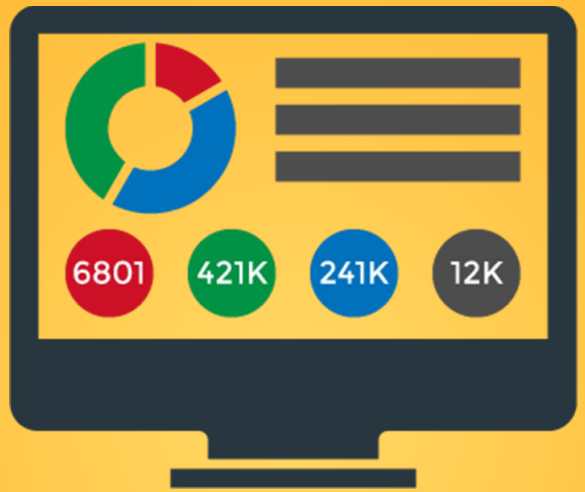


DashDock

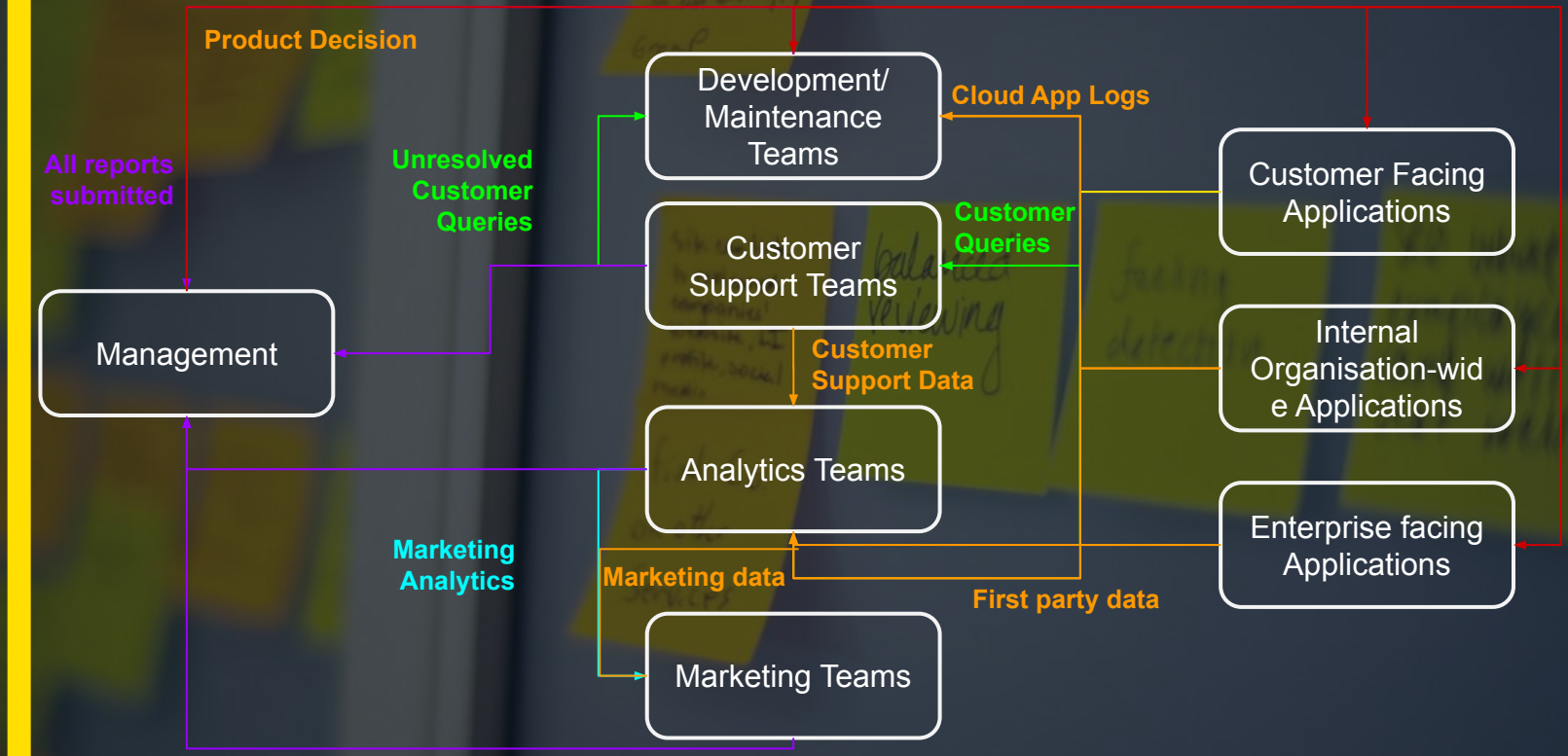
On Demand AI-based Analytics Dashboard

The Problem:

Business Intelligence and Analytics is a mess.

- In most companies, data is highly fragmented and comes in from multiple sources including most cloud services which generate a very high number of raw logs. This makes data collection and preprocessing a headache for most analytics teams in companies.
- The opportunity cost for manual analytics reports is too high and no BI tools are good enough to match the flexibility and power of programming languages. Since in most organisation meetings PPTs are human-made there is the issue of non-real time reports at key decision making moments.
- Mostly human driven report making systems have inherent biases and also are looking for specific things and hence you may miss out on hidden insights that your data has to offer
- Migration cost between BI Tools is very high as it involves getting software licenses, employee retraining and cloud/on-site server costs.

Standard workflow in Tech companies



A recent survey carried out by Matillion asked over 10,000 senior executives and decision-makers one important question: 'What is your biggest management information challenge?'

35.8%
Delivering self-service reporting/analysis

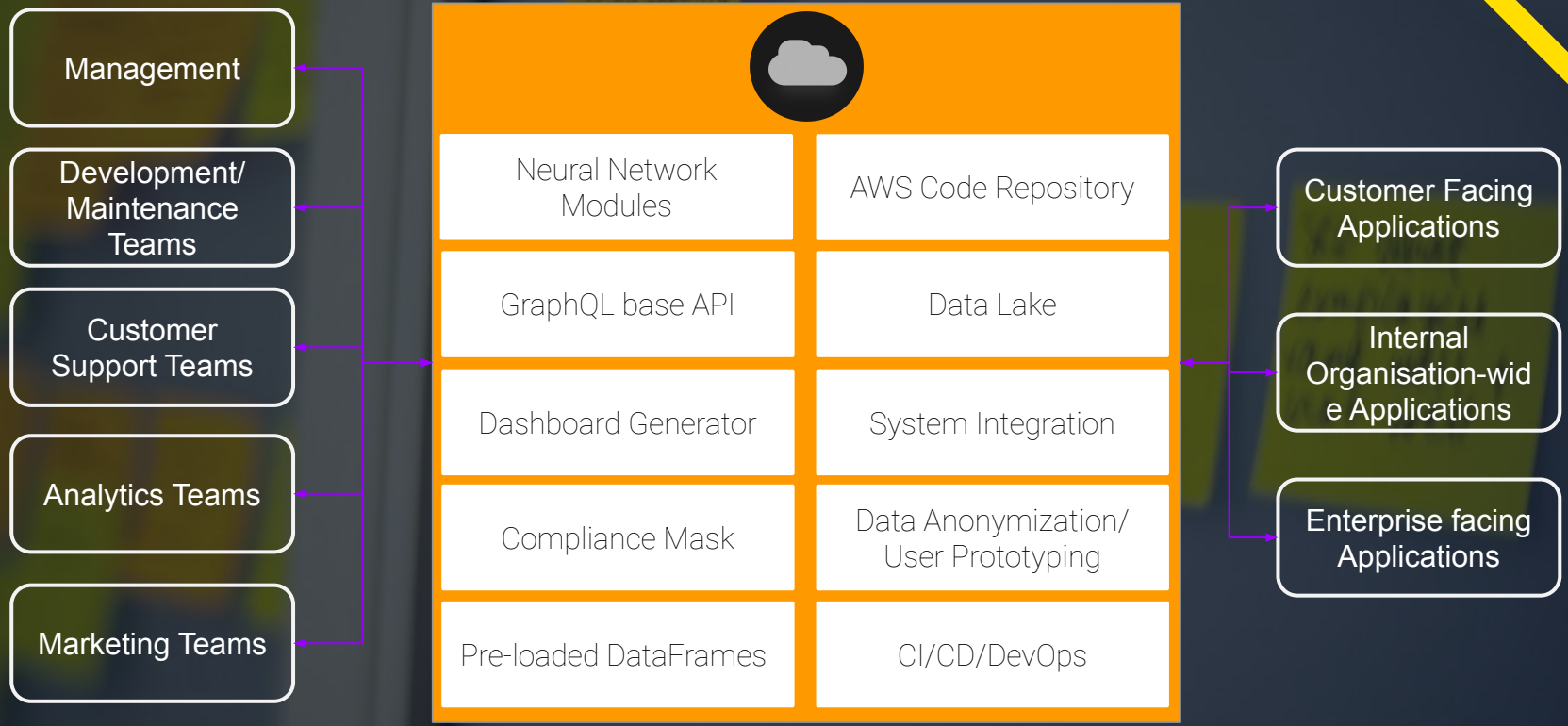
27.4%
Reporting/analysing across multiple systems

17%
Unlocking data buried in systems

Solution & Walkthrough

- To build a cloud-based platform that provides a drag and drop type customizable environment to build analytics dashboards that are shareable to multiple teams/ individuals.
- Using the **Google Slides API** we will also be converting them into comprehensive reports.
- The platform will have an inbuilt set of data which we will obtain from multiple sources that the system operations admin will put into our platform. The person will enter in a simple formula into the dashboard that we will then convert into plots and consequently into a full dashboard.
- Depending on the product, the data we aggregate will be converted into anonymized user prototypes which will just make life easier for everyone involved in studying the product's users. **For this we will be using noise generating machine learning models.**
- Apart from that our neural network models will be used to find correlations between features of usage data, thus resulting in **many new non-linear dependencies** that may have gone undiscovered.

Solution Components



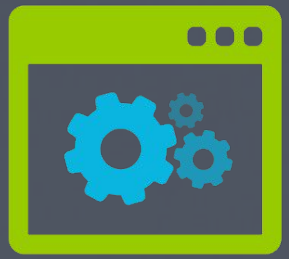
Advantages

On Demand

You need not pay for the software when you are not using it and it scales to match the demand for each products usage.

Consolidating

Your data lake is maintained in compliance with the government regulation of the particular geography simply eliminating unallowed data at user level, so bye bye Software Compliance Updates.



Fully Automated

The dashboard is generated dynamically from the available metrics and formulae of compound metrics needed to be tracked and will also be able to generate PPTs automatically

- You need not pay for the software when you are not using it and it scales to match the demand for each products usage.

- Your data lake is maintained in compliance with the government regulation of the particular geography simply eliminating unallowed data at user level, so bye bye Software Compliance Updates.

- A single GraphQL API that contains all features from a particular set of products and converts them into hot data that can then be used to build interactive dashboards.

Technology Stack


AWS Lambda


Keras


Tensorflow


Flask


NodeJS


MongoDB


AWS EC2


Redis


Jenkins


AWS Sagemaker


AWS S3


GraphQL


Thanks!