

Software and services

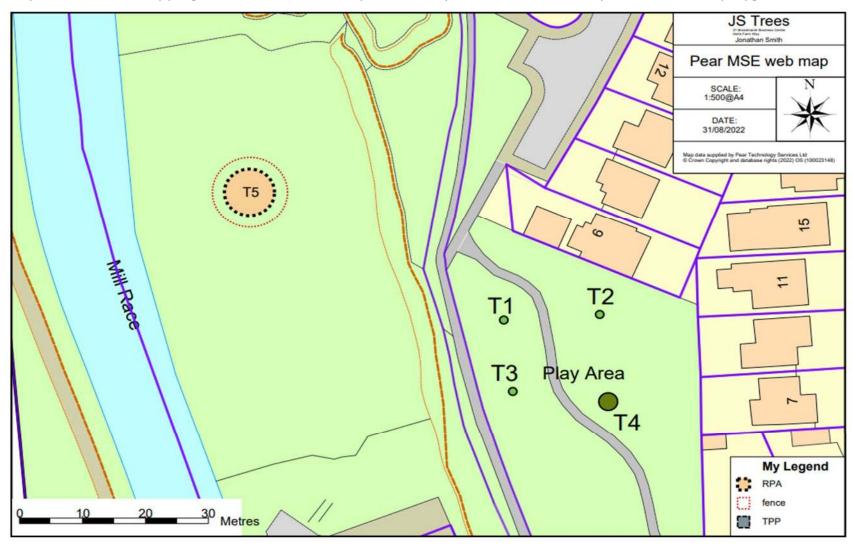
Note: Training quoted is online, but is also available at Pear Technology offices or on site. The pricing below is indicative and Pear Technology will produce a quotation based upon your own requirements. Prices are plus VAT. Hardware incurs £20 delivery/insurance charge.

Leasing may be available to limited companies, upon request.

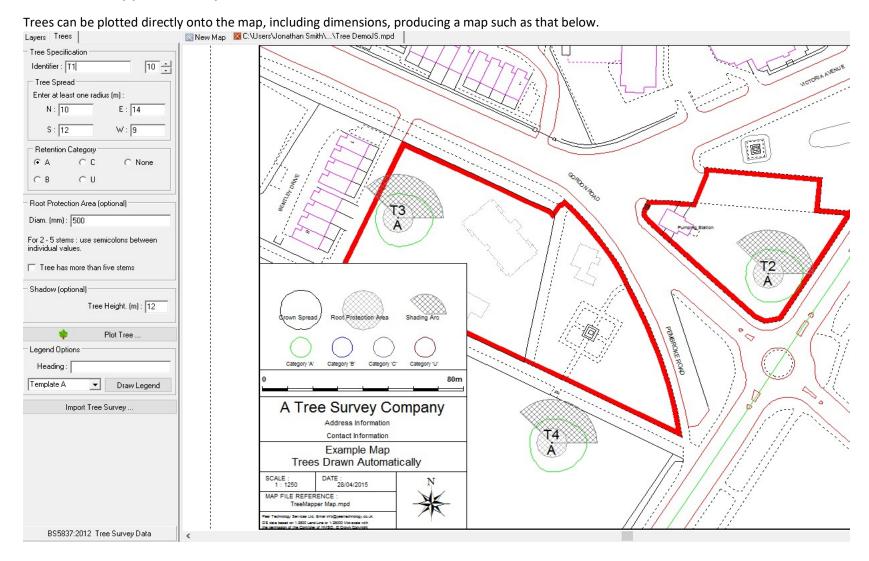
Usage and Output		Requirements	Costs		
1. Web mapping	Pear MapShop Editor	Browser based	Free		
			withPearMapShop		
2. Basic	PT Mapper Pro –	PT Mapper Pro	£895		
producing BS 5837 maps from	Uses Ordnance Survey Master Map or VML data,	Minimum 1.5 hours online training	£135		
recording/marking up maps for individual	"topo" maps, CAD drawings, scanned paper maps:	Annual technical support/software			
properties in the field and updating PT	Import/export .mpd, .dxf, .shp,.mif, .kml (Google	updates	150pa		
Mapper Pro. No hand held device for	Earth), raster (.jpg, .bmp)				
data capture/surveys in the field	Edit map –		Total £1,180		
	Add trees to BS 5837, or icon or as groups of trees				
This is insufficient to lease	Measure distances, areas.				
	Add lines, shapes, text, additional map layers .				
	Produce map of just area required, add title box and				
	legend				
	Print to pdf or paper				
3. Field Data Capture	As above, plus performance of field data surveys for	As above, plus Pocket GIS ,	As above plus		
- using own Android device	BS5837, General Survey, VTA, Assets, lines and areas	technical support and training.	PGIS £600		
(phone or tablet)	plus free option to modify/create surveys	This assumes you are using your	Tech Supp £115pa		
	Android and Pocket GIS Windows 10 versions	own Android/Windows 10 device.	Trg £135		
	available	Pear Technology can supply	-		
		hardware – see below.	Total 2,030		
4. As above plus	As above, plus tree management and reporting	As above, plus	As above plus		
analysis, reporting and themed	facility using TreeMinder. TreeMinder analyses the	MapLink and TreeMinder,	£800		
map production	data collected during survey and produces reports	training	£90		
	according to criteria selected.	technical support	£170pa		
	MapLink enables "theming" of the map eg immediately shows by colour, trees requiring urgent		Total £3,090		
	work or forestry areas coloured to show felling year,				
	species, grants etc				
5. Subscriptions	PearGIS plus Pocket GIS		£120/mth £625pa		
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Pear MapShop Editor

Simple web based mapping. Uses Ordnance Survey MasterMap data, to which text, points, lines and polygons can be added.



1. Basic – PT Mapper Pro only. £1,180



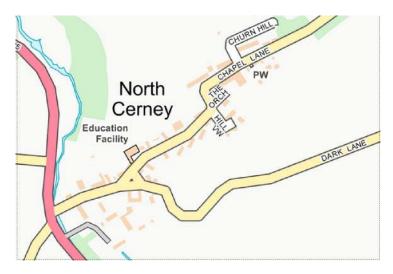
PT Mapper Pro does much more than this - see http://www.peartechnology.co.uk/products/ptmapper/

Pear MapShop – OS data purchase (if required) and web mapping option.

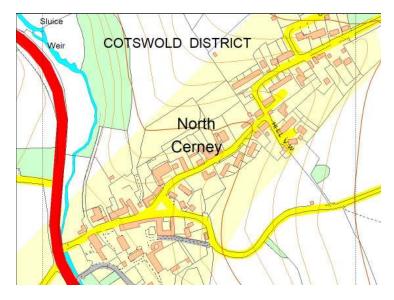
Pear Technology is an Ordnance Survey partner, and as such can supply OS maps as required, or PT Mapper Pro can import "topos" (.dxf) from CAD. Select your required map, using Pear Technology MapShop. This enables you to outline an area, get a quote, order, download and open in PT Mapper Pro. See screenshot below.

The first hectare of MasterMap data costs £19.40, subsequent hectares c. £8. For larger sites, OS VML (Vector Map Local) may be suitable and costs £29.90 for 100 hectares. Pear MapShop also includes free use of MapShop Editor for simple, web based mapping requirements.





Free OS map



North Ce

Ordnance Survey MasterMap

You can also import a variety of other map data, for use with the map, including:

Land Registry, SSSI, flood areas, ancient woodland and National Tree Map from Bluesky (<u>www.bluesky-world.com</u>), see below



The NTM data gives you the position, height and crown spread for every tree over 3metres high. That data can be imported into a survey template, so that **before you even get to site**, **the survey is partly done!**

2. Field Data Capture – Using PocketGIS software £2,025

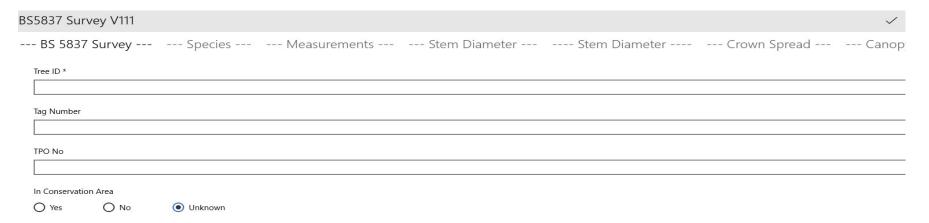
Export map from PC to mobile device. Use GPS to locate position of tree. Tap position of tree on map to open survey and follow survey instructions. Most fields are drop down or numerical entry, for speed and accuracy.

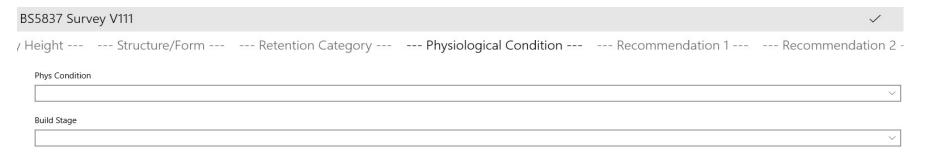
The result created is a .csv or spreadsheet file. This can then be imported to create a map like that above, but with accurately plotted trees.

The spreadsheet created can be used as the basis or appendix of reports.

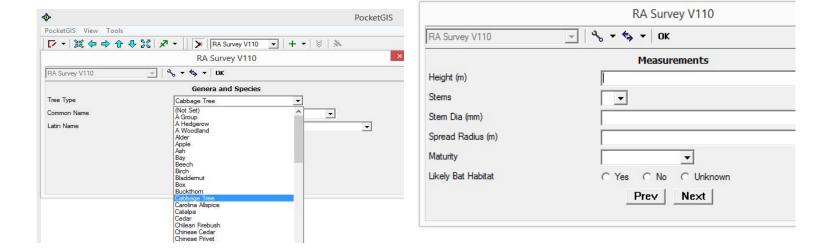
Surveys

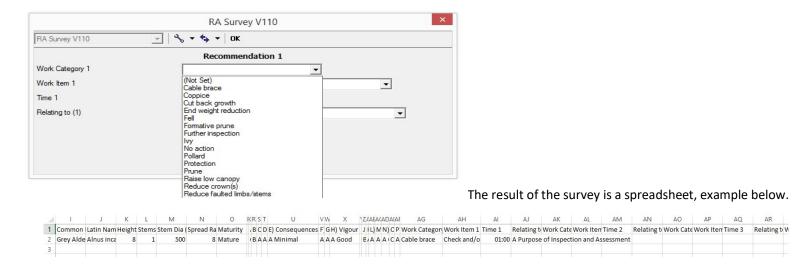
Existing, free surveys include BS5837, General Survey, Risk Assessment Survey, lines and areas, assets. Additional free surveys include: VTA; THREATS, TEMPO; W-TEMPO; Ash; Mortgage; bracken; reptiles; bats. The surveys can include photographs, can use voice to text and also voice recording. You can also revise these or create your own survey.





Risk Assessment Survey - Sample Screenshots

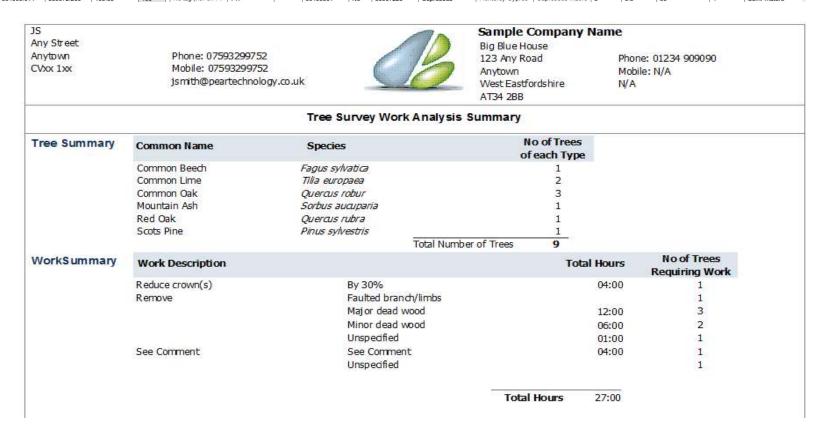


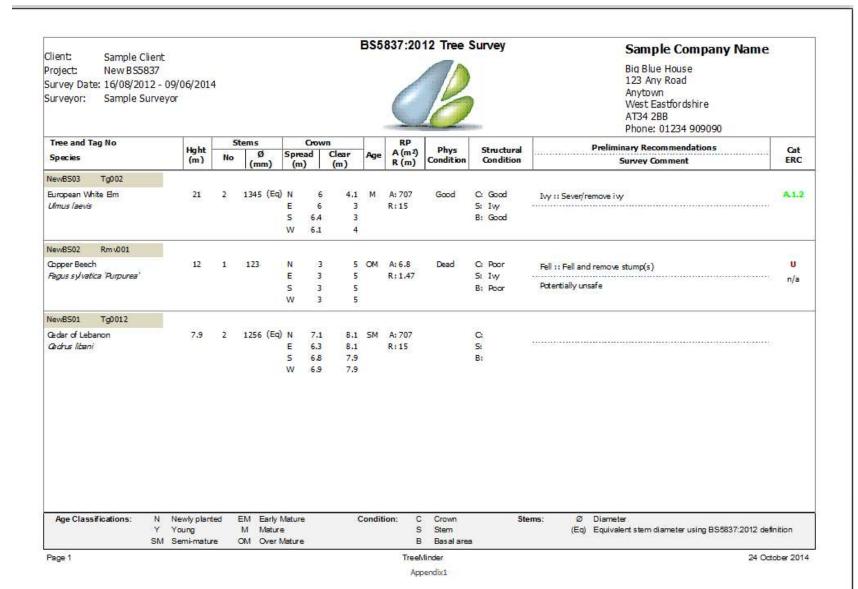


3.TreeMinder and MapLink £3,085

TreeMinder allows the user to focus on the data collected from the survey and produce a range of reports.

Easting	Northing	Height	ID	G Comment	Tag No	TPO No	E cm	In Con	N cm	Tree Type	Common Name	Latin Name	Stems	Height (m)	Stem Dia (mm)	Spread (m	Maturity
363897.451	339167.123	101.65	93	Weak crown som	739		36389745	No	33916712	Prunus	Wild Cherry	Prunus avium	1	4	200	3	Semi-mature
363901.004	339171.517	113.45	94		741		36390100	No	33917151	Prunus	Wild Cherry	Prunus avium	1	8	290	2.6	Semi-mature
363903.059	339164.366	103.85	95		742		36390305	No	33916436	Prunus	Wild Cherry	Prunus avium	1	6	190	4	Semi-mature
363958.316	339135.988	104.15	96	Minor bark lift	743		36395831	No	33913598	Apple			1	6	190	2.5	Mature
363988.979	339181.651	103.85	97		744		36398897	No	33918165	Prunus	Wild Cherry	Prunus avium	1	7	230	3.6	Semi-mature
364001.586	339133.402	113.25	98	Canker in stem	745		36400158	No	33913340	Prunus	Wild Cherry	Prunus avium	1	7	270	4	Semi-mature
364000.449	339120.378	101.75	99	Some canker in s	746		36400044	No	33912037	Maple	Norway Maple	Acer platanoides	1	12	700	7	Semi-mature
364008.614	339072.209	105.35	100	No tag (nor on 74	747		36400861	No	33907220	Cupressus	Monterey Cypres	Cupressus macro	3	9.5	30	4	Semi-mature





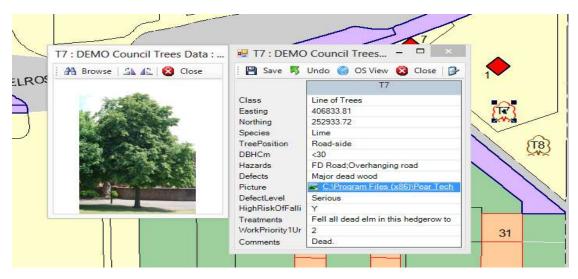
MapLink

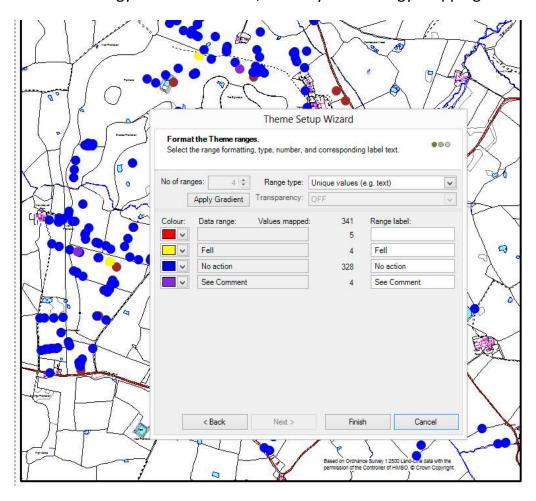
MapLink links the underlying data (eg that gathered whilst surveying in the field) and represents that data on the map, thus visually highlighting the distribution of trees according to the criteria chosen eg

- Where are the trees requiring urgent attention
- Tree species distribution
- Tree disease distribution
- Planting date distribution
- Felling date distribution
- Bat habitat
- Height

You can also:

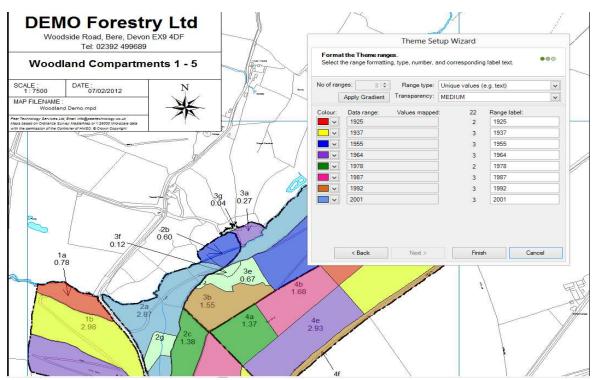
- click on an individual tree to pull up the data related to that tree
- Connect an image or document to that tree record





Maplink is very useful for forestry requirements in showing compartments and sub compartments by eg

- Species
- Maturity
- Planting date
- Felling date
- Grants applied for/won
- Soil ph



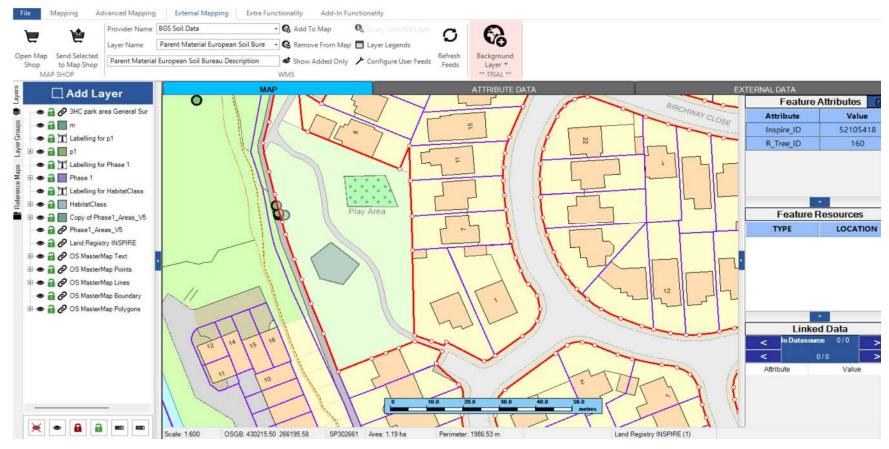
PearGIS

PearGIS is the latest software from Pear Technology. It is compatible for use with PT Mapper Pro, TreeMinder and all main GIS software.

PearGIS enables the linking of data attributes, external data sources and can incorporate WMS (web mapping service) map feeds, such as from British Geological Survey, DEFRA and other sources.

PearGIS also provides the facility for Phase 1 and UK Hab(coming soon) ecology surveys and mapping. There is a new, easy to use Survey Designer for use with PearGIS.

See https://www.peartechnology.co.uk/products/peargis/ and for mini videos, see https://www.peartechnology.co.uk/support/peargis/.

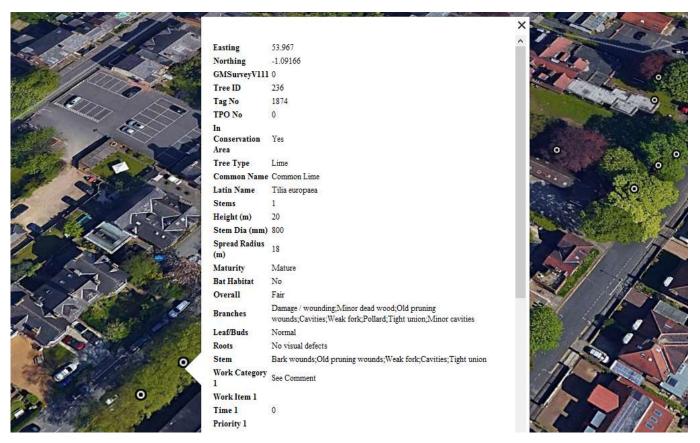


Google Earth

If you select an item in PT Mapper Pro, then if you have an internet connection, you can click on the Google Earth (GE) icon in PTMP, which will open GE and zoom to your selection.

With Google Earth, you can draw around an area and copy that outline back across to PT Mapper Pro. This is helpful if feature are visible on GE, but not shown on the map. However, Ordnance Survey mapping is based on OS aerial imagery (which we can supply), so GE outlines are not guaranteed to line up.

You can also link your survey data to GE (subject to converting eastings and northings to latitude and longitude for interpretation by GE – call us if needed).



5.Hardware

Hardware available from Pear Technology for use with the above for tree surveys and field based data capture. We may be able to provide a trial and can certainly advise, based on your requirements.

Hardware prices include setup and support under warranty.

Pocket GIS Android can also be run on other Android phones and tablets. Pocket GIS Windows 10, runs on Windows 10 phones, tablets and computers.

We are able to provide a trial copy of Pocket GIS, for use on these devices. **Leasing** is an option for limited companies, subject to approval by Grenke Leasing. Prices are based on 3 year lease, 3 year warranty and are payable quarterly. There is an option to purchase for 5% of original price at end of contract.

Weekly hire of equipment is also a possible option. Prices are plus delivery and VAT. Hirer to pay return delivery. Hire hardware includes Pocket GIS.

Trimble TDC600 £175, Panasonic FZ-A3, Juniper Geode sub metre GPS £175/week each

PocketGIS software, required for performing surveys using hand held device, Windows or Android, £ 600



Trimble TDC600, 6" screen , Android 10, 1.5 metre GPS, 13mp camera, IP67 (waterproof), 15 hour battery, 380g, 2 year warranty £1,525



Juniper CT8X2, 8" screen, Android 10, c. 2m GPS, 560g, 12 month warranty £965

Panasonic FZ-A3 10" Android 10 tablet, ruggedized, IP65, 1920 x 1200, camera, 2-4m GPS, twin battery, 980g. For use with Pocket GIS Android 3 year warranty £ 1,395





Geode GNS2



Geode GNS3

Juniper Geode

Sub metre possible under canopy and 30cm possible in open, with no ongoing cost. price, including universal mounting bracket for hand held/tablet GNS2, limited stock, £1777

GNS3 model:

Base model	single L1 frequency	£2,150
Multi frequenc	cy capable, with upgrade	£2,450

10cm GPS accuracy,

Multi frequency, L1,L2,L5
Capable of using Atlas correction service, plus annual cost of 10cm Atlas service £1,450

Please contact Pear Technology for the latest details.

Optional accessories include lightweight, telescopic monopod and clamp and backpack with monopod and Geode.

