

The Spatial Decision Support System is designed to facilitate the smooth implementation of Balochistan Rural Development And Community Empowerment Program(BRACE). The system consists of different modules to meet the data processing requirement of the Project.

1. System Architecture

The system is blend of web-based and mobile-based technologies to collect, process and analyze data.

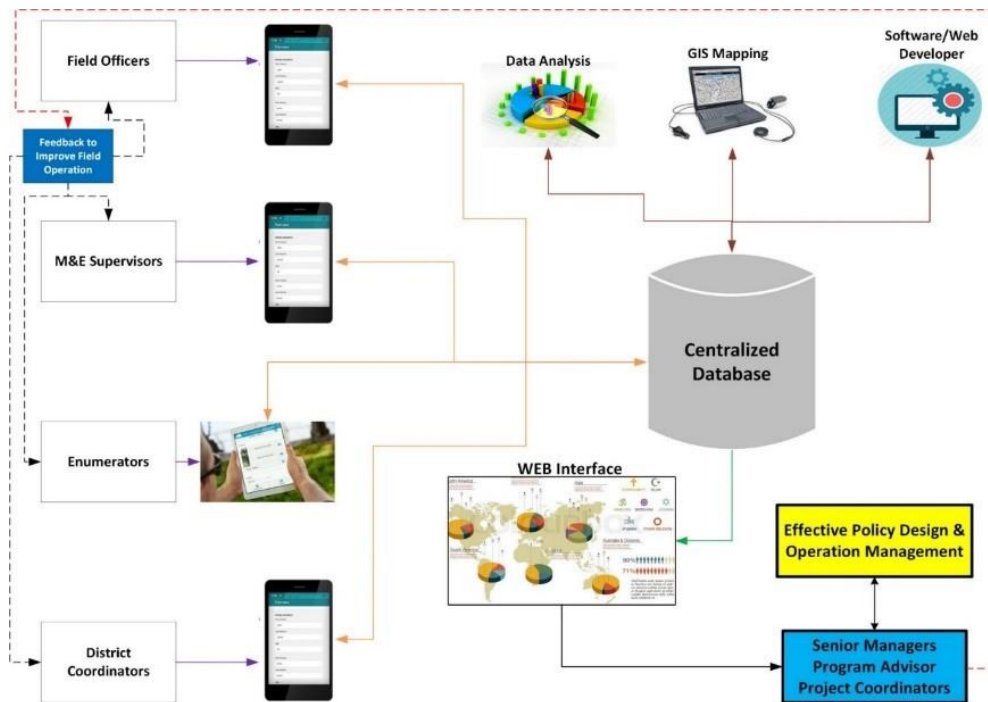


Figure 1: System Architecture

2. Modules

The decision support system consists of different modules.

2.1. Poverty Score Card

The PSC module is integrated system of mobile-based data collection application and web-based dashboard for analysis, progress tracking and reporting. More than 200 enumerators are deployed in seven districts with mobile application for data collection. Whenever an enumerator sends data to the server, the dashboard is instantly updated and the change is reflected in the shown statistics.

2.2. Community Institutions (CIs)

The Community Institution module is integrated with PSC module at database level and for frontend a separate android application developed for registration of the Community Institutions. The application works in offline mode and uploads the data to database server whenever internet available. The application provide three sub module for development of the following types of Community Institutions.

- a) Community Organization
- b) Village Organization

c) Local Support Organization

3. Human Resource Development Module

An ODK based application has been developed to record all the human recourse development activities for Staff, Community, Government Official and Mixed participants. The application consists of the following sub section.

- a) General Information of the Training
- b) Information of Trainer/Resource Person
- c) Information of the participant
- d) Pre and Post Evaluation (if applicable)

An online interface is available to provide the detailed report on training in PDF form.

4. Micro Investment Planning Application

Android base application was developed to register micro investment plan of community organization member.

5. Development Planning Module

A comprehensive database has been designed and an android-based frontend application has been developed to record the community picturized needs at village and UC level.

6. IGG Application

An Android application has been developed to register the beneficiaries based on the criteria defined in PIM. The application provide interface to select from filtered list of beneficiaries those are eligible for that grant.