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PANEL

MODERATED by Prof. **Henry Peter**

Head, Geneva Centre for Philanthropy (GCP)

Prof. Giuseppe Ugazio

Holder of the Edmond de Rothschild Foundations Chair in behavioural Philanthropy

Karin Jestin

Strategic Philanthropy Advisor and Founder, Philanthropic & Humanitarian Initiatives (PHI)

Marc Pfitzer

Managing Director, FSG

















Mapping the Philanthropic (Swiss) Landscape through big-data

Lucia Gomez Teijeiro & Giuseppe Ugazio

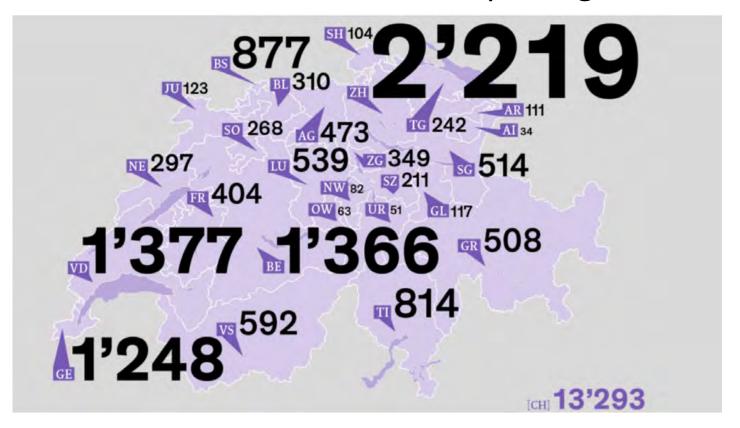
Geneva Finance Research Institute & Geneva Center for Philanthropy
University of Geneva





Philanthropy in Switzerland

In Switzerland the are over 13.000 Philanthropic Organizations (POs)



No existing comprehensive database of these POs

Two Main POs data-bases

StiftungSchweiz



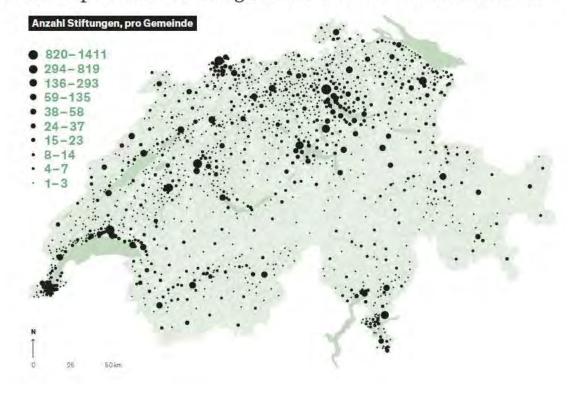
Fundraiso



One Annual Report on the Financial Activities of POs in CH

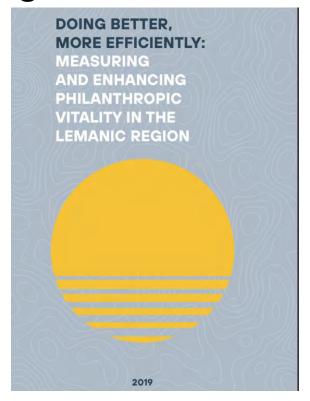
• Swissfoundations Report

Foundation Report 2019: Latest figures on the Swiss foundation sector



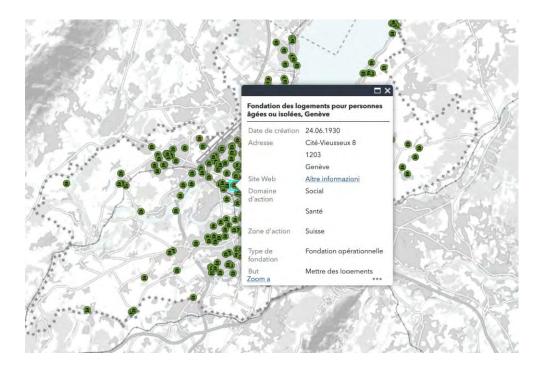
One Report on Lemanic POs

 Doing Better More Efficiently: Measuing and enhancing Philanthropic Vitality in the Lemanic Region



One map of POs in Geneva

 Department for Development and Economics of the Republic of Geneva & StiftungSchweiz



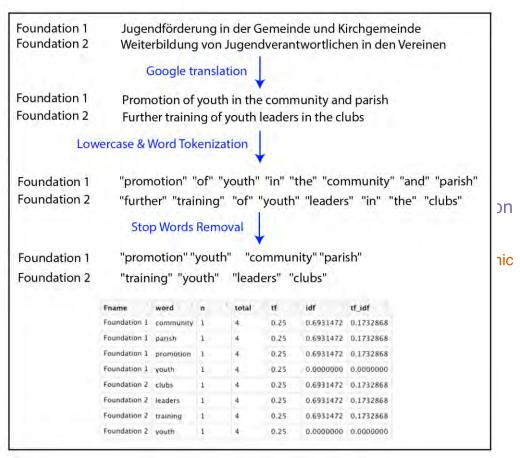
Mapping Swiss Philanthropic Organizations

- In what and in how many areas do Swiss POs operate?
- According to which Type do these work (Donors vs. Operating)?
- Are different Types of POs using a similar language?
- What motives determine these POs engagement?
- To which extent are the U.N. SDGs addressed by Swiss POs?

Big Data: Texts from Mission Statements

- Mission statements (and other data, e.g. geo-location)
 collected from StiftungSchweiz
- Pre-processed and cleaned the data:
 - Translation to English
 - tokenization, i.e. segmenting sentences in words
 - Removal of stop words (the, a, ...)
 - Calculate importance of each word through TF-IDF

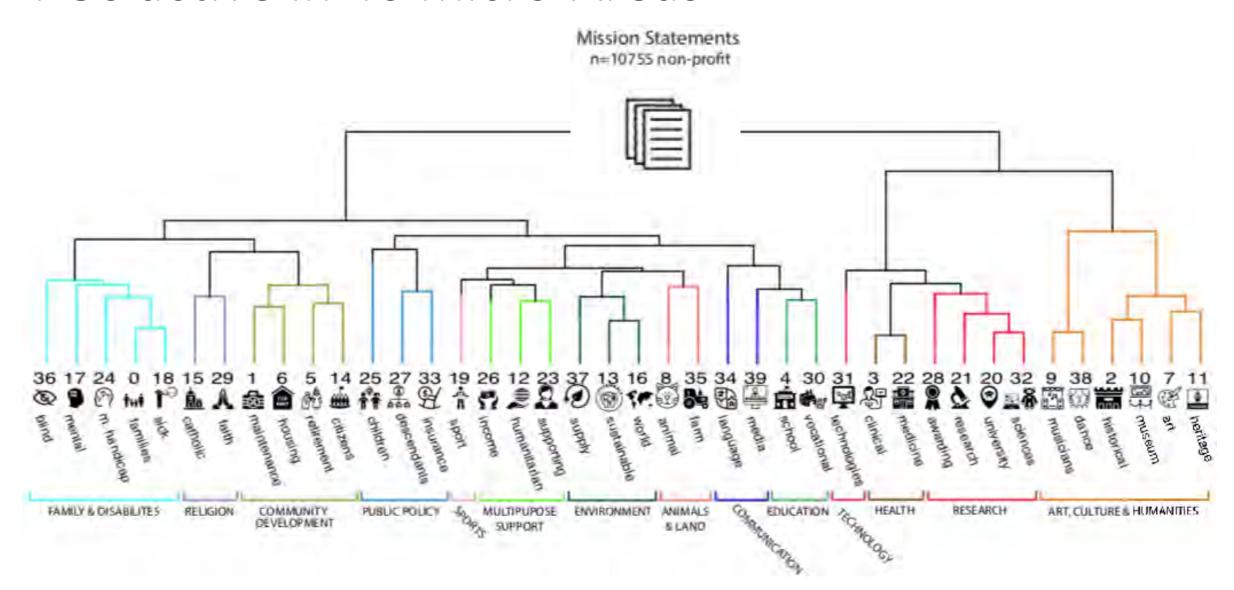
 Identified 8485 unique and meaningful words from 10755 POs



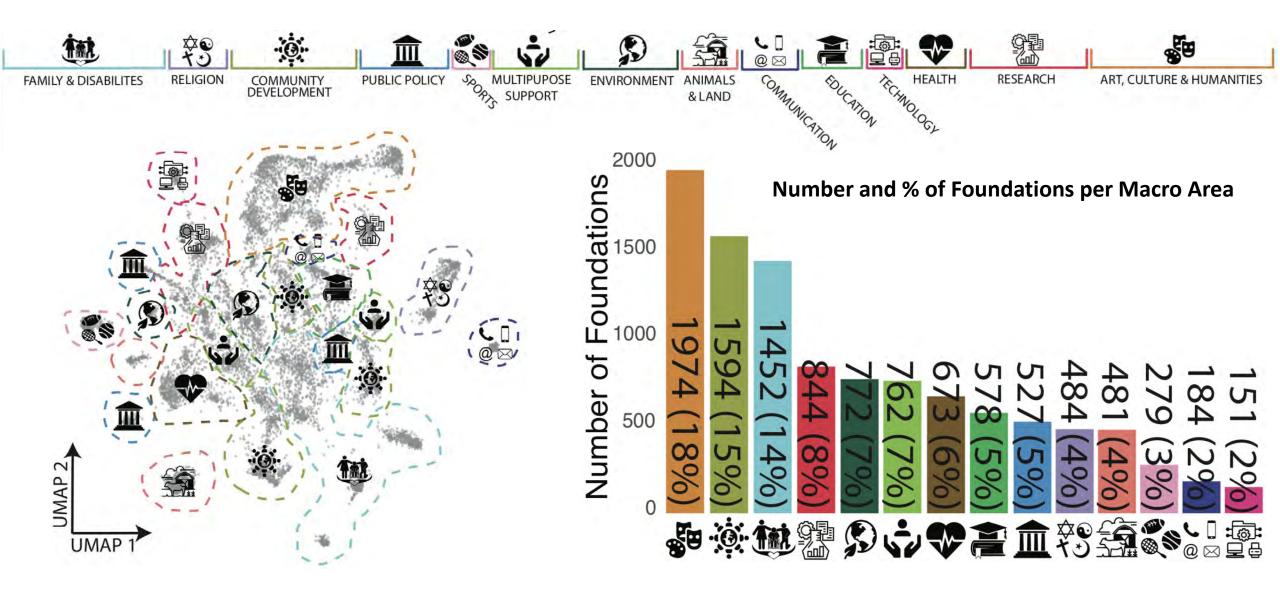
Our Approach in a Nutshell

- Natural Language Processing employing Machine and Deep Learning algorithms to analyze Philanthropic Communications
- Collected Mission Statements from ≈ 11.000 Philanthropic Organizations
- Unsupervised Learning to:
 - Cluster organizations in Areas of Activity;
- Supervised Learning to:
 - Categorize an organization as Donors or Operating
 - Determine overlap in communication used by Donors and Operating
 - Determine Motives driving POs: Moral Values and Emotions
 - Identify engagement of POs with the SDGs

POs active in 40 micro-Areas

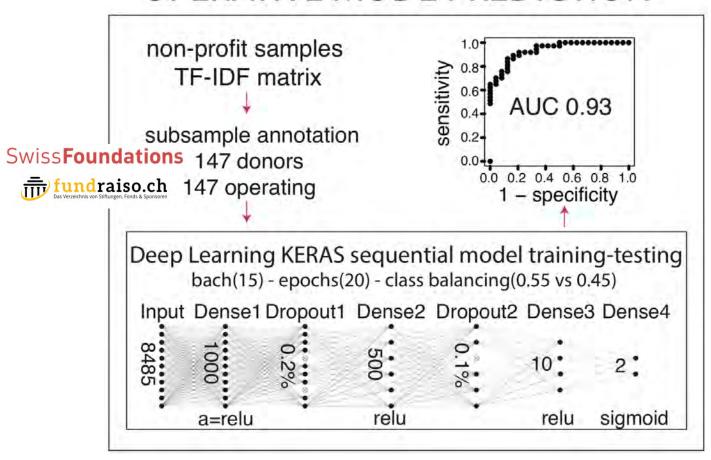


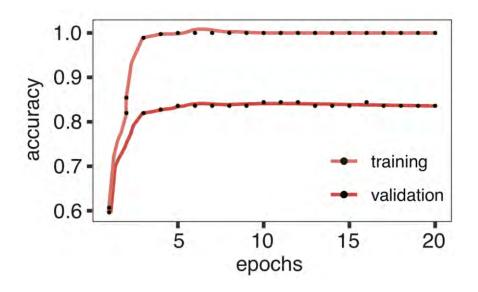
POs Active in 14 macro-Areas

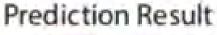


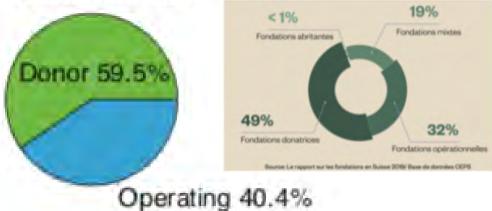
Classifying Type of POs

OPERATIVE MODE PREDICTION

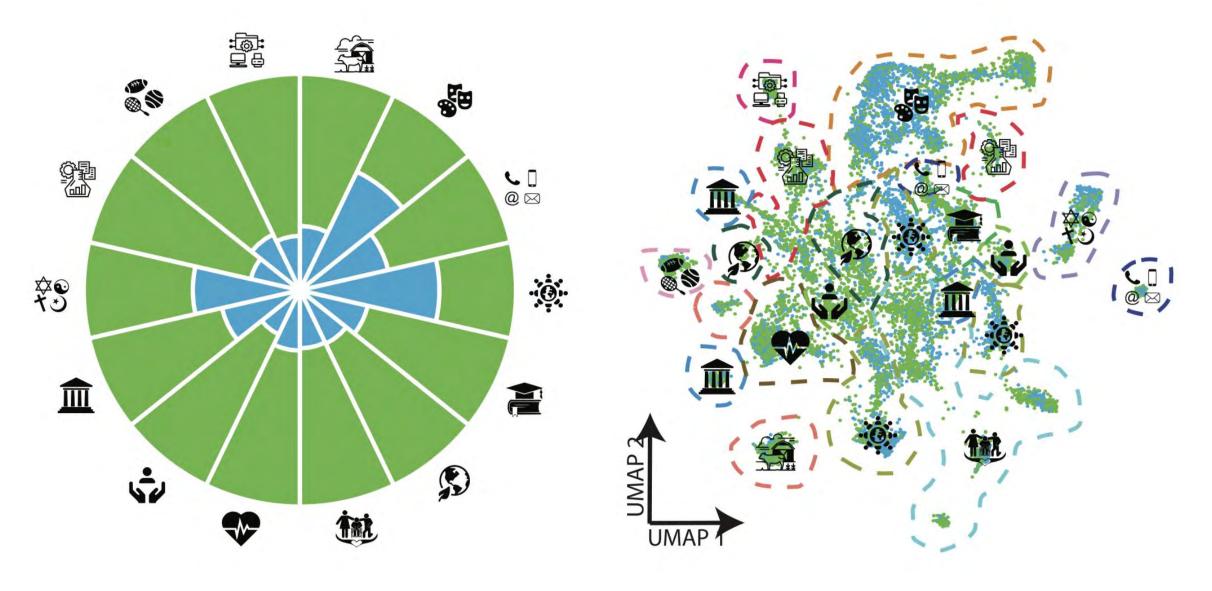




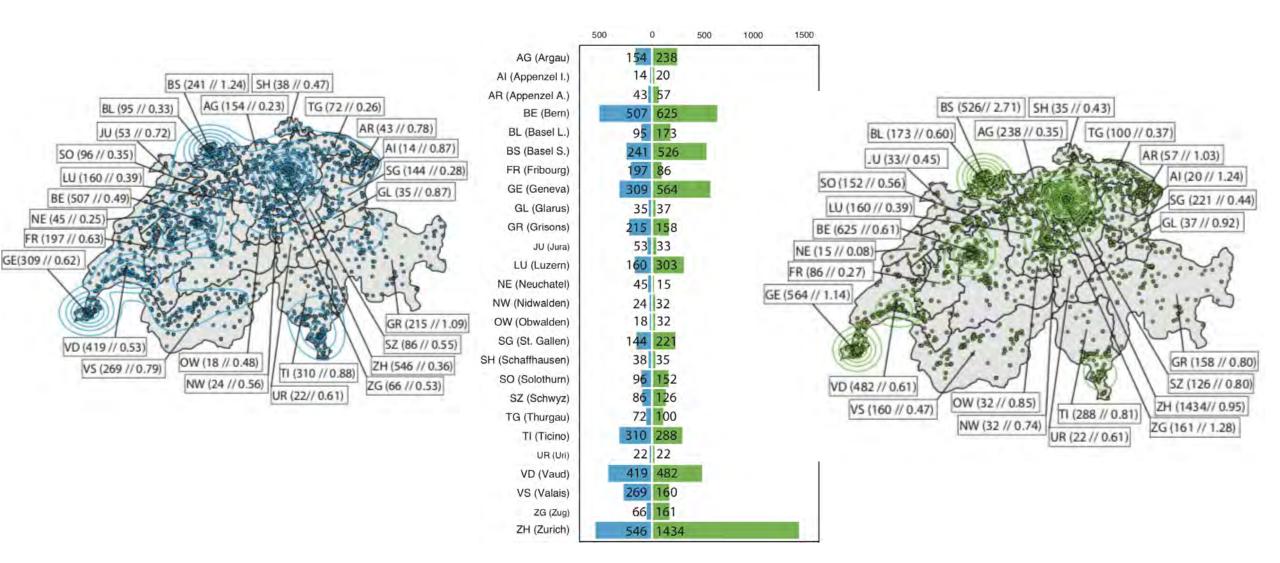




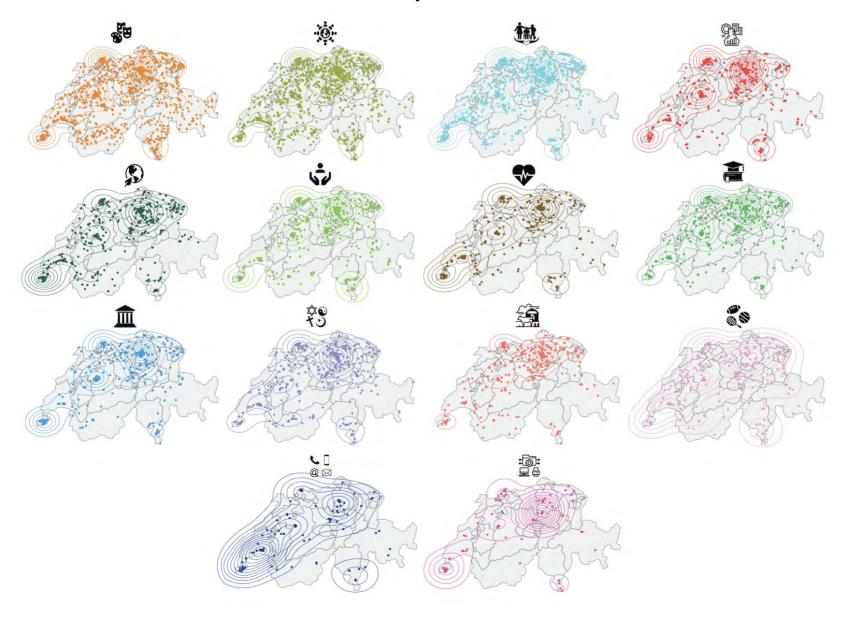
Type of POs Across Areas of Activity



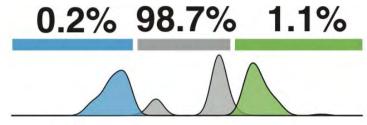
Overall Donor and Operating POs are well distributed across Switzerland



Some Activities more present in some regions



Overall, large overlap in language used by different POs



Differential

Overlapping

100 Most Specific Words Donors

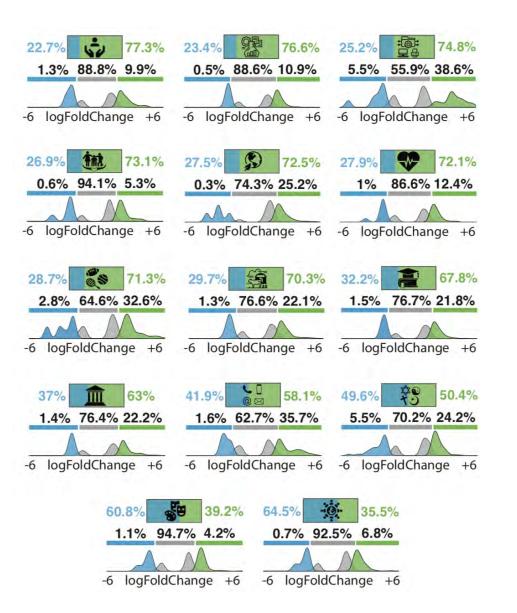
100 Most Specific Words Operational 100 Most Generic Words Across Types

```
networking
                                                                                 requests developing poverty
                                                       deprived situations supports combating
                                                                  technology responsibility grants
ecology programs granting so science heart so to exceptional to decides biodivity outstanding projects roof scholarships sustainable prison benefits improving gifted
                                             benefits improving gifted realize result to families to holistic individuals t
                                                         disadvantaged supported tolerance scientists entrepreneurship donations sponsorship
                   targeted fault vulnerable worldwideemerging
                                   cardiology contributionsabroad freedom
                                            ophthalmology institutions
                                                                                         philanthropic nutrition
                                                                                                                           potential committed
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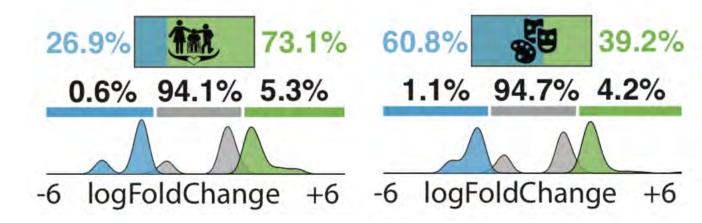
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operation
                                                                                              permanent enhancement
                                                                      construction maintain retirement
                                     photographic property monument inventory
                                          library plot friborg maintenance worship
rents apartments pierre restore heritage owned opiects objects and preserve buildings ownhip objects of the preservation owner owner preservation owner owne
                                              managemeeting administration jean perpetuate
                                                         renovation safeguard historical
                                                                      astronomical creation valley
                                                                                                       conservation
                                                                                                        collection premises
                                                                                                             museum collections
                                                                                                                        restoration
                                                                                                                        documents
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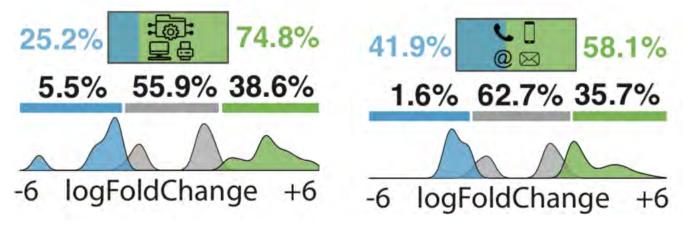
Language Overlap Differs by Area of Activity



High Shared Language

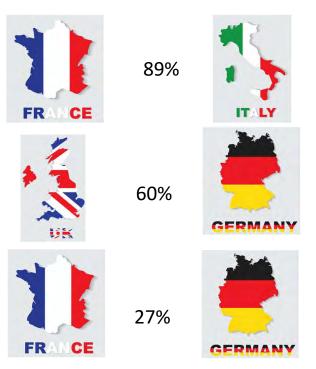


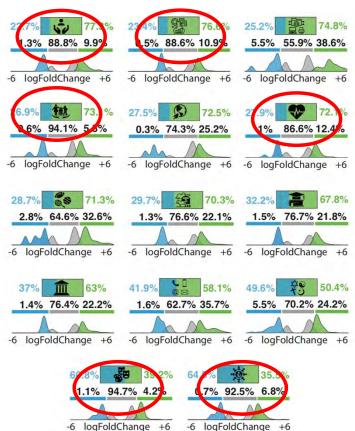
Low Shared Language



"Related Dialect" Spoken in 6/14 areas of activity

 Related Dialects = 85% or more words shared across two languages (Eberhard, D. et al, 2020, Ethnologue: Languages of the World.)





(Extended) Moral Foundations Dictionary

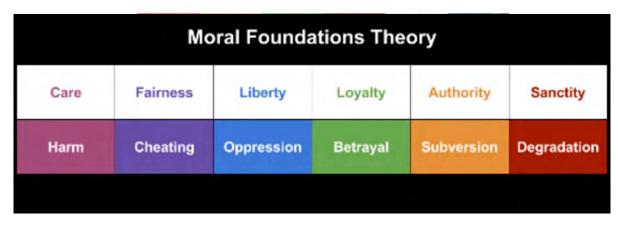
(moralfoundations.org)

- Moral Foundations Theory (Haidt The Righteous Mind)
- Morality Characterized By Six Main Virtues & Vice:

Moral Foundations Theory					
Care	Fairness	Liberty	Loyalty	Authority	Sanctity
Harm	Cheating	Oppression	Betrayal	Subversion	Degradation

 Extended Moral Foundations Dictionary: moral words associated with each of these virtues/vices (but Liberty/Oppression)

Analyzing Moral Motives in POs



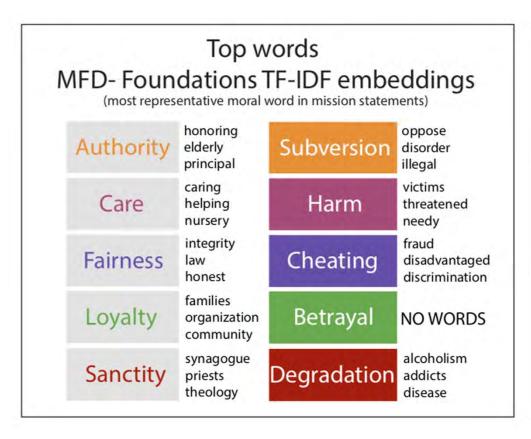
Extended Moral Foundations Dictionary

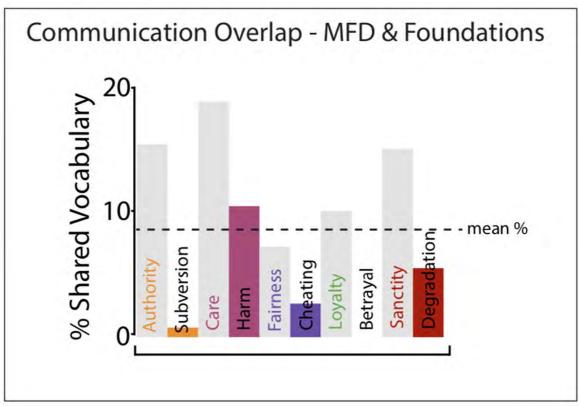
POs Words from Mission Statements



Presence of Moral Words in POs Language

POs Motivated Mainly by Promoting Virtues

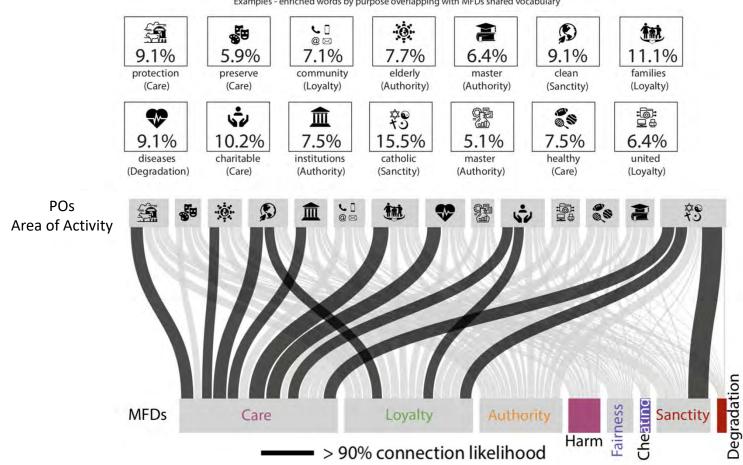




Specific Virtues/Vice Motivate different POs Activities, Care common to most

Joint-MFD Shared Vocabulary by Philanthropic Purpose

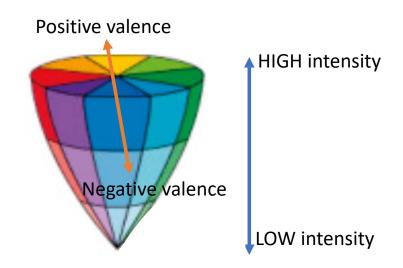
Examples - enriched words by purpose overlapping with MFDs shared vocabulary



Emotions as a combination of Arousal and Valence

Joint with Prof. Cova (CISA)

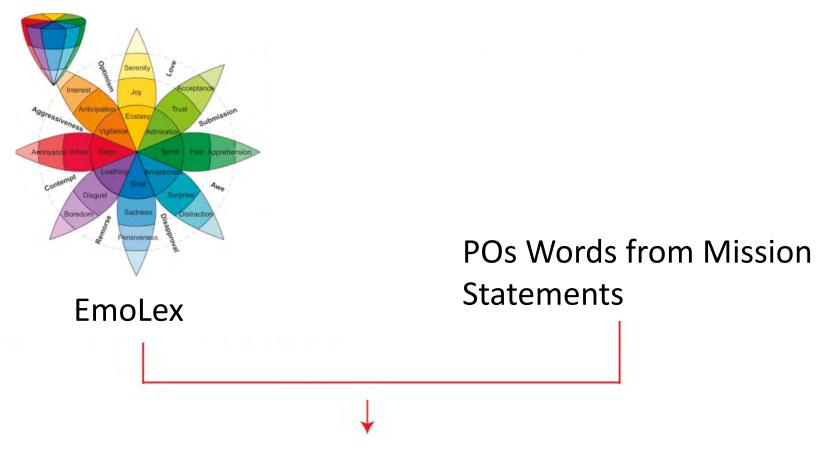
Set of eight basic emotions proposed in Plutchik (1980).



Serenity Interest Joy Aggressiveness Submission Anticipation Trust Ecstasy Vigilance. Admiration Annoyance Anger Fear Apprehension Loathing Amazeme Awe Surprise Disgust Sadness Boredom Distraction Pensiveness

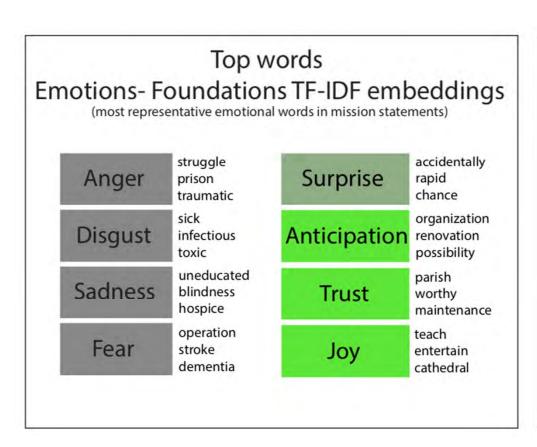
Word-Emotion Association Lexycon (Emolex): dictionary of words associated with each of these emotions (Saif & Turney, 2010, 2013)

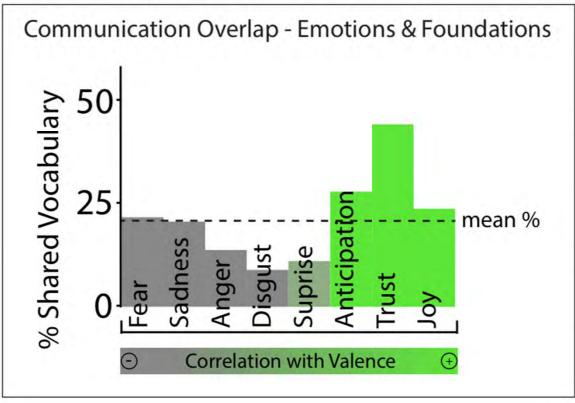
Analyzing Emotional Motives in POs



Presence of Emotional Words in POs Language

POs Motivated by a wide spectrum of Emotions

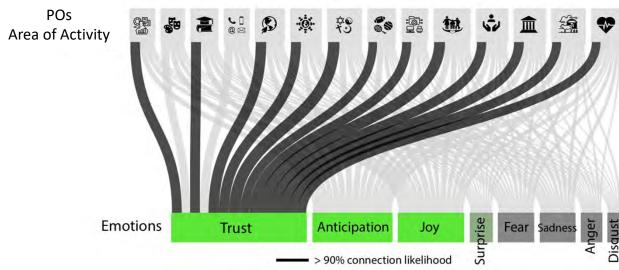




Specific Emotions drive different POs Activities, Trust common to most

Joint-Emotions Shared Vocabulary by Philanthropic Purpose

Examples - enriched words by purpose overlapping with Emotions shared vocabulary 0 00 Tin. @ 🖾 18.2% 14.6% 15.8% 18.1% 17% 18% 20.6% public disabled provide music retirement school organization (trust) (joy, sadness) (anticipation) (anticip, fear, joy, (trust) (anticip, joy, (fear, sadness) sadness, trust) surprise, trust) ١ \$\$ 6°7 (A) ₩ 皿 18.7% 15.9% 18.3% 18.4% 19.4% 16.7% 15.9% humanitarian accident parish scientific youth professional (trust) (anger, disgust, (anticipation, (fear, sadness, (trust) (anger, anticip, fear, (trust) fear, sadness) joy, surprise) surprise) joy, surprise)



Analyzing POs Engagement with SDGs

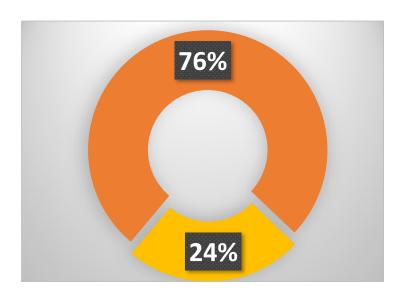


TF-IDF NLP embeddings SDGs descriptions

SDG-Normalized POs Words from Mission Statements

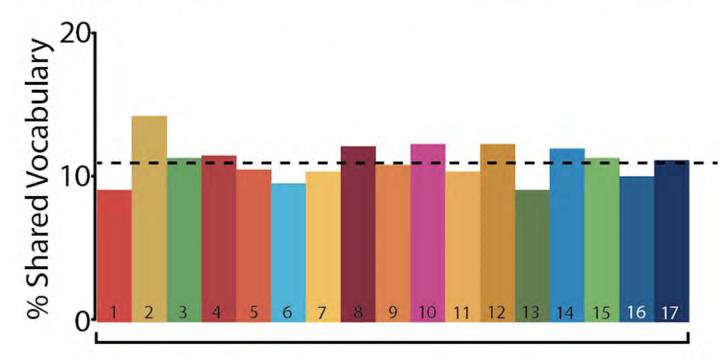
Overlap in POs and SDGs Language varies across SDG

Presence SDGs words



76% of SDGs words appear in POs mission statements

Communication Overlap - SDG & Foundations

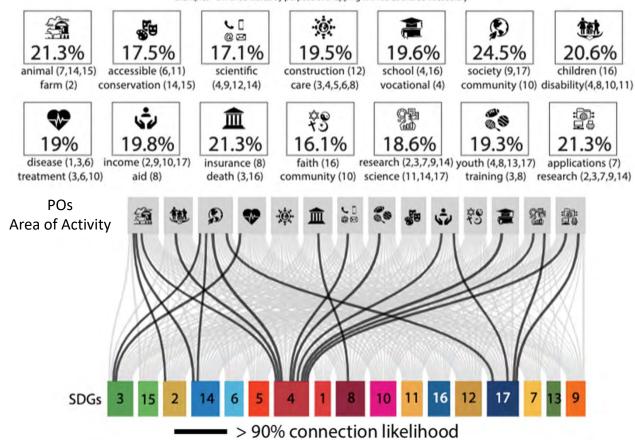


mean % SDG words in Foundations mission statements

Engagement in SDGs by POs Area of Activity

Joint-SDG Shared Vocabulary by Philanthropic Purpose

Examples - enriched words by purpose overlapping with SDGs shared vocabulary



Conclusion

- We are building a comprehensive data-base of POs in Switzerland
- We are developing an AI based Tool to Map POs:
 - Areas of Activity
 - Type of Activity
 - Geographical Distribution
 - Motivations, emotions & moral values
 - Alignment with SDGs
- Key Advantages:
 - Can be used to find patterns too hard for humans to detect
 - Open Access, can benefit from inputs from anyone
 - Can be easily used to map and compare other regions

Next Steps

- Refine our method
- Explore use of MFD/EmoLex/SDGs language by Type of POs
- Include information on Number of Projects and Funds invested/used in each Area of Activity by the two Types of POs
- Look at temporal dynamics of POs language
- Investigate For Profits, and compare these to POs
- Make our Maps open-access and interactive
- Determining level of Innovation in NGOs (joint with. Prof Amboss and Straub)

Thank You!

Special thanks to master and bachelor students who helped us enormously with the collection of data used in this research

Please get in touch with any comments, suggestions, questions or any feedback: <u>Giuseppe.ugazio@unige.ch</u>

















TEACHING

Academic courses for the coming academic semester:

- La philanthropie et ses principaux enjeux juridiques, Dr. Neri-Castracane, Autumn 2020 (french)
- > L'éthique de la philanthropie, Dr. Tieffenbach, Autumn 2020 (french)
- > NEW- The many faces of Philanthropy A, Prof. Ugazio, Autumn 2020
- > NEW- The many faces of Philanthropy B: Regional Philanthropy, Prof. Ugazio & Dr Monks, Autumn 2020















NEXT EVENTS

> 01.10.2020 Online Philanthropy Lunch Philanthropic funding for individuals: historical and contemporary challenges

Panel with Prof. Tournès, Dr. Smith, Prof. Carton, Dr Tarradellas, moderated by Prof. Peter

- 29.10.2020 Philanthropy Lunch Diversity in the foundations boards Presentation of the results of a survey involving more than foundations Panel with Dre Kratz-Ulmer, Catherine Labouchère + TBC, moderated by Laetitia Gill
- > 25-27.11.2020 Conference on Taxation and Philanthropy, Geneva Presentation of an important research conducted by OECD and GCP involving 35 countries
- ➤ **02.02.2021** Philanthropy Lunch **How can philanthropy support companies to advance human rights?** Panel with Prof. Baumann-Pauly, Ambassador Zimeray, Dr Neri-Castracane, moderated by Prof. Peter
- ➤ **25.03.2021** Philanthropy Lunch **Philanthropy and emotions** Panel with prof. Cova + TBC, moderated by Prof. Sander













































