PENINSULAR RESEARCH OPERATION

Visualization of governance data with PRO DASH

QUICK FACTS

PRODUCT

PRO DASH

INDUSTRY

Government

GEOGRAPHY

India

CHALLENGES

- ➢ **Data fragmentation**
- ➢ **Uncaptured data**
- ➢ **Data tampering**
- ➢ **Unmet requirements**
- ➢ **Time taking**
- ➢ **Non-customizable dashboards**

THE SERVICE

PRO DASH is a tool implemented for governance project to enable periodic progress management of key projects, including KPIs. The success story of PRO DASH is captured as a case study.

CHALLENGES

- Project data being fragmented
- Data not captured by each government department
- Tampering of data
- Non-functional requirements are not met
- Time taken to build dashboards is very high
- Dashboards are not customizable

INITIATIVES

- Comprehensive analysis of existing files on paper to develop a list of indicators that can be adapted to a dashboard. Converted the seven pledges of the leaders into actionable KPIs:

Actionable KPIs	Data	Analysis	Dashboard

- Democratization of data capture by allowing government departments to directly enter data into the PRO DASH tool with proper checks and balances. Gamification of ongoing data capture at the grass root level and inclusion of proper incentives.

- Use of low code no code system which is a highly adjustable drag and drop means of adding dashboard elements.

RESULTS

➢ **Clearly Defined KPIs**
➢ **Data monitored**
➢ **Prevented data tampering**
➢ **Customizable dashboards**
➢ **Productivity increased**
➢ **Increased scalability**

🌐 Clear definition of roles and claims with defined set of rules and permissions for data entry operators, data approvers and the department head. Not allowing deletion of data and providing data ownership to concerned person. Blockchain principles are applied, which does not allow deletion of data and helps create auto logs

🌐 The tool contains both development and integration and works on the basis of a feedback loop and is highly iterative in nature. Continuous integration approaches were implemented using Kubernetes and Docker

🌐 Existing tools in the market did not have the versatility required to be hosted live given the complexity of governance data. PRO India team built its own tool with architects, UX/UI developers, data analysts, social scientists and software engineers using Mongo dB and Kafka framework

BUSINESS BENEFITS

👍 Drafted sets of clearly defined KPIs and dashboards based on these KPI making pertinent data available in a set of interconnected dashboards with a clear story flow

👍 All departments of the government capture data periodically and update the project progress in the form of pictures for easy reference. No data is captured as an immediate red flag

👍 Data about each department, positive or negative, is clearly captured and technical rules has prevented tampering of already entered data at a later stage

👍 200 live dashboards, which are fully customizable provide real-time updates and are used for periodic review by the respective department heads, district units and the Chief Minister. Scalability of the platform significantly improved

👍 Time taken to build a dashboard has reduced from 60 days to five days and iterative changes are implemented instantly. Productivity increased by 1100%

👍 Dashboards are fully customizable even at the researchers end, who need very less training on the too