

## PROJECT SHEET

ABS\_Statistics\_Online-ASO.doc

# ABS Statistics Online (ASO)

The ASO was developed by a partnership between the **North Central Catchment Management Authority**, the **Department of Sustainability and Environment (DSE)**, the **Department of Primary Industries (DPI)** and **DPI Research and Development Bendigo**.

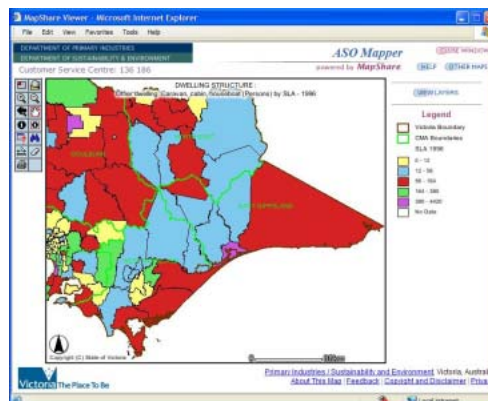
The Australian Bureau of Statistics (ABS) collects and publishes an immense range of statistical information. This data can be extremely valuable in assisting decision making and planning, if it can be analysed easily and presented clearly.

DSE/DPI contracted Spatial Vision to develop the ABS Statistics Online (ASO) application in order to make ABS statistics available to departmental and Catchment Management Authority (CMA) staff. ASO is a web-delivered application with an integrated mapping capability which enables users to easily query the broad range of available data and to view the results in table or map form. Results can also be downloaded for further desktop analysis.

ASO provides users with access to twenty years of agricultural statistical data including more than five hundred statistics across sixty classes, as well as the Basic Community Profile (BCP) for the population census, comprising over forty millions rows of data in total.

ASO is delivered on the DSE/DPI (Department of Primary Industries) intranet and via an extranet to registered CMA staff. It has been developed using Java/JSP, with the statistical data held in an Oracle RDBMS. The web mapping component of ASO has been delivered using DSE/DPI's MapShare infrastructure, based on ESRI's ArcIMS and ArcSDE. MapShare provides a customised browser-based client which was enhanced as part of the ASO project to enable it to produce thematically-shaded maps. ASO includes functionality which enables users to specify a desired data classification and to assign colours and patterns to the various classes.

The ASO application will be used by regional and metropolitan catchment managers to better understand the demographics, land use, land management and production values of the regions they are managing.



The ASO mapping component is delivered through DSE/DPI's MapShare. MapShare, based on the ESRI range of GIS servers including ArcSDE and ArcIMS was supplied, installed, configured and documented by Spatial Vision.



## Demonstrated Capabilities

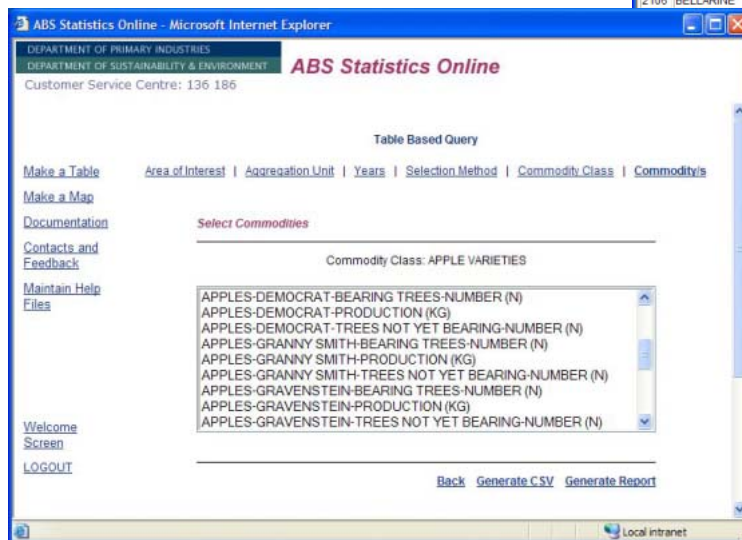
- Design of applications which provide access to complex and high volume datasets in an intuitive and easy to use interface.
- Design and development of Java/JSP web applications
- Conversion and loading of spatial data
- Integration of textual and spatial functionality
- Production and delivery of documentation and training

## Resources

Ian Miller was the project leader and was responsible for the architecture of the ASO application. David Kennedy designed the Java object model and undertook most of the Java/JSP development.

## Technologies Applied

- Java and Java Server Pages
- Tomcat Servlet Engine
- Oracle RDBMS
- ESRI ArcSDE
- ESRI ArcIMS
- HTML/Javascript



Code	Name	Proportion	Amount	Respondents	RSE
2001	ACHERON	1	15000	1	1
2046	BALLARAT	1	14400	1	1
2054	BALNARRING	1	573475	31	1
2099	BEECHWORTH	1	4900	1	1
2101	BEEBAK	1	148480	2	1
2106	BELLARINE	1	120	1	1
		1	2000	1	1
		1	2000	1	1
		1	3000	1	1
		1	591600	13	1
		1	36000	1	1
		1	6300	1	1
		1	180000	1	1

The ABS Statistics Online interface.



Innovation expertise

experience

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