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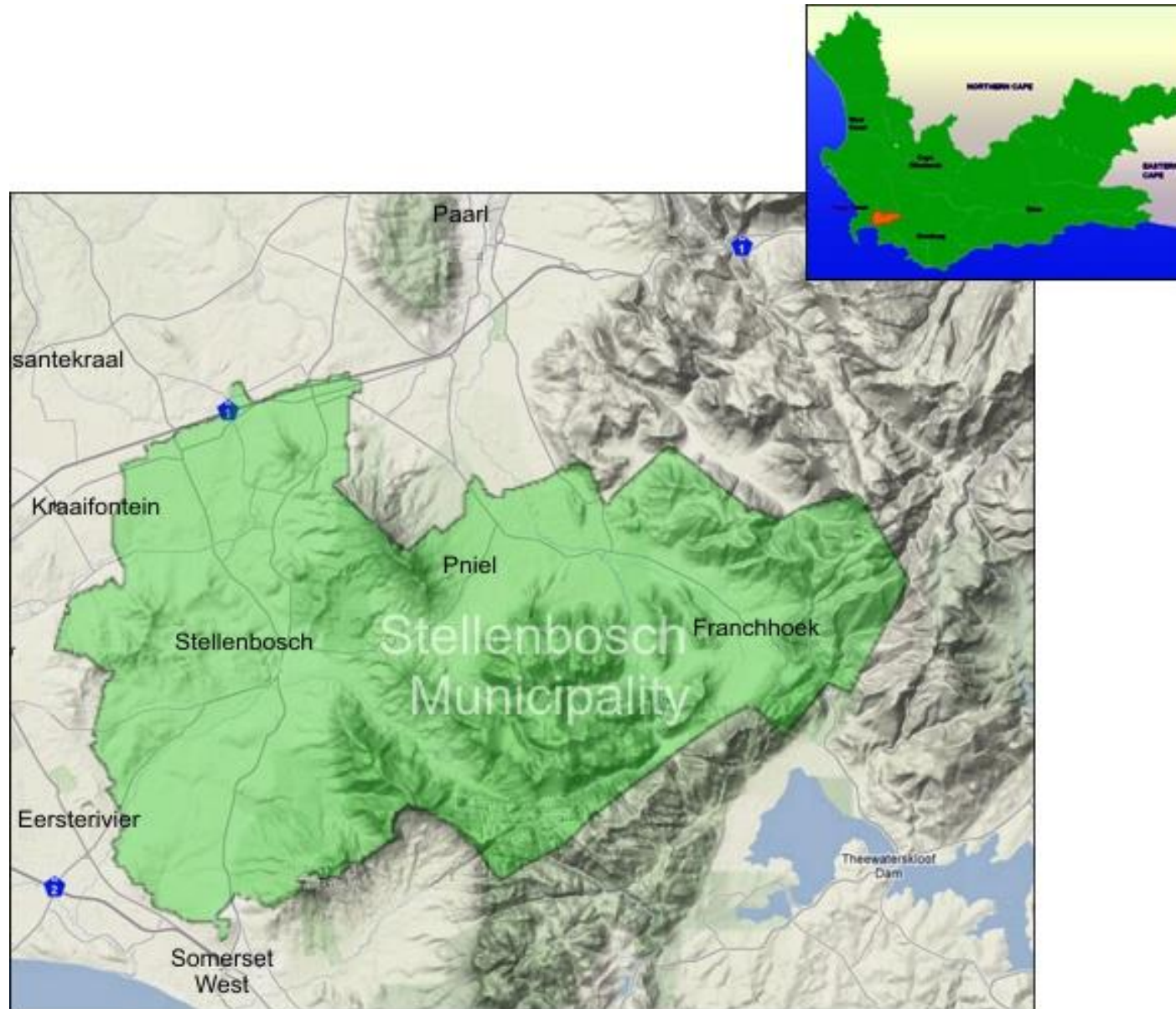
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ARBOR CITY AWARDS

2014 & 2017



Background



iNNOVATION CAPITAL OF SOUTH AFRICA

STELLENBOSCH

Mission

Our mission is to deliver cost-effective services that will provide the most enabling environment for civil and corporate citizens.

Our Values

Integrity
Accountability
Respect
Excellence
Innovation

PREFERRED INVESTMENT DESTINATION **GREENEST MUNICIPALITY** **SAFEST TOWN** **DIGNIFIED LIVING** **GOOD GOVERNANCE & COMPLIANCE**

TRANSFORMATION

CHARACTER LEADERSHIP: OUR VALUES

INNOVATION

Policy Environment

Spatial Development
Framework

Environmental
Management
Framework

Draft Tree
Management Policy

By-law for Parks,
Nature Conservation,
Plantations and
Recreation.

POLICY FRAMEWORK



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Strategies



Networks and Support Systems

Community Based Networks:

- GHoE; Spier, Wildlands; Enkanini Water Hustlers; Isidima
- Community Gardens: September Street Garden in Cloetesville
- Eco warrior (Klapmuts);
- Tree Advisory Committee;
- Mont Rochelle Nature Reserves Advisory Board;
- Green Stakeholder Meetings
- Protected Areas Forum;
- Parks Committees;
- Swop shop
- Rietenbosch Primary
- Treepreneurs Jamestown/ Klapmuts

Governmental:

- DAFF
- DEA- IAP Projects (CSIR); chippers
- Provincial- capacity building; WfW
- Fire Protection Association
- University



Expanded Public Works Programme

	Number of Jobs Created
Urban Forestry	15
Nature Conservation & EE	130
Ornamental Horticulture	20
Sports & Amenities	10
Parks, Area Cleaning, Rivers	240
TOTAL	415



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Branding & Marketing

OFFICIAL NOTICE CALL FOR NOMINATIONS: STELLENBOSCH MUNICIPALITY TREE ADVISORY BOARD

Notice is hereby given for nominations for members of the Tree Advisory Board. This board creates the opportunity for the public to have input on the care and protection of our tree heritage. Nine vacancies exist which must be filled by Council. The term of office is three calendar years.

Nominations should reach the undersigned by not later than 31 May 2017 at 12:00 at the offices of the Stellenbosch Urban Greening section, 123 Merriman Avenue, Stellenbosch. Nominations should include, inter alia, a Curriculum Vitae as well as an acceptance of the nomination by the person being nominated.

Closing date: 12:00pm, Wednesday, 31 May 2017

Address: 123 Merriman Avenue, Stellenbosch

Following these nominations, Stellenbosch Municipality will appoint nine members to the Tree Advisory Board. The decision of the Municipality will be final.

Interested people from previously disadvantaged communities are specifically invited to avail themselves for this voluntary Advisory Board, thereby ensuring a representative advisory forum that can serve the whole of the community. Please note that there is no remuneration attached to these positions.

For further information and the Terms of Reference, please contact Maindren Chettiar or Portia Bolton at:

Tel: 021 808 8132/80

Fax: 021 887 7446

E-mail: Maindrenc@stellenbosch.gov.za

Cell: 062 950 7038 (during office hours)

**MUNICIPAL MANAGER
G METTLER**

Notice Number: 9/2011

Date: 08/05/2017

Media

AMPTELIKE KENNISGEWING VERSOEK VIR NOMINASIES: STELLENBOSCH MUNISIPALITEIT SE BOOM ADVIESKOMITEE

Kennis word hiermee gegee vir nominasies as lede van die Boom Advieskomitee vir Stellenbosch Munisipaliteit. Die Advieskomitee bied 'n geleentheid aan die publiek om insette te lewer oor die beskerming en versorging van ons natuurlike erfenis. Nege vakante poste bestaan wat deur Stellenbosch Munisipaliteit gevul moet word. Die dienstermyn is drie kalenderjaar.

Nominasies moet die ondergetekende bereik teen nie later nie as 31 Mei 2017 om 12:00 by die kantoor van Omgewing, Sport en Fasiliteite. Nominasies moet onder andere die volgende insluit: 'n Curriculum Vitae sowel as 'n aanvaarding van die nominasie deur die genomineerde.

Sluitingsdatum: 12:00m, Woensdag, 31 Mei 2017

Adres: Merrimaniaan 123, Stellenbosch

Na ontvang van die nominasies sal Stellenbosch Munisipaliteit negen lede aanstel as die Advieskomitee - die besluit van die Munisipaliteit is final.

Belangstellendes uit voorheen benadeelde groepe word veral genooi om hulle beskikbaar te stel vir hierdie vrywillige advies raad om sodoende 'n verteenwoordigende forum daar te stel wat die gemeenskap in sy geheel kan dien. Dit word beklemtoon dat daar geen vergoeding aan die poste gekoppel is nie.

Vir verdere inligting en die verwysingsraamwerk kan Maindren Chettiar of Portia Bolton geskakel word by:

Tel: 021 808 8132/80

Faks: 021 887 7446

E-pos: Maindrenc@stellenbosch.gov.za

Sell: 062 950 7038 (gedurende kantoorure)

**MUNISIPALE BESTUURDER
G METTLER**

Kennisgewingsnommer: 9/2011

Datum: 08/05/2017

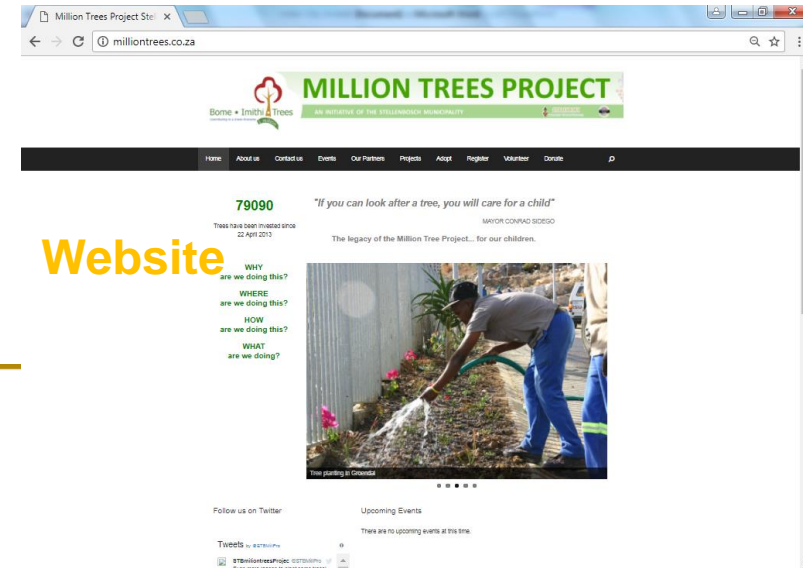
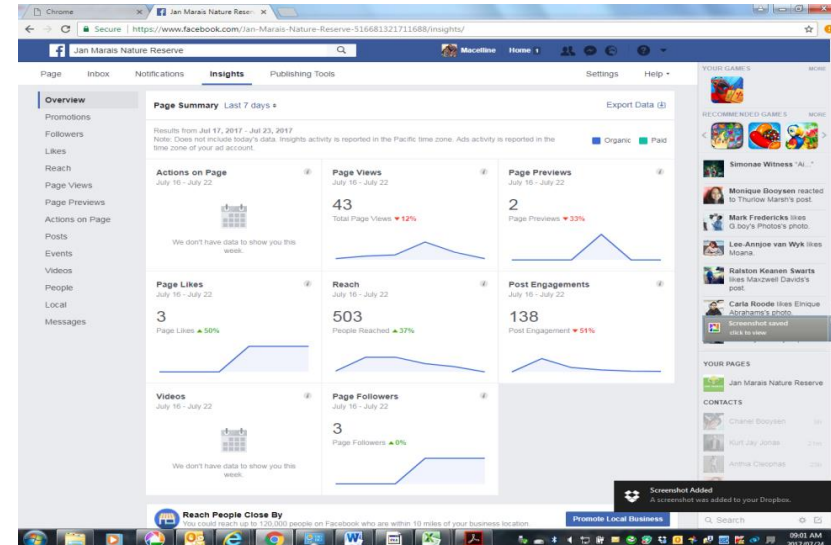
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Branding



Social Media



Website

Training and Capacity Building



- Horticultural Learnership
- Field Guides Association of South Africa
- Brushcutter and Chainsaw training
- IAP training (South African Green Councils Association)
- Turfgrass Management
- Alien Clearing, Restoration and Alien Biomass Economies (ACRABE) working group
- Urban Forestry Workshop (IERM)
- Quantified Tree Risk Assessment Training (first in country)
- [Arboriculture NQF 3 & Tree Climbing NQF4 \(NEW\)](#)
- [Arboricultural Consulting Tender](#)



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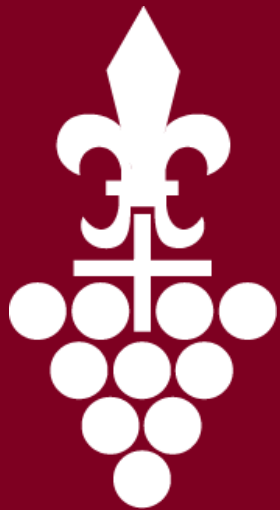
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INNOVATION
CAPITAL

Initiatives

Division	
Urban Forestry	Eco Warriors; Decompaction, Oak Tree Management; Food 'Securitree'Tree Planting;
Nature Conservation	Invasive Alien Plant Eradication projects; biomass 'up-cycling'; firebreak management; restoration projects Environmental Education
Ornamental Horticulture	CBD Water Feature; Wormery; Free2Grow; Winelands in Bloom; Beautification Operations; Xeriscaping; Master Planning; composting; alternative water sources
Parks, Area Cleaning, Rivers	Parks Development; River Collaborative & River Stewardship Initiative
Sports & Amenities	Astroturf & Alternative Water Source projects.
Solid Waste Department	Swop Shop
LED and Nature Conservation Dept	Recycle-cycles and Igloos



Urban Forestry

Vision: To be the leader in urban forestry management and best practices in arboriculture in South Africa and the continent of Africa!



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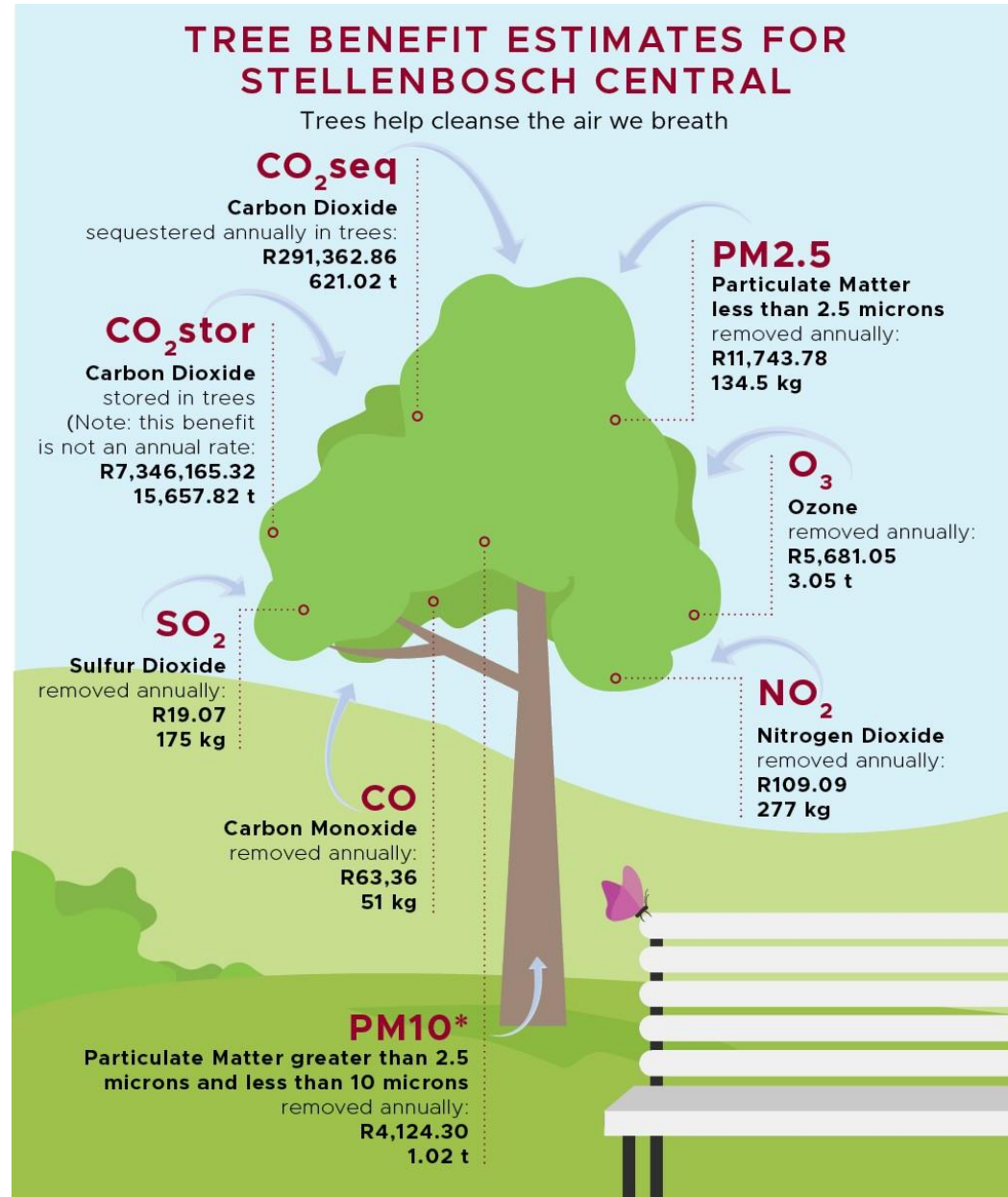
How do we do this?

- Apply best practice arboricultural standards-
 - have customised manuals for tree pruning & planting;
 - do formative pruning;
 - SANA standards for tree procurement;
 - tree protection zones.
 - Tree surveys & hazard assessments (ISA)
- Training
- Urban Forest Annual Plan of Operations
- Climate Change Mitigation Initiatives
- Benchmark: Draft Tree Management Policy.
- Tree Surveys: Classify tree hazards:
 - green- visual;
 - orange- hazard assessment;
 - red- PICUS.

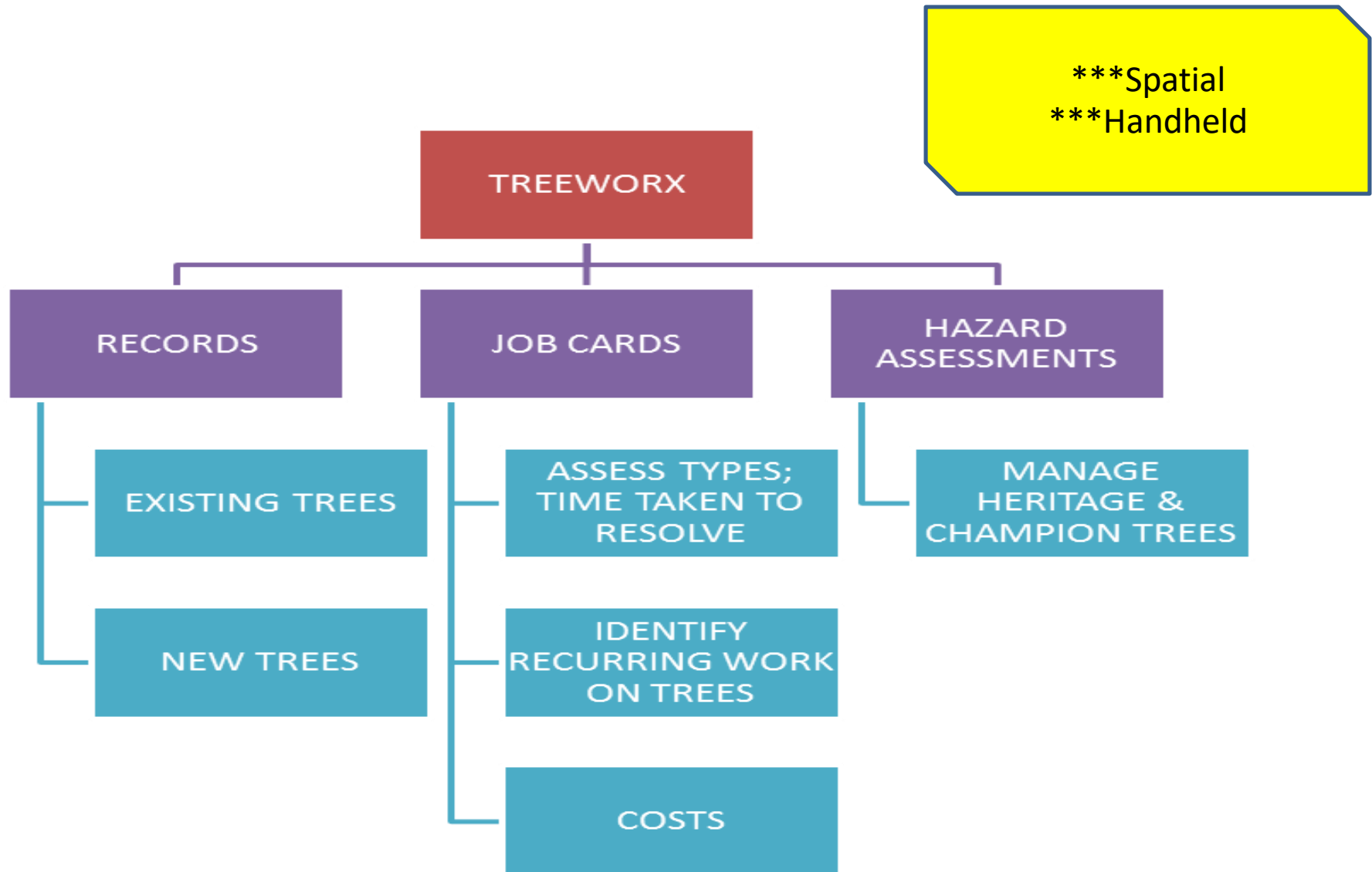


How we do this?

- Technology- I-tree software tools & urban forestry management tools (Treeworx).
- Sustainability Plan: Eco Warrior-suburb based.
- Collaboration and Partnerships: TAC; Stakeholder Groups.
- EE- branding; website; media articles.
- Interdepartmental cooperation: building plans; development plans; way leave services inspections
- Job creation
- Events
- Drought response



'Treeworx' Urban Forestry Management Tool



TREWORX

TreeWorx - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:1 500 Labeling Fast Publisher

Editor

Table Of Contents

Layers

- Tree
- Imagery\T2016_10cmGSD

Identify

Identify from: <Top-most layer>

Tree

Location: -13 602.193 -3 757 043.424 Meters

Field	Value
OBJECTID	622
HazardRating	5
Tree Number	622
SHAPE	Point
GlobalID	{5000B28D-4C0F-4A98-9FE...
Tree Name	Quercus robur English oak
Date Planted	<null>
Inspection Frequency (Years)	3
Tree Owner	<null>
Tree Status	<null>
Diameter at Breast Height (m)	<null>
Circumference	0.33
D&H Measure Method	Tape Measure
Approximate Height (m)	12.5
Age Class	Semi-mature
Tree Vigour	Good
Position	<null>
Approximate Value (R)	<null>
Trunk Type	<null>
Stress Cracks in Trunk?	<null>
Circumference of Ringbarking (m)	<null>
Height of Ringbarking (m)	<null>

Identified 1 feature

-13541.074 -3756956.112 Meters

09:54 AM 2017/07/21

Hazard Assessment Form



Tree Protection Zones



Champion Tree Management



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The Conservation and Protection of Existing Trees



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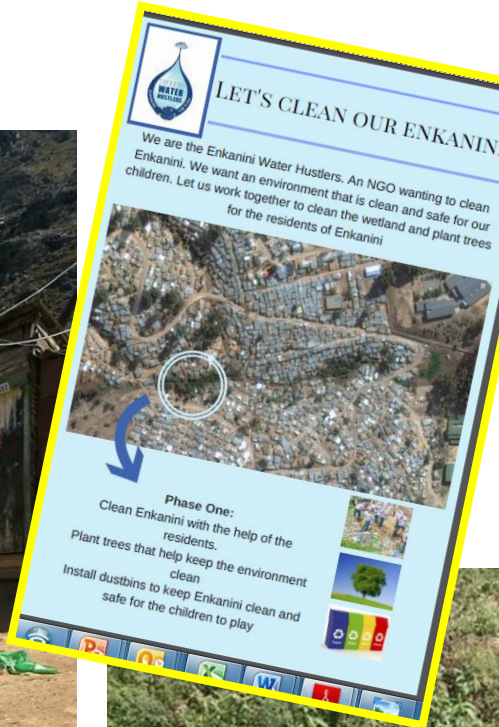
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CAPITAL



ORGANIC TRIALS

Climate Change Mitigation Project: Greening the Heart of Enkanini

Biomimicry Model







Arbor Week Expos



Fruit and Indigenous Trees



Tree Planting



Orienteering in the forest.

EVENTS & AWARENESS CREATION

GUINNESS WORLD RECORD TREE HUG

ATTEMPT 2015

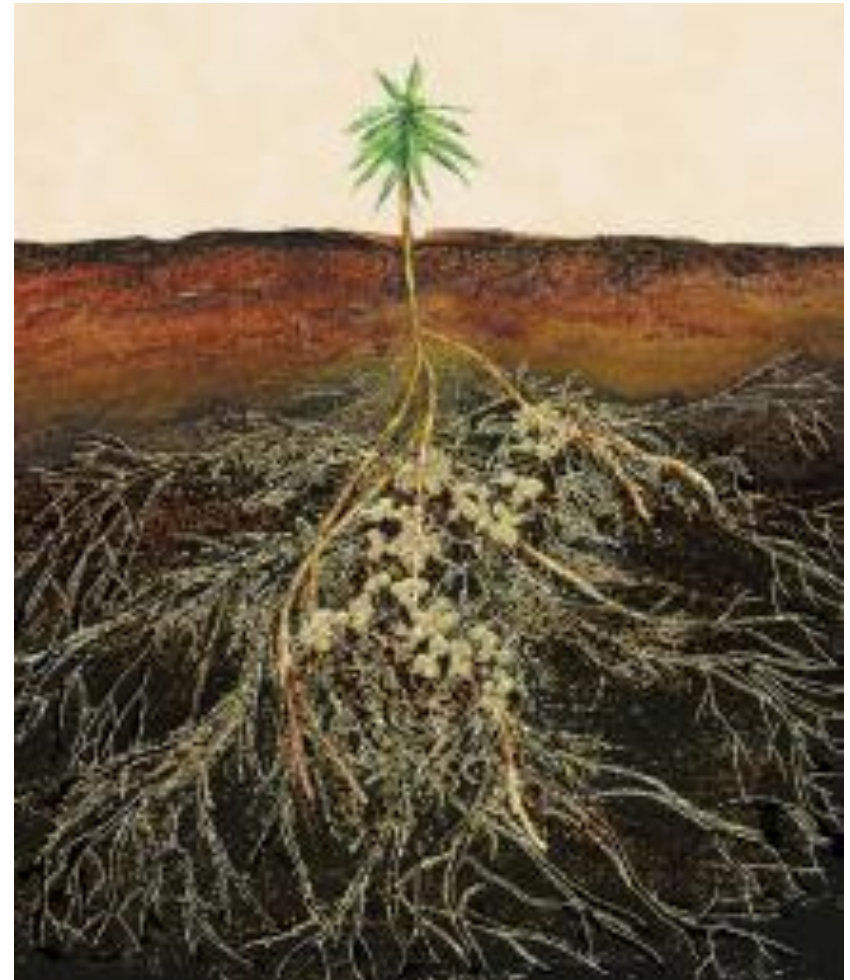


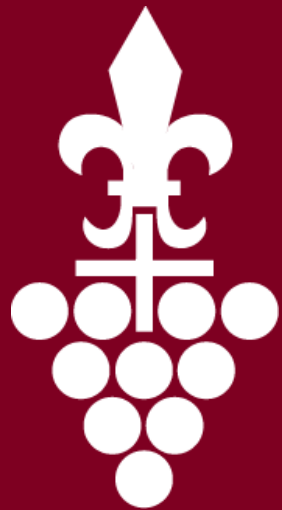


2018 here
we come!

NEW VENTURES

- Drought Response:
Mycorrhizae- increased
water and nutrient
absorption capabilities
- Arboricultural consultancy
tender.





Ornamental Horticulture



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Initiatives

- Food Security: urban food boxes
- Synthetic options: plants; grass
- SUDS- concave beds, cambered surfaces
- Drought: reduced gardens, permeable paving; mulch; treated effluent; grey water; soil amelioration and improved hydration
- Wormery: compost tea; compost
- Human waste compost from WWTW
- Master Planning
- Awareness campaigns: food security; biodiversity

Urban Food Boxes



Use of Synthetic Plants



Going Organic: Wormery



Xerophytic Planting Palette



Heritage/ Cultural Project



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Proposed Donut Wheel
Mock Up1





Pollinator Friendly Gardens

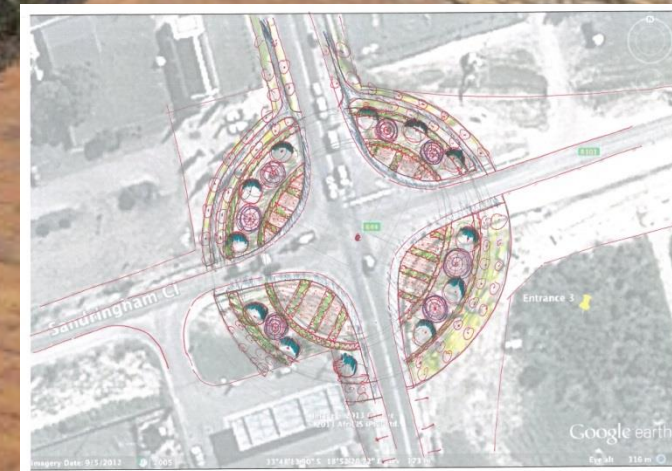
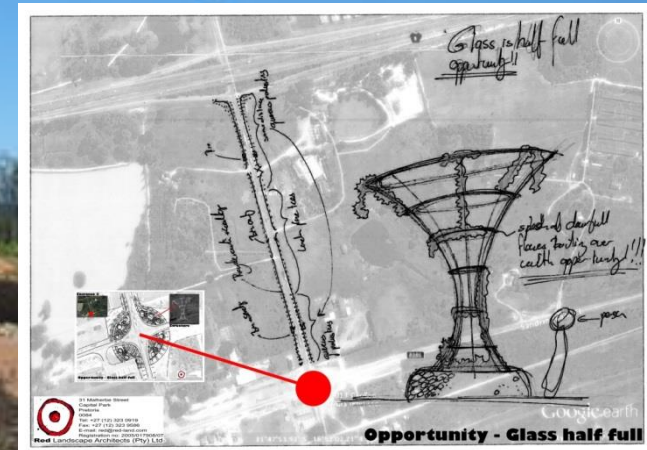


Innovation



Solar driven water
feature & xeriscape

Innovative landscape designs



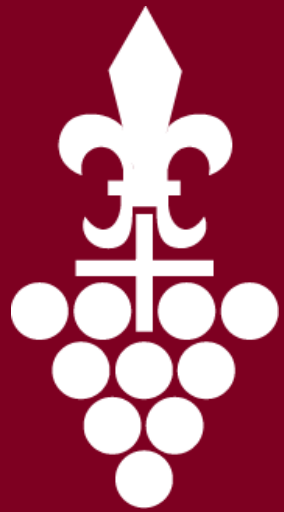
FUTURE PROJECTS



Future Project: WINELANDS IN BLOOM

PILOT PROJECT





Parks



KLAPMUTS LEGACY PARK 2015



PROPOSED MULTI PURPOSE PARK, KLAPMUTS
30 JANUARY 2014 - FOR DISCUSSION ONLY
SCALE 1:250





MOOIWATER
PARK,
FRANSCHHOEK
2017



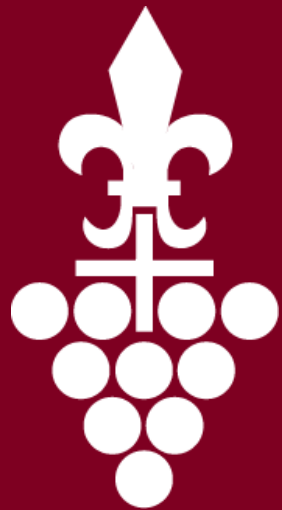


Parks & Wellness



Pop-up gym initiatives





River Management

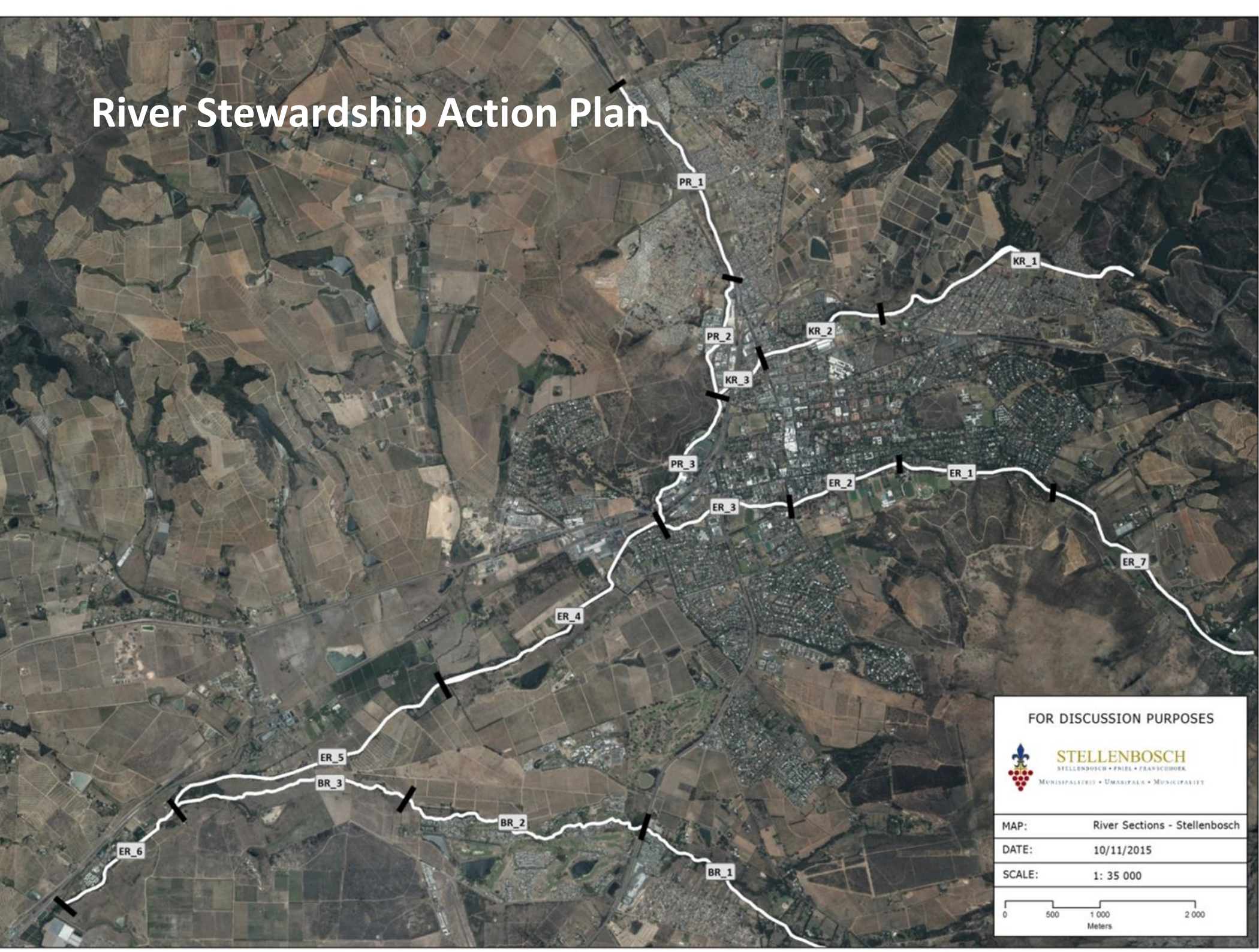


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River Stewardship Action Plan



FOR DISCUSSION PURPOSES



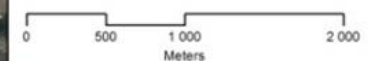
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MAP: River Sections - Stellenbosch



DATE: 10/11/2015

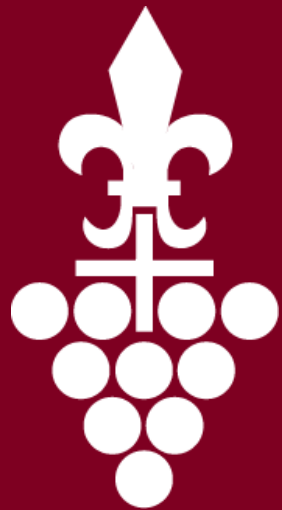
SCALE: 1: 35 000



River Management Areas



River Ref	Issue	Actions (Photo)
1	<u>Kukuyu</u>	<u>Kukuyu</u> to be cut and sprayed. In general, this should be for the whole of the area 15 meters from the river's edge. 
2	Nasturtiums [Kappertjies]	Nasturtiums to be cut and sprayed. In general, this should be for the whole of the area 15 meters from the river's edge. 



Area Cleaning & Recycling



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Innovation: Area Cleaning



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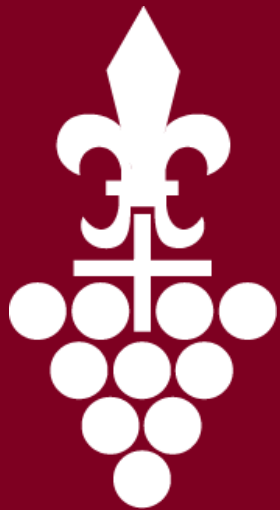


RECYCLING INITIATIVES



Swop Shop





Nature Conservation & Environmental Education



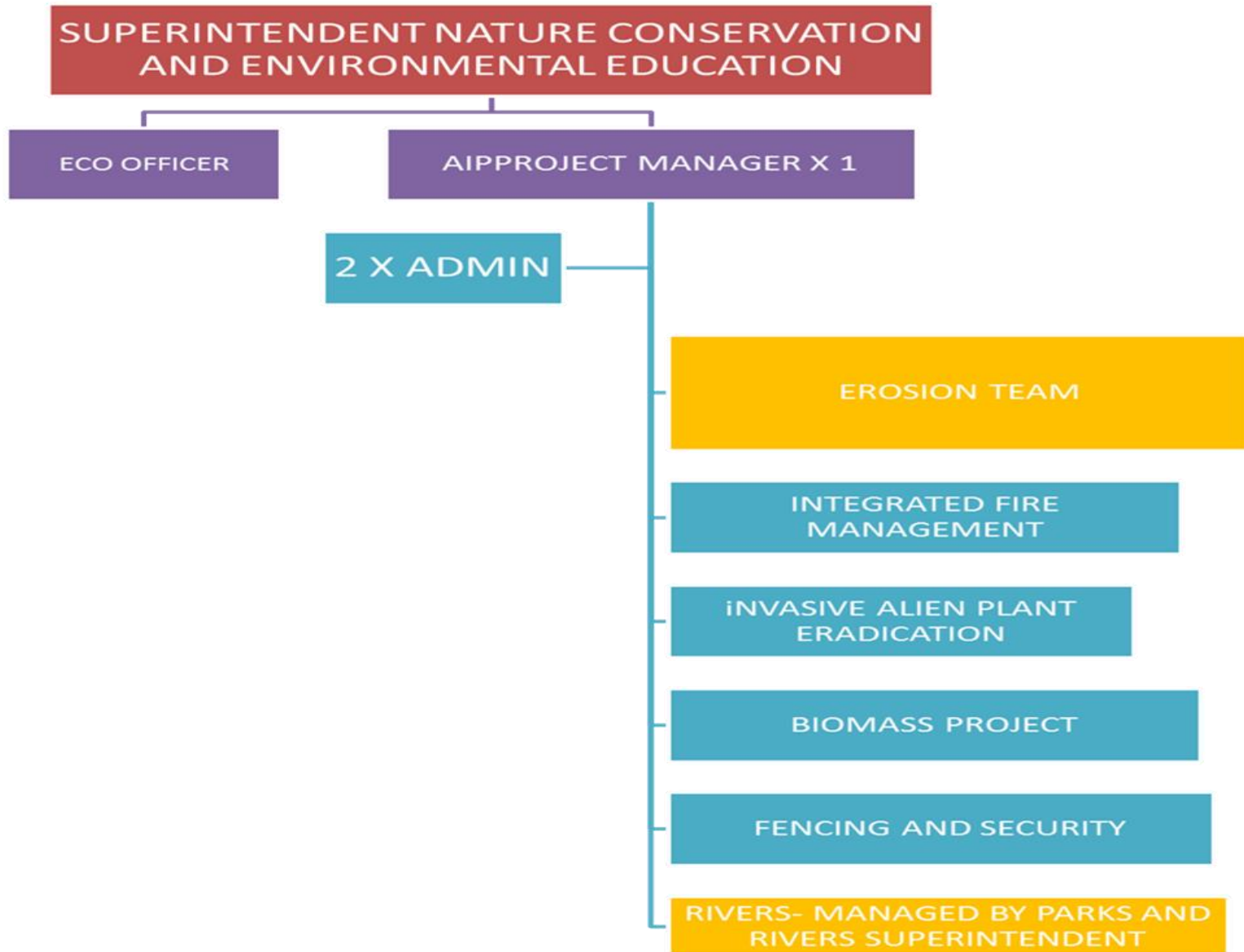
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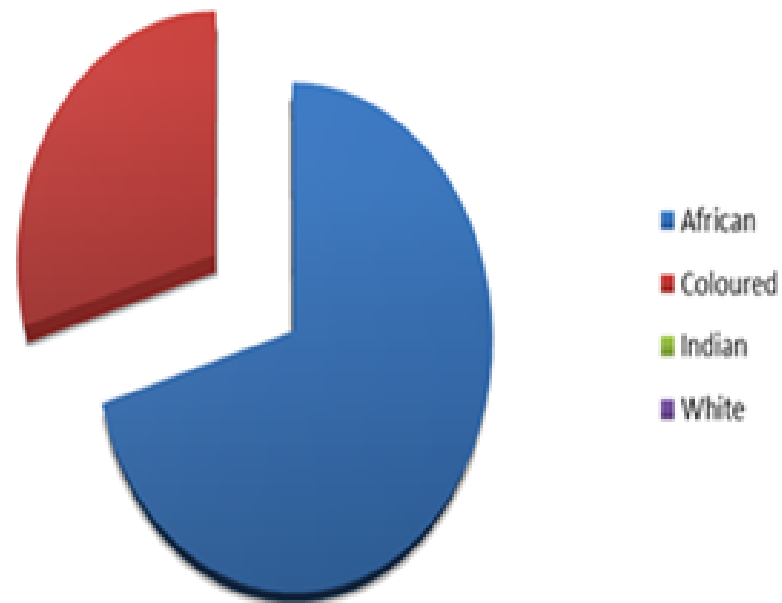
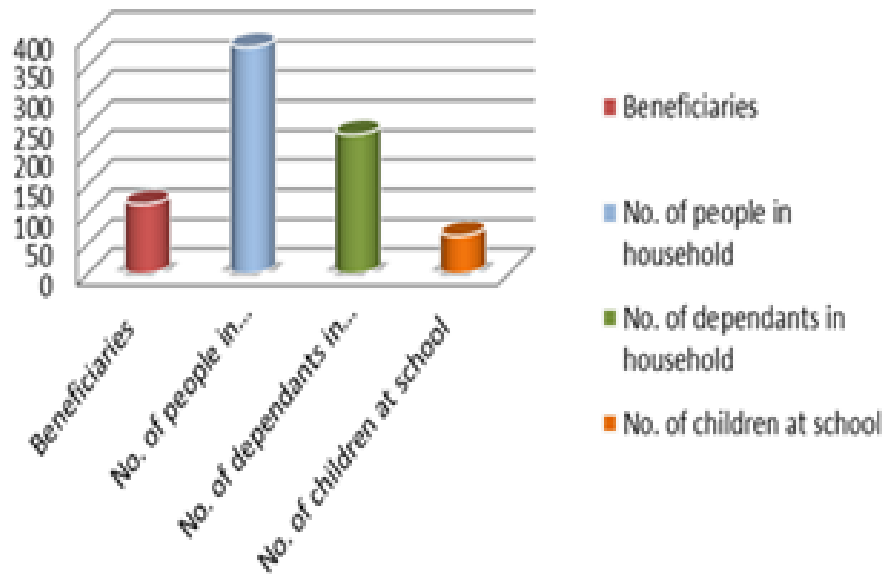
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Project Components



ECONOMIC IMPACT



IMPACT ON WATER RESOURCES (CSIR)

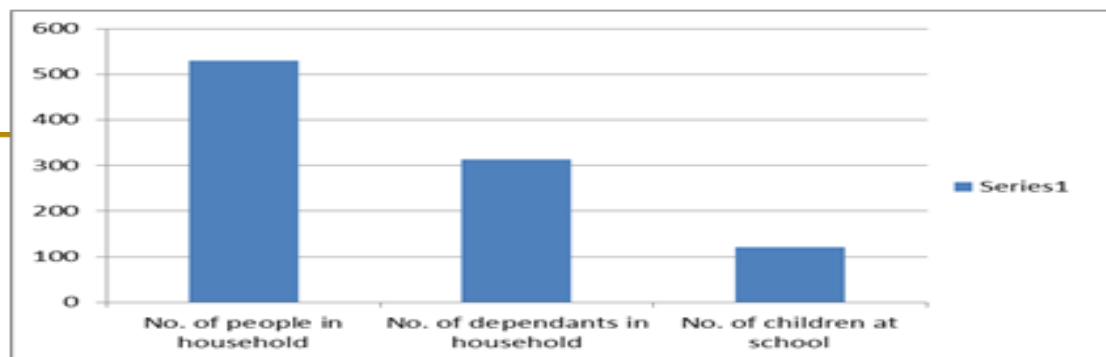
Property	MAR (mm)	Total gains (m3 per year)	Area ha	Gains (m3/ha/yr)
Botmaskop	222.9	345 695	161	2 150
CBA	112.1	2 757	30	93
Culcatta Bos	254.7	83 411	38	2 178
Idas Valley	201.3	364 997	308	1 187
Jan Marais NR	97.6	35	23	2
Jonkershoek Picnic Site	392.9	73 668	17	4 459
Kromrivier	220.6	147 095	29	5 161
Louwsbos	126.1	40 680	67	605
Mont Rochelle	652.5	1 980 549	1 902	1 041
Papegaaiberg	98.8	18 895	126	150
Paradyskloof	220.8	173 041	528	328
Plankenburg	155.8	89 712	25	3 647
Total		3 320 536	3 253	1 021



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BIOMASS UPCYCLED

Chipper	Tonnes
Jul-16	30
Aug-16	50
Sep-16	40
Oct-16	20
Nov-16	40
Dec-16	30
Jan-17	50
Feb-17	30
Mar-17	40
Apr-17	60
May-17	40
Jun-17	-
TOTAL	430 tonnes to date.



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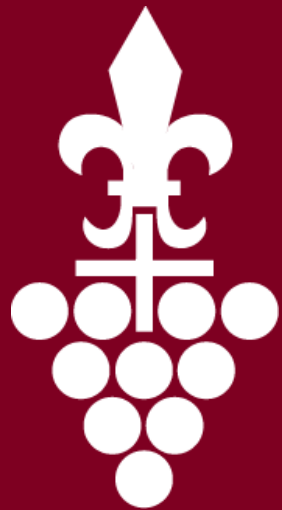
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Environmental Educational Programmes





Libraries

Library of the future is multifunctional.



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Libraries

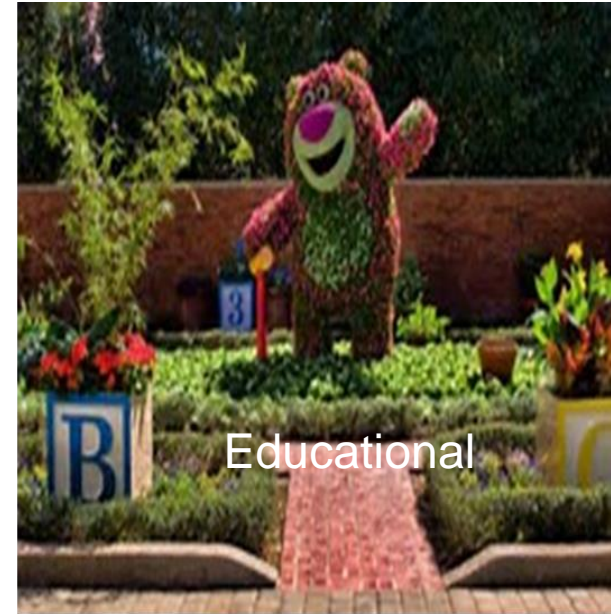
Recycling



Therapeutic



Educational



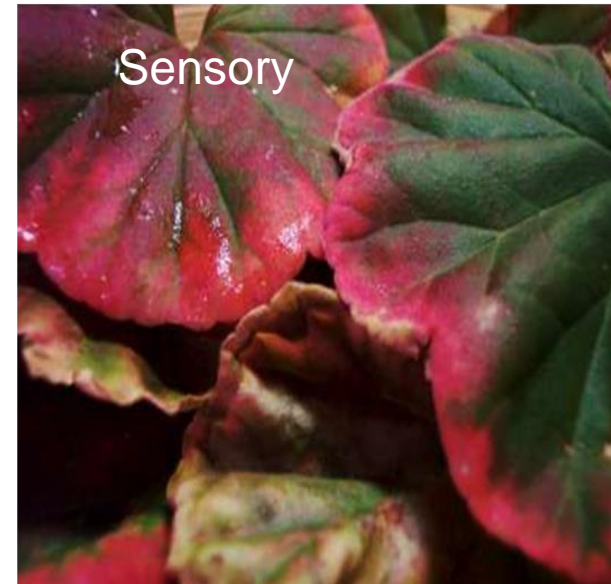
Enchanting



Appealing

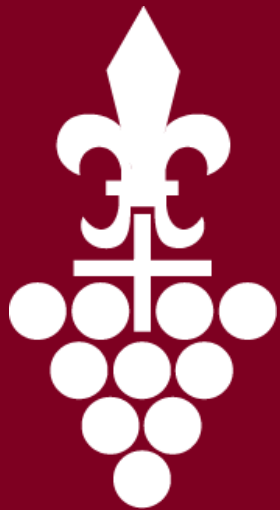


Sensory



Success

- Vision
- Collaboration and Networks
- Passionate, enthusiastic team
- Love for our communities and understanding the dynamics
- Innovation vs conventional
- International and local trends
- Interdepartmental collaboration



THANK YOU



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