eduroam in Cape Town

UbuntuNet Connect 2019, Antananarivo, Madagascar

Guy Halse

https://orcid.org/0000-0002-9388-8592

CC BY NC

Pic: Bernard Pieterse

Pic: SkyPixels

Pic:Andrea Willmore

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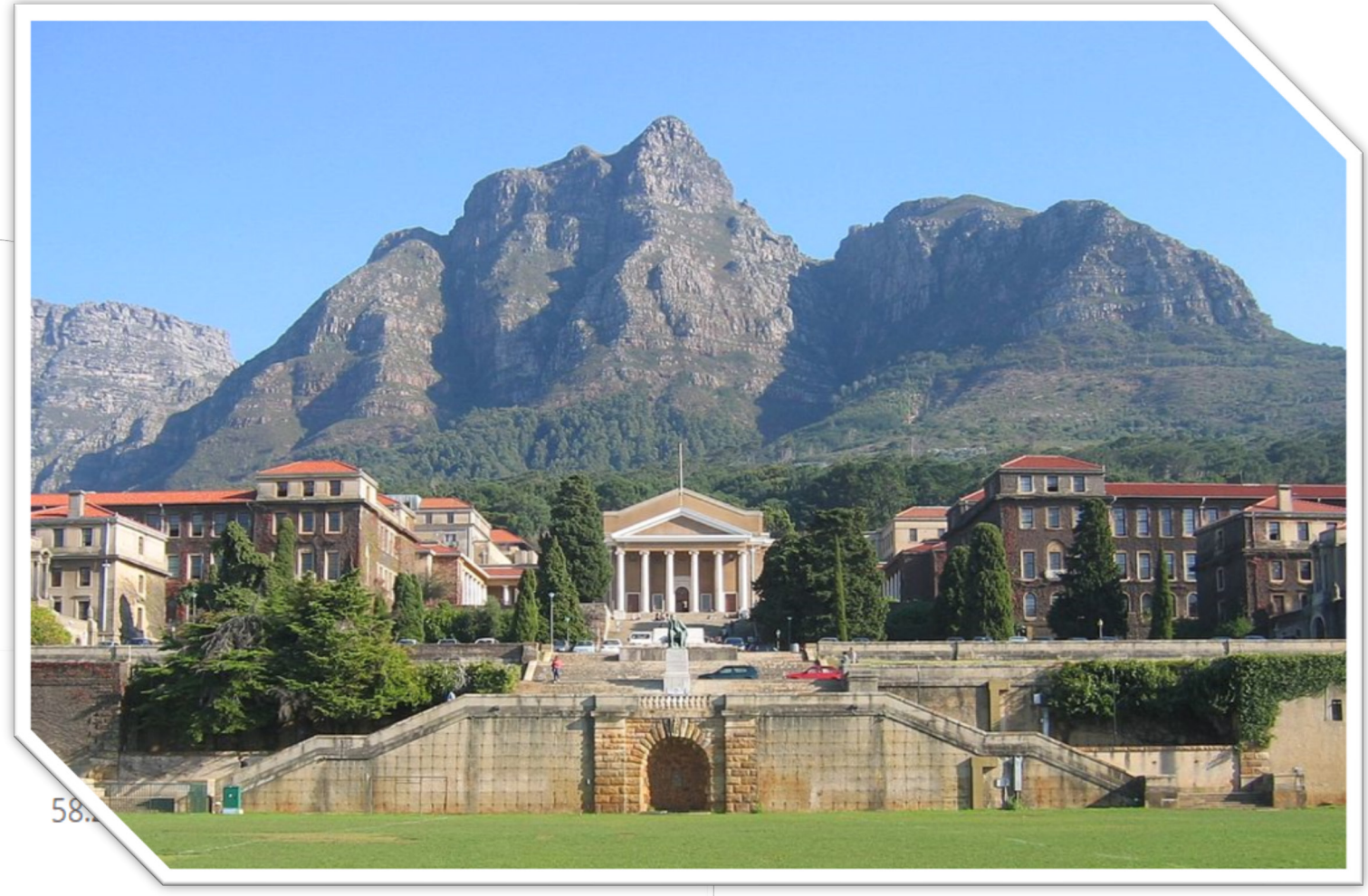
TENET



Pic: UCT

THE WORLD UNIVERSITY RANKINGS

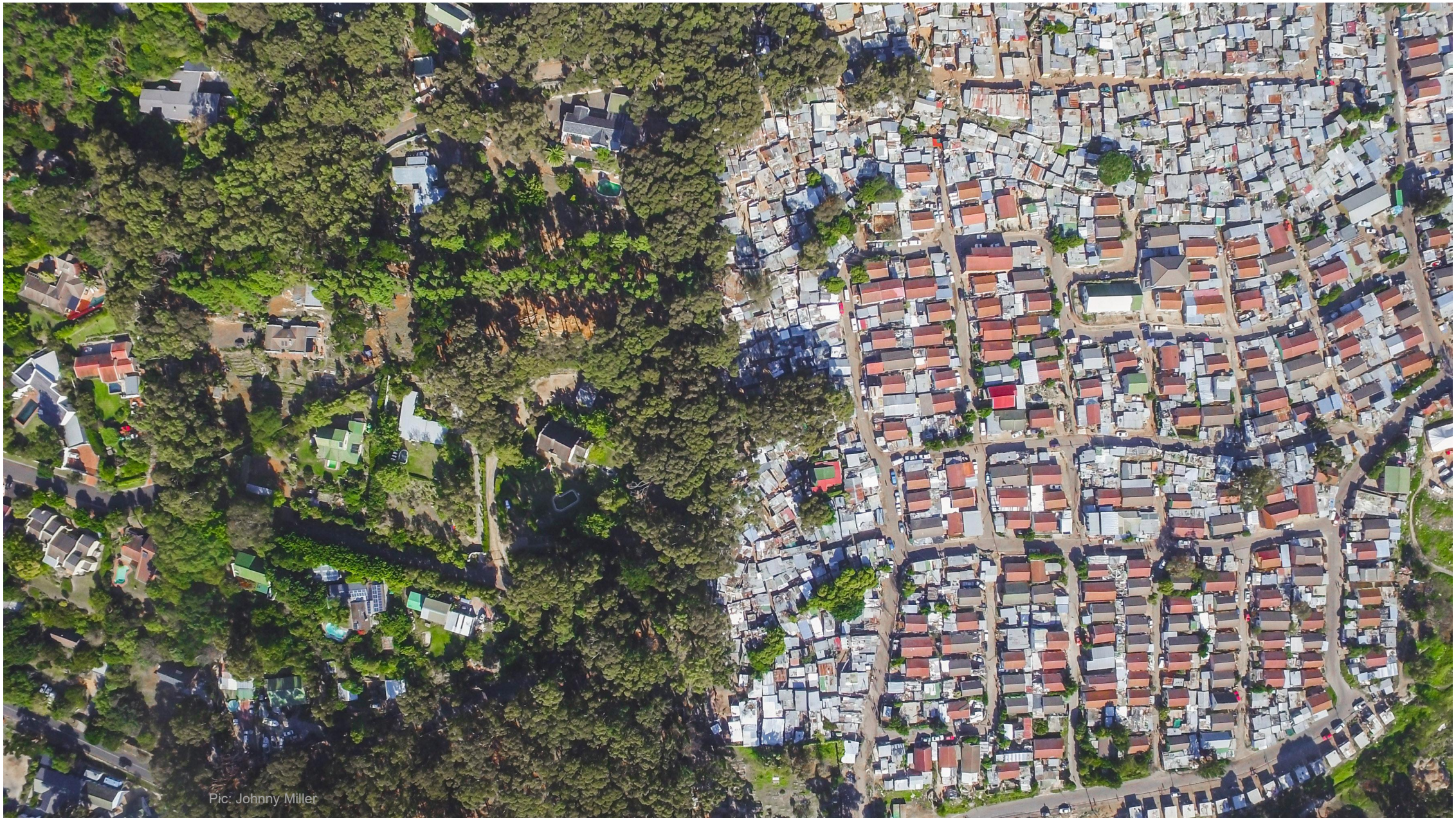
Rank	Name Country/Region
=136	University of Cape Town South Africa

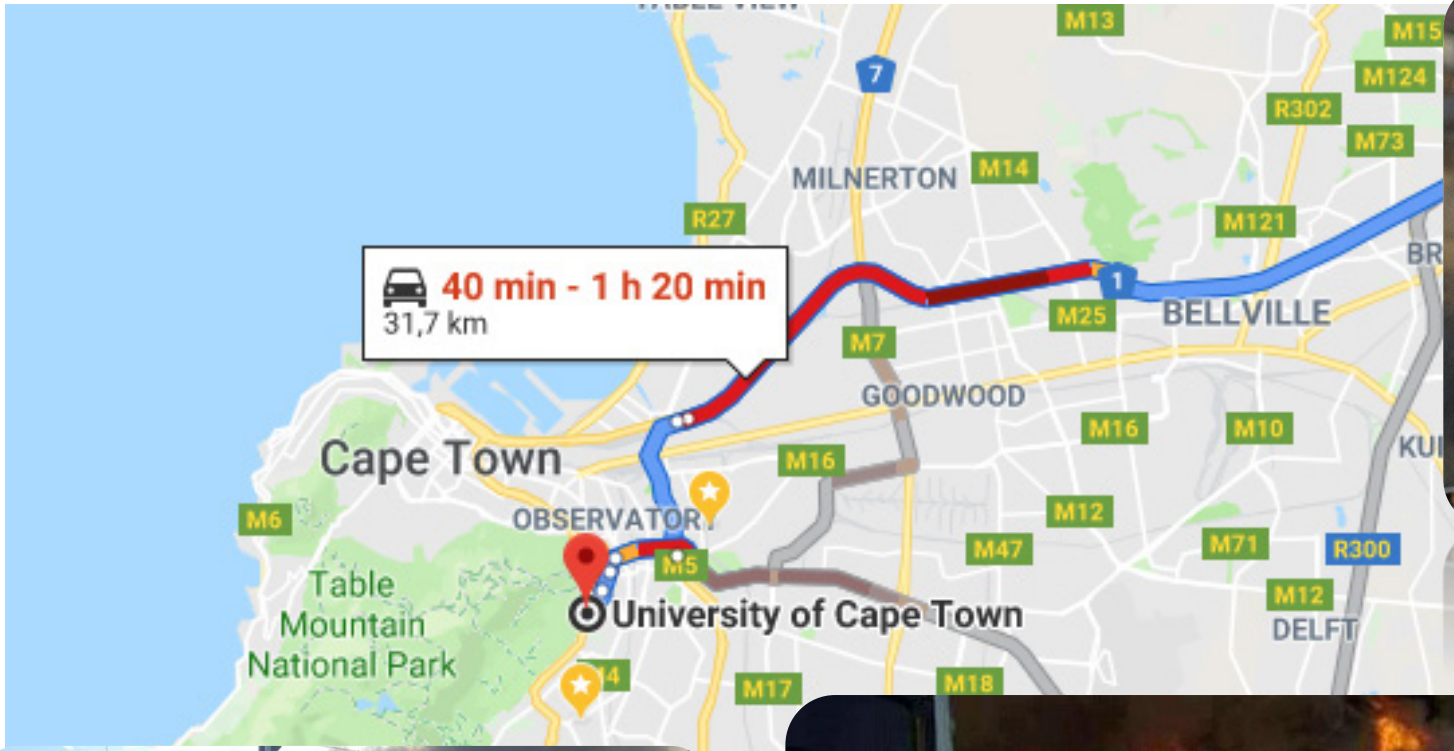
Explore

Source: Times Higher Education 2020 World Rankings

Pic: Portland Seminary

Pic: Demers


Pic: Johnny Miller



Pic: Themba Hadebe/AP

Pic: Henry Trotter

Pic: eNCA

Pic: EWN

Pic: eNCA

Pic: Masixole Feni/GroundUp

#DataMustFall – Cost of 1GB	
India	R11
Nigeria	R22
Namibia	R32
Kenya	R70
Ghana	R71
South Africa	R149

Source: Oxbridge Academy

Pic: Christa Eybers/EWN

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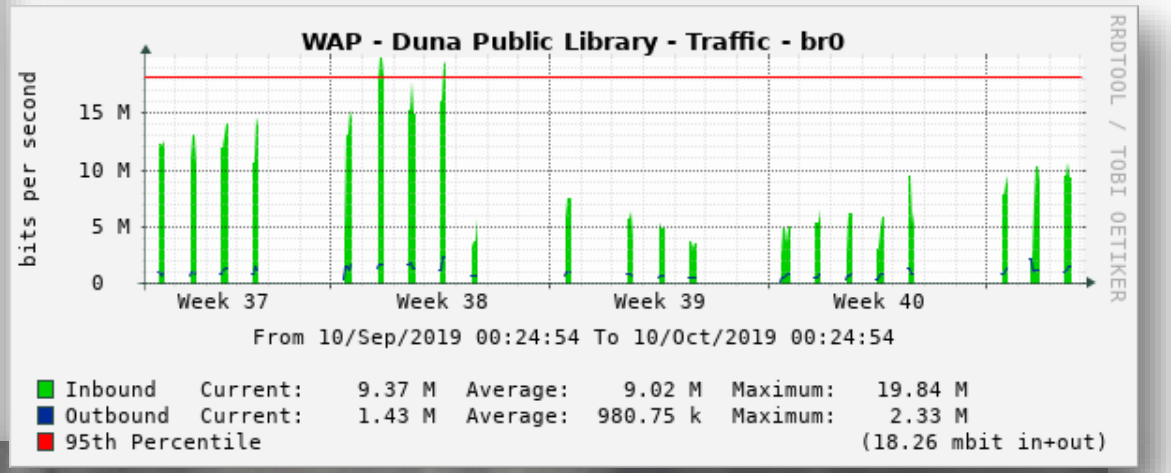
MAKANA
MUNICIPALITY | EASTERN CAPE
...a great place to be

RHODES UNIVERSITY
Where leaders learn

Pic: Guy Halse



Pic: Gareth Walwyn

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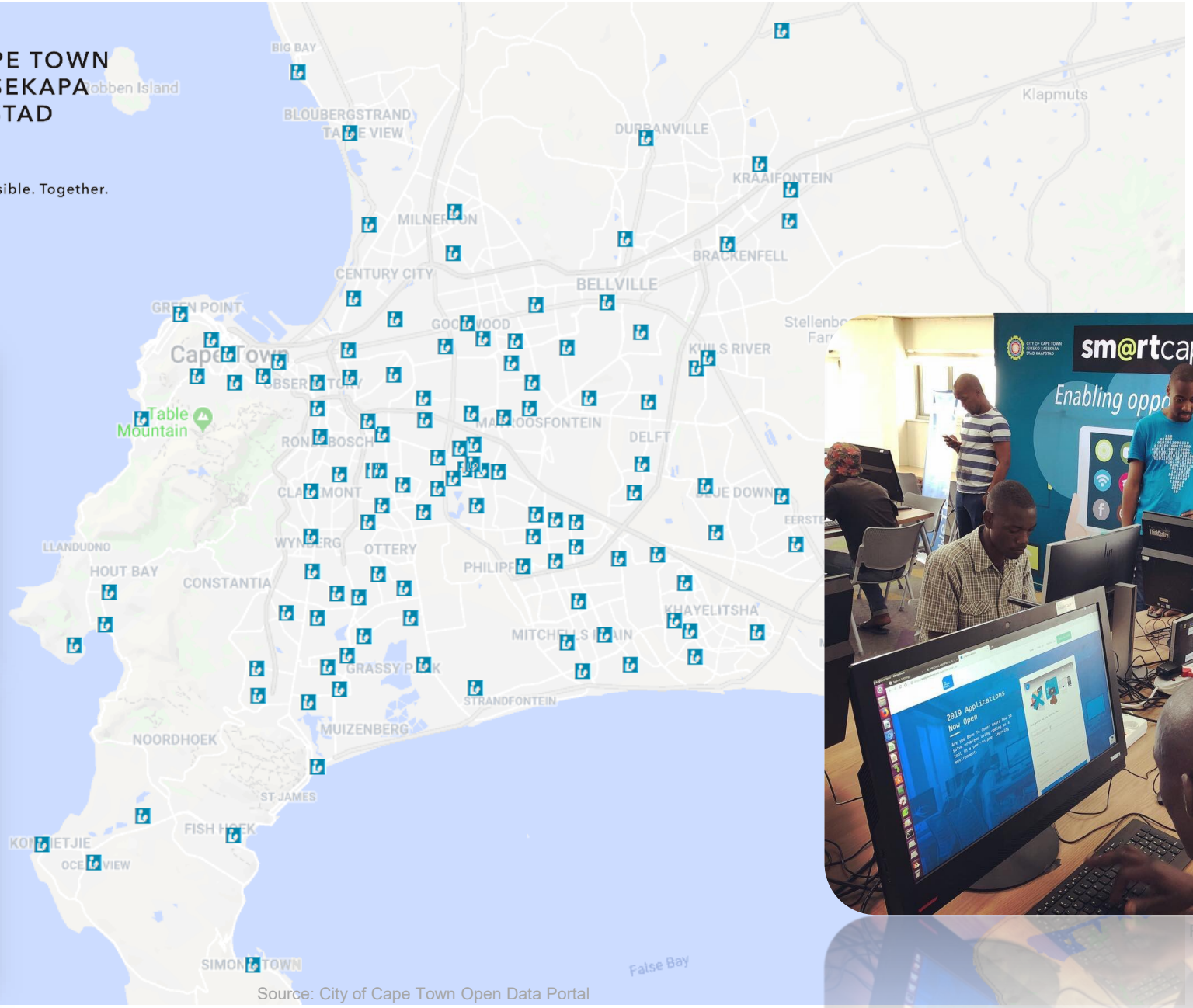
CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Making progress possible. Together.



Source: City of Cape Town Open Data Portal

Pic: @wethinkcode via Twitter

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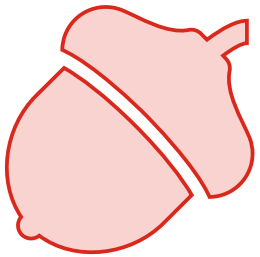
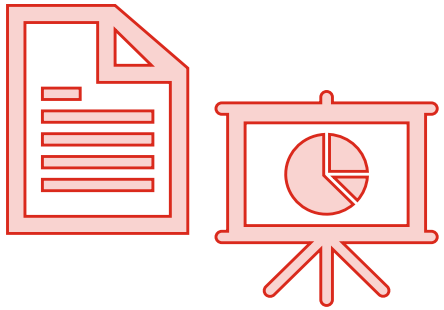
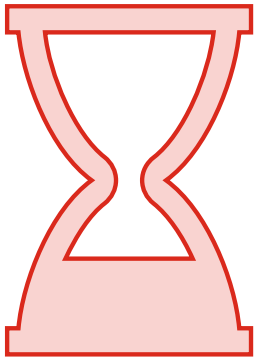
TENET

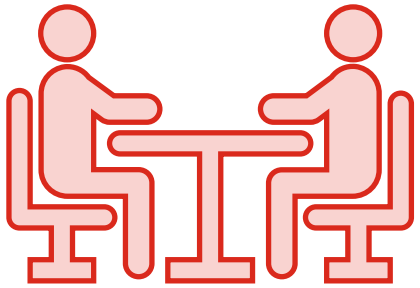


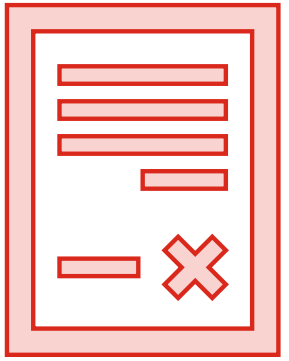


CHEC

Cape Higher Education Consortium







Patricia de Lille ✓
@PatriciaDeLille

I'm really delighted about the agreement the @CityofCT signed today with the Cape Higher Education Consortium (CHEC) which will allow us to host the free roam access service EDUROAM to the City's telecommunications networks.

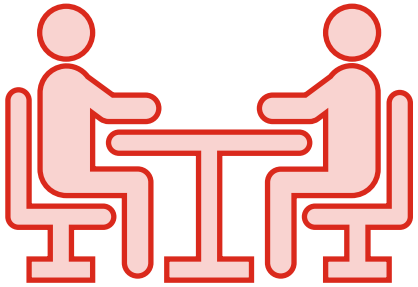
Patricia de Lille ✓ @PatriciaDeLille · Oct 31, 2018

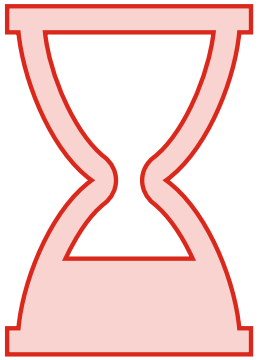
Today I have once again been forced to turn to the courts in my quest to fight for my rights, justice and to clear my name. I wish to inform the public that I will resign today and vacate the Mayoral Office of @CityofCT at 7pm, 31 October. I also resign as a member of the DA.

Patricia de Lille ✓ @PatriciaDeLille · Oct 30, 2018

This will allow University students, especially those from CPUT, UCT and UWC, to get access to the internet at our City libraries free -of-charge. This is in line with the City's goal to promote digital inclusion as part of our strategy to be the Digital Capital of Africa.

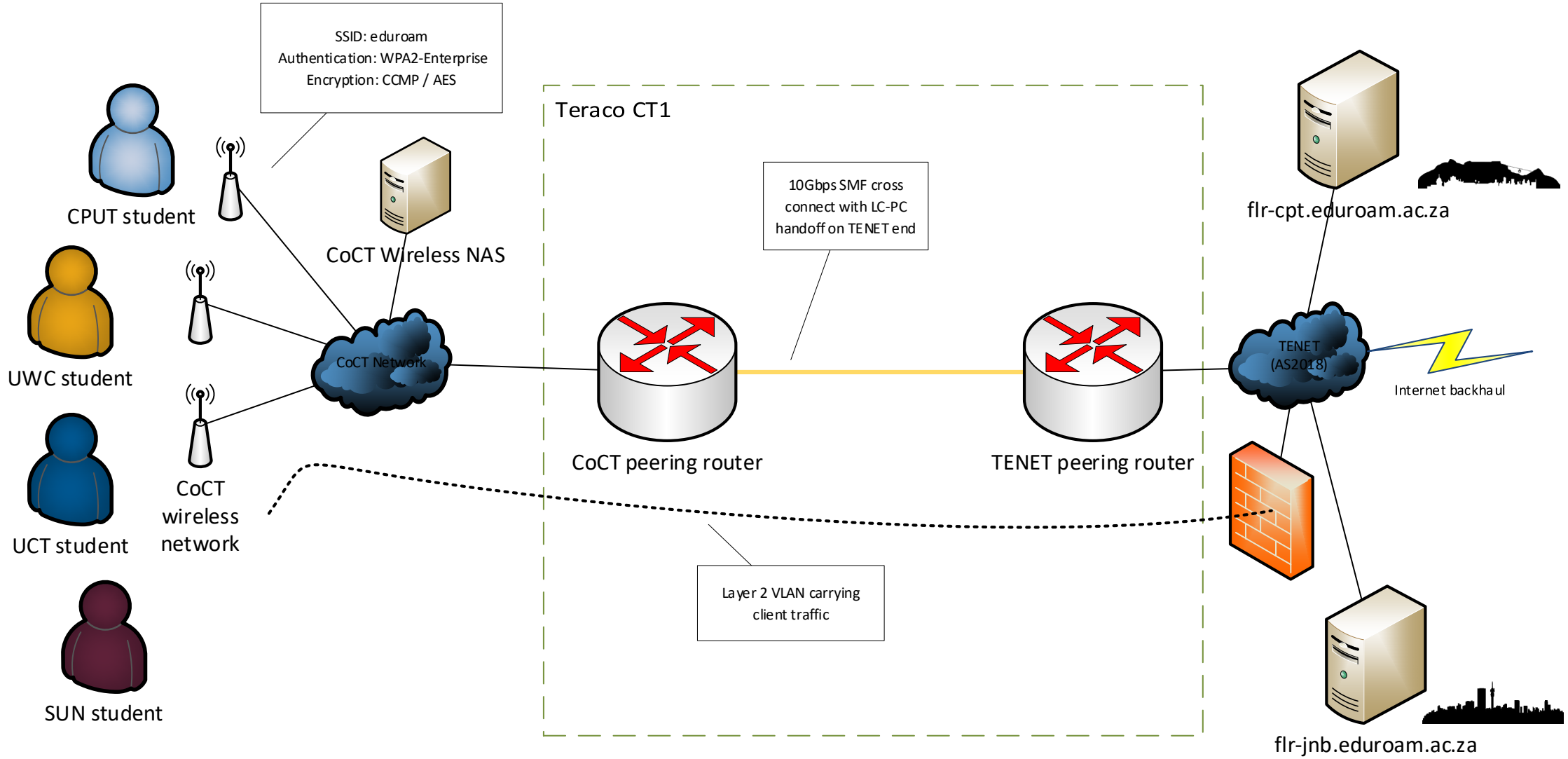
4:50 PM · Oct 30, 2018 · TweetDeck





CISCO

FORTINET
FortiGate 80E


SSID: eduroam
Authentication: WPA2-Enterprise
Encryption: CCMP / AES
CPUT student
UWC student
UCT student
SUN student
CoCT wireless network
CoCT Wireless NAS
CoCT Network
Teraco CT1
10Gbps SMF cross connect with LC-PC handoff on TENET end
CoCT peering router
TENET peering router
Layer 2 VLAN carrying client traffic
flr-cpt.eduroam.ac.za
TENET (AS2018)
Internet backhaul
flr-jnb.eduroam.ac.za

eduroam
Cape Town
GREEN POINT
DE WATERKANT
SALT RIVER
OBSERVATORY
MAITLAND
GOODWOOD
PAROW
BELLVILLE
EPPING
ELSIES RIVER
BELHAR
KUILS RIVER
BRACKENFELL
KRAAIFONTEIN
Stellenbosch Farms
CLIFTON
CAMPS BAY
Table Mountain
RONDEBOSCH
NEWLANDS
CLAREMONT
KENILWORTH
WYNBERG
OTTERY
PHILIPPI
DELFT
BLUE DOWNS
Cape Town International Airport
HOUT BAY
CONSTANTIA
PLUMSTEAD
DIEP RIVER
BERGVLIET
RETREAT
GRASSY PARK
MUIZENBERG
NOORDHOEK
FISH HOEK
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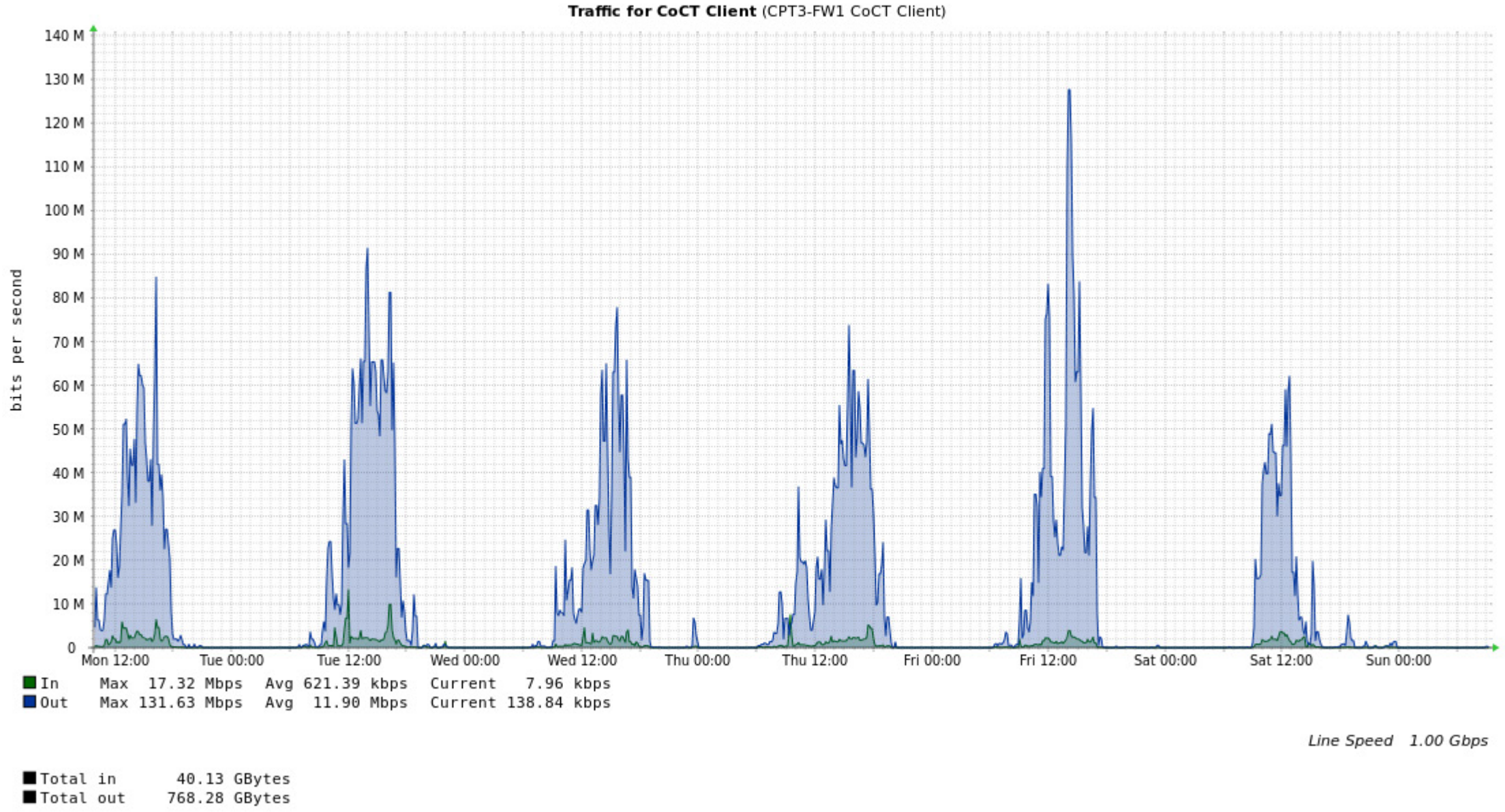
CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

54518 authentications
10402 devices
295 realms
26 countries
19 SA institutions
~5TB data


Traffic for CoCT Client (CPT3-FW1 CoCT Client)
bits per second
140 M
130 M
120 M
110 M
100 M
90 M
80 M
70 M
60 M
50 M
40 M
30 M
20 M
10 M
0
Mon 12:00
Tue 00:00
Tue 12:00
Wed 00:00
Wed 12:00
Thu 00:00
Thu 12:00
Fri 00:00
Fri 12:00
Sat 00:00
Sat 12:00
Sun 00:00
In Max 17.32 Mbps Avg 621.39 kbps Current 7.96 kbps
Out Max 131.63 Mbps Avg 11.90 Mbps Current 138.84 kbps
Line Speed 1.00 Gbps
Total in 40.13 GBytes
Total out 768.28 GBytes
[Mon Sep 30 09:50:00 2019 - Sun Oct 6 09:20:00 2019]