Key Features

- Intuitive Spatial interface
- User definable data requirements
- Web based for anytime anywhere access
- Simple repostitory for repeated condition assessments
- Uploading and retrieval of all project documentation
- Close-out & component reporting
- Integration with key business systems
- Spatial integration (maps)
- Role based user access via the web
- Unlimited users

Implementation

- Configuration – configure the system for the organization, including branding and terminology
- Strategic setup – set up of the strategic framework and IDP
- Data capture – Capture of all current and planned projects
- Training – Skills transfer to relevant project management and administrative staff
- Ongoing support – regular hands on support for system users

Licensing & intellectual Property

The principles behind the development are those of free and open source software in that no license fee is charged for the use of the software. The philosophy behind this approach can be summarised as:

1. It is in the interests of many clients and potential clients that a common system is used for the collection of project information to enable the aggregation and sharing of data
2. Most institutions at which the system is targeted do not have a clear understanding of how to maintain and manage their project information
3. The implementation of the software and the maintenance of the data within it is not a trivial task and needs to be undertaken by a technical team consisting of engineers, developers and data specialists.

Thus, Qube is seen as a tool to be used as part of an overall project information management strategy, rather than a piece of software.

QAssets

Asset Management

QAssets is a assets management register for infrastructure and movable assets. .

quarteX technologies

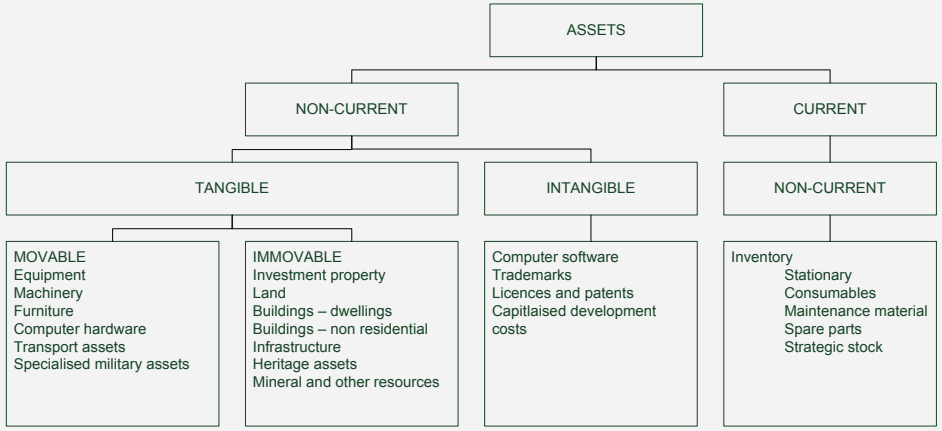
www.quartex.co.za

Background

The Asset Management Framework produced by the National Treasury states that "*the role of assets is to support the delivery of a government service to the public. Assets should only exist to support programme delivery*". It further describes an asset as having these characteristics:

a) It is a physical item of value;
b) It possesses service potential or future economic benefit that will flow to the entity;
c) The service potential or future economic benefit is controlled by an entity;
d) The service potential or future economic benefit arose from past transactions or events (that is, 'future' assets cannot be recognised in the financial statements);
e) It is probable that the service potential will be used;
f) The asset has a cost or value that can be reliably measured.

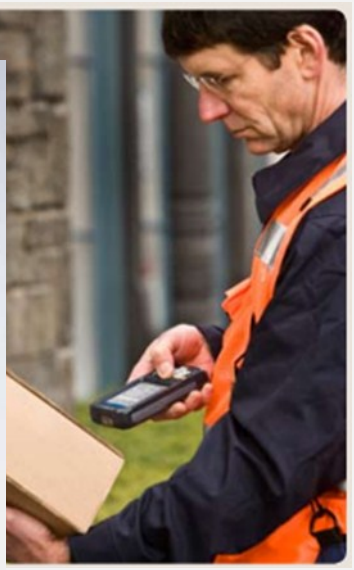
Assets are classified as shown (Source: Asset management framework. National Treasury.)



Asset registers are create to assist in the compilation of financial statements, in the municipal environment as prescribed by the Public Finance Management Act, 100 (PFMA) . The PFMA defines what information should appear in the financial statements and who is responsible for their compilation.

Data collection

Data is collected using hand held field devices which are supplied as part of the implementation.



Quartex technologies

Background

QuarteX technologies was founded in 2007 to focus on utilising and managing an organisation's spatial data to provide management tools to all levels of the organisation from executive management to operations. We do this through consulting, analysis, application development and software implementation.

Our current local government clients include Zululand District Municipality, the KwaZulu-Natal Department of Land Affairs, Ilembe District Municipality, Ugu District Municipality and various other local and district municipalities in the province. Our corporate clients include Vodacom and Sappi manufacturing.

We strive to create intuitive and cost effective solutions, and make extensive use of Free and Open Source Software (FOSS) where possible.

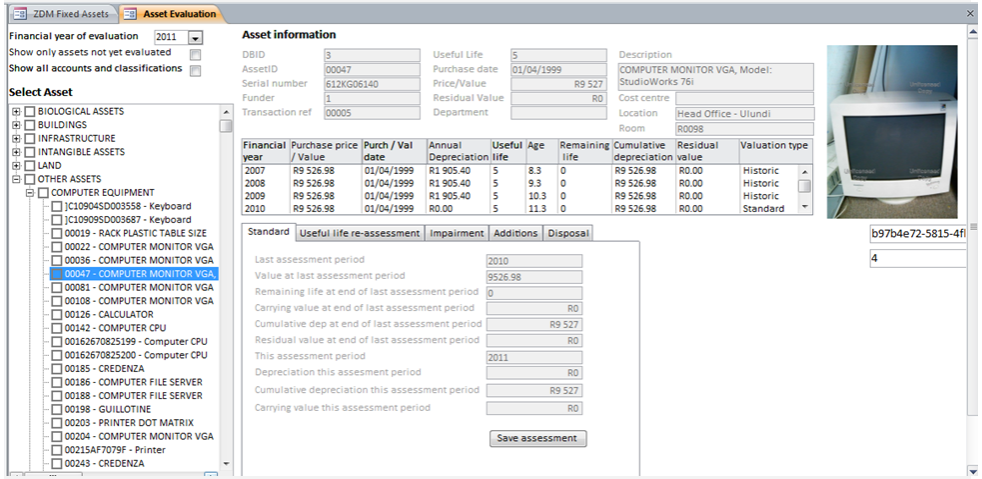
Service descriptions

GIS consultancy: Strategic consultancy to organisations to enable them to make the best use of GIS information through rationalisation and centralisation of GIS functions and data, skills transfer, training and policies.

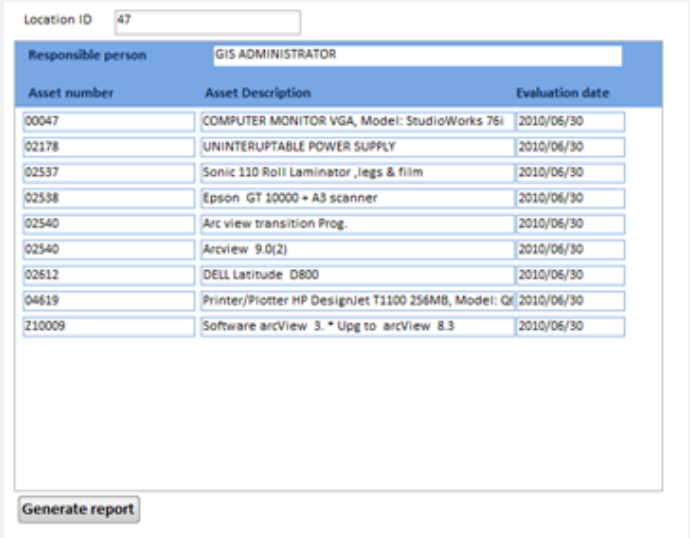
GIS data management and analysis: The analysis of GIS data to enable management of organisations to make informed decisions and to assist with strategic planning.

Moveable Assets

The Moveable assets information system comprises two parts, a desktop based application for management of data, integration with financial systems and financial analysis. This system is structured to be compatible with the National treasury guidelines, allows the creation of assets from the financial system records, and the depreciation of assets by any of the standard methods in the National Treasury Guidelines.

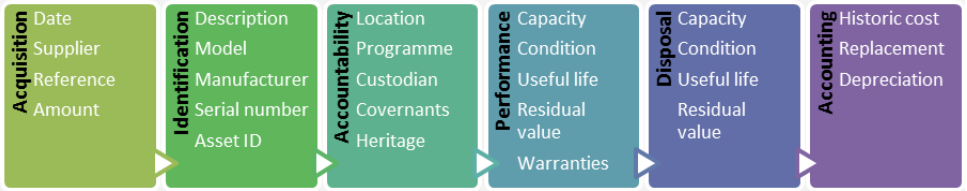


Asset information according to the guidelines is maintained in the application, and valuation is can be done through the interface. In addition, accountability information and reporting is available.



Overview

Qassets provides complete management of all asset related information through the assets lifecycle, irrespective of the asset classification. The Asset management framework indicates what information is required to be maintained in the Asset register.



Qassets is designed to manage this information. The assets tool, in its current version, has been developed as a hierarchical assets register.

Current functionality includes:

a) a spatial interface linking the assets hierarchy to a map
b) forms for the appending and editing of data
c) forms for capturing and editing time-variant data
d) the upload of photographs and documents related to particular assets
e) Extraction and export of data for further analysis

Originally developed for the registration of data relating to water infrastructure, the flexible nature and configurability of the assets system makes it suitable for a wide range of infrastructure such as roads and transportation, telecommunications, education and health. In this presentation, the screen shots relate to an implementation being used for the management of water assets, but where changes to the configuration are possible they are indicated.

The same application is currently being utilised by organisation such as:

a) The Department of Housing – For managing housing projects
b) The Ingonyama Trust – For managing advertising signboard locations
c) Grown Energy Zambezi – For managing agricultural assets in Mozambique
d) Vhembe District – Water Asset Information Management
e) Zululand District – Water and Sanitation Asset Information Management

Building Blocks

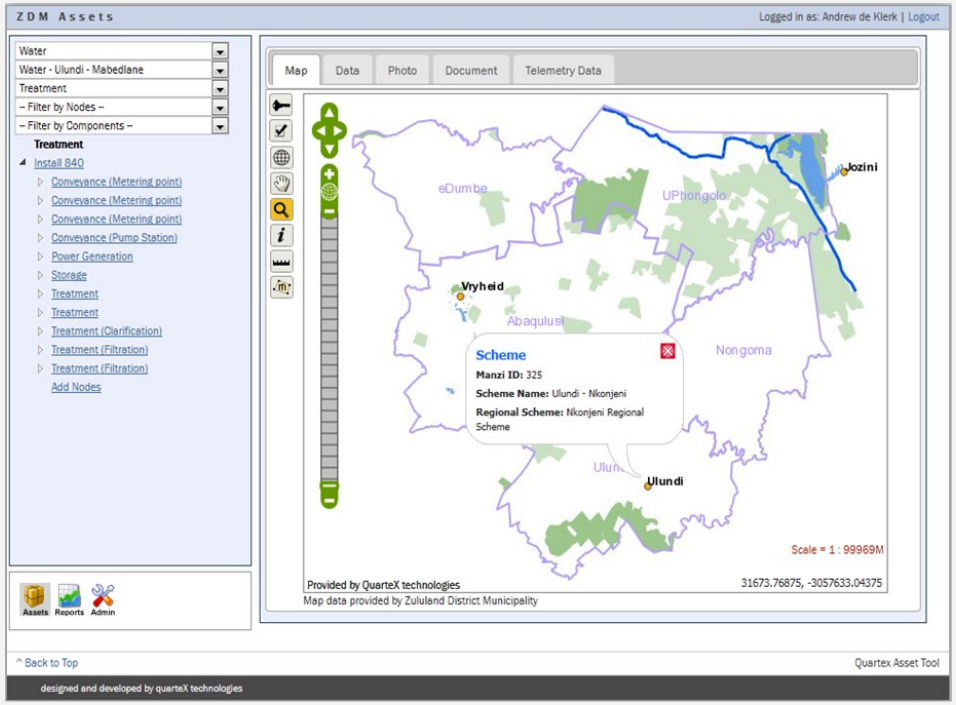
The basic premise of the application is to allow access to assets data through an easily navigable structure linked to a mapping interface. This entails the definition of a management hierarchy which simply represents the operations of the implementing organisation. For our water assets example the hierarchy is:

Water **Scheme**
Installation within that scheme
A **Node** within the Installation
Components within the Nodes

The hierarchy is configurable to suit the particular requirements of the implementation. In particular, the departmental structure of the assets project can be accommodated. Data collected at each level of the hierarchy is configurable to suit the type of asset under consideration.

User interface

The application has an intuitive interface with a customised spatial view which is easily navigated through the hierarchy.



Asset Information

At all levels of the hierarchy, spatial information, user defined fields, photographs and documents may be captured..