

# DATAWORLD

think • innovate • create

## Company Profile 2015



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Data World was established in 1994, and is a leading BEE company in ICT space. Based in Durban, we operate out of Johannesburg, Cape Town and New Delhi.

We have undertaken projects in Zambia, Mozambique, Malawi, and India besides South Africa.

The company has serviced clients in the National, Provincial Departments and Local Government including Metropolitan, District, and Local Municipalities. In addition Data World has completed projects for International agencies like the World Bank, UNFPA, FAO, and USAID.

We have a varied clientele including:

- Statistics SA
- Municipal Demarcation Board
- Department of Public Works
- Department of Rural Development and Land Reform
- Department of Agriculture
- Department of Environment Affairs
- Department of Tourism
- Department of Mineral Resources
- Department of Cooperative Governance and Traditional Affairs

Data World roots lie in pioneering effort in the GIS space. We provide innovative solutions having extensive experience in image processing, remote sensing, spatial analysis, data capture, conversion, validation and maintenance, land audits, spatial analysis, geo database design and implementation and web- mapping solutions.

## Some of Our Achievements/Awards

### 2001

Nominated top 20 Unlisted companies in SA by Business Day

### 2003

Top 300 Empowerment Companies in South Africa  
CEO Willy Govender received the KZN IT personality of the Year Award

### 2009

CEO Willy Govender was awarded the Ernst & Young Emerging Entrepreneur Award

### 2002

Selected in top 5 Black ICT Company in South Africa

### 2006

Awarded CSSA KZN, IT Company of the Year

### 2011

Awarded the Innovation Award at World Geospatial Forum at Hyderabad, India

## Selected Clientele- South Africa



Data World has extensive domain expertise in the designing, building, configuration and integration of business solutions.

We build complex business systems that are web-enabled, multi-tiered; enterprise-based and can integrate into current IT systems. The range of services and solutions include application design and development, enterprise application integration, IT systems architecture, support services, database services, Content management, business intelligence and data warehousing.

We are a member of GSDI, which promotes international cooperation and collaboration in support of local, national and international spatial data infrastructure developments that will allow nations to better address social, economic, and environmental issues of pressing importance.



Data World is ISO9001:2008 Certified for the following

- Data Services involving Cadastral management, Field surveys, Master Data and Quality management
- Consulting in the Development Planning Space
- Information Technology solutions having integral location awareness

## GIS

Data World has a vast pool of resources some with PLATO certifications for any GIS consulting requirements.

We provide services in the areas of :

- Cadastral Management
- Boundary Demarcation
- Land Audit

Our GIS services are ISO 9001:2008 certified and deliver efficient, accurate results.

## Programme Management

We have demonstrable experience with driving multi-disciplinary projects. We cover the following aspects of a successful programme.

- Project Management
- Change Management
- Risk Mitigation
- Stakeholder Engagement

Our resources are PRINCE2 certified and the Methodologies are based on PMBOK and PRINCE2.

## Spatial Planning

Our spatial planning services are ISO 9001: 2008 certified and we focus on providing tailor made services arranged around the needs of our clients. Our areas of expertise include;

- Spatial Development Framework
- Rural Development Plan
- Infrastructure Planning
- Development Management

Data World has a vast pool of resources with SACPLAN certifications for any Spatial Planning consulting requirements.

## Selected Clientele- International



## Selected Clientele- India



## Our Services

### Software Development

Data World is a process driven organization with CMMI compliant processes and delivery methodologies. We have well organized functional teams with distinct process areas of **Business Analysis, Design, Development, Testing, Software Support, Quality Assurance and Project Management.**

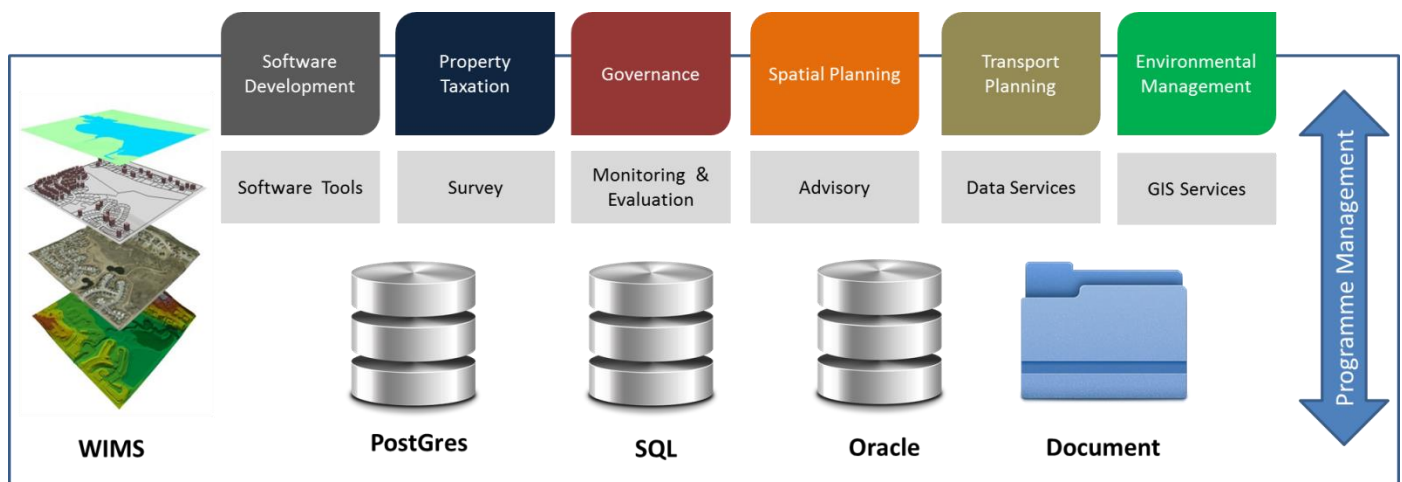
- Windows Server, Android, iOS
- MS SQL Server, Oracle, PostGRES/PostGIS, SQL Lite
- C#, VB.Net, JavaScript, XML, GML
- MapServer, OpenLayers, GeoServer, ESRI ArcGIS
- ASP.Net, CSS 3, HTML5
- MS Project, MS Excel, MS Word

### Spatial and Transport Planning

Integrated Development Plans, Spatial Development Frameworks, Regional Planning, City Development Plans, Spatial Analysis & Planning, Land-use Development and Management Strategies, Housing & Township Establishment Strategies, Urban Design & Site Planning, Urban Renewal & Precinct Development, Urban Analytics Local Economic Development Strategies, Socio-Economic Studies, Infrastructure Planning and Investment Plans. Integrated Transport Plans, Traffic Modelling and Forecasts, Feasibility Studies, Transport Data Collection, Public Comprehensive Traffic & Transportation Plans, Transportation Master Plans, Public Transport System

### Property Tax Management

Property Data Collection, GIS Database, Property Valuation, CAMA Analysis, Tax Modelling, Advisory, Property Tax Reform, E-Governance, Process Reengineering, Valuation and Property Rates Roll, , Grievance Redressal and Complaint Management, Monitoring and Evaluation, Performance Management,



### Environmental Management

Environmental Management and Planning, Environmental Impact Assessment, Natural Resource Management, Solid and Liquid Waste Management Plans, Feasibility Studies, Landfill Site Suitability Analysis, Land Remediation and Rehabilitation, Safe Disposal Process, Waste Beneficiation.

### Governance

Advisory, Monitoring and Evaluation Frameworks, Good Governance Reforms, Performance Management Systems, Development Indicators, E-Governance, Citizen Satisfaction Surveys Systems, Policy Analysis & Formulation, Stakeholder Management and Engagement Plans.

## Our Products

### Land Matrix

Land Matrix is a lean integrated Land Information System. It supports all processes around the management of Land within a Municipality. It is designed on a centralised Geo-data repository, providing rules driven access to multiple user roles.

Land Matrix handles various processes associated with Development Planning activities like zoning, building permits, special consents, managing indigents, environmental impact, Business licensing etc.

Land Matrix can consume data from multiple sources using Open Standards. It consumes aerial imagery with optimisations like tiling and caching.

It is integrated with Deeds and SG Feeds, it supports the following records:

- Full title Farm and Town
- Leases
- Sectional Titles

*Currently, an upgrade is being planned to align with SPLUMA guidelines.*

### Value Matrix

Value Matrix is a consolidated product developed to manage and roll out municipal property rates/ valuation rolls. It is a 4th Generation evolution of the Value-Assist system. It has been developed from scratch considering the availability of new technology like Android and HTML5.0. It is built on top of a GIS base and does not require a superfluous integration with a GIS system for spatial capability. Besides technical enhancements a lot of functionality has been added in order to empower the users to undertake most of the system administration and CAMA (Computer Assisted Mass Valuation) Analysis functions using High level tools which hide the complexity from user and de-skills the job.

The product provides tools for end to end management of properties in a Municipality, it comprises of;

- Data collection and management tool
- Tariff Modelling Tool
- Rates Clearance Application Management
- Sales Review and CAMA Value Calculator
- General and Supplementary Valuation Roll Generator
- Objection and Appeals Management
- SG and Deeds Office Data Integration
- Integrated Public Website
- Integrated GIS Interface
- Integrated Billing and Payment System

### Data World MATRIX

Data World MATRIX (formerly ADF) is a library of components or tested functions designed for integrating already developed complex applications. This creates highly functional, easy to use front-end applications allowing fast and efficient roll out of business process in client organisations.

The dynamic nature of the system allows for change of data structure on the fly without affecting the process or vice versa. New Business processes can be rolled out on the fly without any down time of processes currently in production. It provides complete bi-directional configuration management tools.

MATRIX is designed for ubiquitous access to Information system from multiple interfaces like SharePoint Portal, Tablet PC, ASP.net web application, Digital Pens and Smart phones.

It has the following key features:

- Support for Agile approach and tools for Release management
- Dashboard for Performance Monitoring and Evaluation
- Dynamic Business requirements
- Integration of front and backend
- Integration with SharePoint to provide Portal functionality
- Integration with Android services and Digital Pen-Paper technologies
- Integration with GIS
- Document management

## Partial List of Projects

- Rural Development Plans for
    - Five District Municipalities in Kwa Zulu Natal Province
    - Central Karoo District (Western Cape Province)
    - John Taolo Gaetsewe District Municipality (Northern Cape Province)
  - Development of National Economic Opportunity Atlas
  - Development of National Interest Criteria for Land Development
  - Development of a Framework for the Compliance, Monitoring and Enforcement of the SPLUMA
  - Spatial Development Framework- Ubuhlebezwe Municipality
  - Smart City Project- Lucknow, India
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- Transport Data Clean Up and GIS Integration – City of Cape Town
  - GCRO Quality of Life Survey 2011
  - Rural Infrastructure Survey for DRDLR in Limpopo, Mpumalanga and North West province and Development of Rural Infrastructure Observer application
  - Municipal Capacity Assessments in the Years 2004, 2005, 2006, and 2007.
  - EPWP Data Alignment and Reporting
  - Development of a Business Analysis and User Requirements Assessment for National Spatial Planning Data Repository
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- Land Audit for Local Government
    - eThekweni, Ekurhuleni, City of Johannesburg, Nelson Mandela Bay and Buffalo City Metros
    - Hibiscus Coast, Umdoni, Umngeni, Ehlanzeni, KwaDukuza, Ilembe, Merafong and Randfontein Municipalities
    - West Rand and OR Tambo Districts
  - Property Data Reconciliation and Alignment
  - Ward demarcation for MDB in 1999 and 2004
  - Property Valuation Systems for
    - eThekweni Municipality
    - City of Johannesburg
    - Ekurhuleni Metropolitan Municipality
    - Nelson Mandela Bay Metro Municipality
    - Buffalo City Metro Municipality
    - Hibiscus Coast Municipality
    - KwaDukuza Municipality
    - Newcastle Municipality
    - Umdoni Municipality
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- Tariff Modeling for Property Rates and Electricity
  - License Management Systems for NERSA, Department of Environment, Tourist Guides
  - Monitoring and Evaluation Systems
    - Department of Environmental Affairs
    - Cooperative Governance and Traditional Affairs
    - Department of Agriculture, Western Cape
    - Umdoni Municipality
    - ICZMP, The World Bank
  - Agricultural Information Management System
  - Environmental Impact Assessment System
  - Knowledge Management and BI Portals
  - Tablet based integrated Field Survey systems for ESKOM, DRDLR, DHS and General Valuations
  - Public Transport Information Portal for EThekweni Transport Authority
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- Property Data Collection and Property Tax Reform for
    - North Delhi Municipal Corporation
    - Nagpur Municipal Corporation
    - Dehradun Municipal Corporation
    - Cuttack Municipal Corporation
    - Haridwar Municipal Corporation
    - Puri Municipality
    - Chhindwara Municipal Council
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- Integrated Land Information System
  - Integrated Property Information Management System
  - South African Mineral Rights Administration System for DMR
  - Demarcation Toolsets for census 2011
  - Web Based GIS Portals for various organizations
  - Development of GIS Implementation Strategy – Mangaung Municipality