



Arboricultural
Consultants

Paperbark Technologies

Changing the world, one tree at a time...

Professional Advice • Arboricultural Reports • Digital Tree Mapping Services • Tree Risk Assessments

Tree management system

At Paperbark Technologies we have specifically designed a tree management system for Local Government Authorities to assist in identifying and managing your tree inventory.

The tree management system utilises GPS and aerial maps of the Council to define the locations of trees. We overlay your current cadastre to show property boundaries, house numbers, street names, kerbs and verge areas. The tree data is supplied digitally which can be integrated into your Assets program and IntraMaps for use in house or to display publicly.

Once the tree data is entered into your nominated software you are able to record changes to the data on a daily/weekly basis in order to keep it current.

The aim of having trees digitally mapped and visually assessed by a qualified Arboricultural Consultant will assist to identify tree hazards and reduce the risk to property and to persons. By having tree health, structural condition, photos, problems and recommended works documented we are able to help you maintain, manage and plan for the future of the urban forest.

We pick up information such as:

- ✓ Tree number
- ✓ Address
- ✓ Ward or sector
- ✓ Botanical Name
- ✓ Power lines
- ✓ Height
- ✓ Canopy spread
- ✓ Trunk diameter
- ✓ Tree health
- ✓ Tree structure
- ✓ Photo of tree
- ✓ Possible significance
- ✓ Verge cover
- ✓ Tree problems
- ✓ Works required
- ✓ Tree valuation
(To enable a dollar value of each tree)
- ✓ QTRA Risk of harm calculation.



An example of the tree data is above, the list on the right hand side is an example of some of the information collected.

Tree_Number:	26525
ASSETNR:	TR_1029525
Sector:	15
Address:	2 Lyndon Street
Address_Verge:	LYNDON ST
Suburb:	NOLL
WARD:	LA
Date_of_Inspection:	30/05/2010
Inspector:	Phil Matthews
Quantity_of_Trees:	1
Botanical_Name:	Callistemon Kinga Park Special
Genus:	CALLISTMON
Species:	KINGPARK
Common_Name:	KINGSKPSP
Type:	WAMATIVE
Power_Lines:	STREET
Approx_Height_m:	3.7
Canopy_Spread_m:	2
Canopy_Height_m:	2.5
Diameter_cm:	100
Tree_Age:	SEMIAT
Tree_Health:	FAR
Tree_Structure:	FAR
Tree_Status:	Existing
Verge_Cover:	TURF
Image_of_Trees:	Tree_Photo_100636_120860.JPG
Problems:	F
Comments:	
Pass_Significant:	F
Works_Required:	T
Works_Completed:	F
Date_Works_comp:	

The information can be tailored to suit your requirements, depending on whether trees in parks, streets, median island, roundabouts or elsewhere are collected.

Each tree is photographed at the time of inspection which can be loaded onto your nominated software program. This is useful for a range of departments such as Parks, Engineering, Planning and Customer Service to assist resident enquiries.

Reports may be generated from the data collected to identify:

- ✓ Gaps in streets to assist tree planting programs
- ✓ Post mature species, which can be planned for replacement
- ✓ Problem tree species
- ✓ Significant trees
- ✓ Trees under powerlines, to assist tree pruning programs
- ✓ Deadwood pruning
- ✓ Formative pruning
- ✓ Mature trees (Work out how much of the urban forest consists of mature trees)
- ✓ Juvenile trees (Same as above)

The extent of reports depends on your requirements.



Limb failures



Dead trees



Tree root disturbance

We provide qualified Arboricultural Consultants to carry out the tree data collection to ensure that each tree is visually assessed for health & structural condition. We are qualified tree risk assessors and can incorporate risk of harm outcomes on a per tree basis or walk through situation.

We have mapped and audited trees for a variety of Councils, Developers and Landscape Architects and have mapped over 90,000 trees!



Trees provide many benefits that have both economic and intangible values. While they improve land values they also purify urban air, their foliage filters noise and reduces its intrusion into domestic areas. Trees play a role in modifying the effects of climate, contribute to a sense of seasonal change and more importantly provide valuable habitat for the fauna associated within the Perth metropolitan area.

Trees consume carbon dioxide and emit oxygen. In general, the more trees we plant, the better air we breathe.

There are so many reasons why we need to retain trees, just to mention a few:

- ✓ Heritage values,
- ✓ Aesthetic qualities,
- ✓ Ecosystem benefits, including:
 - ✓ Stormwater management,
 - ✓ Shade and heat reduction qualities,
 - ✓ Wildlife habitat and biodiversity,
 - ✓ Carbon dioxide absorption,
 - ✓ Particulate pollution capture,
 - ✓ Salt wind protection and
- ✓ Social and psychological values.

Recent projects include:

City of Stirling

- ✓ We are currently mapping and assessing all trees within the Local Authority verges of The City of Stirling. This incorporates gathering all aspects of tree information, GPS, tree valuations, QTRA risk assessments and Significant tree assessments.

City of Canning

- ✓ We have completed tree mapping and auditing of all trees within Council owned Parks for City of Canning. This incorporates gathering all aspects of tree information, GPS, tree problems, remedial works required, and a Risk Assessment of each tree.

The Perth Zoo

- ✓ Completed tree mapping and QTRA assessments within the main pathways and adjacent animal exhibits for Perth Zoo.

Perry Lakes for Landcorp

- ✓ Completed tree mapping and auditing of all trees within Perry Lakes development site. This incorporates gathering all aspects of tree information, tree problems, remedial works required, GPS & QTRA risk assessments.

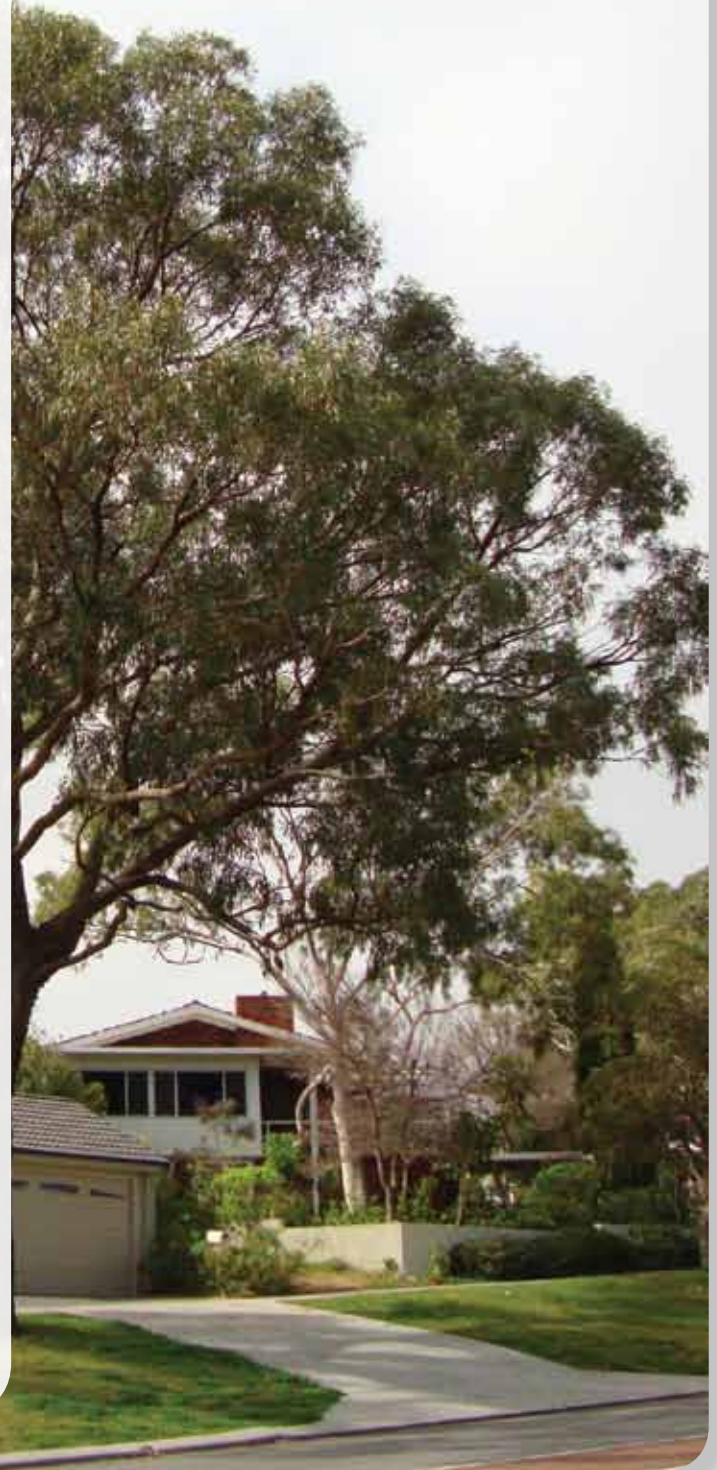
At Paperbark Technologies we provide a range of services including Arboricultural Reports & Technical Advice.

For more information please view our website www.paperbarktechnologies.com.au

If you would like a presentation on the tree management system and how it can work for your Council please contact

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