How data analytics can help us to end modern slavery: Examples from the Philippines

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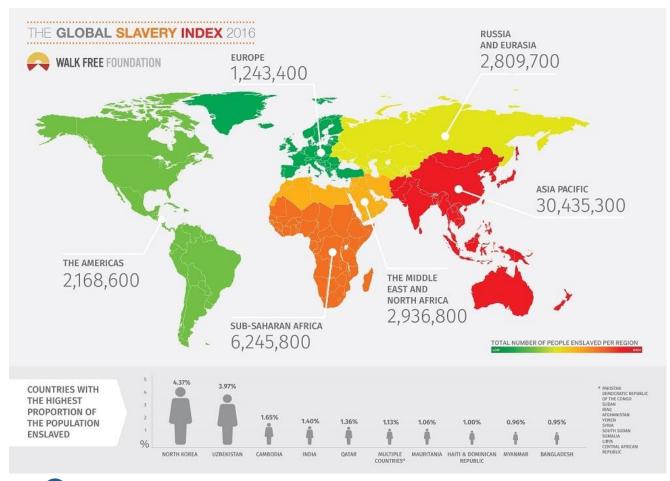


ADVANCING DEVELOPMENT EFFECTIVENESS



Direct Measurement of Modern Slavery

- Difficult to measure
- Difficult to define
- Ethical Issues
- Safety Issues





What about Indirect Measurement?

- Using techniques from environmental, geophysical sciences
- Is there a way to "characterize" the ecosystem of modern slavery?
- Can we use indirect data to point us to where vulnerabilities are?



Hypotheses – vulnerabilities to trafficking

- 1. High un/underemployment would mean high prevalence of OFWs.
- 2. People are becoming OFWs to make more money
- 3. Regions with high numbers of OFWs will have higher numbers of victims



Potentially Exploitive Industry (low skill, low pay)

- Manufacturing /Factory (Clothing Processing)
- Domestic Service (housekeeping, OFW)

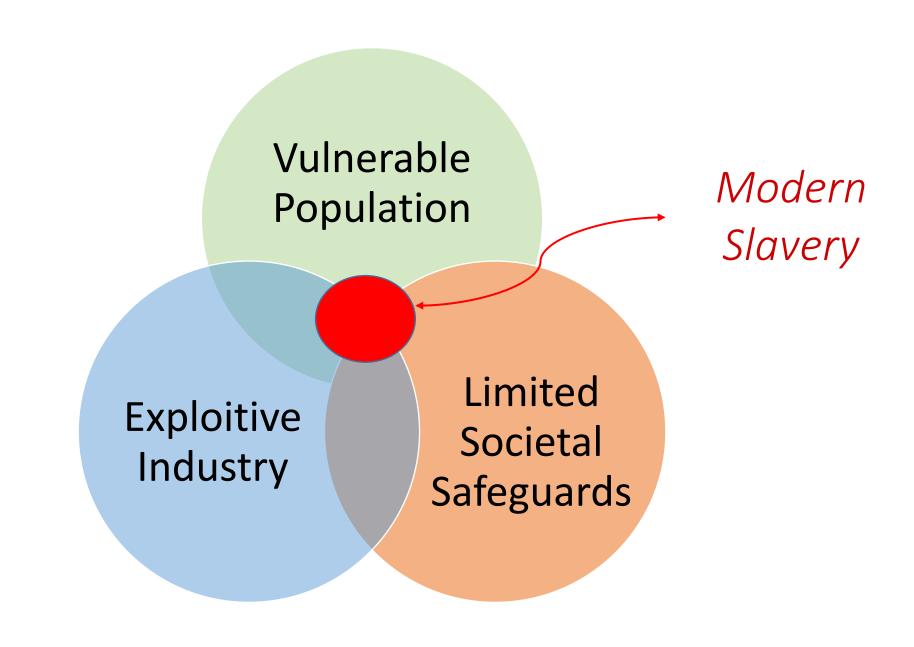
Vulnerable Population

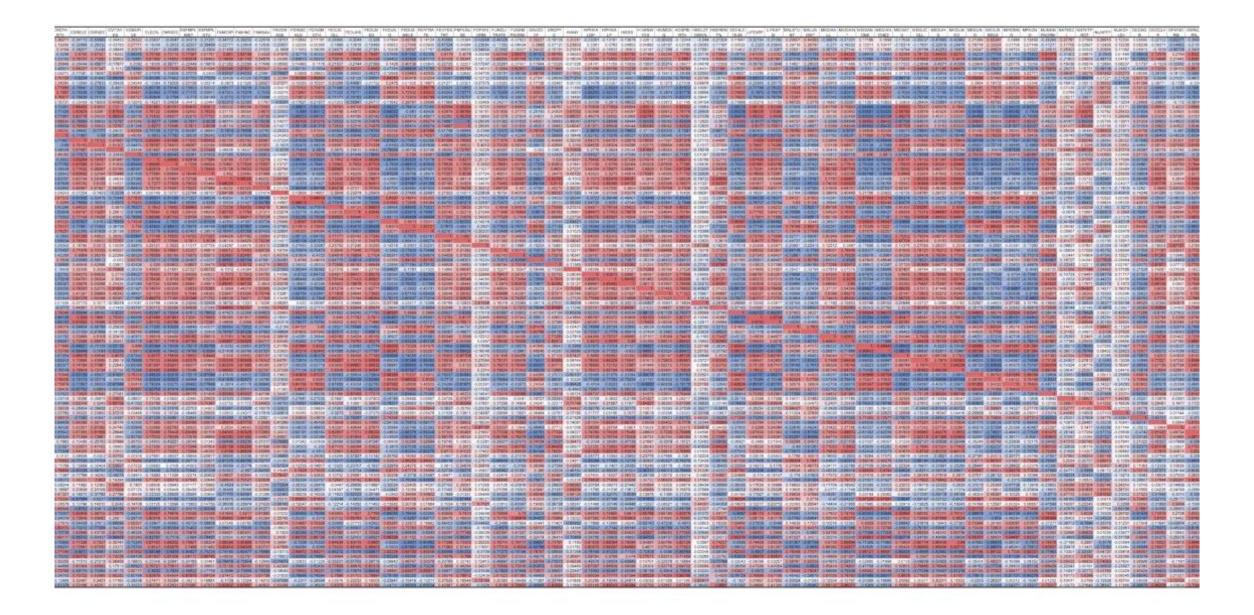
- Economic (poverty)
- Education (gender differences, access, attainment)
- Health (gender differences, access, age at first sex)
- Sociocultural (race, ethnicity, gender inequality)
- Political (Immigration policy, conflict, power of local government)

Limited Societal Safeguards (weak capacity)

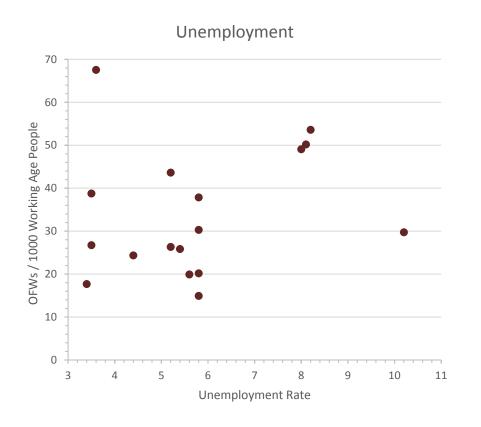
- Rule of Law (labor laws, enforcement, prosecution)
- Social Safety Nets (old age pensions, health coverage, support for disabled and victims)
- Institutional Systems

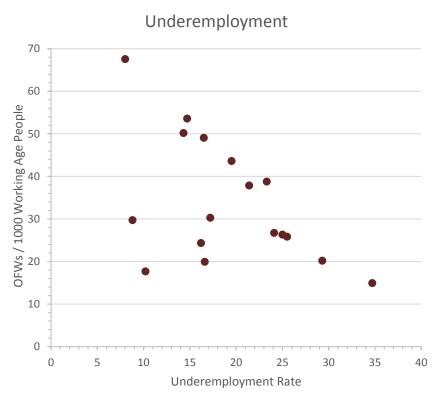
 (access to money, access to land, OFW system)
- Risk Perception (knowledge of rights, family influence)



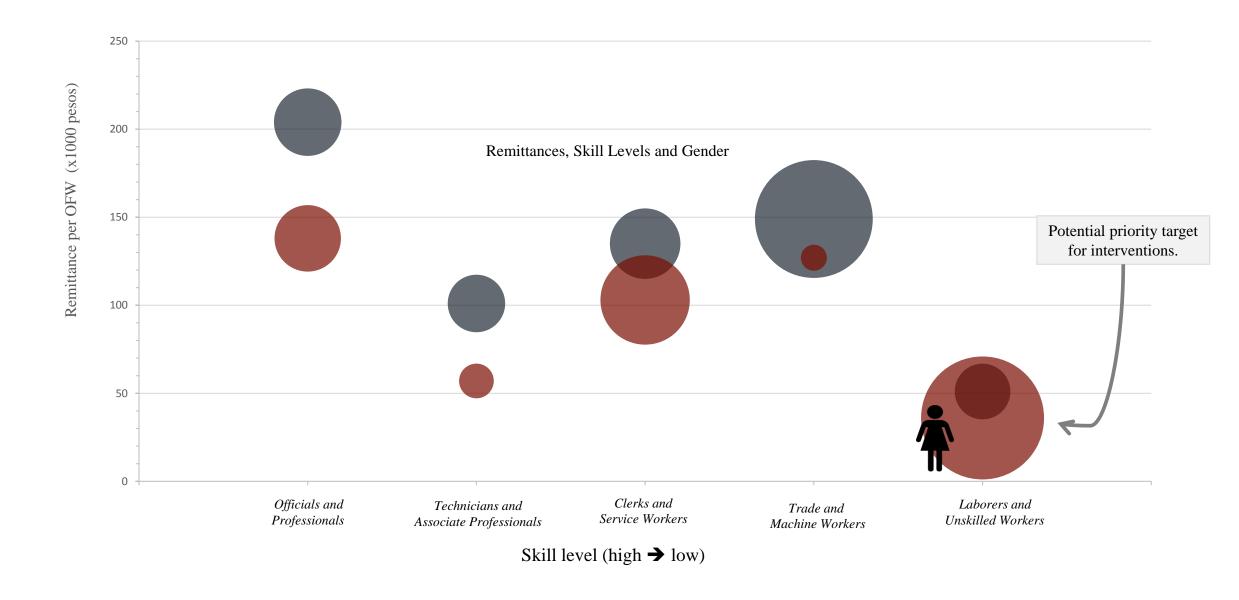


Prevalence of OFWs does not increase with increasing unemployment or underemployment rates



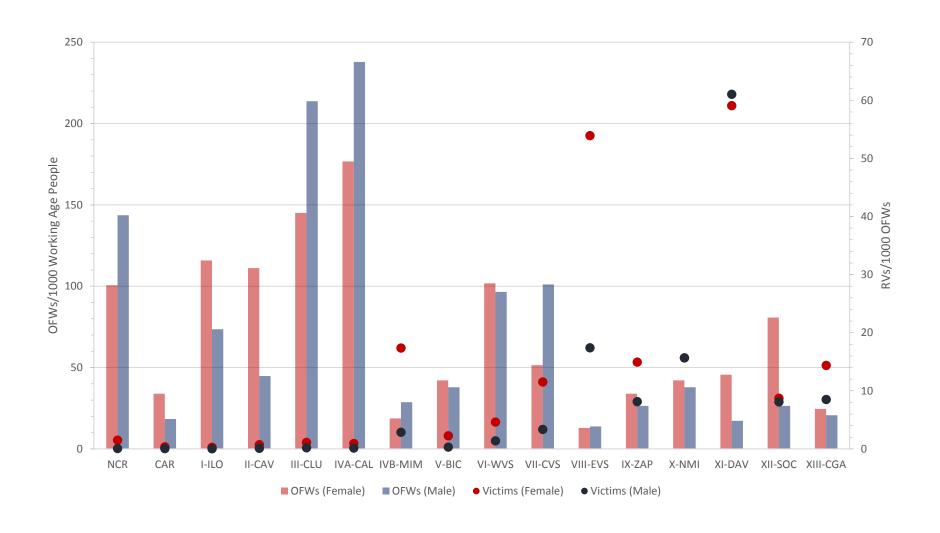




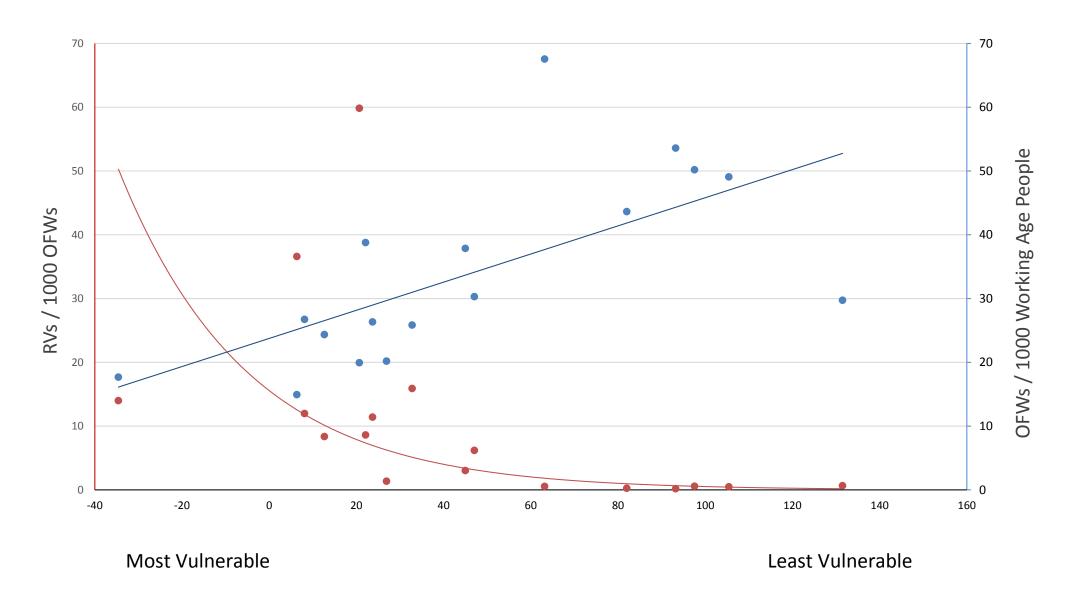


Over 50% of the female OFWs are working as unskilled workers providing remittances of less than \$750/ year.

Which regions have high prevalence of OFWs and Victims?



Vulnerability vs. OFW and RV prevalence



How can evaluators use this approach?

- Recommend using secondary data analysis/data analytics BEFORE evaluation
 - Better understand what is happening
 - Better able to target data collection in the right areas
 - Create a descriptive and predictive model
- Use primary data collection to feed back in to the model to move towards prescriptive solutions
- Keep building the model as you go along





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