

WEF and the SDGs: Data and Reporting

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[Http://cwrr.ukzn.ac.za](http://cwrr.ukzn.ac.za)

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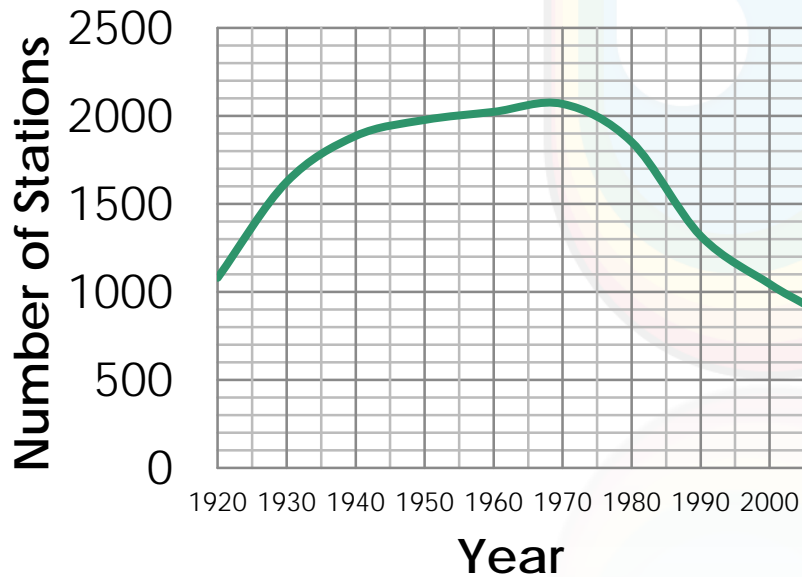


**Our water gauges
going going GONE**

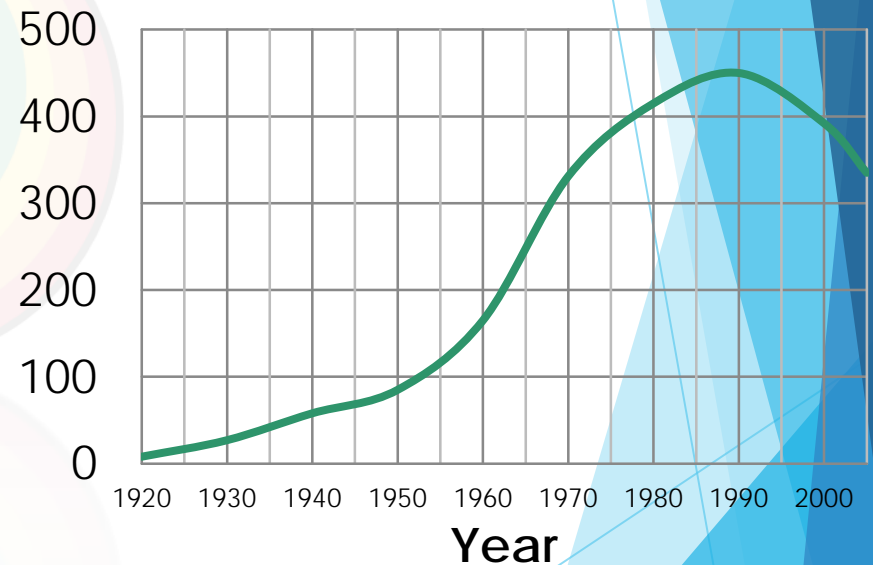


Status of Official Rainfall and Flow Gauging Stations in South Africa

• Rainfall



Flow Gauging



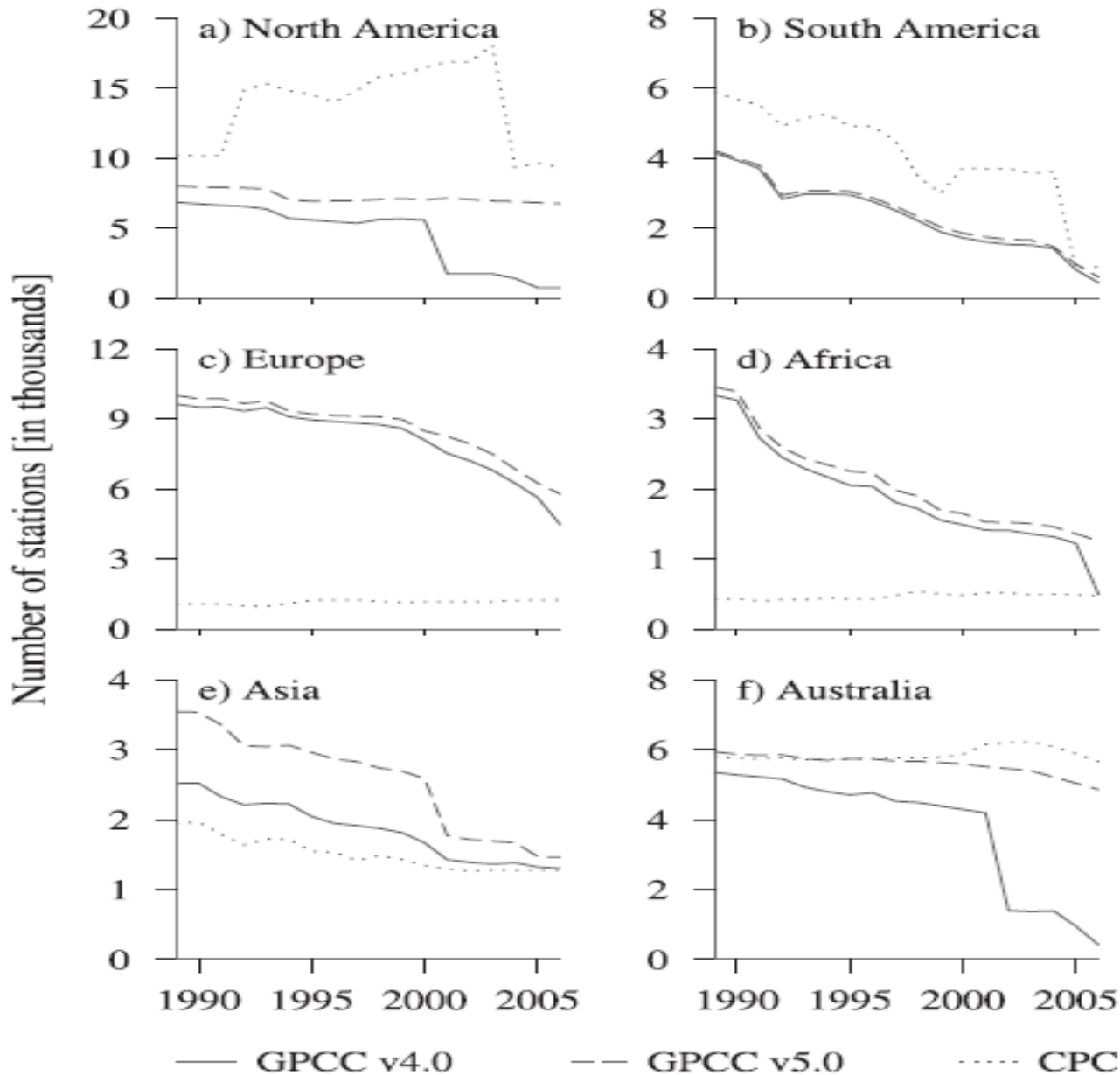


FIG. 4. (a)–(f) Mean annual number of gauges used in the precipitation observations from GPCC v4.0, GPCC v5.0, and CPC.

“new” sources of data

Citizen Science

Opportunities for Citizen-Science



"low cost smart phones and data networks empower both professionals and non-professionals alike"

<http://www.undatarevolution.org/>



“Value” of “free” data and information

- ▶ Mini-SASS
 - ▶ Need water quality
 - ▶ Service provider says no

8:16 ... VodaCom-SA 4G FNB 89%

miniSASS

Explore the map | How to do miniSASS | Submit results | Download resources

Help the miniSASS team reach their target of ...

Home | How To | Map | Downloads | Partners | Contact Us

Legend

miniSASS Observations

- Unmodified (NATURAL condition)
- Largely natural/few modifications (GOOD condition)
- Moderately modified (FAIR condition)
- Largely modified (POOR condition)
- Seriously/critically modified (VERY POOR condition)
- No groups present
- Exclamation mark: unverified

Schools

- Primary
- Intermediate
- Combined
- Secondary

Layers

Zoom to School or Site

Site Data and Graphs

miniSASS observations

- Observation details
- Enter observation
- Click site on map
- Select site from list
- Filter observations
- Remove filter

Click a miniSASS crab symbol to display details of the observations at that site. Use the + and - buttons or the mouse wheel to zoom in or out on the map. To zoom in double-click on the map or press Shift and draw a rectangle. Click and hold the mouse button to drag the map around.

© 2016 Water Research Commission. This is an open source project. Get the source code at [Github](#)

water & sanitation
Department: Water and Sanitation
REPUBLIC OF SOUTH AFRICA

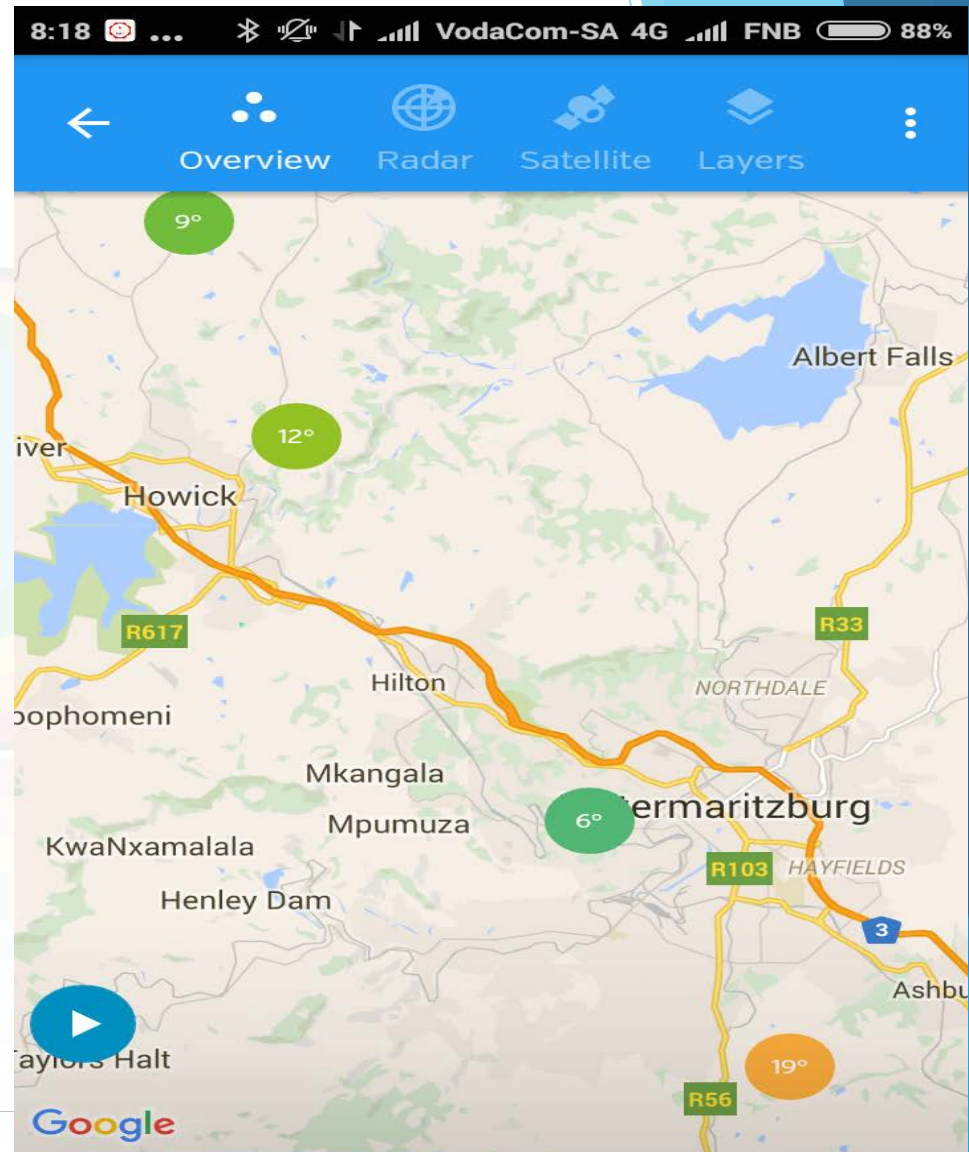
WATER RESEARCH COMMISSION

Ground Truth
Water, Wetlands and Environmental Engineering

WESSA
PEOPLE CARING FOR THE EARTH

“Value” of “free” data and information

- ▶ Weather Underground
 - ▶ Need rainfall and temperature
 - ▶ SAWS say pay Hydrologic



Reporting Hierarchy – South Africa

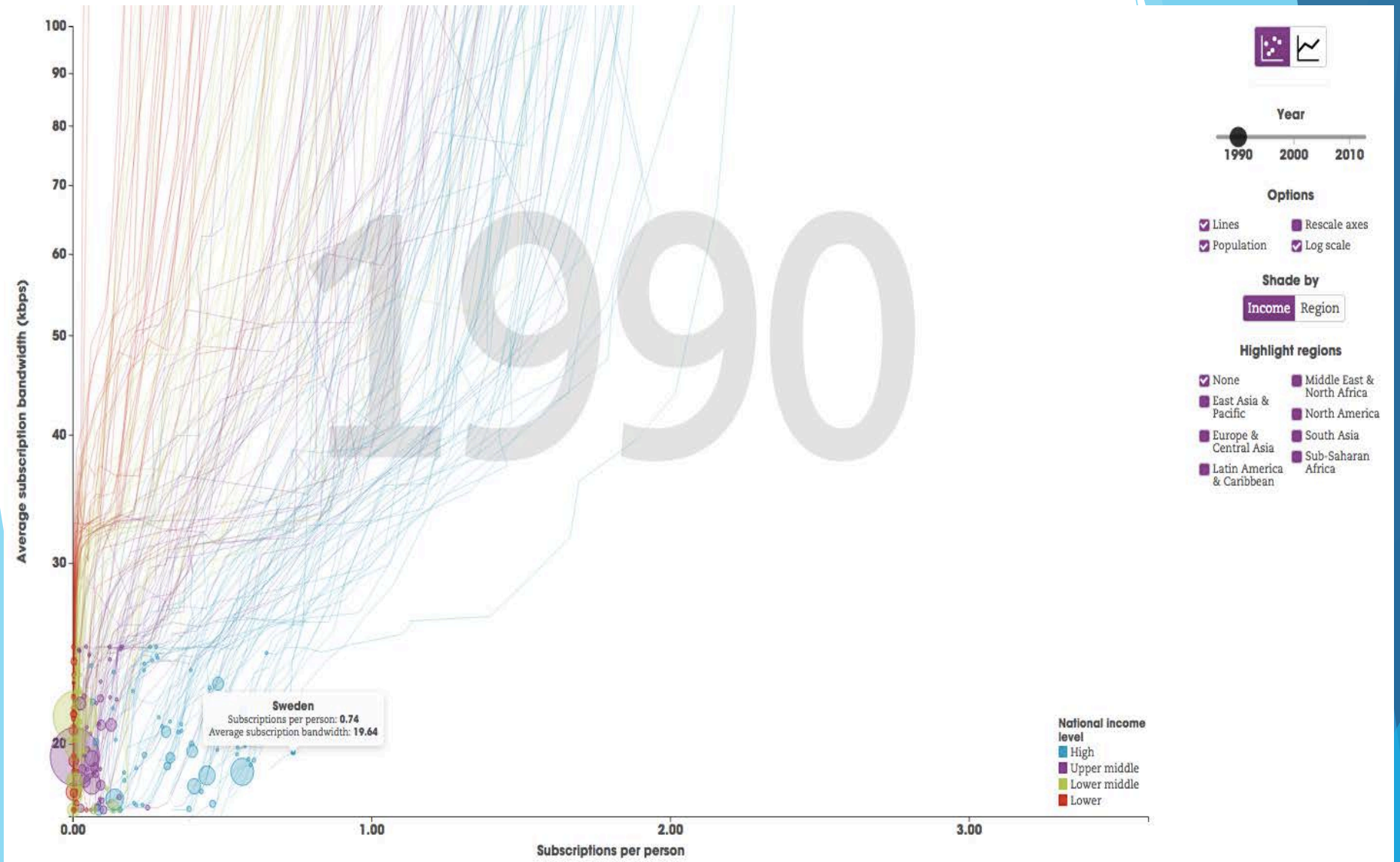
- **Opportunities for Integrated Monitoring**
 - **Quality control**
 - **Aggregation and disaggregation**

South African
Statistical
Quality
Assessment
Framework
(SASQAF)

Digital Divide

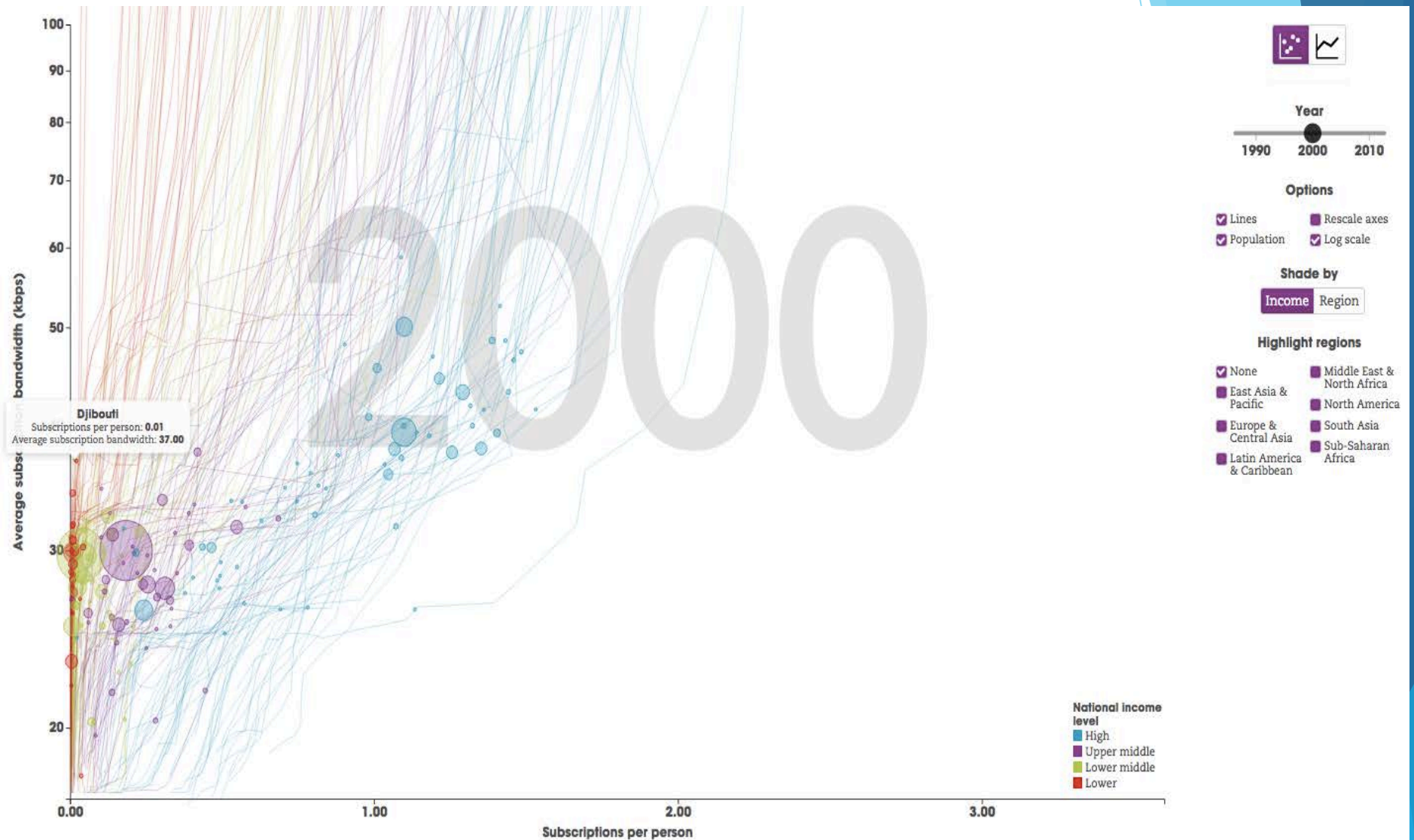


Global Internet Connections



Source: SciDev.net using data from Martin Hilbert University of California, Davis

Global Internet Connections



Source: SciDev.net using data from Martin Hilbert University of California, Davis

Why Africa's making new apps for old phones

BUSINESS NEWS / 31 July 2016, 06:00am

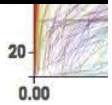
 Marie Mawad and Alexandre Boksenbaum-Granier



Africa
Phone

Pe

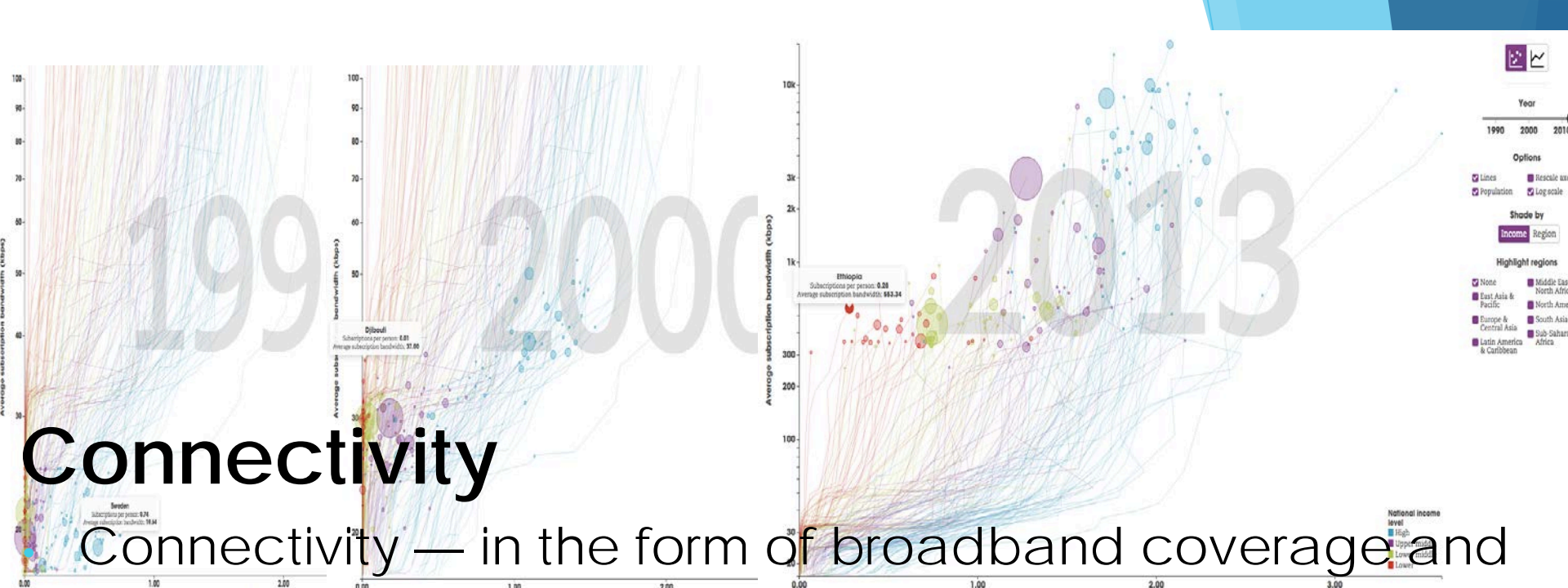
Source



ones

mberg 

Source: codev.net using data from Martin Tumber University of California, Davis



Connectivity

Connectivity — in the form of broadband coverage and speed — has now become a major differentiator between developed and developing nations, continuing to dictate where the power resides (scidev.net)

- Connectivity is not just about being online - 2G vs 4G and implications thereof
- Does, a lack of connectivity now underpin, and perpetuate, global inequality?

Role of ICT: Links in SDGs

- ▶ SDG Goal 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation
 - ▶ Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020
- ▶ Concomitant implications and opportunities for other SDGs, citizens, WEF monitoring and associated institutions in the developing world