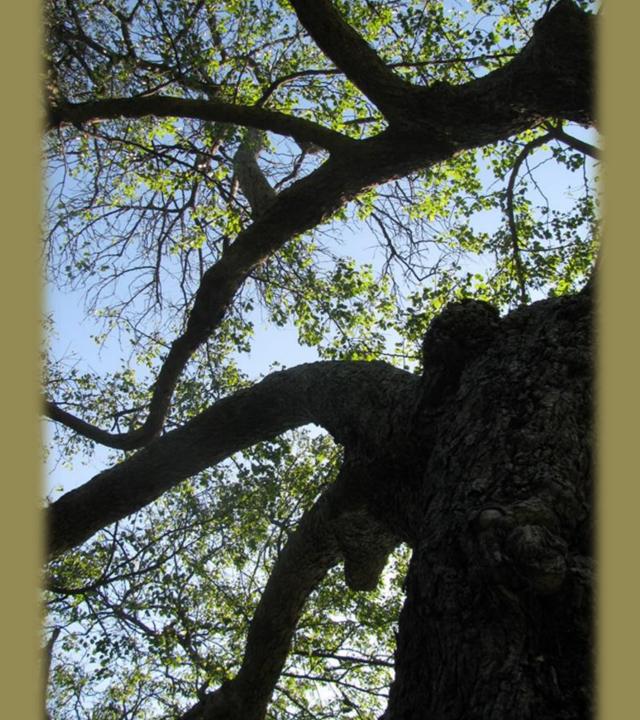


### By 2030 eThekwini will be Africa's most caring and liveable city



Place identity & the urban arboretum of the Durban Botanic Gardens:

the role of cultivated public gardens in influencing meanings of Nature within the city



## Contacting nature

"Man is an outdoor animal. He toils at desks and talks of ledgers and parlors and art galleries but the endurance that brought him these was developed by rude ancestors, whose claim to kinship he would scorn and whose vitality he has inherited and squandered. He is what he is by reason of countless ages of direct contact with nature."

James H. McBride, MD, 1902 Journal of the American Medical Association



#### What is the future of urban 'Nature'?



No Park, Just Parking... They paved paradise...



#### Nature?

 'Nature is culture; science is art. We don't ever "see nature" in the raw, but always cooked in categories and clothed in the garments of language and representation...'



WJT Mitchell
The Last Dinosaur Book

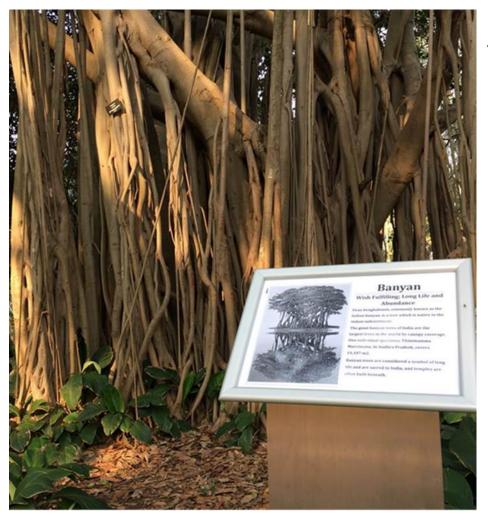
### Defining a botanic garden...

A botanic gardens may delight the eye and the aesthetic senses, satisfy idle curiosity and excite wonder, but the capacity to produce these reactions is of only secondary importance to its basic function: accumulating botanical and horticultural knowledge (research) and disseminating that knowledge (information and education). Prof Donal McCracken





#### Finding meaning in urban nature



Trees, being rich in symbolic meanings, have a natural intergenerational connection with visitors in an old garden space that can develop an almost sacred dimension.

#### Place attachment & meaning

Attachment and meaning emerge from a variety of experiences and situations, and are often related to parks, green spaces, and natural areas. Attachment may serve to promote and encourage environmentally responsible behavior using appeals to individuals' self-identity and dependence.

Wolf, Krueger & Flora (2014),





Metro nature: Durban's first public institution



### SKETCH PLAN-OIL NATAL BOTANIC GARDENS BUSH LAND OBSERVATORY 1. Curators Residence. 2. Gardeners ... 3. Office. 4. Gardeners Office & Tool douse. 5. Pant Houses 6. Herbarium & Store. 7. Fernary 8. Conservatory 9. Reservoir STHCKENKED BRISH THUS HOAD THOMAS. S UNCLEARED BUSH LAND NURSERY PRIVATE TOWN LANDS



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#### The Natal Observatory Land

In 1884 The Natal Observatory officially opened. The dome and 8 inch Grubb telescope had been erected specifically for the observation of the transit of Venus that year. Back then this was an event of particular significance as it allowed for the accurate measurement of the Earth's distance from the Sun. The land secured for the Observatory was then 2 acres of Lot A, Botanic Gardens 2602. Today this is 230 Currie Road. This land was officially transferred on the 7th of January 1884 from the Durban Botanic Society "unto the Colonial Secretary of Natal and the Surveyor General of Natal for the purposes of The Natal Observatory ". It is interesting to note that this property was never transferred at Union in 1910, as many properties were, and the original 1883 title deed still states that the land is owned by The Colony of Natal. (See Appendix A.) The Natal Observatory was not an entity in the form of a company or society with only a single, ill-funded astronomer, no such organisation existed in this period. The provision was rather an expressed purpose for this site. The land was specificallysold for zero pounds by the Botanic Society for the purposes of an observatory.



Photographs of the Observatory and 8 inch Grubb telescope.





VISION ZONING



#### **Topophilia**

...bond between people and place needs to be recognized and better researched in locale to inform urban character and planning.



How Long Park, Umlazi founded by Michael Fana Mlangeni in 1976



#### Forest of Remembrance







#### Place making & environmental care

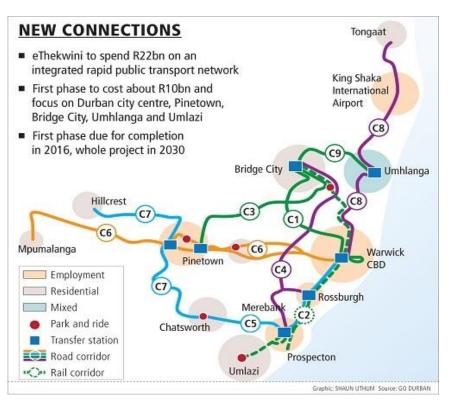
'Most people, however, fail to minimize their environmental impact, or make choices that help protect and conserve our natural environment (Halpenny, 2010). Therefore, it is important to investigate what it is that makes people more environmentally conscious, and motivates them to live a more sustainable lifestyle. One of the ways it has been suggested for people to become motivated to live sustainably is through developing a relationship to their 'place'

(Lewicka, 2010, p. 209; Rogers Bragg, 2012:307).





#### Greening public transport







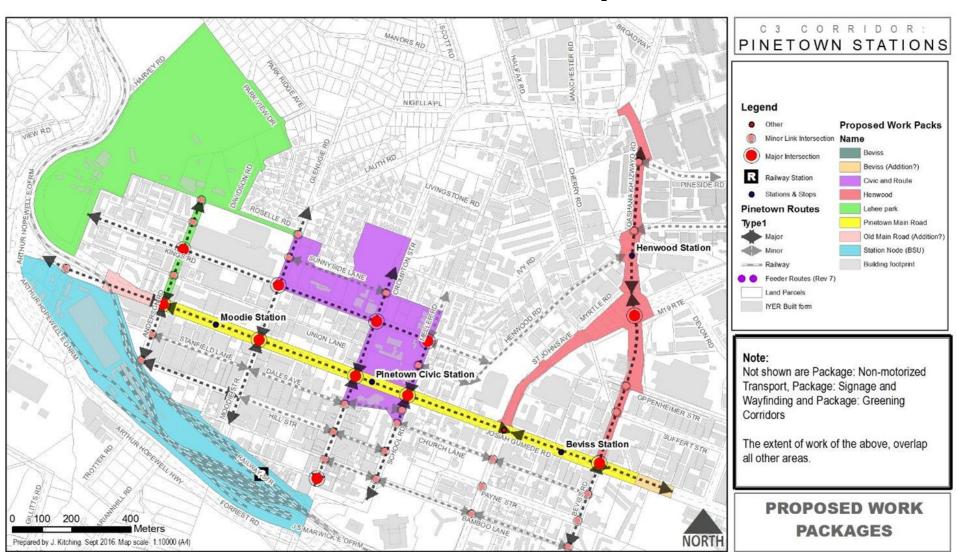


#### Interlinking open space catchments

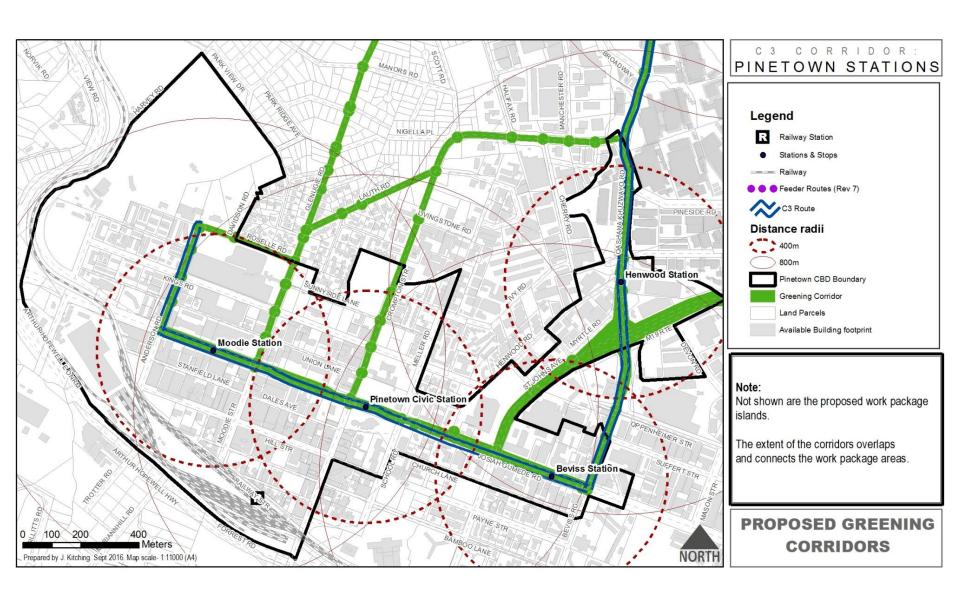




#### **Go!Durban Pinetown Transport Precincts**



#### By 2030 eThekwini will be Africa's most caring and liveable city





# Greening principles for urban planning that enable place attachment

- Topophilia bond between people and place
- **Space becomes place** when people give significant places meaning that is then articulated in various forms of cultural practice by various groups of people.
- Metro nature or nearby nature within an urban context will likely have a meaning for people living within close proximity. Can potentially serve as a 'unifying concept' of both cultural and ecological landscapes.
- **Biological perspectives:** place attachment readily occurs when places are perceived as attractive, calming or safe.
- Sociocultural perspectives: place attachment enabled by shared cultural ideologies of various groups having shared interactions with specific places.





**Restorative places:** green places that evoke a sense of peace and restoration foster human attachment due to their resulting therapeutic benefits.

**Recreation:** parks that are viewed as the best place for favoured recreational activities tend to develop a strong place attachment.

**Regular interaction:** the greater the frequency of use and interaction, the stronger the place dependence.

**Familiarity:** strength of attachment is increased in parks and green spaces & places that are familiar, especially if the landscape type is one that people have grown up in and feel most at home in.

Nature improves communities: access to nearby nature is generally beneficial for community health and collective place attachment and neighbourhood satisfaction.





- Values: values associated with nature can be quite complex.
- Length of residence increase in place attachment is directly linked to length or residence in or near a place.
- Childhood experiences of place: especially during middle childhood, place attachments and meaning tend to form as a consequence of place-based activities
- Environmental responsibility: often as a consequence of Place attachment
- Biophilic design makes use of nature to create a positive emotive experience and provide for a holistic human experience with social and nature connection opportunities.





# umPhafa

tree campaign