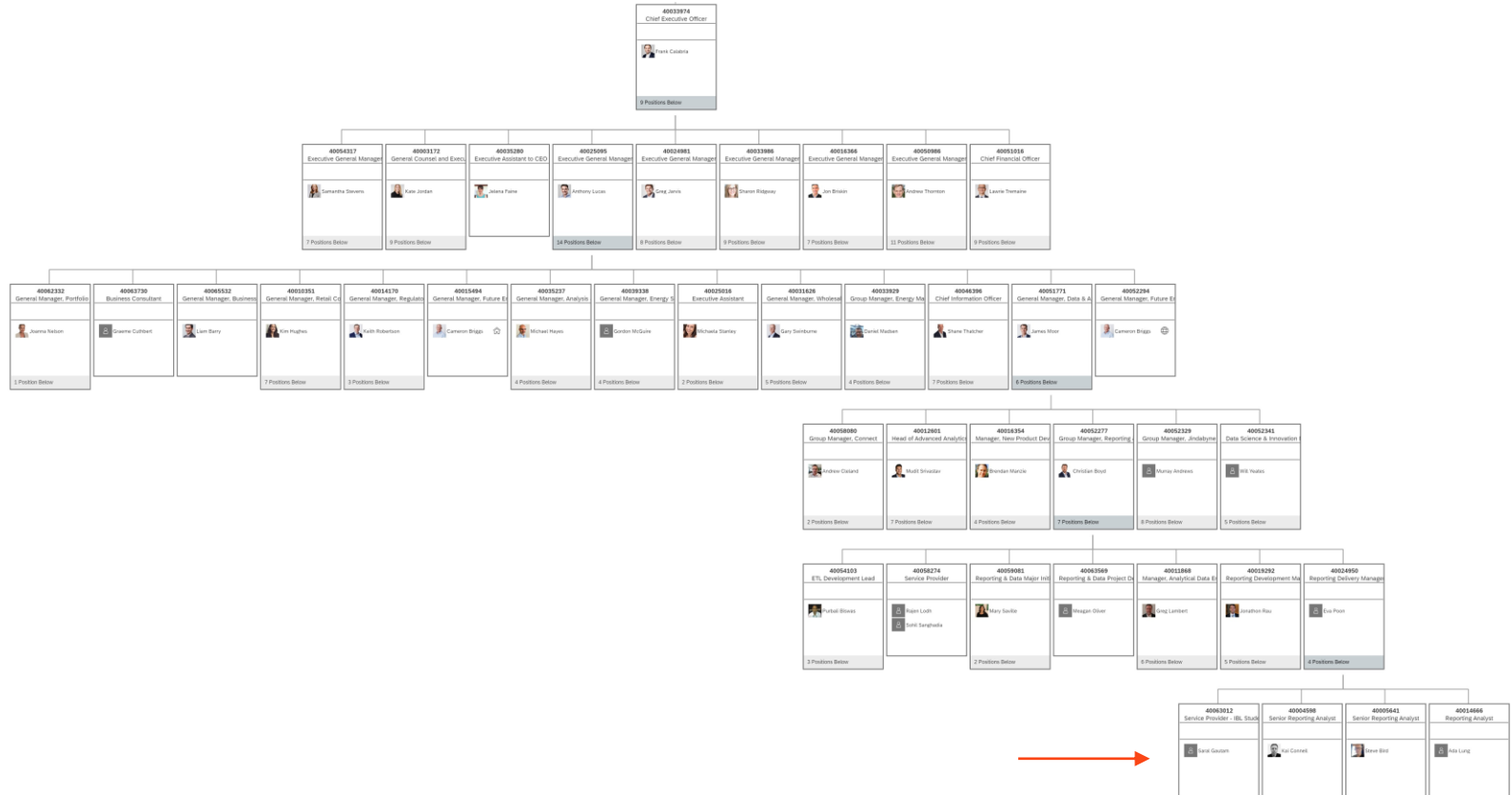
# Origin – The Organisation

## General Background:

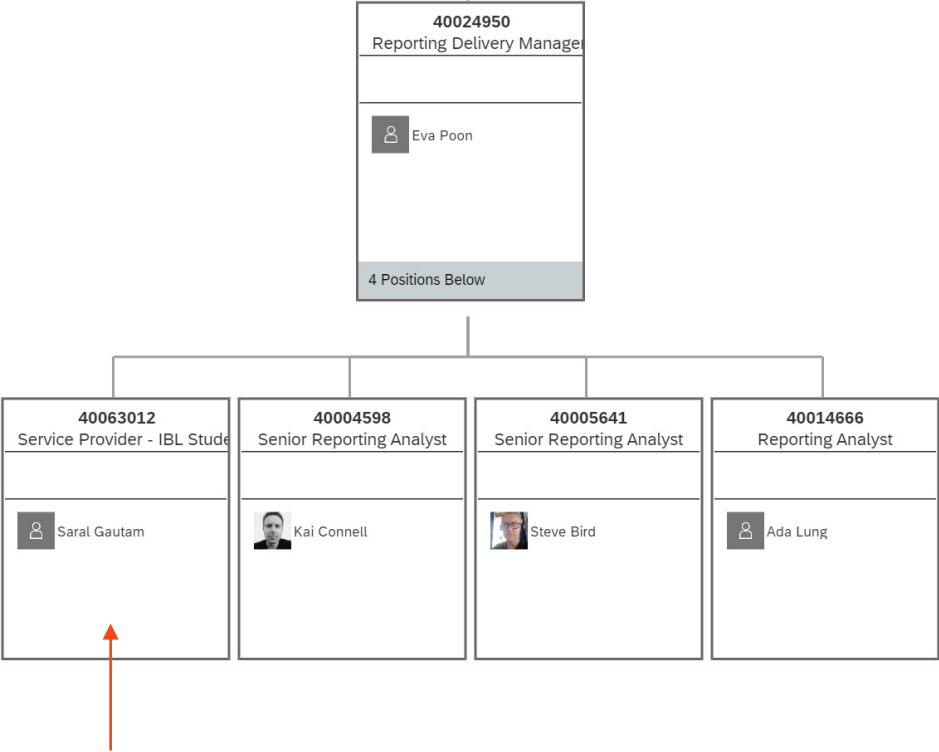
- Energy retailer and producer.
- Building a sustainable energy future.

## Data and Origin:

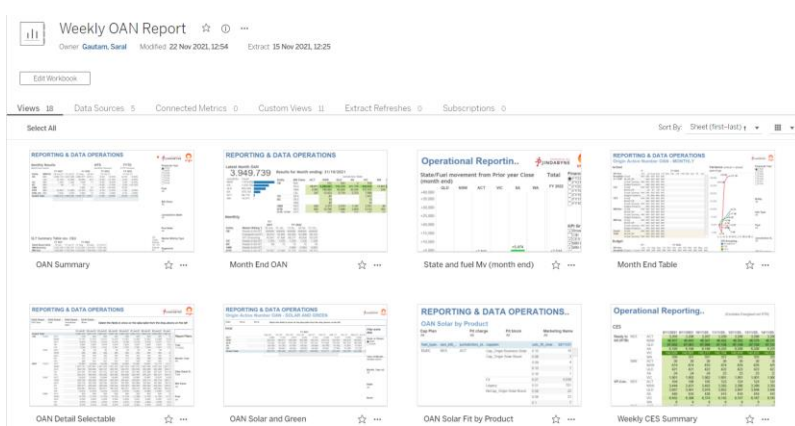
- Jindabyne – Origin's data lake.
- Tableau - Origin's data visualization tool.



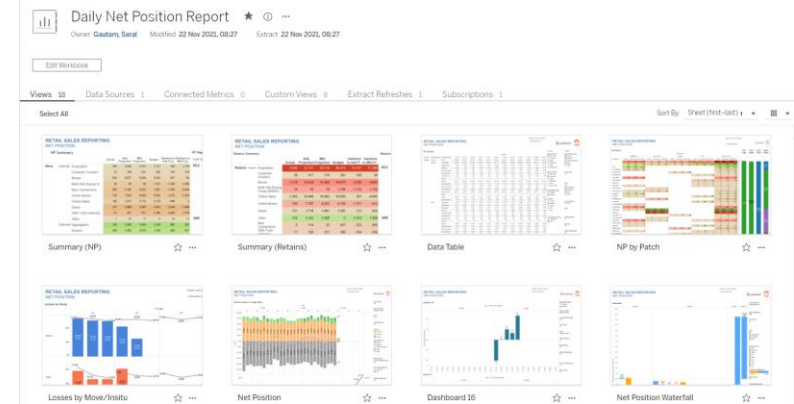
# Reporting and Data Operations



# The Individual Role

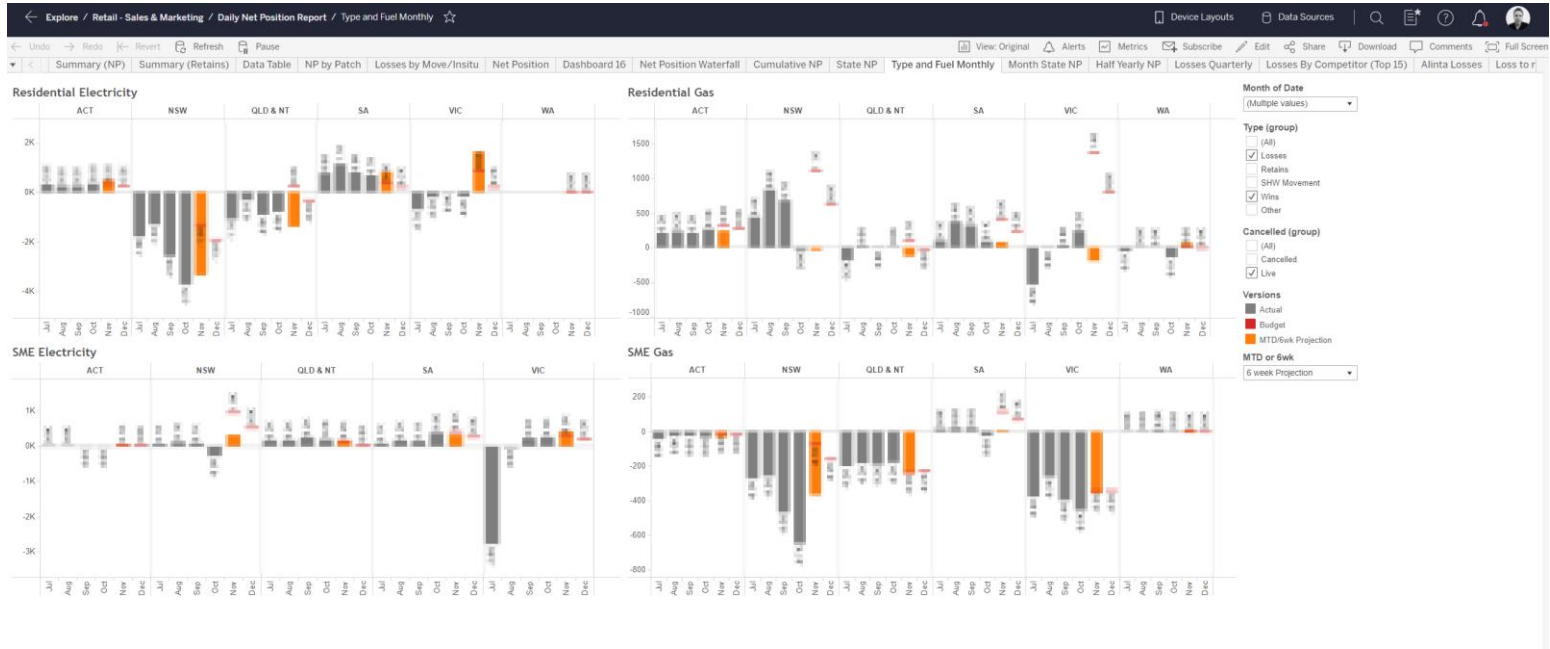


OAN (Origin Active Number)  
Total number of accounts



Net Position: Wins - Losses

# Views



# Teams

- Data Analytics
- Sustainability
- Finance, Retail Commercial
- Sales and Marketing
- Origin Retail



# Legacy Project

## Sustainability Data Capture (SDC)

# Sustainability Data Capture (SDC)

## General Background:

- Flask web application.
- Input and review results.
- Origin Sustainability Report.

# Home Page

[Sustainability](#)[Home](#)[Add/Update Result](#)[Approve Metric](#)

Welcome to the Sustainability Data Input application.

This application is for recording performance outcomes and storing the results into the Sustainability Data Store for use in external reporting.  
Please ensure metrics put into this data store are best available.

Performance notes should detail include details about any known issues with the data, significant factors or market trends affecting the outcomes, and reasons for any restatement.  
To restate data simply enter new data for the required period. Reporting outputs will present the latest entered information.

The next Sustainability report data gathering window is between: **17 Jan 2022** and **21 Jan 2022**.  
*This is the half yearly report - final metrics only.*

## ACCESS

Tableau licences and access to the reports can be requested in [IAM](#)  
Access to any parts of this application should be submitted to [Operational Reporting](#)

Browsers Supported: Chrome, Edge

The File format and instructions for uploading data in a CSV [here](#)

For technical assistance or directions please contact Kai Connell, Mary Saville, or Greg Lambert.



# Search

Metric Search


|                 |  |
|-----------------|--|
| Executive Owner |  |
| Metric Approver |  |
| Data Steward    |  |
| Metric ID       |  |
| Metric          |  |

Upload a file

Clear

Search


# Searched Metric

 Sustainability

Home

Add/Update Result

Approve Metric



Metric Search

|                    |  |
|--------------------|--|
| Executive Owner    | Jarvis, Greg   |
| Metric Approver    | Bill Renshaw   |
| Data Steward       | Koh, Zi Ying   |
| Metric ID          | BIOEM_02   |
| Metric             | Number of operating sites exposed to biodiversity risks (as identified in metric BIOEM_01) with biodiversity management plans in place   |
| Scope              | Energy Markets   |
| Aspect             | Biodiversity   |
| Definition         | Number of sites exposed to biodiversity risks = result reported in metric BIOIG_01 'biodiversity management plans' = documented plans to managed the impact or potential impact of Origin's activities on biodiversity. 'In place' = plans are current |
| Measurement Method | None   |
| Unit               | #  |

Clear

New Result

| Year | Month | Result | Notes |
|------|-------|--------|-------|
| 2021 | Jun   |        |       |

Save

History

<< 1 of 2 >>

| Year | Month | Result | Notes | Status   |
|------|-------|--------|-------|----------|
| 2021 | Jun   | 45.0   | Testg | Approved |
| 2021 | Jun   | 24.0   | Test  | Pending  |
| 2021 | Jun   | 23.0   | test  | Pending  |
| 2021 | Jun   | 3.0    | test  | Pending  |
| 2021 | Jun   | 3.0    | test  | Pending  |
| 2021 | Jun   | 5.0    | Test  | Pending  |
| 2021 | Jun   | 24.0   | Test  | Pending  |
| 2021 | Jun   | 3.0    | t     | Pending  |
| 2021 | Jun   | 3.0    | test  | Pending  |
| 2021 | Jun   | 8.0    | Test  | Pending  |

# Approval Page

| Metric Details  |         |
|-----------------|---------|
| Executive Owner |         |
| Metric Approver |         |
| Data Steward    |         |
| Status          | Pending |

Clear

Search

# Approval Page

[Sustainability](#)[Home](#)[Add/Update Result](#)[Approve Metric](#)

## Metric Details

**Executive Owner****Metric Approver****Data Steward****Status** Pending[Clear](#)[Search](#)[Approve All](#)

## Pending

&lt;&lt; 1 of 1 &gt;&gt;

| ID       | Metric  | Year | Month | Notes | Result | Approver | Contributor  | Action |
|----------|---|------|-------|-------|--------|----------|--------------|--------|
| BIOEM_01 | Total number of operating sites exposed to biodiversity risk with a maximum potential exposure rating of high and above according to the Origin Risk Matrix | 2021 | Jun   | test  | 56.0   | None     | OCNIGautamS1 | ✓ ?    |
| BIOEM_01 | Total number of operating sites exposed to biodiversity risk with a maximum potential exposure rating of high and above according to the Origin Risk Matrix | 2021 | Jun   | Test  | 45.0   | None     | OCNIGautamS1 | ✓ ?    |
| BIOEM_01 | Total number of operating sites exposed to biodiversity risk with a maximum potential exposure rating of high and above according to the Origin Risk Matrix | 2021 | Jun   | Test  | 34.0   | None     | OCNIGautamS1 | ✓ ?    |
| BIOEM_01 | Total number of operating sites exposed to biodiversity risk with a maximum potential exposure rating of high and above according to the Origin Risk Matrix | 2021 | Jun   | Test  | 21.0   | None     | OCNIGautamS1 | ✓ ?    |

# Key Experiences



# Backstory

- Retrieve username without login prompt.
- Make application more user friendly.
- Very specific coding problem.

# Workflow: Search, try and fail.

The screenshot shows a Google search interface. The search bar contains the text "how to retrieve username flask". Below the search bar, there are tabs for "All", "Images", "Shopping", "Videos", "News", and "More". The search results show "About 92,000,000 results (0.54 seconds)". The first result is a link to a Stack Overflow question titled "How to get current user when implementing Python Flask ...". The second result is a link to a Stack Overflow answer titled "Get the user id in flask - Stack Overflow". Below the search results, there is a section titled "People also ask" with two questions: "How do I find my Flask username?" and "How do I find an anonymous member on a Flask?".

Google

how to retrieve username flask

All Images Shopping Videos News More Tools

About 92,000,000 results (0.54 seconds)

<https://stackoverflow.com/questions/how-to-get-current-user-when-implementing-python-flask>

**How to get current user when implementing Python Flask ...**

13 Oct 2017 · 4 answers

You can use `flask_login.current_user` object. Its class will be what you configured `Flask-Security` to use to handle your users management, ...

<https://stackoverflow.com/questions/get-the-user-id-in-flask>

**Get the user id in flask - Stack Overflow**

1 Nov 2018 · 1 answer

You could save the `user_id` in the app context using "g": `from flask import g if current_user.is_authenticated(): g.user ...`

People also ask

How do I find my Flask username?

How do I find an anonymous member on a Flask?

## Problems?

- Time-consuming
- No progression to solution

“It is already there”

“Where?”

“The documentation”

property **range**: *Optional*[[werkzeug.datastructures.Range](#)]

The parsed *Range* header.

► *Changelog*

Return type: [Range](#)

## referrer

The Referer[sic] request-header field allows the client to specify, for the server's benefit, the address (URI) of the resource from which the Request-URI was obtained (the “referrer”, although the header field is misspelled).

## remote\_addr

The address of the client sending the request.

## remote\_user

If the server supports user authentication, and the script is protected, this attribute contains the username the user has authenticated as.

# Search

Metric Search

|                 |  |
|-----------------|--|
| Executive Owner |  |
| Metric Approver |  |
| Data Steward    |  |
| Metric ID       |  |
| Metric          |  |

Upload a file

Clear

Search

## data

Type: [PlainObject](#) or [String](#) or [Array](#)

Data to be sent to the server. If the HTTP method is one that cannot have an entity body, such as GET, the `data` is appended to the URL.

When `data` is an object, jQuery generates the data string from the object's key/value pairs unless the `processData` option is set to `false`. For example, `{ a: "bc", d: "e,f" }` is converted to the string `"a=bc&d=e%2Cf"`. If the value is an array, jQuery serializes multiple values with same key based on the value of the `traditional` setting (described below). For example, `{ a: [1,2] }` becomes the string `"a%5B%5D=1&a%5B%5D=2"` with the default `traditional: false` setting.

When `data` is passed as a string it should **already be encoded** using the correct encoding for `contentType`, which by default is `application/x-www-form-urlencoded`.

In requests with `dataType: "json"` or `dataType: "jsonp"`, if the string contains a double question mark (`??`) anywhere in the URL or a single question mark (`?`) in the query string, it is replaced with a value generated by jQuery that is unique for each copy of the library on the page (e.g. `jQuery21406515378922229067_1479880736745`).



## Metric Search

|                 |                   |
|-----------------|-------------------|
| Executive Owner |                   |
| Metric Approver | Jarvis, Greg      |
| Data Steward    | Schubert, Mark    |
| Metric ID       | Rice, Peter       |
| Metric          | Unassigned        |
|                 | Jon Briskin       |
|                 | Briskin, Jon      |
|                 | Tremaine, Lawrie  |
|                 | Brice, Jennifer   |
|                 | Ridgway, Sharon   |
|                 | Stevens, Samantha |
|                 | Jordan, Kate      |
|                 | Barrett, Sean     |
|                 | Hatton, Stuart    |

# Read the documentation

Saves time and progressively approach a solution.

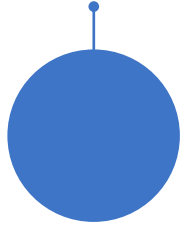


# Origin and Users

Common phrases for the reporting team:

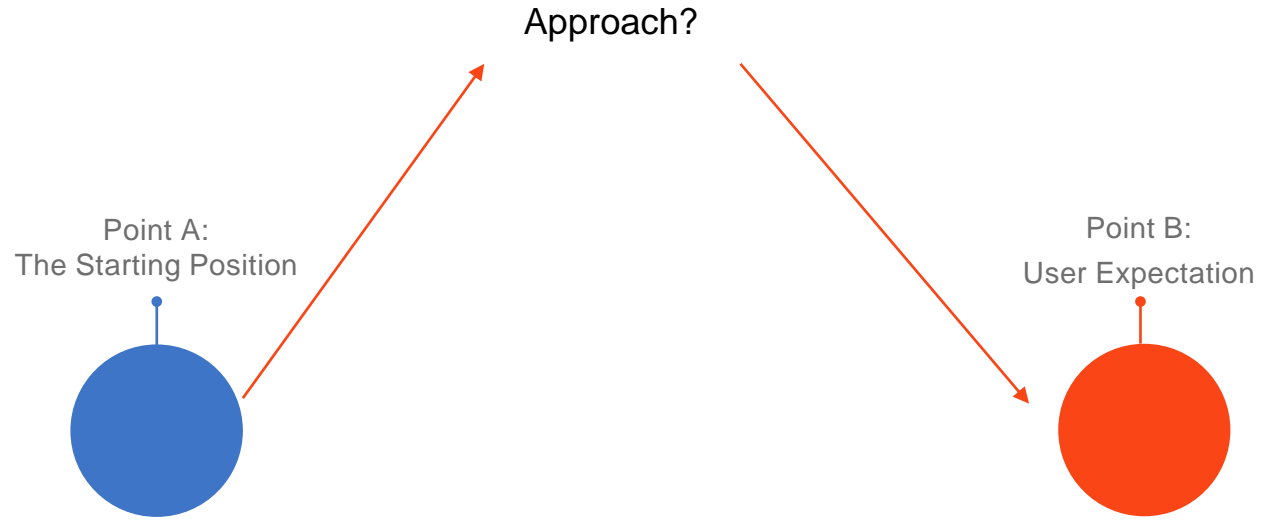
- “Can you make a view that can show me...?”
- “Can this data source be filtered by ...?”
- “Is it possible to ...?”
- “Can we add...?”

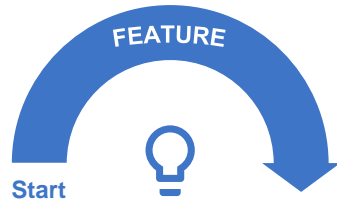
Point A:  
The Starting Position



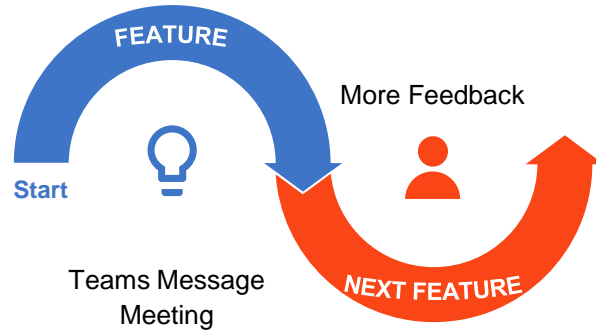
Point B:  
User Expectation

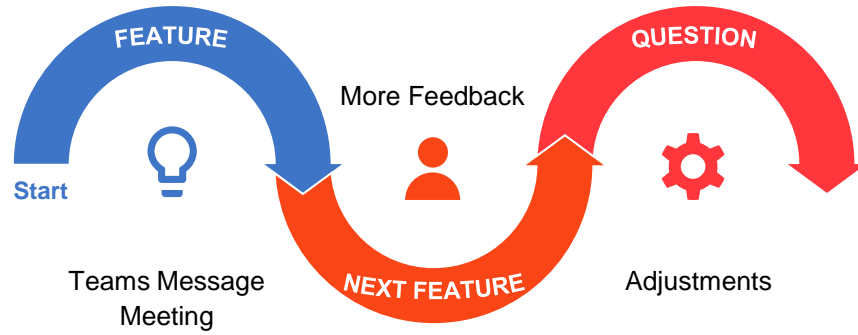


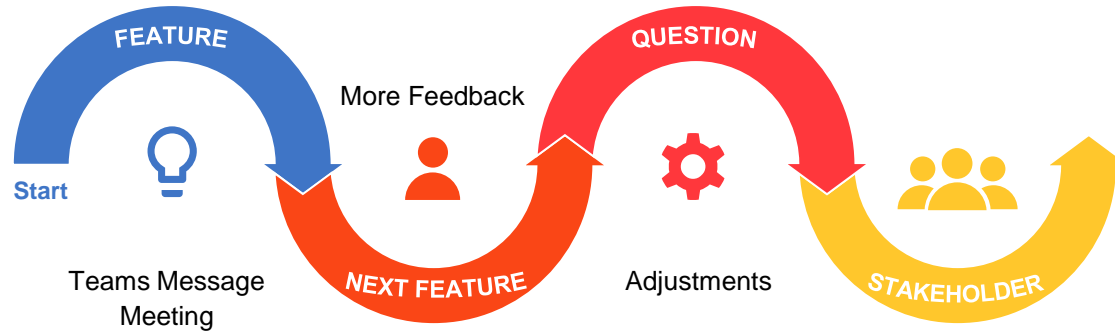


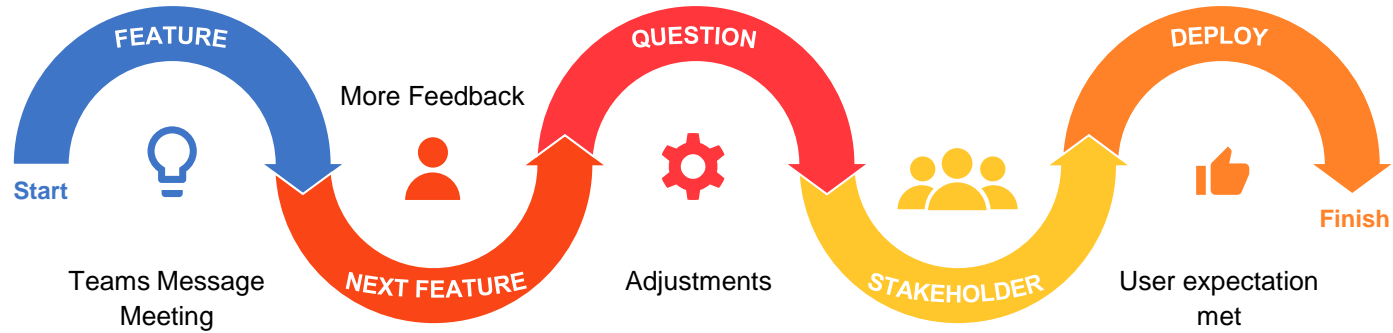


Teams Message  
Meeting



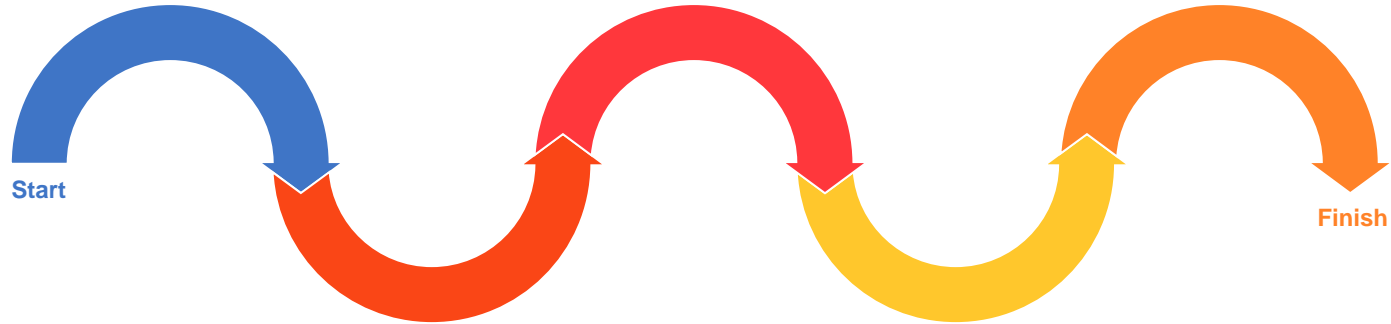








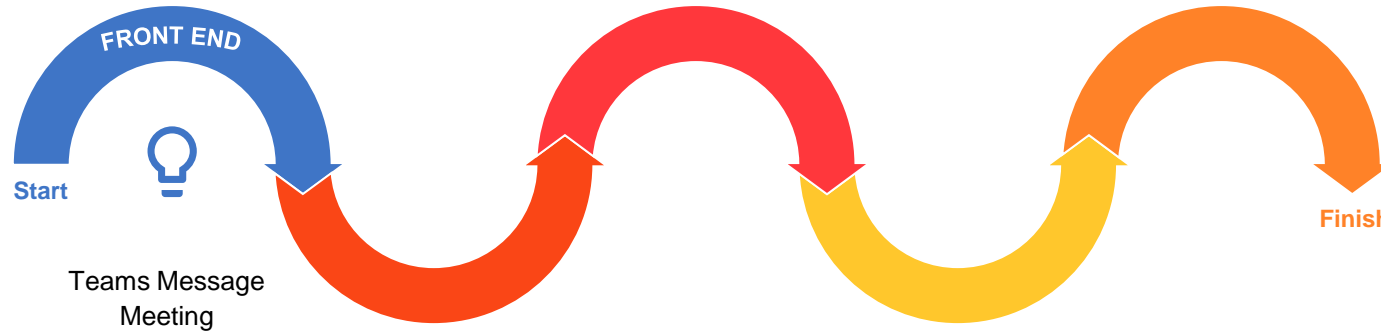
# Sustainability Workflow



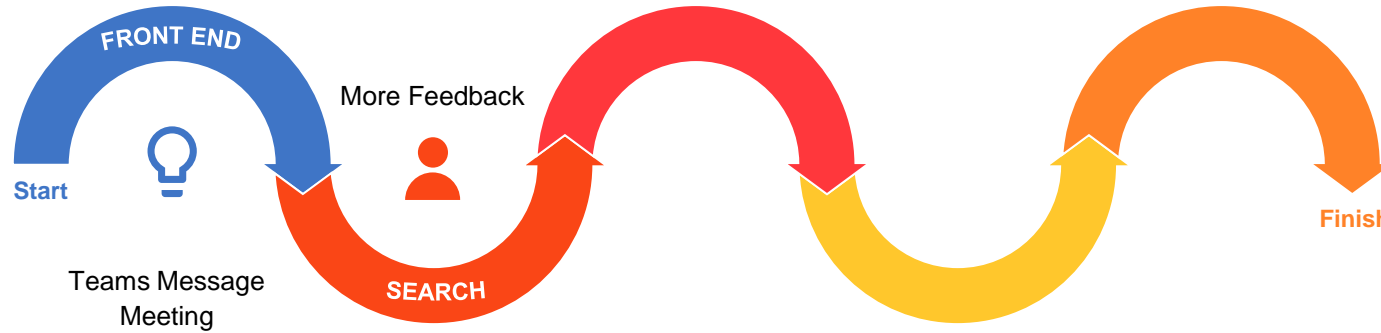
# Point B

| Requirement   | MoSCoW | Notes  | Status       | Delivered | Comments  |
|---|--------|--|--------------|-----------|---|
| Ability to trace any changes to metrics and metric value    | Must   | Audit capability                                 | In Scope     |           | Can be developed  |
| Ability to upload multiple metrics via a spreadsheet        | Should |  | Complete     | Y         | Clearly this is separate to the Front End - CSV upload must be very structured.   |
| Ability to search by metric ID                              | Should |  | In Scope     |           | Easy to deliver   |
| Ability to search by metric name                            | Must   |  | In Scope     |           | Easy to deliver   |
| Ability to search by metric owner                           | Must   |  | In Scope     |           | Easy to deliver   |
| Ability to record new metric result per year                | Must   |  | Complete     | Y         |   |
| Ability to record change metric result for certain period   | Must   |  | In Scope     |           | Easy to deliver   |
| Ability to create new metric                                | Must   |  | Complete     | Y         |   |
| Ability to have multiple data sources with metrics          | Could  | Pull in to OCIS or collate in Jindabyne data set | Out of scope | N         |   |
| Ability to calculate metrics                                | Must   |  | Complete     | Y         | Delivered in reporting layer based on user specified calcs.   |
| Ability to pull up all metrics via owner                    | Should |  | In Scope     |           | Easy to deliver   |
| Automated emails for review and sign off to metric owners   | Could  |  | Out of scope | N         | Recommend using Tableau alerts.   |
| Dashboard capability  | Must   | Could be feed to Jindabyne data set              | Complete     | Y         | Live to the data  |
| Data Capture for all Monthly Sustainability Metrics         | Must   | Some metrics are on different capture cycles     | Complete     | Y         |   |
| Data Capture for all Quarterly Sustainability Metrics       | Must   | Some metrics are on different capture cycles     | Complete     | Y         |   |
| Data Capture for all Annually Sustainability Metrics        | Must   | Some metrics are on different capture cycles     | Complete     | Y         |   |
| Lock metric values once reviewed and approved and completed | Must   | Met by limited Users get Approver function.      | In Scope     |           | For a measure and period " <b>entered</b> , <b>reviewed</b> and <b>approved</b> " With finite Approvers linked to each measure NO ' <b>locking</b> ' capability required. |
| Review, approval and sign off capability                    | Must   | Multiple approval and review steps required      | In Scope     |           | Would this be met by ONLY the Metric Owner/s (as identified by their Login) being able to set status to <b>Approved</b>   |

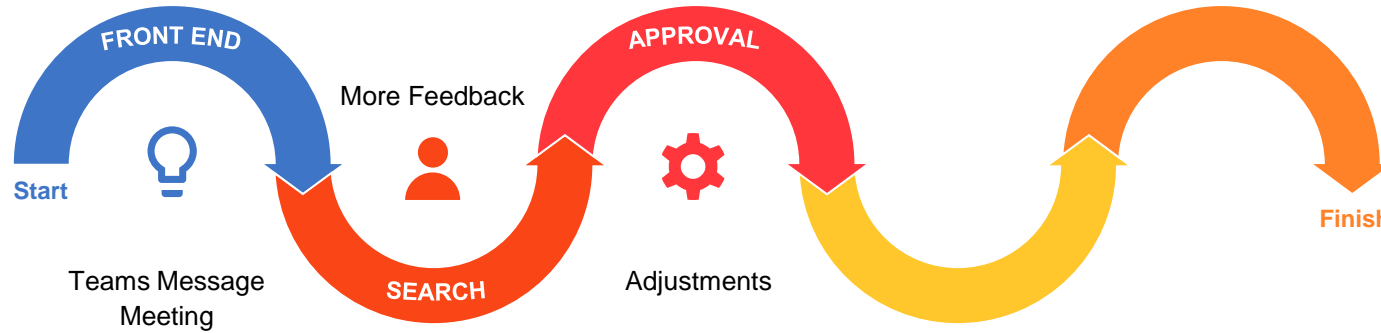
# Sustainability Workflow



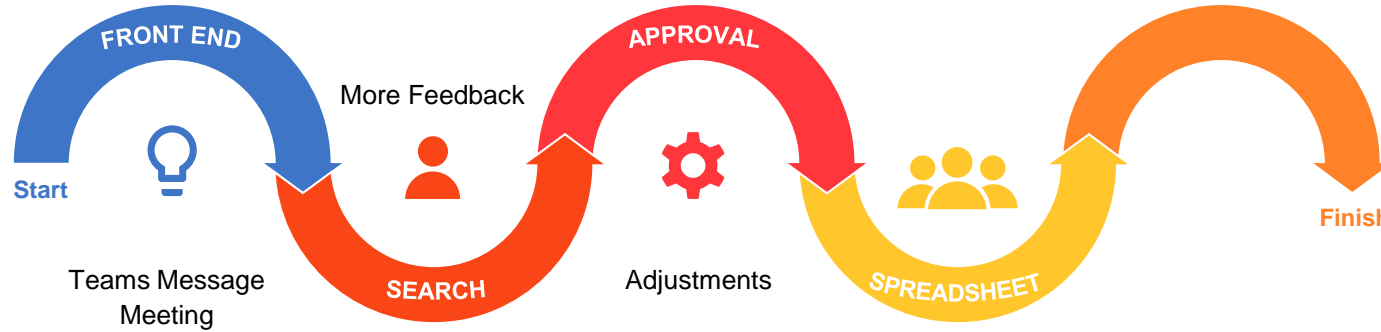
# Sustainability Workflow



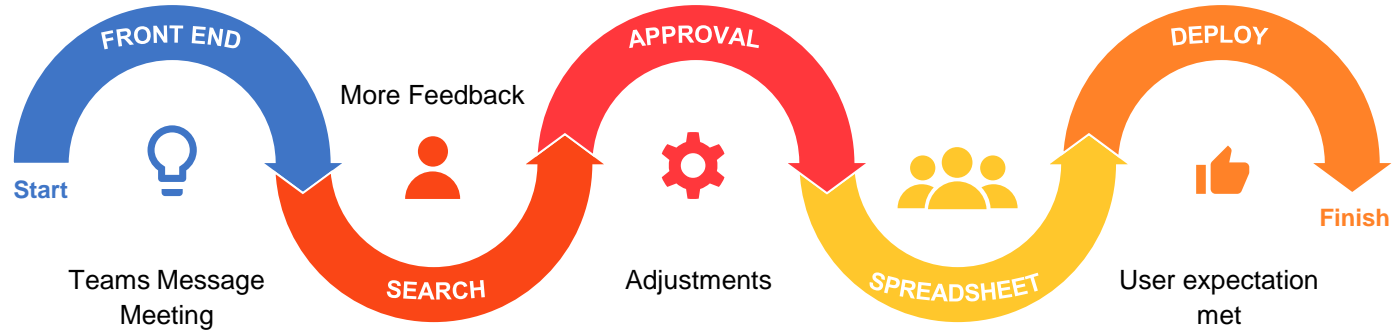
# Sustainability Workflow



# Sustainability Workflow



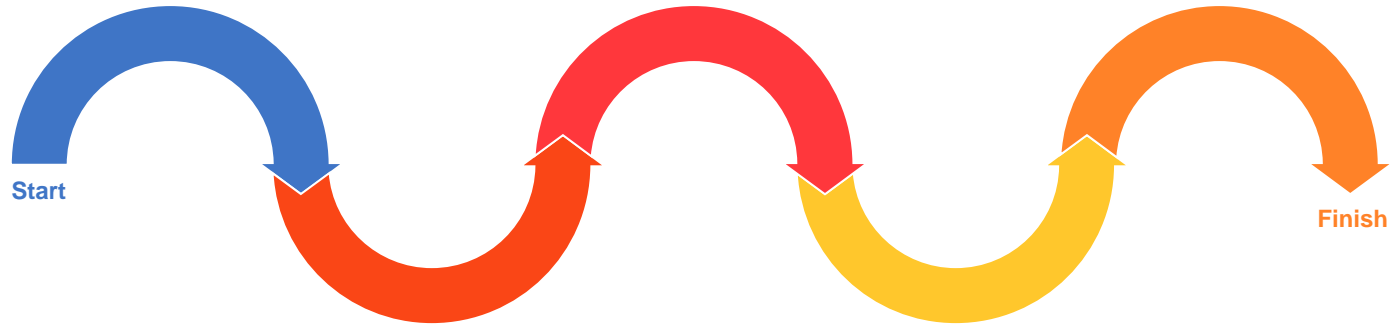
# Sustainability Workflow



# Targeted Questions

Reach Point B without a path from Point A.





# Structure your code


What is it?

```

1 from app.index import indexlist_bp
2 from app.addmetric.models import Metric, executive_owner, metric, metric_approver, metric_uid, data_steward
3 from flask import render_template, redirect, url_for, request, session, flash
4 from app.index.forms import SearchMetric
5 from app import db
6 @indexlist_bp.route('/index', methods=['GET', 'POST'])
7 def indexlist():
8     form = SearchMetric()
9     if request.method == 'GET' or form.clear.data:
10         return render_template(
11             'index.html',
12             executive_list= list(map(executive_owner, db.session.query(Metric).distinct(Metric.executive_owner).all())),
13             metric_approver_list = list(map(metric_approver, db.session.query(Metric).distinct(Metric.metric_approver).all())),
14             data_steward_list = list(map(data_steward, db.session.query(Metric).distinct(Metric.data_steward).all())),
15             metric_uid_list = list(map(metric_uid, db.session.query(Metric).distinct(Metric.metric_uid).all())),
16             metric_list = list(map(metric, db.session.query(Metric).distinct(Metric.metric).all()))
17         )
18
19
20 elif request.method == 'POST' and (form.metric_uid.data == '' and form.metric.data == '') :
21     all_filtered = Metric.query.distinct(
22         Metric.data_steward,
23         Metric.executive_owner,
24         Metric.metric_approver
25     )\
26     .filter(
27         Metric.executive_owner.ilike('%' + form.executive_owner.data.lower().strip() + '%'),
28         Metric.metric_approver.ilike('%' + form.metric_approver.data.lower().strip() + '%'),
29         Metric.data_steward.ilike('%' + form.data_steward.data.lower().strip() + '%')
30     ).all()
31     return render_template(
32         'index.html',
33         executive_list = list(set(map(executive_owner, all_filtered))),
34         executive owner value = form.executive owner.data,

```

```
1 from app.addmetric.functions import metric_search_query, index_search_filtering
2 from app.index import indexlist_bp, indexsearch_bp
3 from flask import render_template, redirect, url_for, jsonify
4 from app.index.forms import SearchMetric
5 from app import db
6
7 @indexlist_bp.route('/index', methods=['GET', 'POST'])
8 def indexlist():
9     form = SearchMetric()
10    if form.search.data and (form.metric.data or form.metric_uid.data):
11        return redirect(url_for('clone_bp.clonemetric', met_id= metric_search_query(form), page = 1))
12    else:
13        return render_template('index.html')
```

 functions.py

# Code Structuring

- Easier debugging
- Easier to read
- Removes need for commenting

# Structure your code

Make changes faster.

# Reverse Side

| Technical              | Soft                               |
|------------------------|------------------------------------|
| Read the documentation | Asking for help when needed        |
| Targeted Questions     | Involve the user                   |
| Structuring code       | Receiving and acting upon feedback |

# Soft Skills

Direct your technical focus.



# Final Say

- More knowledgeable.
- Aware of career opportunities.
- Learnt industry standard.
- Had a great time working.

# Thanks for listening