

# TRENDS IN THE GLOBAL DIGITAL ECONOMY

INCREASING DIVIDES AND THE PROMISE OF LOCAL ENTREPRENEURSHIP

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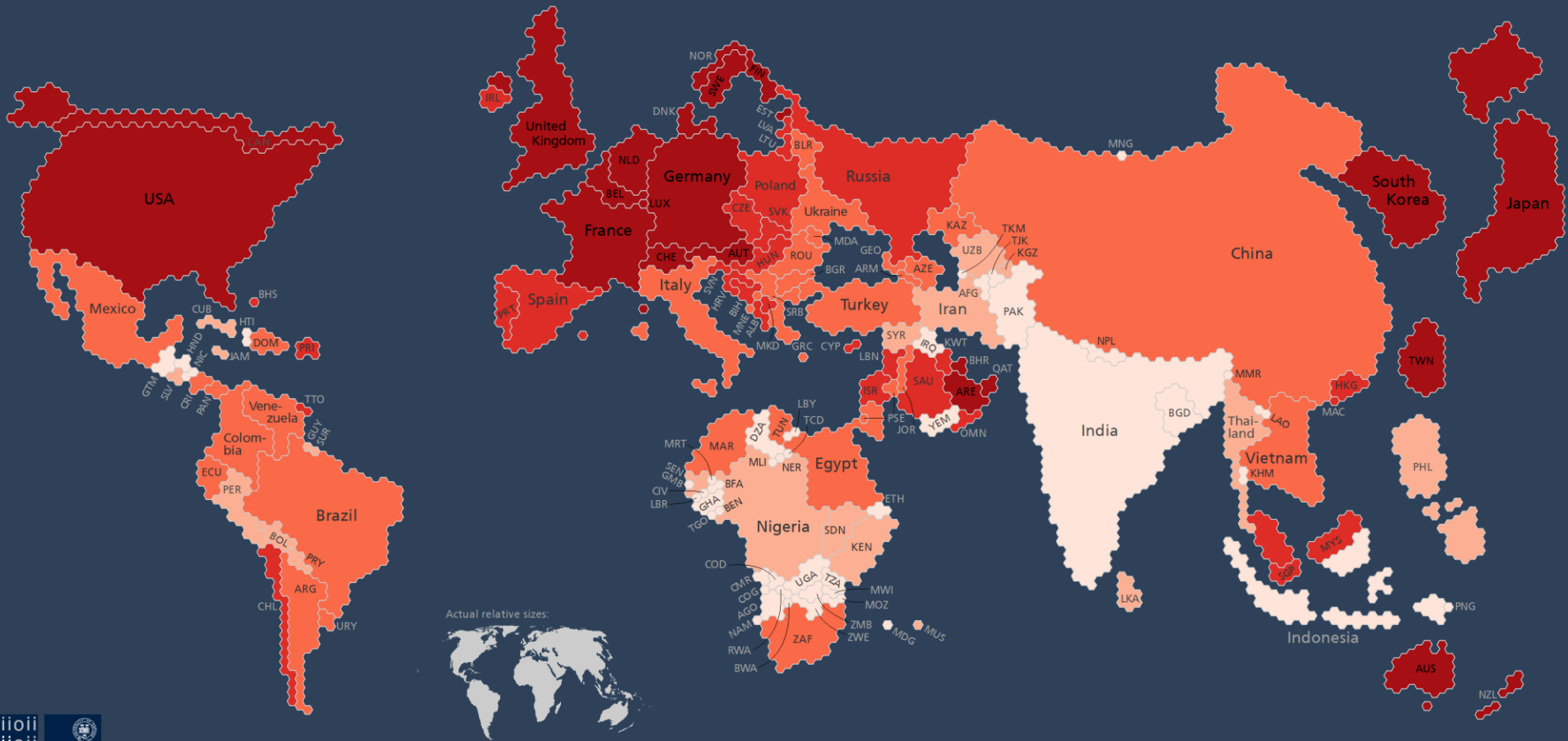
<https://www.oii.ox.ac.uk/people/nicolas-friederici/>

<http://geonet.oii.ox.ac.uk>, @GeonetProject

## Geonet

Investigating the Changing Connectivities and Potentials of Sub-Saharan Africa's Knowledge Economy





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# The World Online

## Percentage of people online



## Number of people online

One ● represents roughly 470,000 people online.

The countries are scaled proportionally to the number of Internet users in that country. Countries with fewer than 470,000 people online have been removed from the map. The shading indicates the percentage of the population that is online.

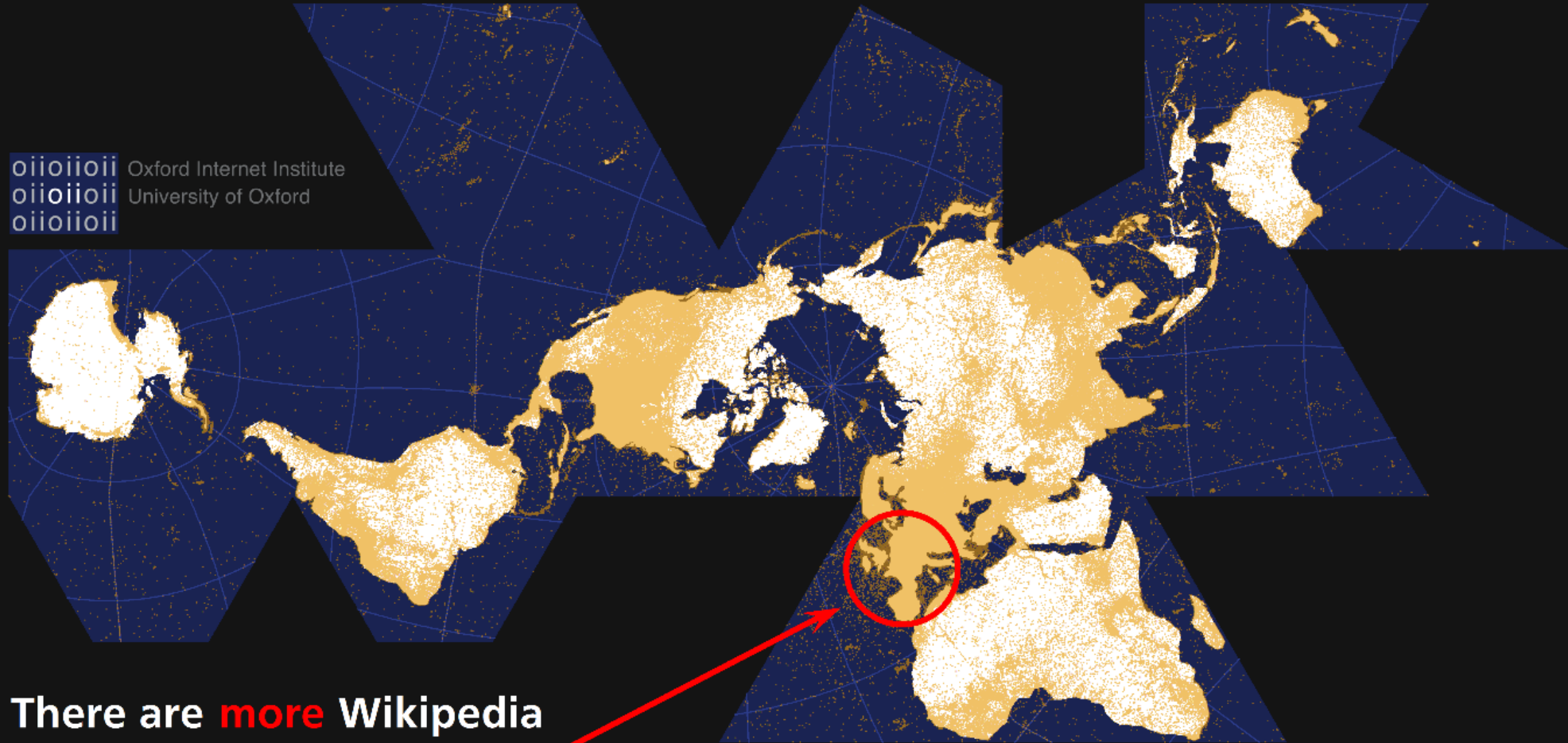
The visualization uses 2013 data from the World Bank's Worldwide Development Indicators project and from Natural Earth.



# The Geographically Uneven Coverage of Wikipedia

While it is an invaluable resource of knowledge for numerous users, Wikipedia's articles have a strong bias in their geographic distribution. Below map is based on 3,336,473 geotagged articles in November 2012 data dumps of 44 language versions. Each article is represented by an orange dot.

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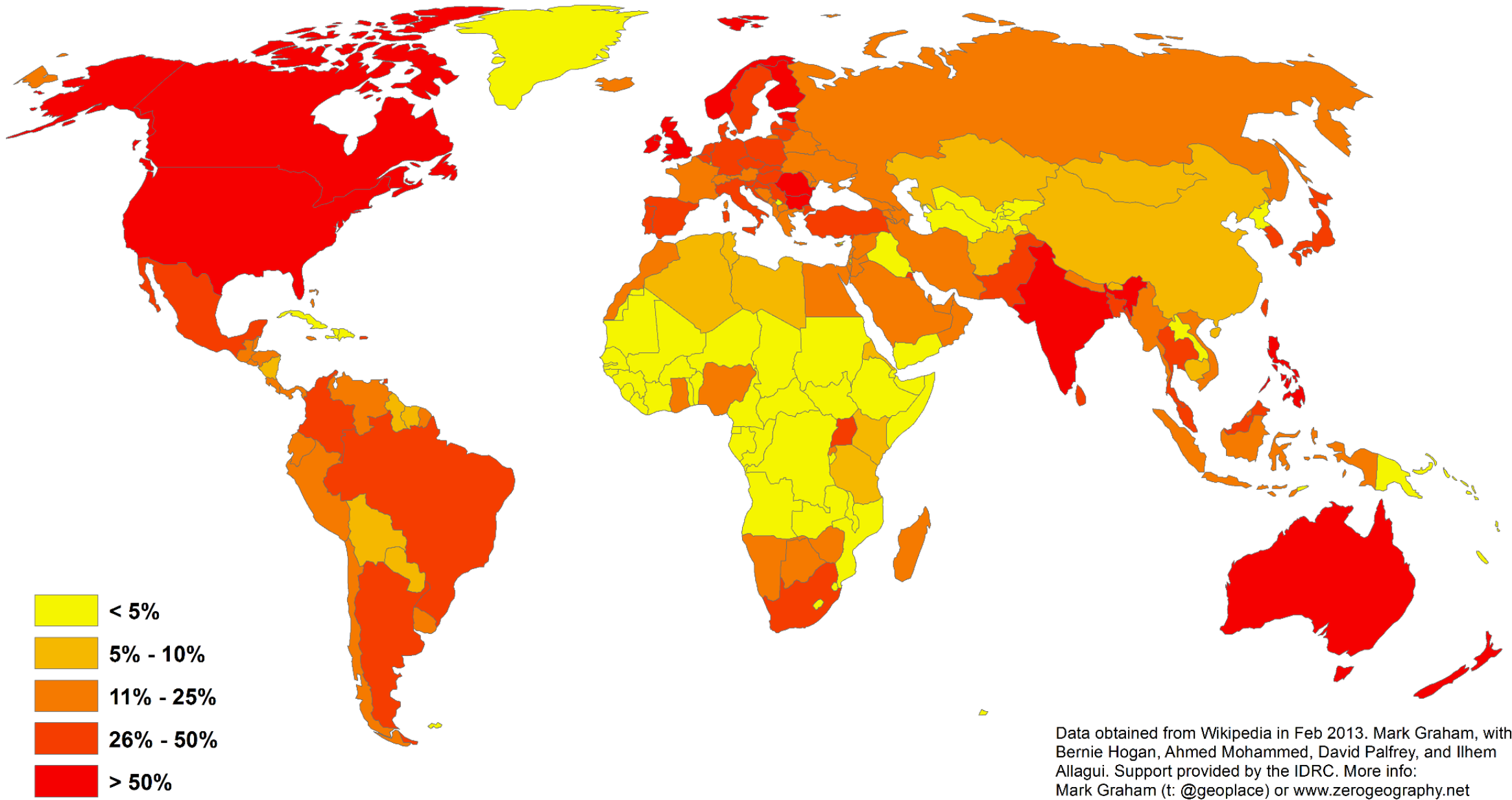


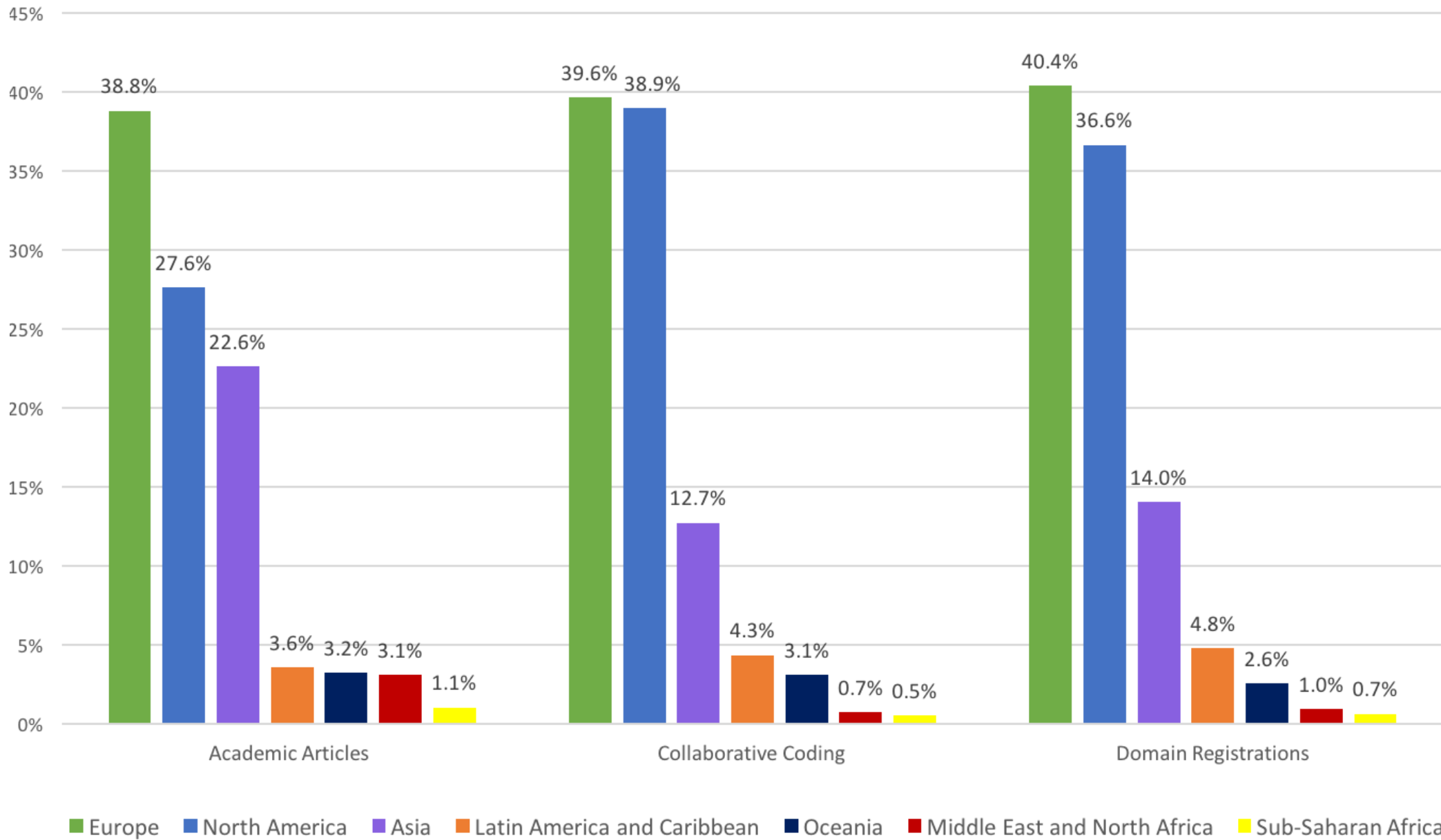
There are **more** Wikipedia articles **inside** this circle **than outside** of it

This map is part of the Information Geographies project at <http://geography.oii.ox.ac.uk>.

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Ralph Straumann, Mark Graham  
Data sources: Wikipedia, Natural Earth

# what percentage of edits to English-language Wikipedia articles are from local people?



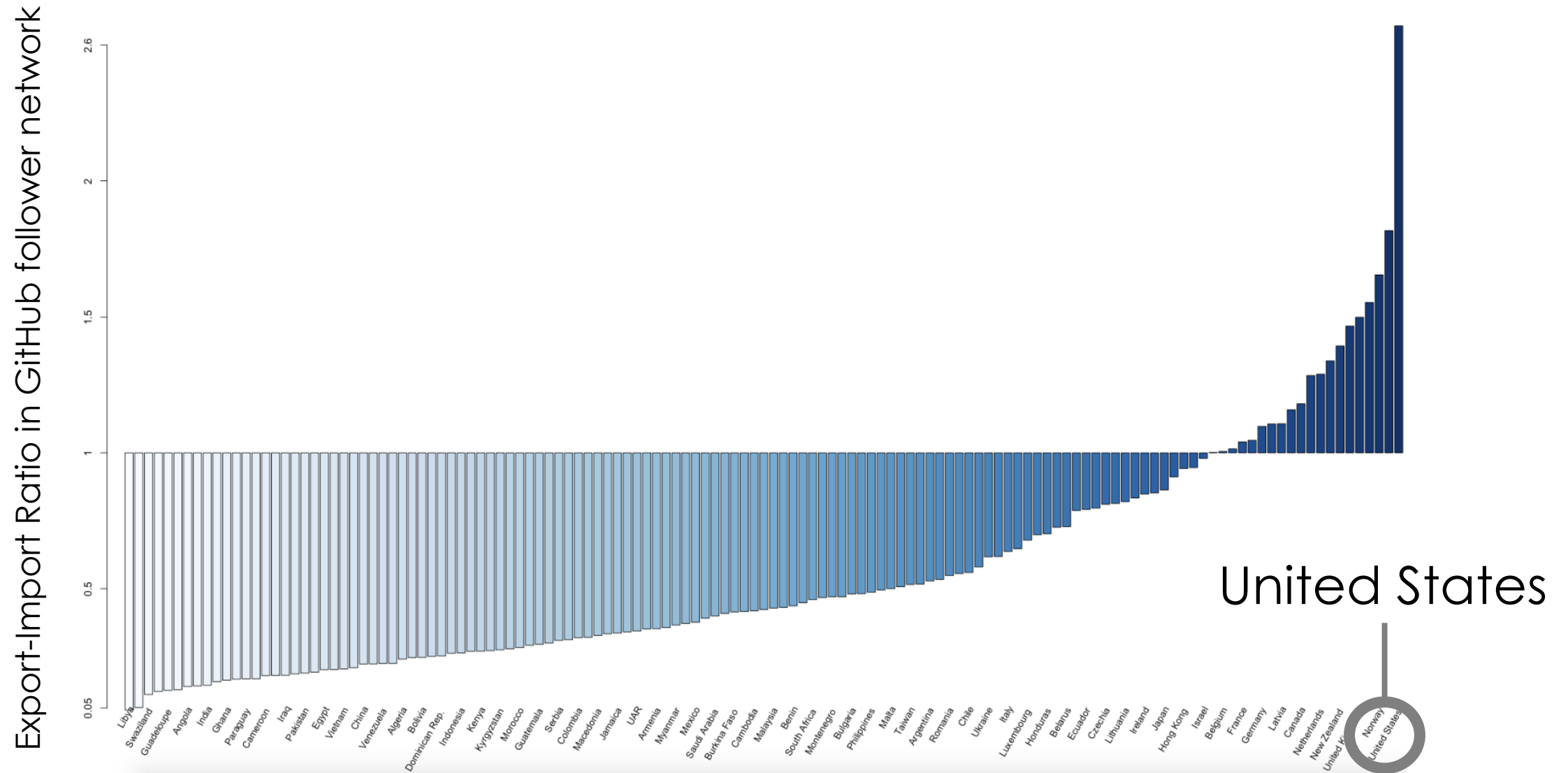


Source: Ojanpera et al., 2017, Oxford Internet Institute

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# Network centrality of countries on *GitHub*

(GitHub is the largest collaborative programming community worldwide with more than 24 million users)

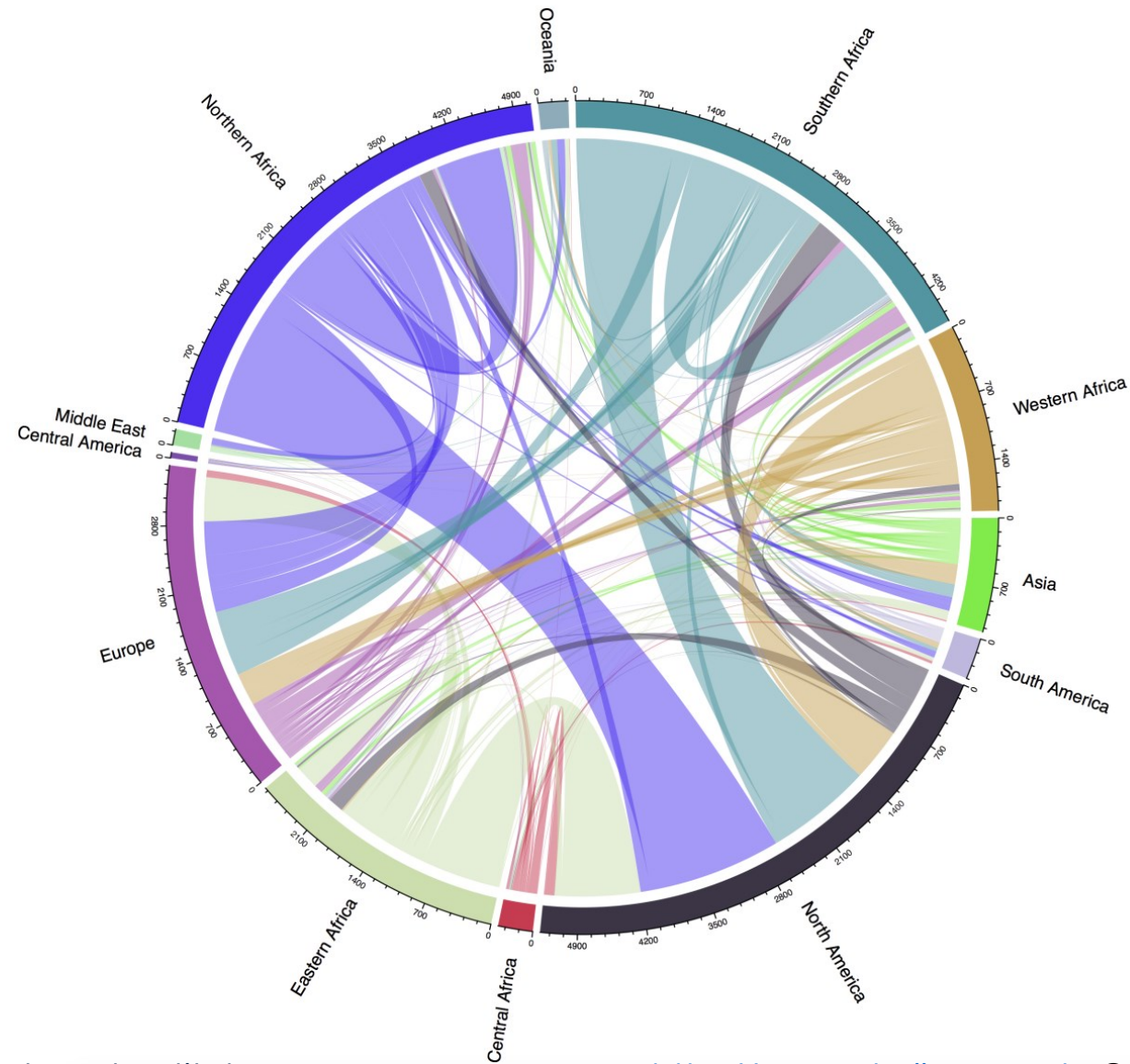


Source: Braesemann et al., Oxford Internet Institute

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# Africa's participation on *GitHub*

(GitHub is the largest collaborative programming community worldwide with more than 24 million users)



## Publicly traded companies [\[ edit \]](#)

All market capitalization figures are in USD millions.

**2016** [\[ edit \]](#)

Third quarter	
	Apple Inc ▲ 612,662.8
	Alphabet ▲ 541,700.3
	Microsoft ▲ 448,223.3
	Amazon Inc. ▲ 401,629.1
	Facebook ▲ 368,704.1
	Exxon Mobil ▼ 363,175.4
	Berkshire Hathaway

**2017** [\[ edit \]](#)

Third quarter <sup>[13][note 1]</sup>	
	Apple Inc. ▲ 791,726
	Alphabet Inc. ▲ 664,550 <sup>[14]</sup>
	Microsoft ▲ 568,965
	Amazon.com ▼ 459,435
	Berkshire Hathaway ▲ 451,840 <sup>[15]</sup>
	Alibaba Group ▲ 436,850 <sup>[16]</sup>
	Tencent ▲ 405,007

## List of African countries by GDP (nominal)

From Wikipedia, the free encyclopedia

### List [\[ edit \]](#)

The 2016 estimates are as follows:<sup>[7][8]</sup>

2016 Rank <span>↕</span>	Country <span>↕</span>	Nominal GDP (\$ billions) <span>↕</span>
1	 Nigeria	537.966
2	 Egypt	330.765
3	 South Africa	266.213
4	 Algeria	165.974

### Economy of Africa

Statistics	
Population	1.1 billion (15%: 2013 <sup>[1]</sup> )
GDP	Nominal: US\$2.39 trillion, €1.80 trillion (2013) PPP: US\$ 3.757 trillion (2013)

3<sup>rd</sup> quarter 2016 valuation of

- Google ~ Nigeria's GDP
- Big five ~ 280 x Rwanda's GDP
- **Big five ~ Africa's GDP**



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Craft Silicon  
Thinking. Crafting. Transforming.



There is  
*hope!*

Digital entrepreneurship holds potential for local development

Progress needs to be assessed

Conditions for scaling need to be enabled

# Thank you!

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