Social Media and Network Analysis Project

Refugee Immigration Network

Siddhesh Tiwari



Agenda

Motivation

Data & Network Description

Big Picture

Network Measures Employed

Insights – Communities

Takeaways



Motivation

Identify the Migration patterns in Refugees across the World

Identify Key Nodes (Countries)

Shifting focus to actual





206

Total # Countries between '80 and '14

153

With at least 1000 Migrating Refugees

12+ Million

Migrated from **Afghanistan** between 90 and 91

Data & Network Description

Data

Column
Year
Country / territory of
asylum/residence
Origin
Value
lat_dest
lon_dest
lat_org
lon_org
weight

Network

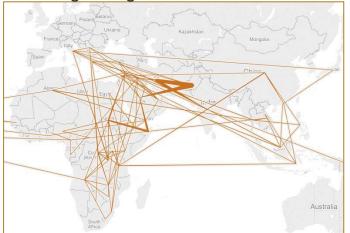
UN Refugee agency has data since it's inception has information regarding movements/displacement of people across the globe

We are looking at the subset of refugee data from 1980 - 2014

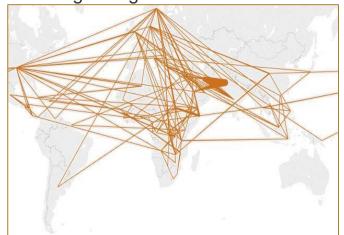


Over Time

Refugee Migrations from 1980 to 1985



Refugee Migrations from 1980 to 1990



Refugee Migrations from 1991 to 2000

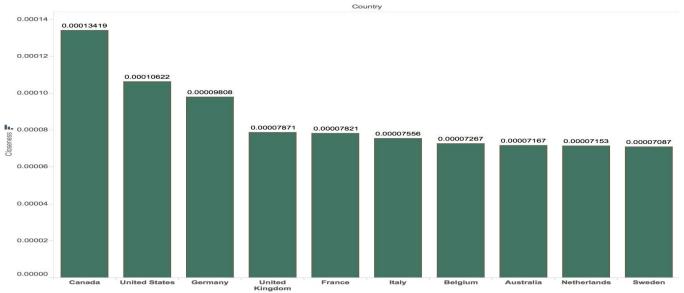


Refugee Migrations from 2001 to 2014

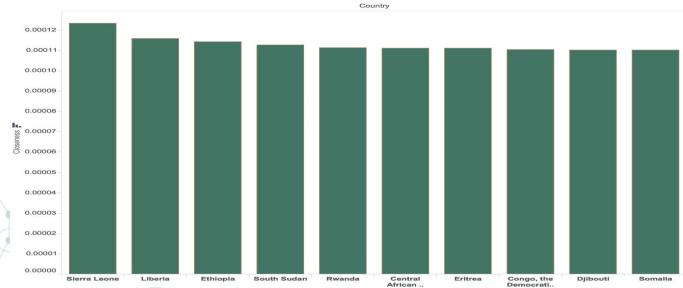


Top 10 Countries By: -

Closeness In:

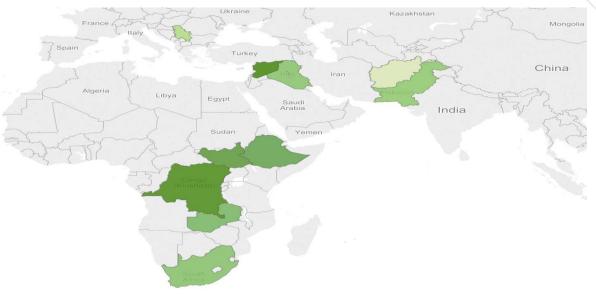


Closeness Out:

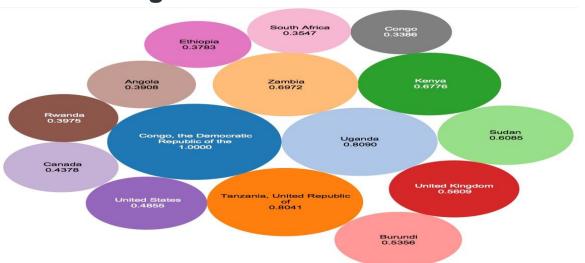


Top 10 Countries By: -

Betweenness:



Eigenvector

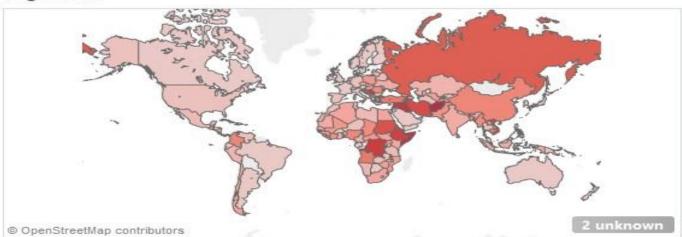


Betweenness

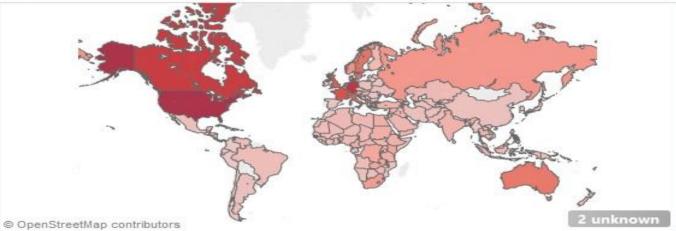
Syrian	1703
Congo	1660
South Sudan	1526
Ethiopia	1443
Zambia	1270
South Africa	1169
Iraq	11156
Pakistan	1097
Serbia	887
Afghanista n	702

Degree Centrality

DegreeOut



DegreeIn





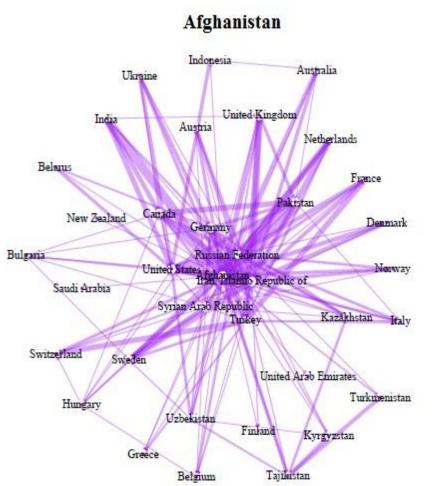
Network Centralization Index

The network centralization index confirms some structural differences between senders and receivers

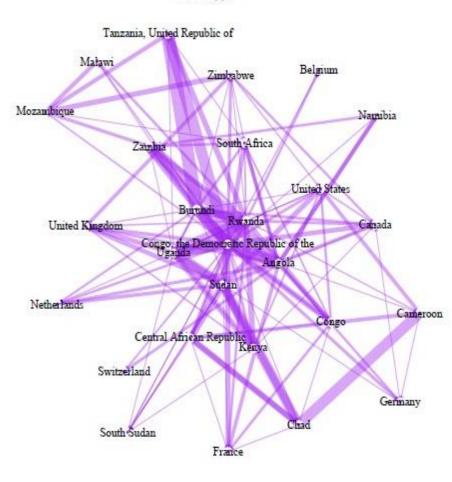
Out-degree centralization of 19.58%

In-degree of **40.63**%

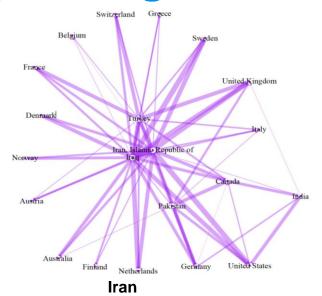
Comparing two key Nations

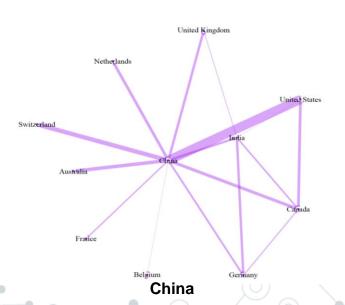


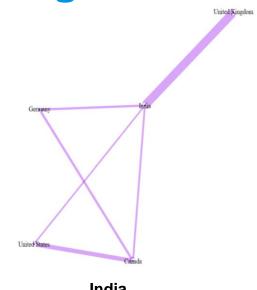


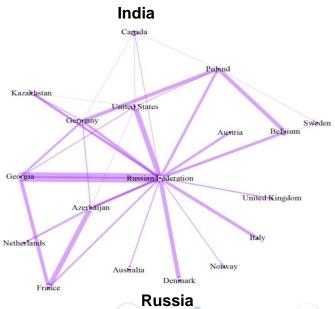


Neighboring Nets- Developing Nations

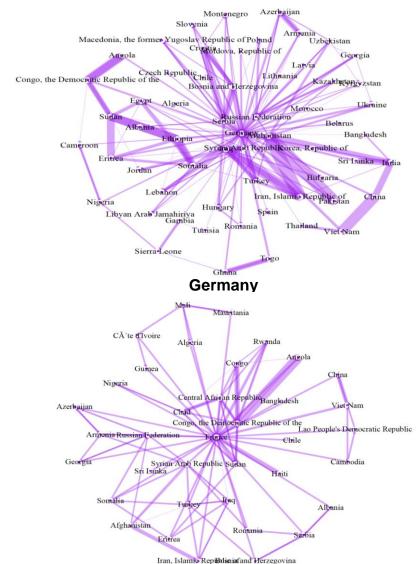




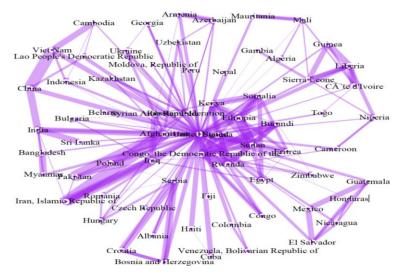




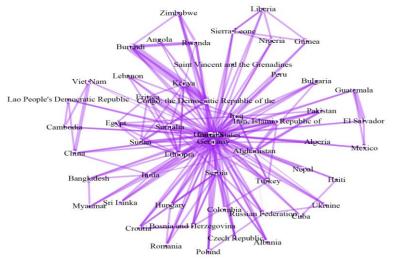
Neighboring Nets- Developed Nations



France

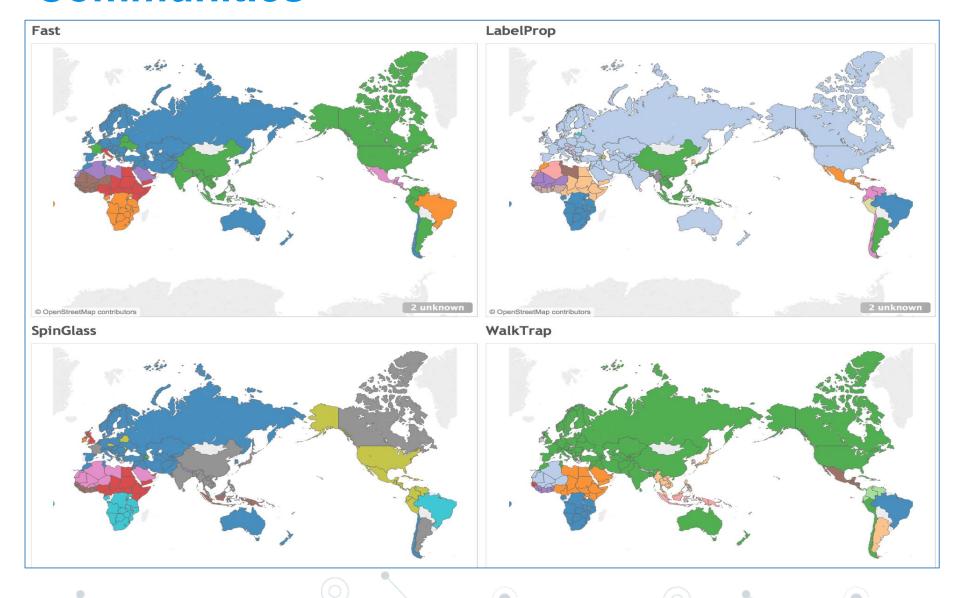


United States



Canada

Communities



Takeaways

Geo-political and Military factors:

Multinational conflict

Social revolution

State implosion (postcolonial conflicts, mainly)

Other categories:

Bureaucratic choices made by governments

Diplomatic international relations

The absorption capacity of the local host community

National security considerations

Thanks!

Any questions?



