

Australian-based Government Agency benefiting from Tricom's Data Warehousing solutions...

The Challenge:

An Australian-based Government agency catering to the agricultural sector needed a solution that would enable them to provide real-time market information to their farmers. This solution would also have to include a data warehouse that would serve as a 'knowledge base', and simultaneously assist them in publishing regular reports following specific compliances. Tricom faced the challenge of implementing a system that would act as:

- A market intelligence repository which enabled publications to be electronically stored and indexed
- A user-friendly electronic thesaurus which provides easy access to documents stored in the repository
- A database which contains statistical information relating to agricultural exports, imports, and productions. This information was to be amassed from sources like the Trade Database, Production Database, and Livestock Price Database
- A java-base report and charting engine, where information from the statistical database is published.
- A directory listing of business contacts in the agricultural sector
- A web-based mail system integrating components like the directory listings
- A meta-data repository which stores information like instructive notes to data items, system messages, keyword listing to enable easy access to relevant information, etc
- A security system granting varying levels of access to system components depending on the specific user class they belong to such as administrators, department staff, and general public
- A front-end portal that would act as a gateway to the components in the system

The Solution:

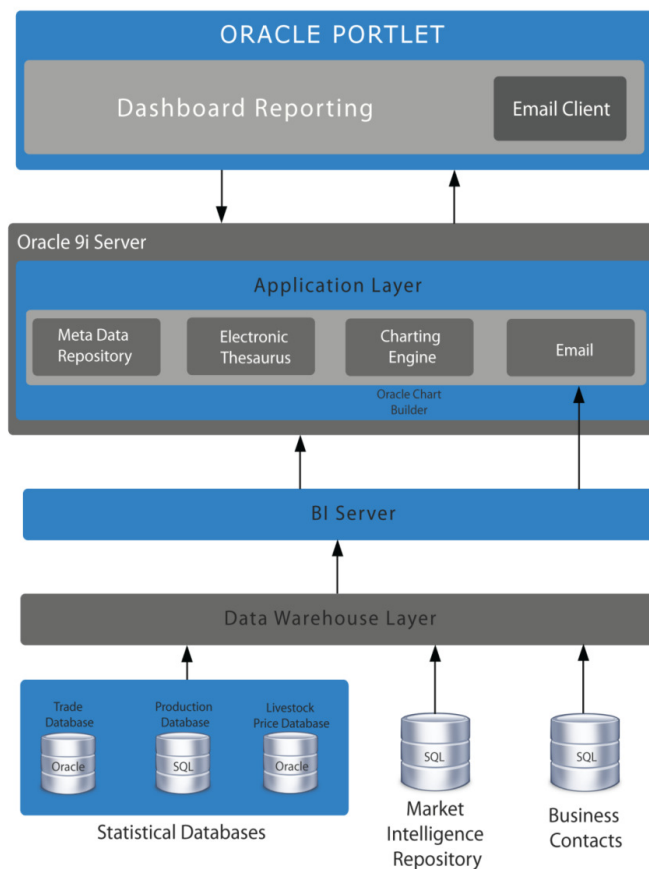
Tricom found that an ideal solution would be to create a one-stop portal which offered diverse information and agricultural statistics to the internal and external user from the agricultural sector. The portal was developed by merging 8 legacy databases into a single coherent Oracle database, which was web-enabled through Oracle Portal. An extensive system was developed which included:

- 50 web-based reports and charts
- 90 web-based data entry screens
- 90 database tables

The Portlet and Reporting framework was developed in such a way that it would not only promote productivity, but also facilitate additional extensions and enhancements, in future. The technology used to develop this solution included:

- Windows 2000
- Oracle 9i Server
- Oracle Portal
- Portlet
- Development Kit (PDK),
- ETL

- Jasper Reporting
- Oracle9i
- Application Server (9iAS)
- Oracle Container For J2EE (OC4J)
- Oracle Chart Builder
- Netbeans
- CVS
- Jakarta Ant
- Java Servlets
- Java Server Pages (JSP)
- Enterprise Architect,
- Oracle Designer



The Result:

Thus, Tricom's one-stop portal solution served to provide an efficient and beneficial system that enabled smooth functioning of businesses in the agricultural sector. Key highlights of the end product include:

- Real-time information to all entities in the agricultural sector
- Easy and readily available contact information of agricultural affiliates

Repository of all statistical data, market conditions, etc.