

**The Division of Cancer Epidemiology and Genetics - Survey Management System (DCEG – SMS)**

**CHALLENGE/SITUATION**

DCEG, an intramural research program of the National Cancer Institute (NCI), National Institutes of Health (NIH), has conducted population and multidisciplinary research to discover new approaches to cancer intervention and the genetic and environmental determinants of cancer. DCEG planned a pilot study to determine the relationship between diet and cancer at four distinct geographic locations in India, utilizing data entry software to collect forms in order to overcome the issues faced by using paper-based and manual process. This cohort study would help with patient accrual while dealing with health disparity and multiple cultural, language, and faith-based issues. There was a clear need to develop a custom SMS that would help them carry out their study.

**APPROACH**

CTIS needed to develop a SMS system that would provide IT resource support for various components of the study. The system needed to enable the monitoring, evaluating, tracking, and surveying of collected data.

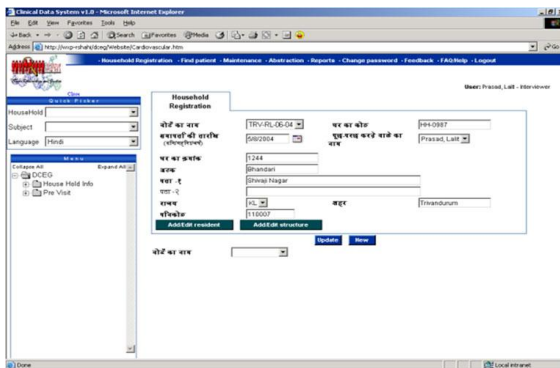
**SOLUTION**

DCEG – SMS is built on a dynamic form engine component and is designed to collect data in form of surveys. SMS features include the ability to add complex patterns through wizard based set-up; annotation text to guide interviewers; multiple survey categories to help establish cross reference relationships; review panel to allow quick access and edit functionality; and interact with third party applications, such as biospecimen collection system.

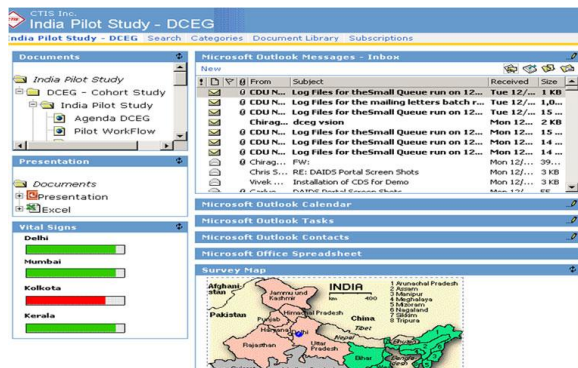
CTIS has also developed a portal-based dashboard that allows monitoring and evaluation, tracking and surveillance; an electronic data capture at source; and training for the NCI-DCEG staff at the delivery time to satisfy support requirements.

**BENEFITS**

- Increases household productivity, process efficiency and effectiveness to perform this cohort study.
- Enables faster and more insightful decision making and allows knowledge sharing while reducing information management risk
- Improves data quality and accuracy
- Allows immediate data update through daily synchronizations, thus providing information on time for accurate decision making



Multilingual Case Report Form



DCEG Collaboration Portal