National Government of the Federated States of Micronesia

Input Completion Report, October 2019

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1 OVERVIEW

The contract provided for both "home-based" work, and one in-country input at the NDOE office in Pohnpei.

Home-based activities were conducted between contract commencement in May 2019. The in-country input took place between August 25 and September 8 2019.

The consultants thanks David Syne, Weison Weital for their support, kindness and enthusiasm during the in-country visit.

2 OUTCOMES

2.1 BUDGETS MODULE

The Budgets module supports calculation of the most widely used high-level indicators for financial investment in Education, at both the National and State Level.

High level economic data may be recorded - GNP, GNP per capita – and total government budget and spending.

Education expenditure at both the national and state level may be entered. This can be itemized into "cost centres", which can in turn relate to an education sector.

Thus, we may calculate education spending as a proportion of total government expenditure. Within education expenditure, we can further analyze by cost centre and education sector. By incorporating enrolments per sector, we arrive at spending per head within the sector.

2.2 SCHOOL ACCREDITATIONS
The School Accreditation module has been rebuilt to meet the new accreditation model.

FedEMIS now collects data from the tablet-based data collection application, providing a User Interface to examine and approve accreditation files held on a secure google drive.

Once approved, these accreditations are added to the Schools Accreditation list. Any photos associated with the accreditation are also added to FedEMIS, and are available as part of the school's "Documents" page, or directly from the Accreditation.

Finally, a new dashboard allows detailed analysis of accreditation progress. Accreditation data may be analyzed by State, School Type, and Authority, presenting both the overall accreditation level, and the level attained within each standard.

Statistics for accreditations conducted within a year, and cumulative accreditations are both provided.

The Dashboard provides a detailed drill down from these high level statistics down to the level of individual school and accreditation.

Legacy data already in the system has been reprocessed to be consistent with the new model; this providing some continuity of historical records.

Reporting options include

- Storage of the accreditation data in the data warehouse
- A comprehensive set fo SQL views to access this warehouse data. This support formats suitable for reports, or for inclusion in Excel via Pivot Tables (for consumption in Annual Reports)
- Access to these views via a comprehensive and efficient REST API. This allows accreditation data to be presented in the Education Data Android application.

2.3   DATA COLLECTION WORKBOOK
Extensive enhancements to the data collection workbook have been incorporated. In particular, data on "special education" parameters in line with "IDEA" requirements is now collected.

The workbooks now source all applicable lookup data from within the database. These lists may therefore be refreshed by refreshing workbook data collections; and in the medium to long term, the content of the list can be controlled by maintaining the list in the database.

As a consequence of this, the distinction between the workbook format used in RMI and the one in FSM is gone – all differences are now pushed into the database. This creates ongoing efficiencies in allowing enhancements to be shared between these two implementations of Pacific EMIS.

Ease of use, and verification of data has been continually refined.

2.4   OTHER ITEMS

2.4.1   School Inspections
A framework for "polymorphic" school inspections has been implemented at both the database and User Interface level. This simplifies the process of adding new types of inspections to the system.

In particular, this has formed the basis for the development of the School Accreditations module; and as well allowed an initial basic capacity to upload and display WASH assessments (Further work is required to analyze this Wash data in the warehouse.)

2.4.2 Dashboards
Reworking of schools dashboard now incorporates this into the "School" page.

2.4.3 Lookup Maintenance
A comprehensive facility to edit lookup lists is now provided. This provides some documentation (retrieved from the database) on the purpose of each lookup table.

2.4.4 Teacher Qualifications
Flow of screens improved when adding a sequence of teacher qualifications, including better notifications.

2.4.5 Other
Many other enhancements and fixes have been applied to the software duyring the course of this contract. These may be examined in the source repository at
https://bitbucket.org/softwords/pineapples