

Working with Data

A Workshop on Understanding, Visualising and Mapping Data

Chennai, 3-5 August 2012

**Second day
4th August 2012**

- | | |
|--|---------------|
| 1. Presentation by Open Knowledge Foundation | [10:30-11:00] |
| 2. What is data visualisation? | [11:15-12:15] |
| 3. Tools for spatial data collection | [13:30-14:15] |
| 4. Introduction to tools | [14:15-14:30] |
| 5. Session on geo/visualisation tools #1 | [14:45-16:00] |
| 6. Session on geo/visualisation tools #2 | [16:15-17:30] |

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Collecting Spatial Data

Free Spatial Data

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

Landsat Extended Thematic Mapper+ and Multi-Spectral Scanner

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

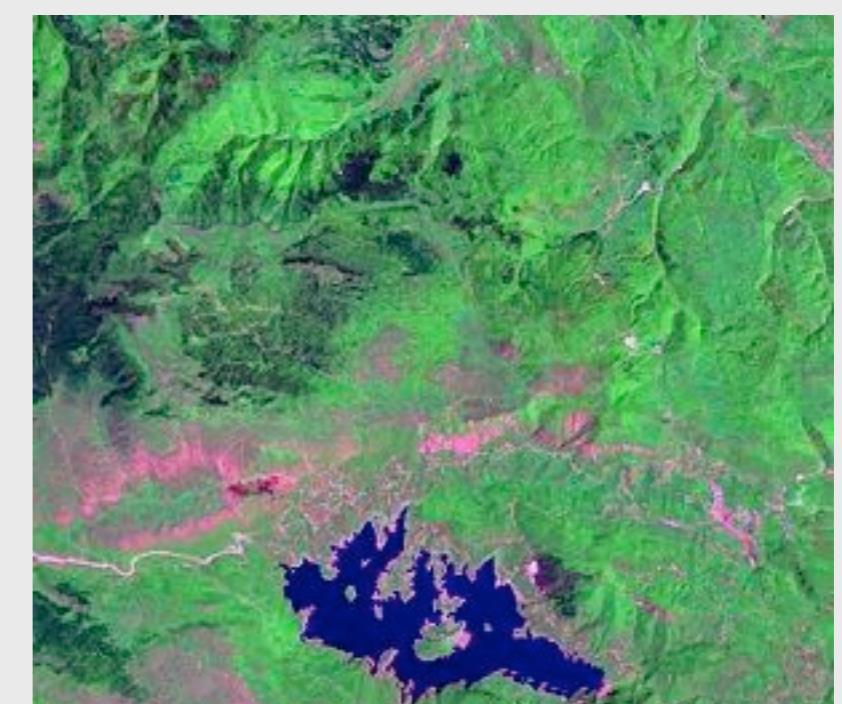
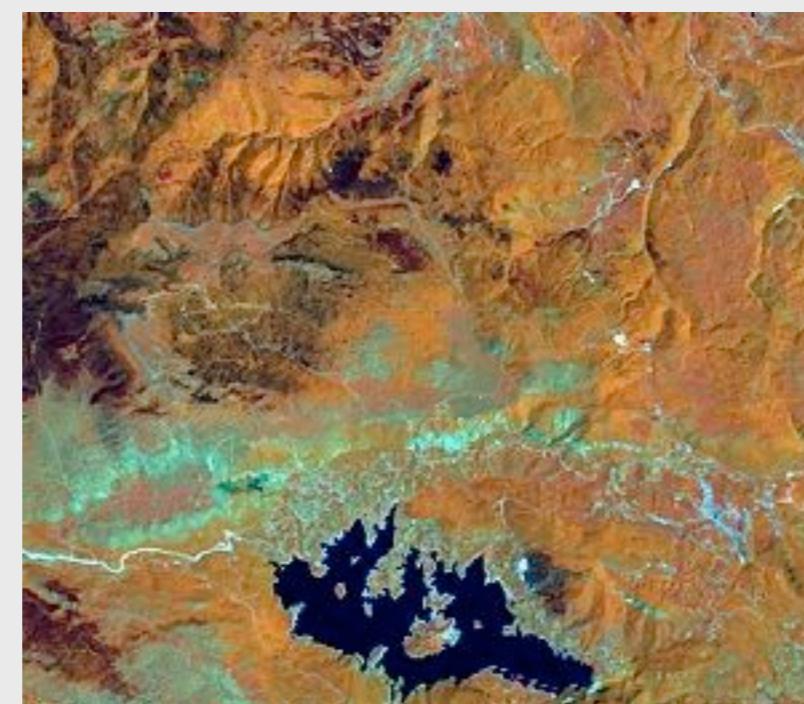
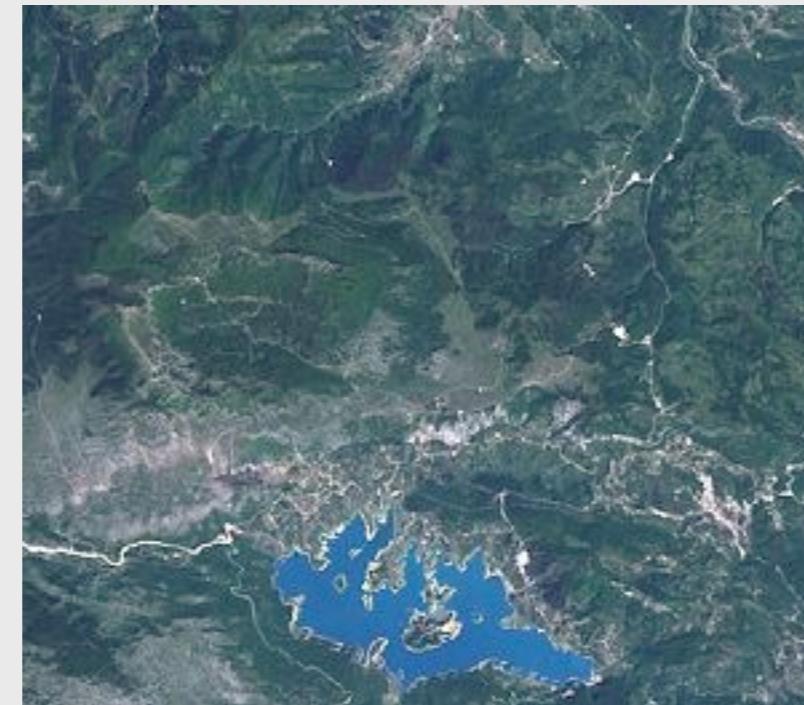
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Free Spatial Data

Landsat Extended Thematic Mapper+ and Multi-Spectral Scanner

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Free Land Cover Data

**[http://www.glcumd.edu/
data/landsat/.org/](http://www.glcumd.edu/data/landsat/.org/)**

Lots of derivative products

Free Spatial Data

Landsat Extended Thematic Mapper+ and Multi-Spectral Scanner

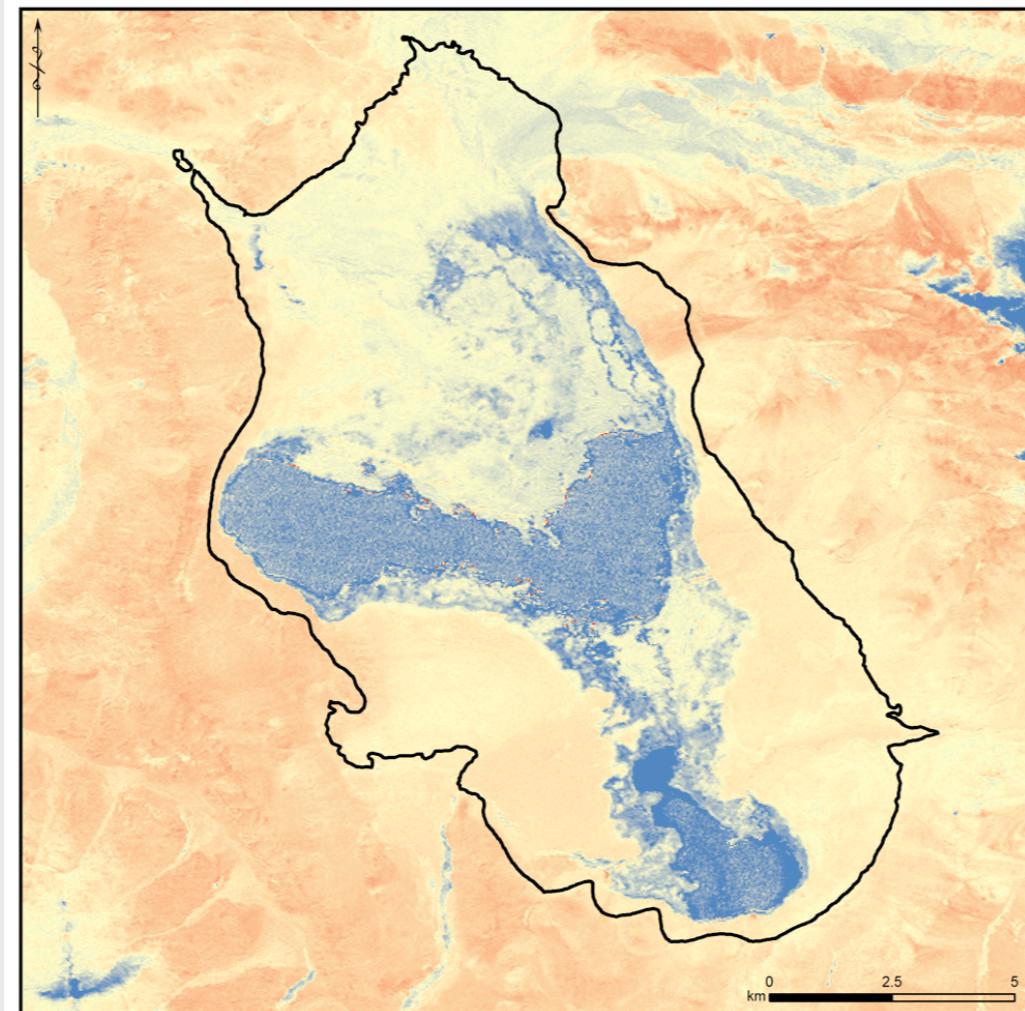
Landsat

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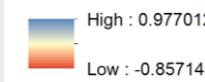
WorldClim

GADM

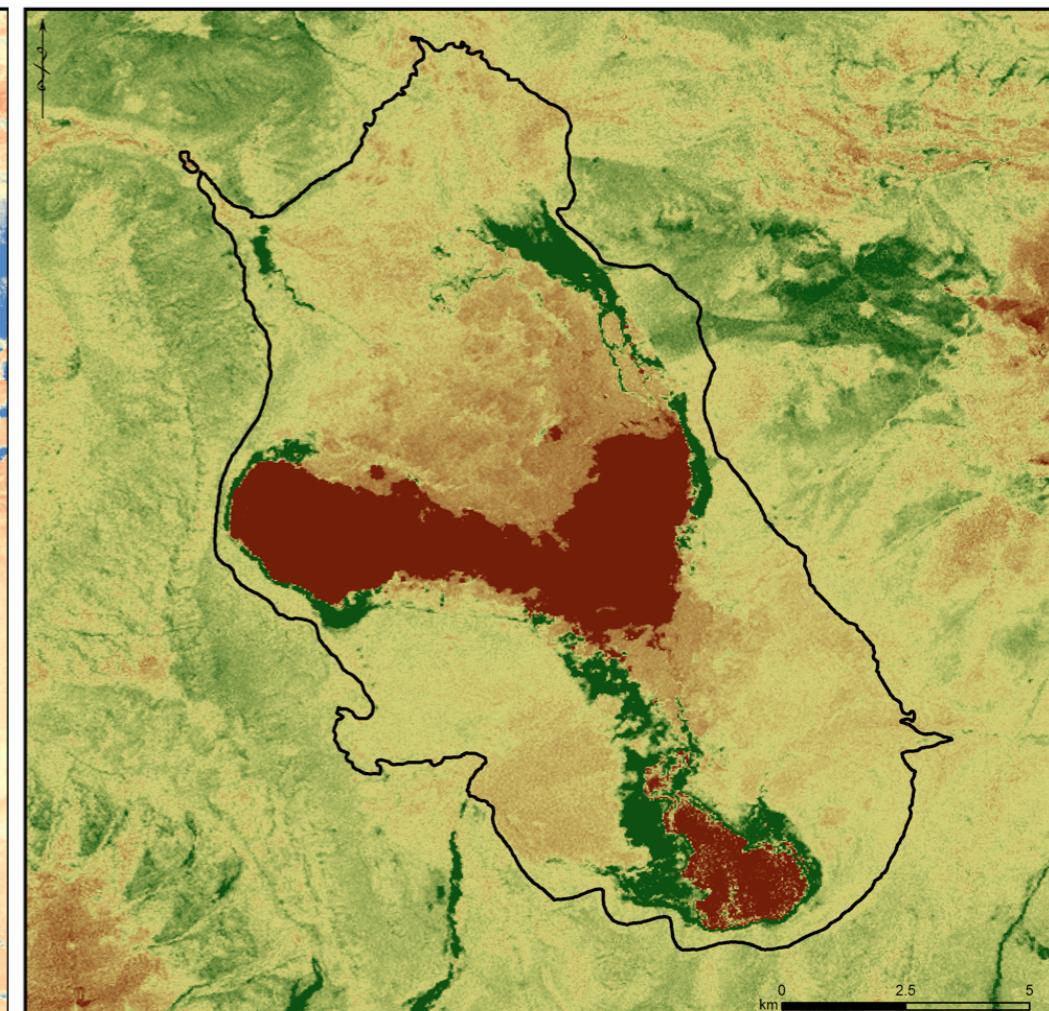
NDWI



NDWI 2000



NDVI



NDVI 2000



Free Spatial Data

Shuttle Radar Topography Mission

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

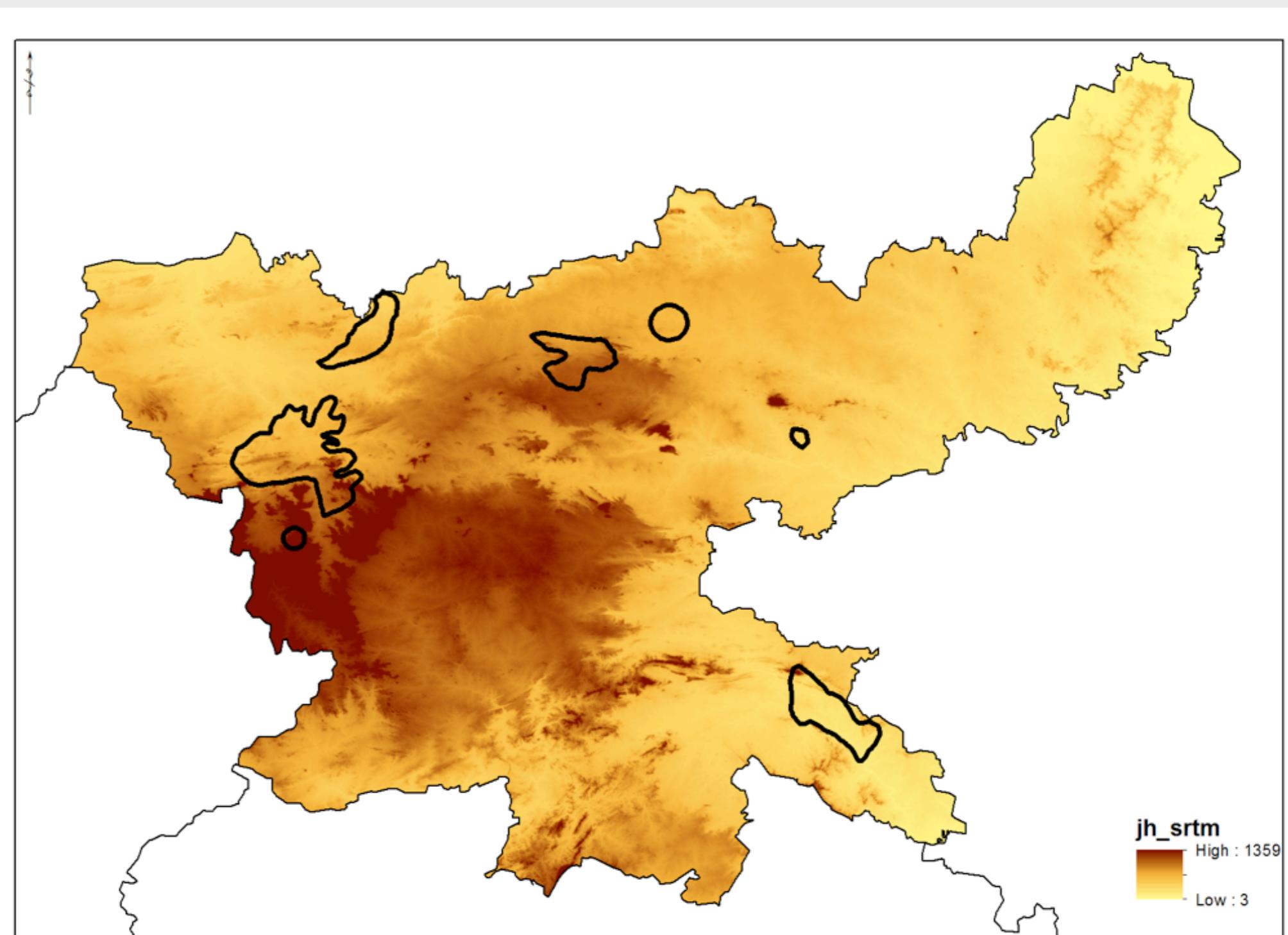
Shuttle Radar Topography Mission

Landsat

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GADM



Jharkand: Corridor Mapping Description

SRTM_Heights

Free Spatial Data

Shuttle Radar Topography Mission

Landsat

SRTM

Free Digital Elevation Model

WorldClim

GADM

<http://srtm.csi.cgiar.org/>

Many applications

Free Spatial Data

Shuttle Radar Topography Mission

Landsat

Slope

SRTM

Hydrology

WorldClim

Contours

GADM

Aspect

Line of Sight

Free Spatial Data

Shuttle Radar Topography Mission

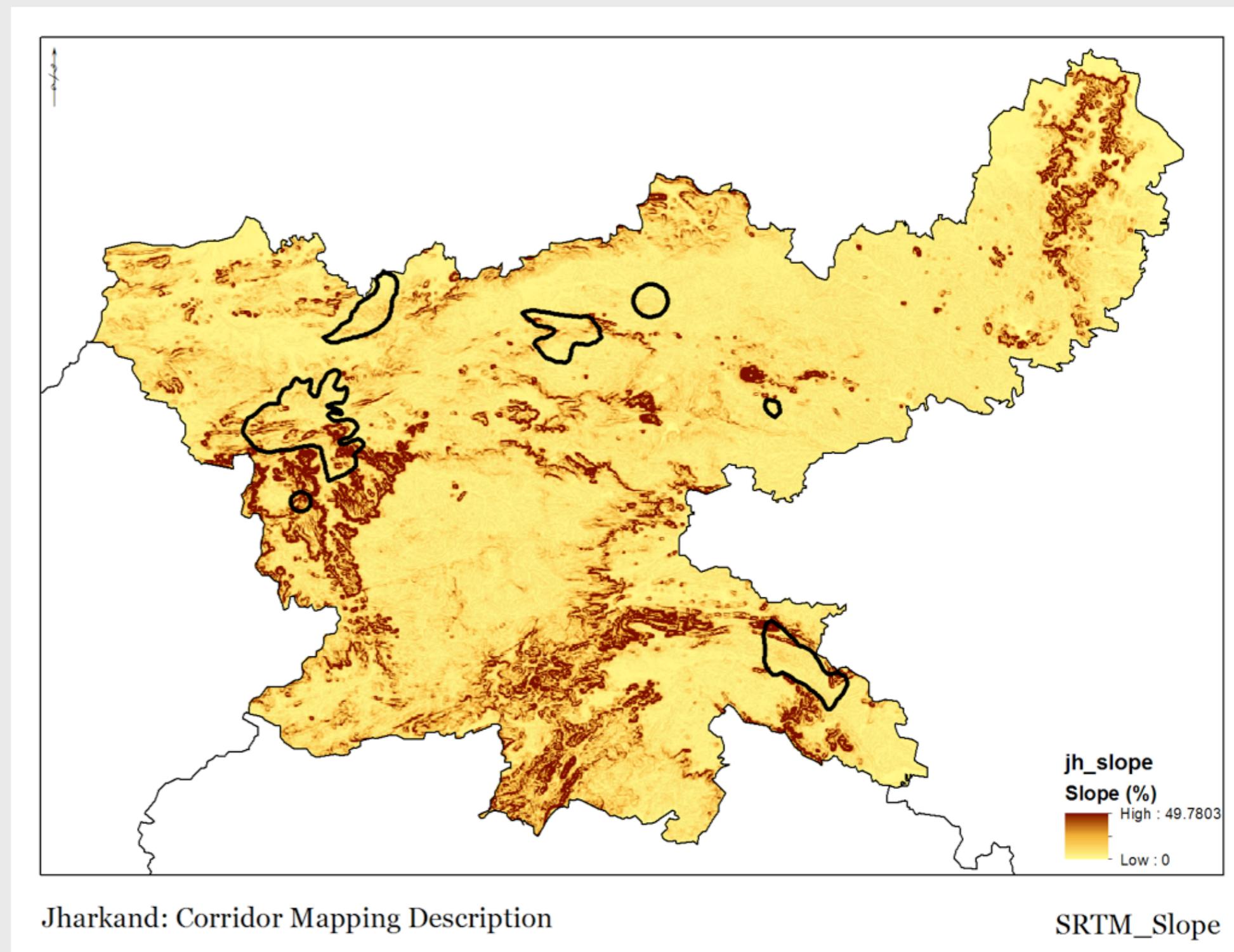
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SRTM

WorldClim

GADM

Slope



Free Spatial Data

Climate Models

Landsat

SRTM

WorldClim

GADM

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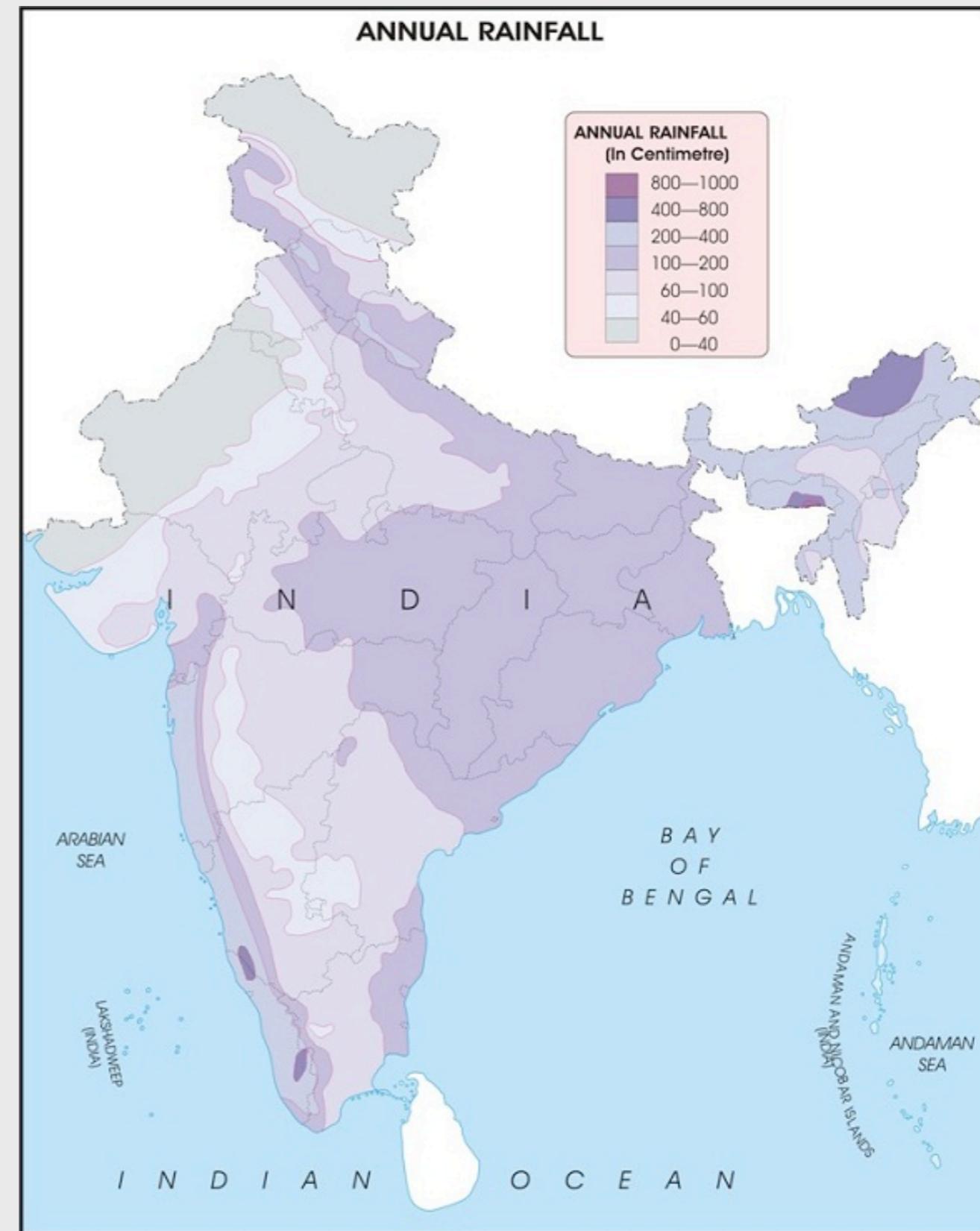
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WorldClim

GADM

Climate Models



Free Spatial Data

Climate Models

Landsat

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

SRTM

WorldClim

Interpolation of average **monthly** climate data from weather stations

GADM

Mean, minimum and maximum temperature

Total precipitation

Free Spatial Data

Climate Models

Landsat

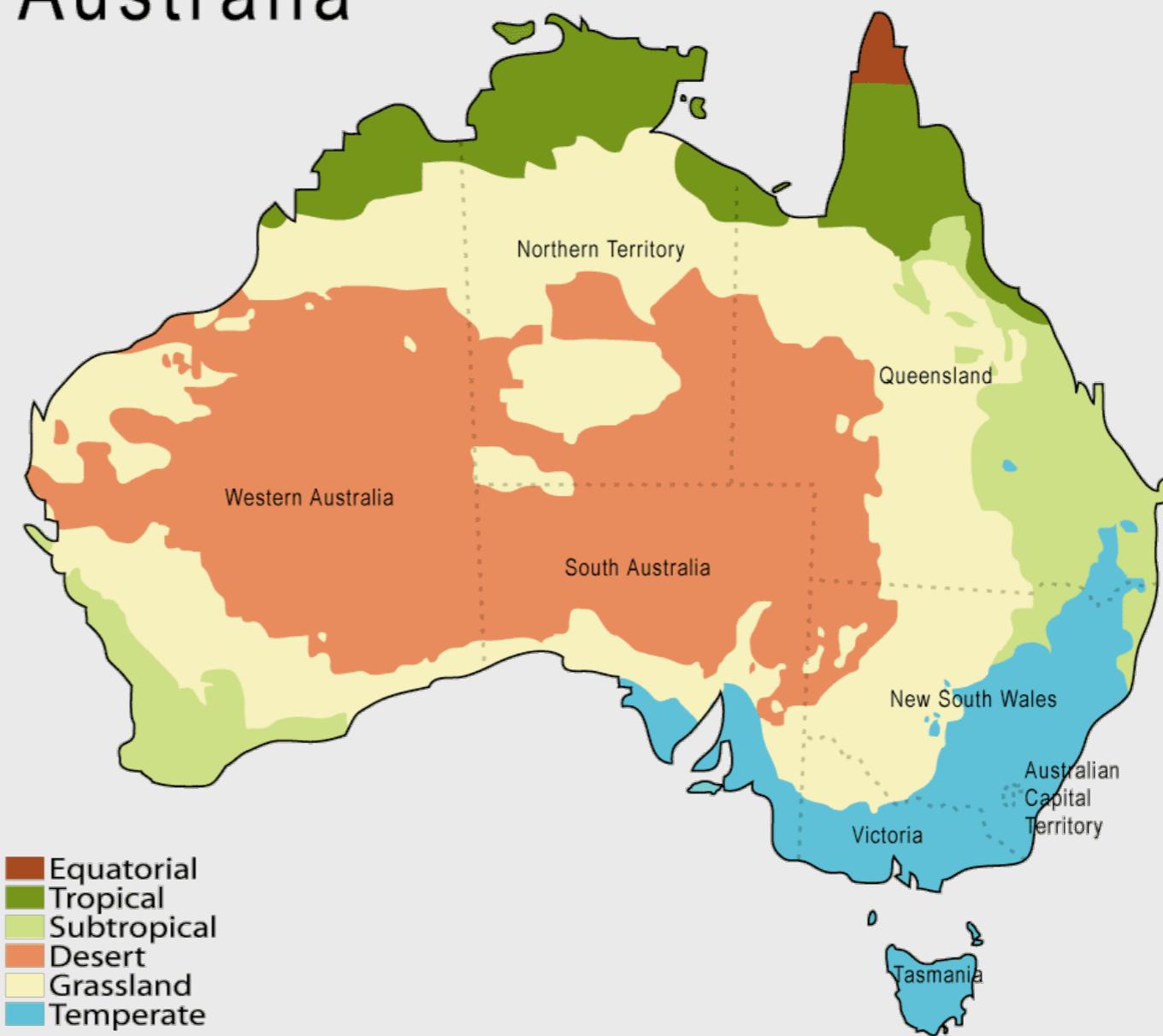
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WorldClim

GADM

Climate Zones

Australia



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Climate Models

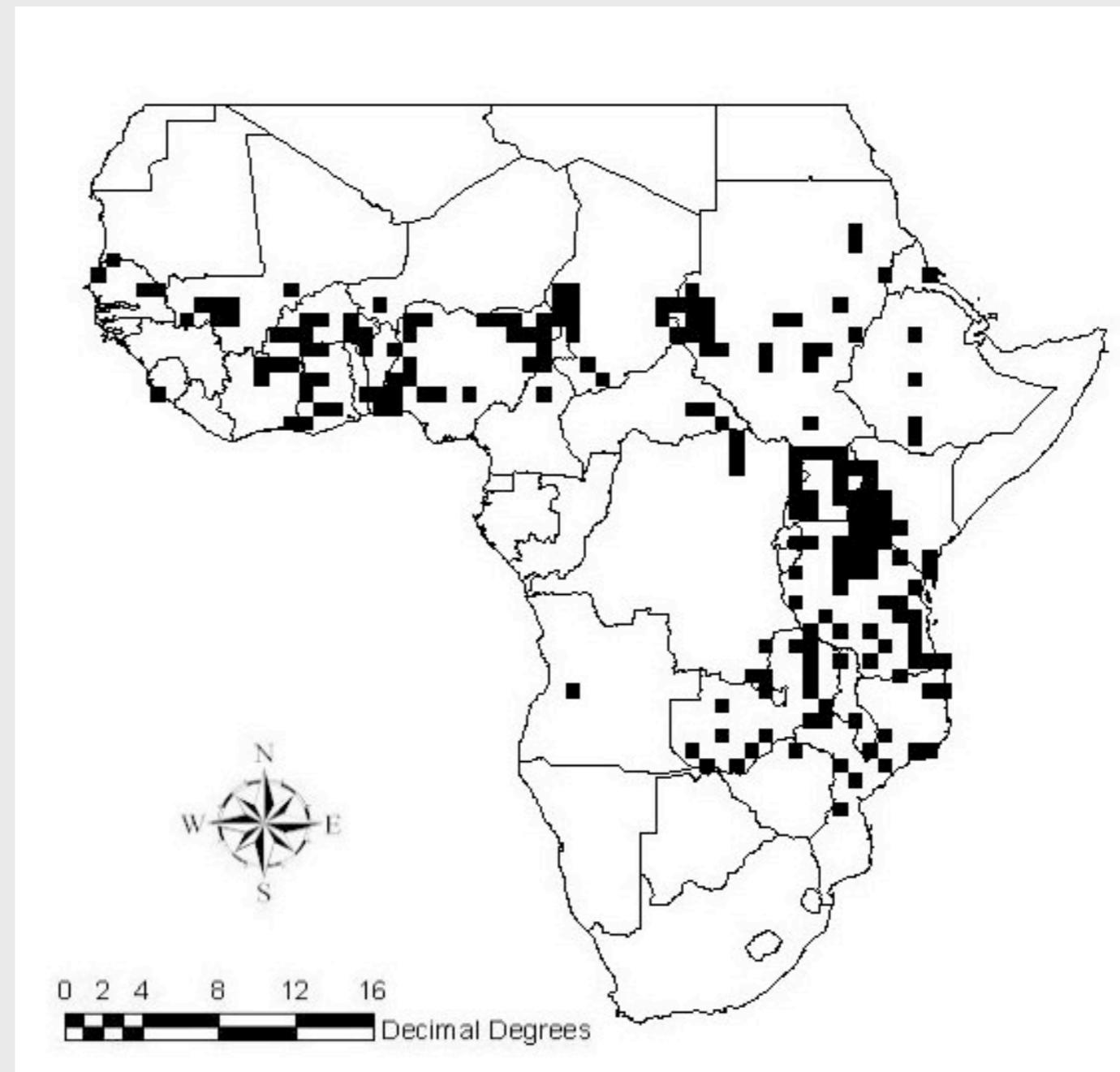
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SRTM

WorldClim

GADM

Species Envelopes



Present day African *Acacia sieberiana* habitat

Free Spatial Data

Global Administrative Areas

Landsat

SRTM

WorldClim

GADM

Free Spatial Data

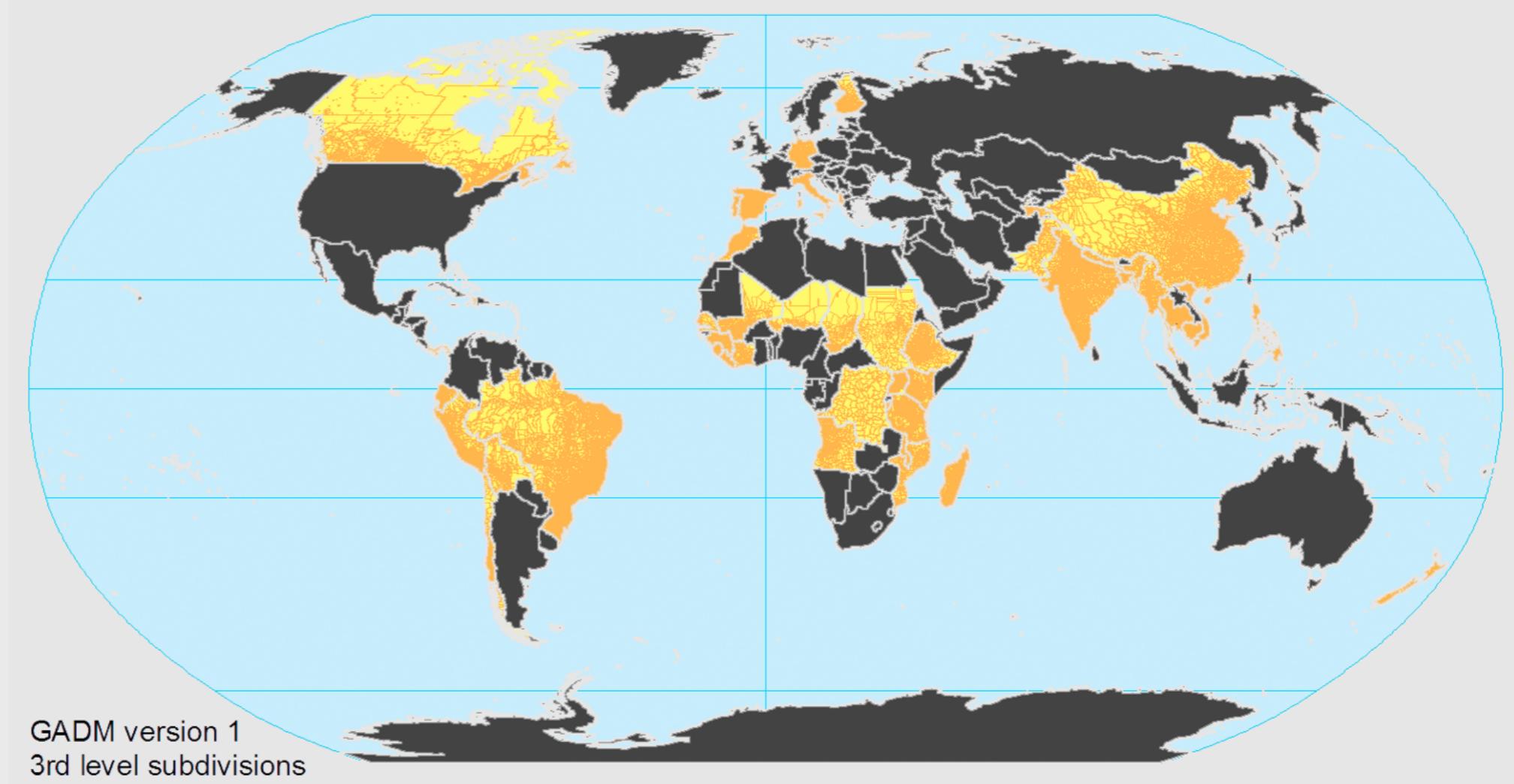
Global Administrative Areas

Landsat

SRTM

WorldClim

GADM



Free Spatial Data

Global Administrative Areas

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“Boundaries without Limits”

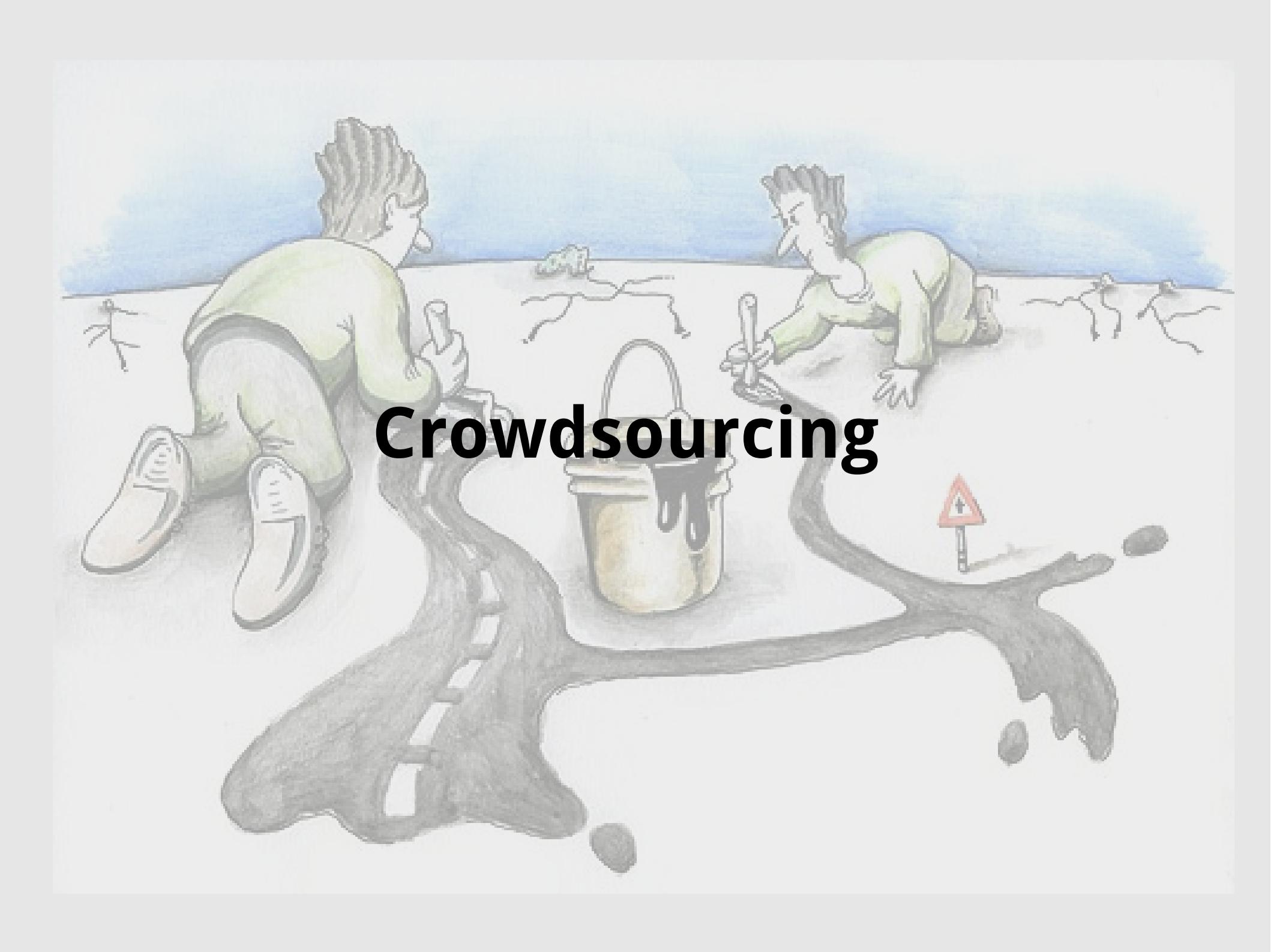
www.gadm.org

“This is a never ending project”

GPS

Global Positioning System

Restrictions



Crowdsourcing

- Distributed problem-solving and production model.
- Coined by Jeff Howe in a June 2006 Wired magazine article "The Rise of Crowdsourcing"
- Oxford English Dictionary.

"Wisdom of the crowd"

WE CROWDSOURCE THE DESIGN PROCESS, ALLOWING THOSE WITH THE BEST DESIGNS TO CONNECT—
VIA ALREADY-IN-PLACE SOCIAL NETWORKING INFRASTRUCTURE—
WITH INTERESTED MANUFACTURERS, DISTRIBUTORS, AND MARKETERS.



NOBODY CAUGHT ON THAT OUR BUSINESS PLAN DIDN'T INVOLVE US IN ANY WAY—IT WAS JUST A DESCRIPTION OF OTHER PEOPLE MAKING AND SELLING PRODUCTS.

Mobile

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PLANNED

VOLTAGE

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DAILY

THEFT

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Social Media

barometer

Visualizing Sentiment on Twitter – by memetic labs & nth loop



[Tweet](#) 35

88,774

positive buzz today

hover over the question marks to
learn more about the chart.
click to dismiss this popup

6
mentions by
6
users today

20,082

negative buzz today

click on the various brand logos to
see the statistics for the brands.
click to dismiss this popup

Web/paper based forms

Interviews

Online Petitions/Campaigns

① Start a Petition



Param Vir Dhar starts a protest against corrupt RTO officials in Hardoi

② Mobilise Support



450 people petition the District Magistrate

③ Win Change



The DM suspends corrupt officials and installs anti-corruption signboards

[TIPS & GUIDES](#)[START A PETITION](#)[MORE VICTORIES](#)

Rationalise Auto Rickshaw fares in Chennai

#ChennaiAuto

SIGN THIS PETITION

First Name

Last Name

Email

Address

City

Country

Post Code

Why are you signing? [Add a reason \(optional\)](#)

SIGN



Signatures

9,365 out of 10,000

Petitioning

Transport Commissioner, Govt. of Tamil Nadu
(+ 2 others)



Created By
Prahalathan Karunakaran
Chennai, India

[About this Petition](#)

[Petition Letter](#)

[Petition Updates](#)

Auto rickshaw drivers in Chennai are fleecing passengers at rates close to Rs.25 per km. The auto-rickshaw fares haven't been revised in the last five years, even though fuel prices have been hiked frequently. This has resulted in considerable inconvenience for commuters who depend on autorickshaws for their transport needs as well to the auto rickshaw drivers.



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CAIRO, Egypt



What is the Ushahidi Platform



Manage the River of Information

GETTING STARTED WITH
SWIFT RIVER

[Watch The Video >](#)



Crowdsourcing In "the cloud"



CROWD MAP

Crisis Response

Making critical information more accessible in times of disaster

When disaster strikes, people turn to the internet for information. We help ensure the right information is there in these times of need by building tools to collect and share emergency information, and by supporting first responders in using technology to help improve and save lives.

Photo courtesy of: Bill & Melinda Gates Foundation*



Humanitarian OpenStreetMap Team

Haiti

Sahana