World Internet Data Explorer (WIDER)

Amreesh Phokeer, AFRINIC
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Problem statement

- Data-driven decision making
- Different views (performance, security, economic)
- Internet measurements visualization
- One-stop-shop for Internet Data (for Africa)
- Network Information Centre
Sample Use case (CDN)

- Latency to major cities
- ISP market share / Internet penetration
- Peering fabric
- IXP traffic?
https://wider.isoc.org.za
What is it about?

Data Repository
Open data platform
Data exploration
Data Visualization
Forum to Discuss
Make it yours (?)
Regional insights

Africa

Continent in Earth

298,615,266 Internet users

775 networks (ISPs)

885,666 IPv6 users
Country-level insights

South Africa

Country in Africa, Earth

29,759,982 Internet users

166 networks (ISPs)

70,365 IPv6 users
Compare countries

South Africa
- Internet users: 29,759,982
- Internet Access: 166 networks (ISP)
- IPv6 users: 70,365

Nigeria
- Internet users: 90,192,646
- Internet Access: 87 networks (ISP)
- IPv6 users: 7,844

*Values that are beneath one percent are rounded down to 0.

People
- South Africa: 9%
- Nigeria: 23%
Data Sources

- APNIC Ad-based measurements
  - IPv6
  - ISP Market Share
- CAIDA
- World Bank
Zimbabwe

Internet Access

*Values that are beneath one percent are rounded down to 0.

**Internet Users**
- 3,550,714 People

**Population**
- 16,150,362

*World bank data.*

**Ratio of Africa**
- Zimbabwe 1%

**Ratio of Population**
- Users 18%

APNIC data
- 448,290 Active IPv6 users

**IPv6 penetration**

**Ratio of IPv6**
- **Zimbabwe** 34%
- **Africa** 11%

**Ratio of IPv6 in Africa**
- TELONE: 33%
Embed, explore, compare,...

Embed code for this chart

Copy the code below, then paste into your own CMS or HTML. Embedded charts are responsive to your page width, and have been tested in Firefox, Safari, Chrome, and IE8 and above.

```
<svg version="1.1" id="chart" data-url="view_ft_v6users&dataYear=2018&chartType=pie&chartHeight=200&chartQualifier=&chartTitle=Ratio+of+IPv6+in+Africa&initialSort=&statType=scaled-percentage" frameBorder="0" width="100%" height="300" style="margin: 1em; max-width: 300px;">
<script src="https://wider.isoc.org.za/static/js/embed.chart.make.js"></script>
```

Align this embedded chart in text: Normal Left Right

Active IPv6 users.

Table explorer
Change table

Add data for more places below; visualize or download this data with controls at right.

Selected geographies
South Africa Remove
Africa Remove
Earth Remove

Add a geography
Find a place

<table>
<thead>
<tr>
<th>Table FT_MARKETSHARE_USERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stats from stats.labs.apnic.net</td>
</tr>
</tbody>
</table>

Table universe: Marketshare

<table>
<thead>
<tr>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>101NETLINK - 101Netlink ...</td>
</tr>
<tr>
<td>AS21541</td>
</tr>
<tr>
<td>111, Rue de Croix ...</td>
</tr>
<tr>
<td>AS8362</td>
</tr>
<tr>
<td>123NET - 123.Net, Inc. ...</td>
</tr>
<tr>
<td>AS12129</td>
</tr>
<tr>
<td>168-244 - Lowes Companies, Inc. ...</td>
</tr>
<tr>
<td>AS21789</td>
</tr>
</tbody>
</table>
The product

About Wazimap

Wazimap, from the Xhosa word *ulwazi* for knowledge, is a joint project by Media Monitoring Africa and OpenUp that provides easy access to South African census and elections data.

Read more about who we are and why we built Wazimap.

Shoulders of Giants

Wazimap is based on the amazing Census Reporter and is completely open source. You can build a Wazimap for your own country.
Underlying technology

- Python Django
- PostgreSQL
- Tilelayer.js (map), charts.js (charts)

https://github.com/AFRINIC-Labs/WIDER
Topics: you name it!

- Internet Access and usage
- IPv6 penetration
- DNS data
- Peering and interconnection
- Internet freedom
- Make it yours (?)
What next?

- Understand your interest
- Identify new and accurate data sources (WORLD)
- Integrate bespoke measurements datasets
- Build a “WIDER” community
- Make the project self-sustainable