

Bettina Koelle

Senior Learning Specialist

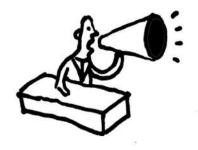
Red Cross Red Crescent Climate Centre

THE CONTEXT

Cape Town: 2018 drought

Government response and civil action

Long term resilience



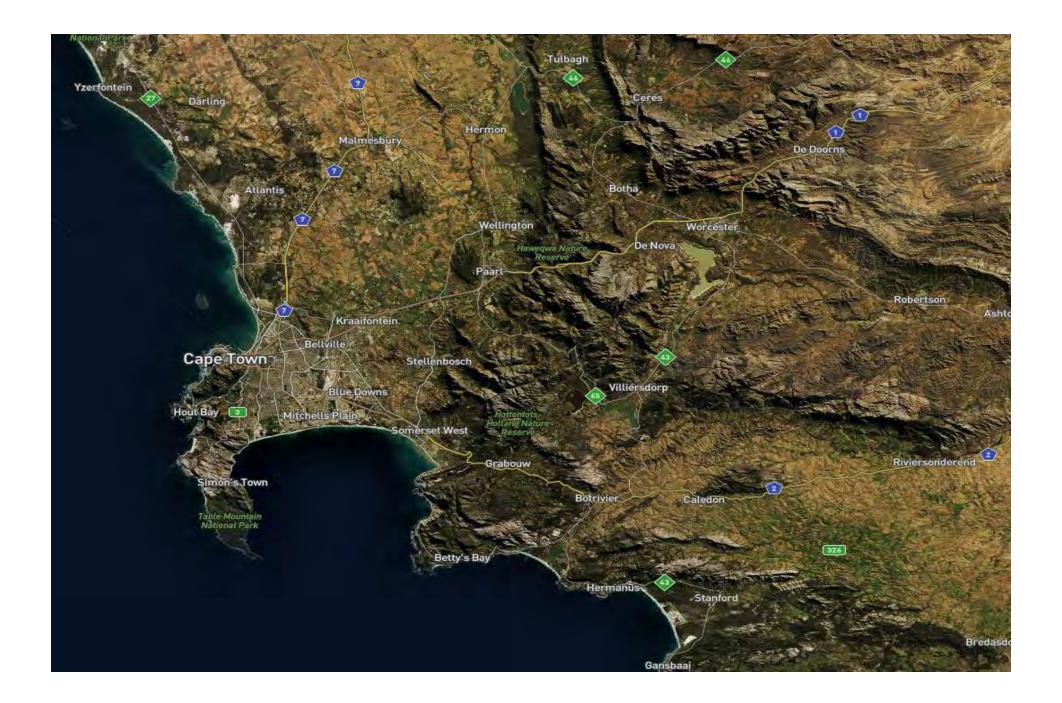


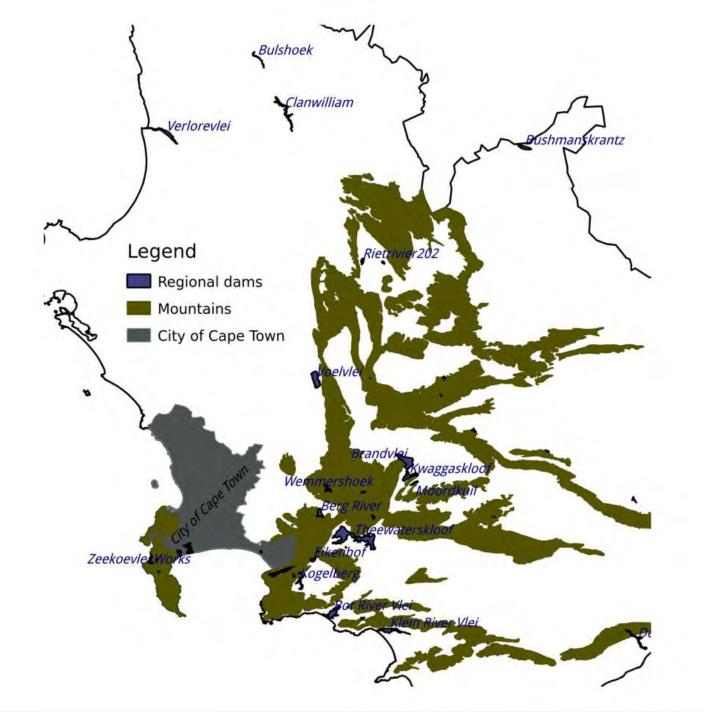




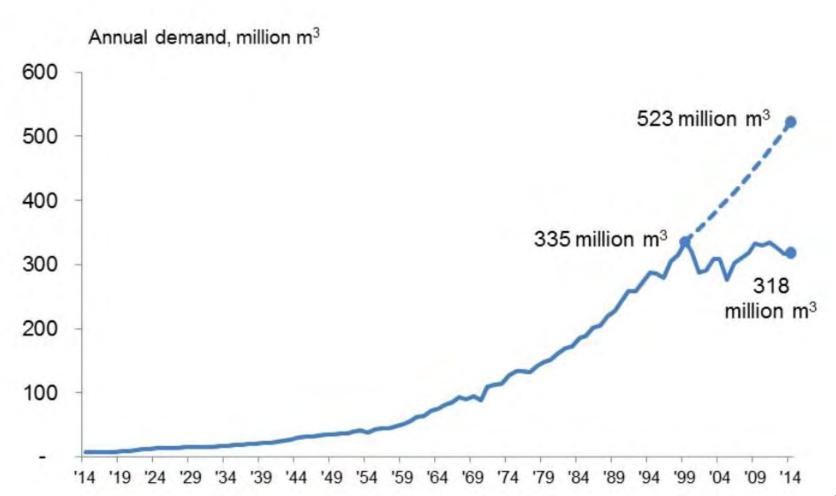
A story of drought in Cape Town



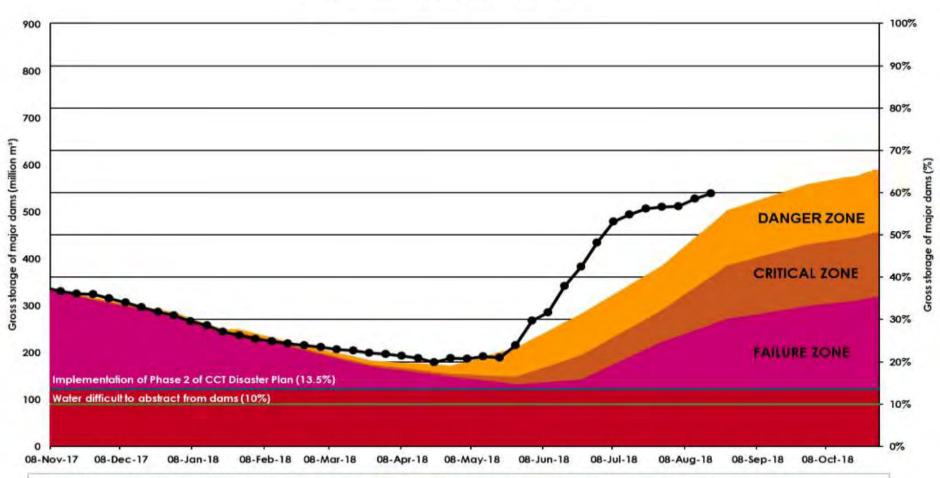




Actual demand growth 1999 – 2014 vs Unconstrained growth



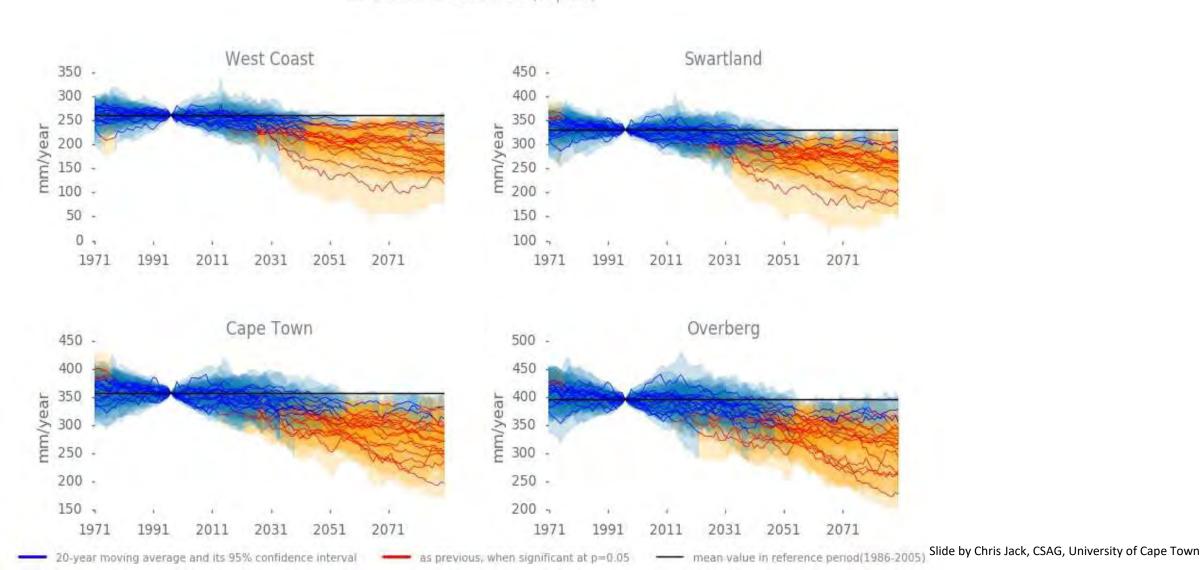




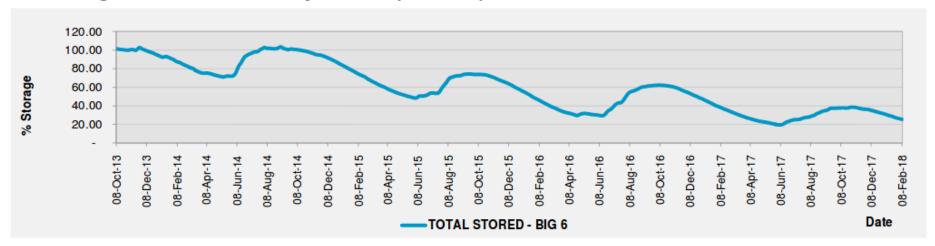
Danger Zone: Less than average rainfall; system failure less likely in next year but need to manage demand closely

Critical Zone: Less than average rainfall; Potential system failure Failure Zone: Worst rainfall conditions; System failure likely

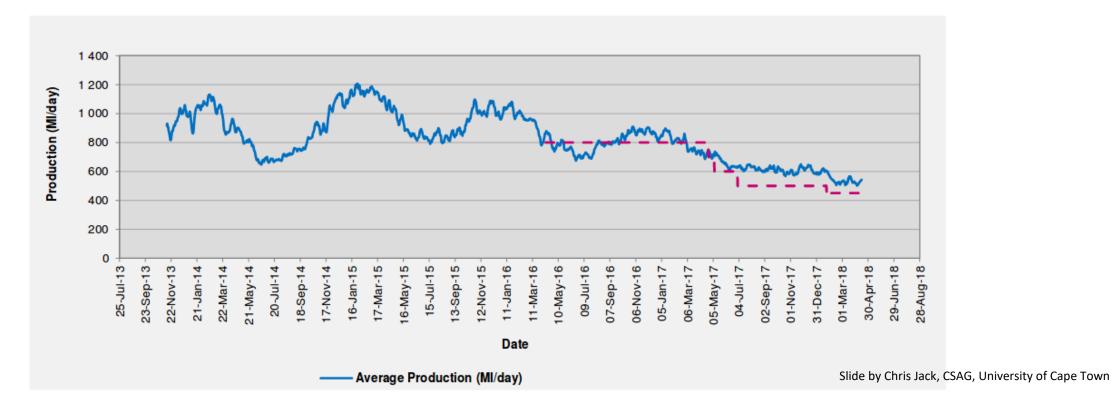
Temporal evolution of total annual rainfall in CMIP5 GCM MME (rcp85)

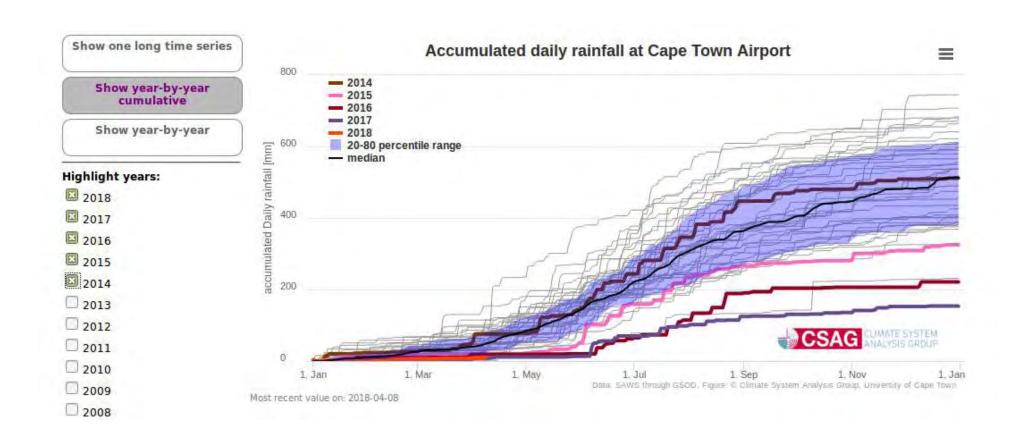


Percentage Water Stored in Major Dams (WCWSS)



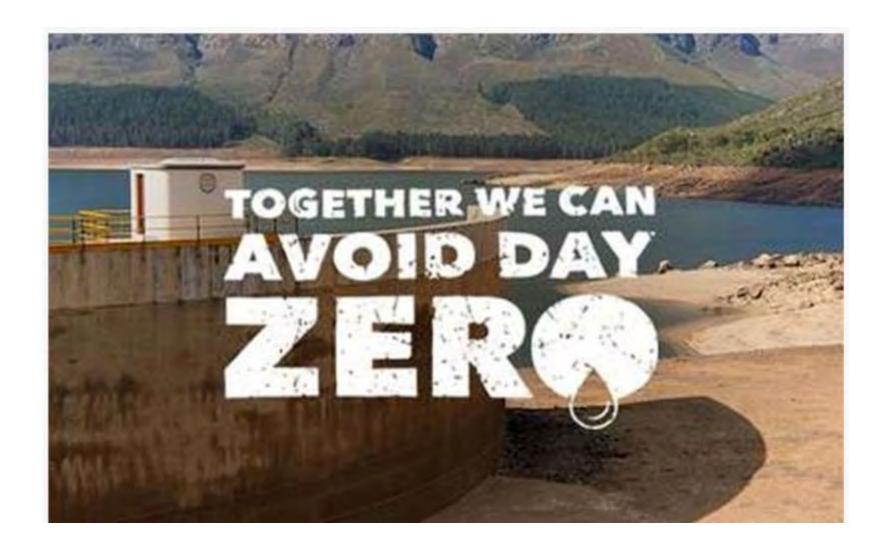
CCT Daily Average Water Production (7 Day Avg)

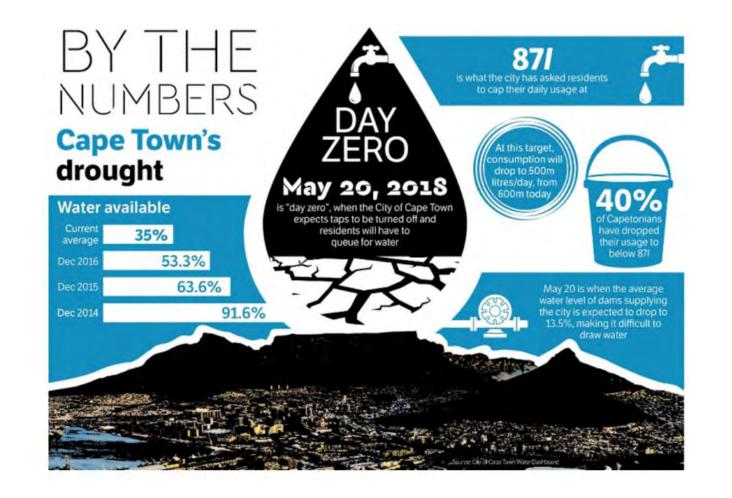




"Finally, what the report, the narratives, and the engagement workshop have all shown is that the City of Cape Town needs to prepare in earnest for a drier warmer future over the next decades. While there remains uncertainty in the climate science, the evidence for drying and warming is strong and planning that ignores this evidence is at significant risk of vulnerability to a changing climate. There is now sufficient science evidence to motivate for serious consideration of climate adaptation planning and implementation in the city." - 2016











LAUNDRY

1 machine load (70t) basin = 9t

10 l

SHOWER

Stop-start (with hair wash). Sponge bath = 31

FLUSHES 9ℓ

One flush. Use greywater = Of If it's yellow, let it

Food prep and

TOGETHER WE CAN AVOID DAY

BRUSH TEETH WASH HANDS

Wash hands with waterless sanitiser

DRINKING

Water, tea,

31

DISH WASHING

1 sink wash a day

PETS

Small to medium sized pets.

91

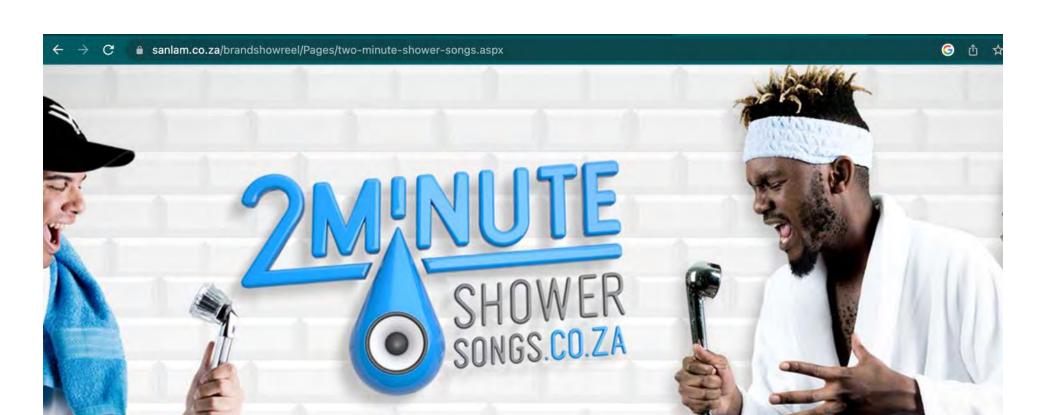
This is a guide for 50l per person per day. Your actual usage will depend on your appliances and personal preferences.

Source: www.capetown.gov.za/thinkwater













The Album That Got People Singing to Save a City

We took on Day Zero with the help of SA's top recording artists.

As Cape Town experienced the worst drought in a century, we urgently needed to find a way to help Capetonians reduce their showers to two minutes or less. We all like to sing in the shower (whether we'd like to admit it or not) so we recruited the nation's top artists and challenged them to create two-minute versions of their most popular tracks. Now, Capetonians could press play and sing along, knowing that when the song ends, so should their showers.

City Water Map



Legend

Themes

Water Use

Water use - Free-stand

- 6 000 or less litres
 Actual meter rea
- 6 000 to 10 500 lite
 month Actual me

City will run out of water 'in 17 years'

By BARRY STREEK Political Staff

VATER supplies for the Cape own area are expected to ry up in 17 years' time, the Vater Research Commission WRC) disclosed yesterday.

"It is estimated that known resh water supplies for the Cape own metropolitan area will be ully committed by the year 007," it said in its annual report

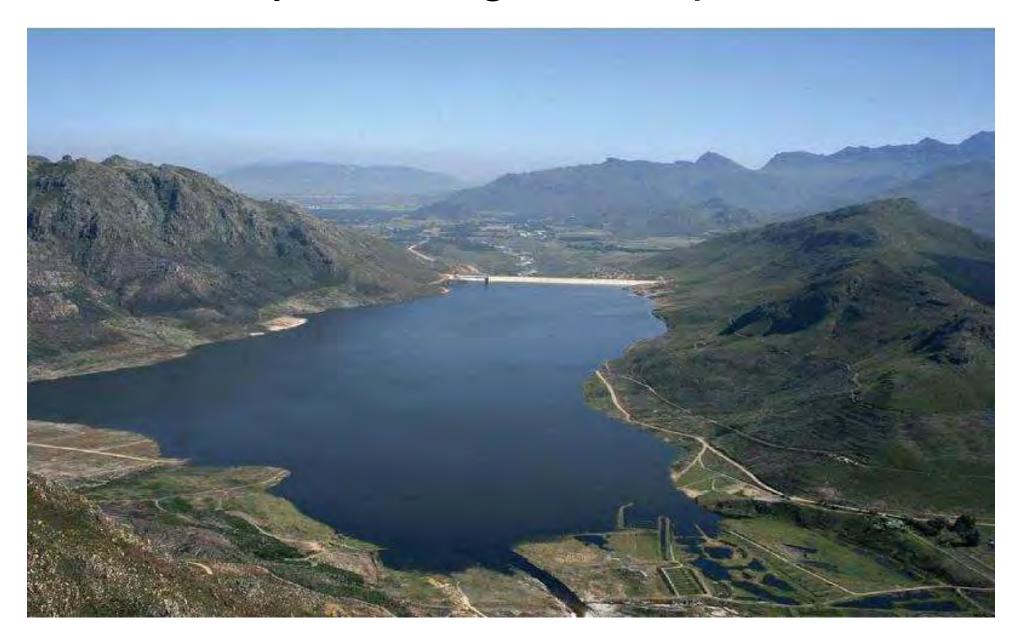
conducted to establish a data base containing information on water intake, raw materials, products, effluent quality and the amount of industrial waste from all types of industries using more than 150 cubic metres of water a day.

On water supplies, the commission reported that a survey was launched by the University of Cape Town's Department of Community Health to establish early

coming increasingly unacceptable worldwide for discharge sewage systems or to the environment because of their toxic content.

"In South Africa the position even more critical because r bleaching process effluents ma be discharged by inland pulp fa tories after 1990."

The commission said 12 million animals were slaughtered at a most 300 abattoirs, which resulted in about 80 000 tons of kra



Managing demand

Governmental restriction levels

Communication campaigns

Pressure reduction

Household flow regulators

Punitive tariffs

Adaptation and water smart city

Agriculture water restrictions (60%)



Timelines

Past events

Current

Near future

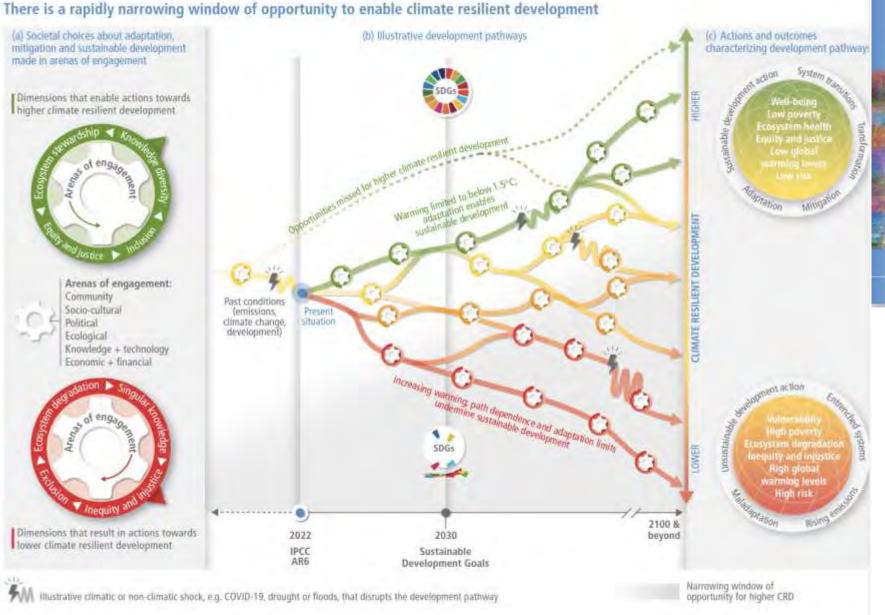
Long term future



"No need to worry, we have plenty of time."



No thanks, we're going to create some alternative options over here. Want to join?



Climate Change 2022 Impacts, Adaptation and Vulnerability The state of the state o

In Summary

We need to embrace and work with complexity We must include a broad variety of knowledge

We need to connect

- Global and local
- Past and future
- Systemic approach

Transformative change is a process (not a project)

