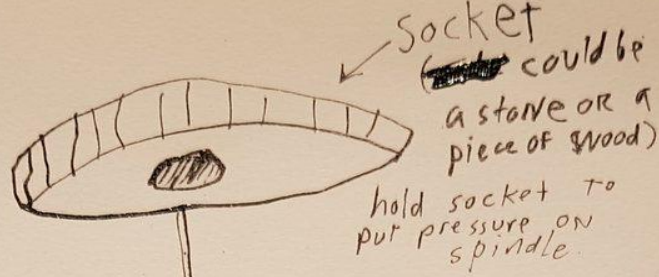


Starting a Fire

without matches



applied humanities in a data enabled society

eveline wandl-vogt
keynote ddh2020



@caissarl #k4h+ #explorations4u
data and digital humanities 2020 | 10 | 15 <vienna | online>





data enabled society

joint paper with members from allea
and the royal british society:

catlow, richard, maria ganzha, wendy hall, christoph markschies, deborah oughton,
genevra richardson, alain strowel, david rios, joos vandewalle, and eveline wandl-vogt.
2019.

flourishing in a data-enabled society. allea - all european academies.
allea discussion paper #4. berlin.



exploration space
(at) austrian academy of sciences

2017.11-
movement / space / working group for innovation and experimentation
with the aim to **transform the humanities**



ars electronica research institute
knowledge for humanity (k4h+)

2019.09-
antidisciplinary research institute
with the aim to accelerate knowledge into action, rethink genres
and contribute to **invent a more inclusive, sustainable future**

open innovation

... is a distributed process ...
... based on purposively managed knowledge flows
across organizational boundaries...
using pecuniary and non-pecuniary mechanisms

[bogers and chesbrough 2014]

both are best practice examples for open innovation of the austrian government

inclusive future living

concepts

- emerging technologies
- social innovation
- knowledge society
agenda knowledge4development
- emotions

- smart city
c.f. smart city vienna

- social city
c.f. social city vienna

- knowledge city
c.f. knowledge city vienna

- happy city
c.f. <https://thehappycity.com/>

humanity centered design (HYCD)

federico donelli

- participatory methods
open innovation
- SDGs
social innovation
- digital humanism
extended intelligence

• human
good to people

• human
totality of human beings, society

• human
counterpart in the human-machine dualism

a data enabled society
benefits and tensions

opportunities:

healthcare

public policy and services

data for social good and SDGs

european values at tension:

privacy

autonomy

rationality

equality

dignity and flourishing

unequal skills and opportunities, biases etc.
city of vienna: digital humanism, manifesto

a data enabled society considerations

opportunities:

healthcare

public policy and services

data for social good and SDGs

european values at tension:

privacy

autonomy

rationality

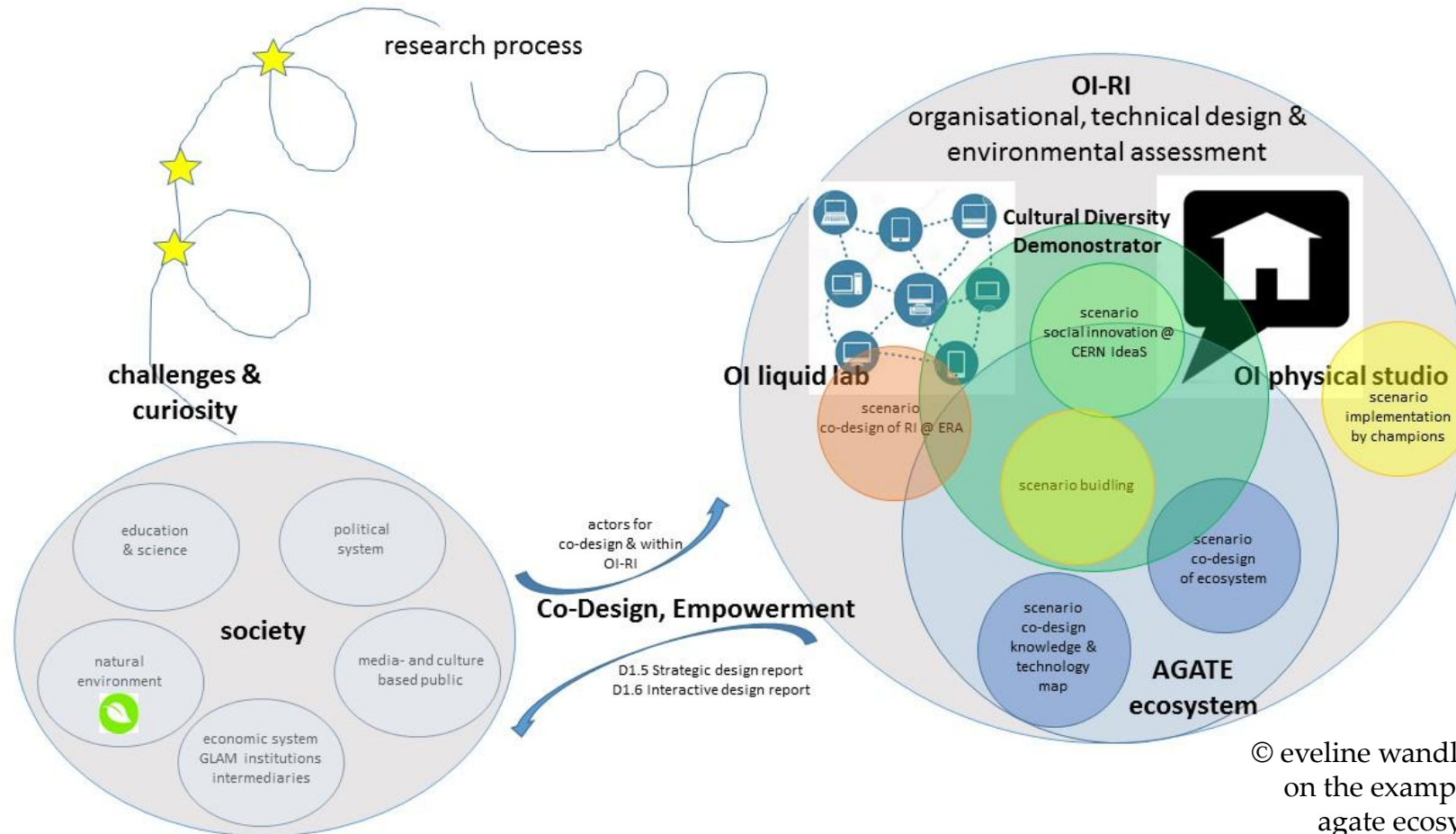
equality

dignity and flourishing

societal values at the heart of data use
establishing governance and regulation
understanding opportunities (for europe)

open innovation RI

hybrid, liquid, methodological



© eveline wandl-vogt 2017
on the example of the
agate ecosystem

PROVIDEDH

progressive visual decision making under uncertainties

aim:

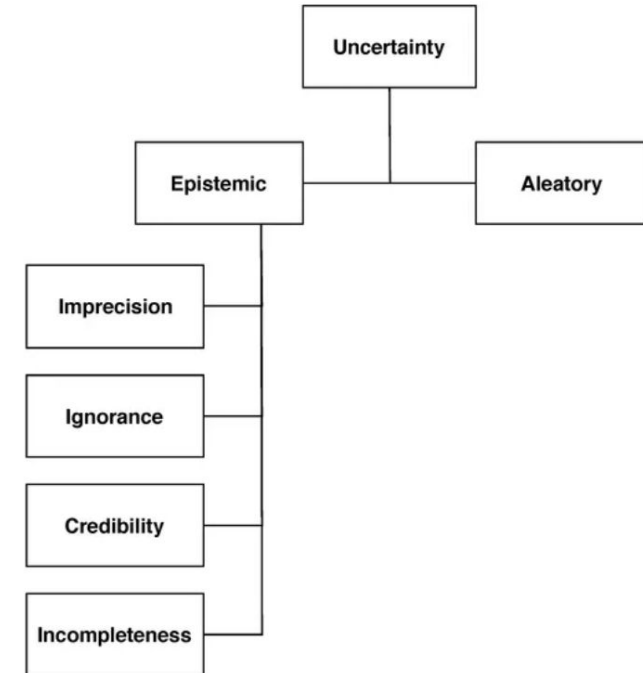
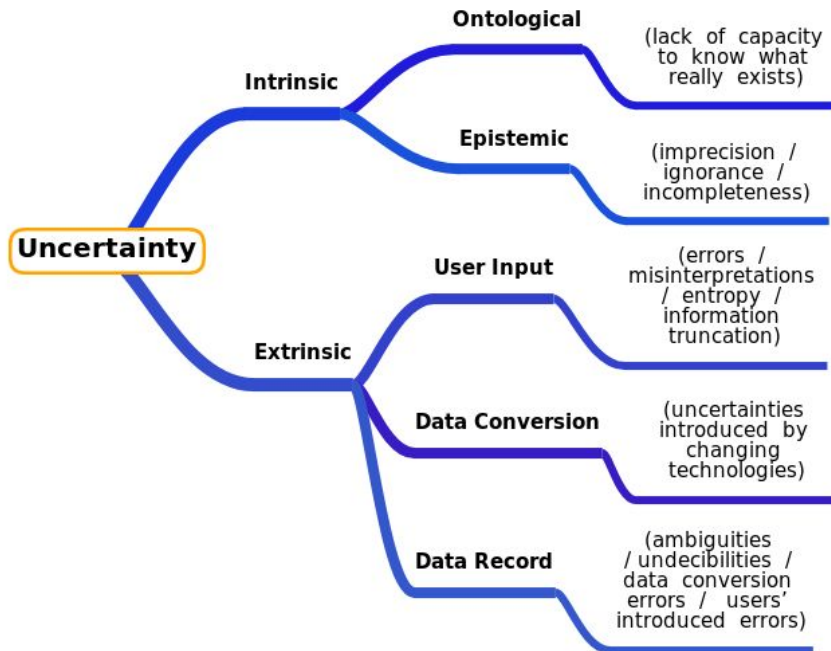
develop a space to explore and assess

- 1) the completeness and evolution of digital research objects
- 2) the degree of uncertainty that the models applied to the data incorporate
- 3) and to share their perspectives and insights with the project's broad range of stakeholders.

data sources: TEI

PROVIDEDH

taxonomies of uncertainty: sophisticated versus simplified



c.f. uncertainty dimensions on the example of a legacy language data set [GiForum](#) 2020

PROVIDEDH

an open science platform

PROVIDEDH Home Gastrosopher One [Log Out](#)

(Back to file) group_1_short_annotated_3_xml version: 2 [Save current file](#)

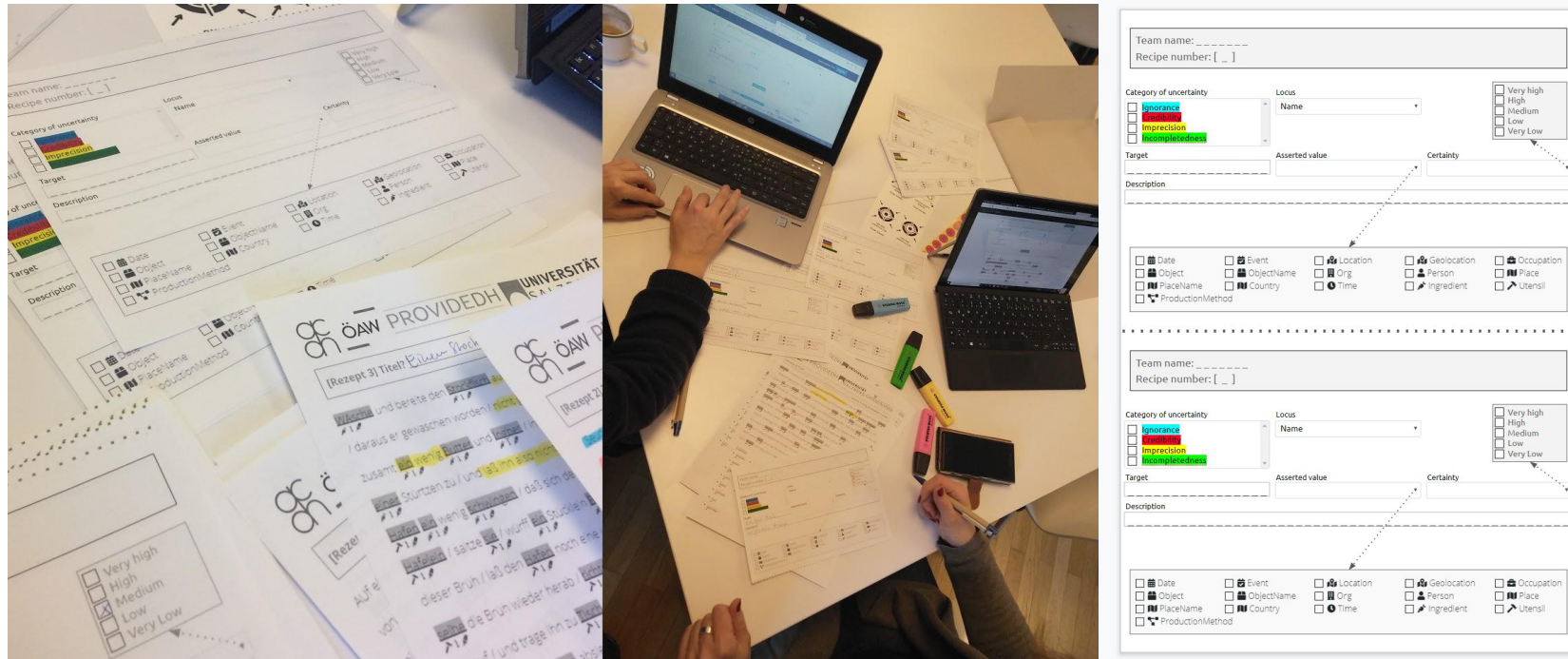
[Show controls](#) [Toggle legend](#) ▾

Nim den Rogen / vnnd klaub Kern nach dem andern / thu jhnein Hafenkessel / der vberzindt ist / vnnd
 schneidt klein Zwiheln darein / schlag jn ein stundt drey oder vier mit hältzern Löffel / daß er wol
 voneinander gestossen wirt / mach jn ab mit Saltz vnd gestossenden Pfeffer / auch mit gutem sauren
Essig / rür das darvnter / vnd laß also stehen / so wirt es fein blaw vnd gut / als wenss gesotten wer / nim
 es herauß mit einem Faumlöffel / vnd geuß widerumb ein frischen Essig darüber / so jssset man jn roh / ist
ein gut Essen / sonderlich für einen Vngerischen Herren .

*screenshot of one annotated recipe on the PROVIDEDH prototype interface
 platform team PSNC / cezary [mazurek](#)
 data and annotation team exploration space / eveline [wandl-vogt](#)*

PROVIDEDH

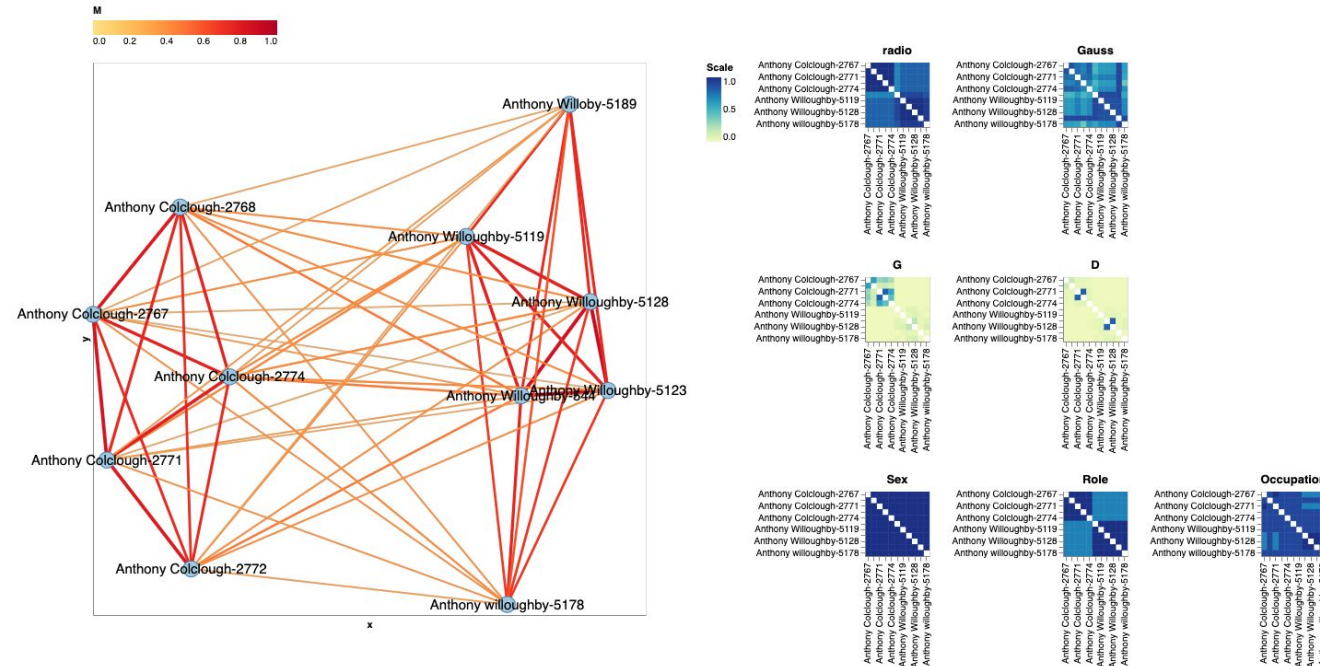
hybrid / digital and analogue, paper-based / approach



*overview of the co-creation approach with paper-based materials and digital tools during workshop interactions
 team exploration space / eveline wandl-vogt*

PROVIDEDH

progressive visual decision making under uncertainties



visual approaches to analyse uncertainties and networks
team university salamanca / roberto [theron](#)

PROVIDEDH

applied humanities?

recipies – how can this feed into the SDGs?

health ? sustainable consumption and production?

participation into thePort-humanitarian hackathon at CERN [ideasquare](#)



ABOUT US

"We combine creative minds from CERN and non-profit organisations in interdisciplinary teams to work on humanitarian technology related benefits to society."

Unite Innovators

Interdisciplinary teams of handpicked individuals chosen for their field-leading expertise and innovative minds combine humanitarian questions with state-of-the-art science, cutting-edge technology and endless fantasy.

Impact Future

The fusion of today's real life problems analysis and a vision of scientific evolution of the next decades forces us to develop concepts and solutions for the future – hungry to use our expertise in challenges in new fields.

Act Today

Why not? There are no excuses – there is no better place than here – no better time than now – nobody more creative than you. If you just want to!

Find out more in our [THE Port Presentation](#) and see the results of last year in our [Annual Report](#)

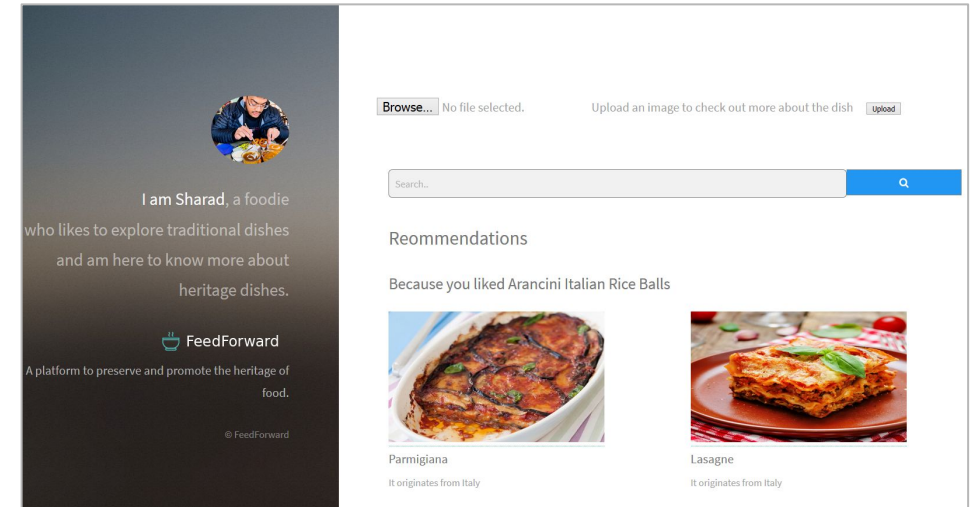
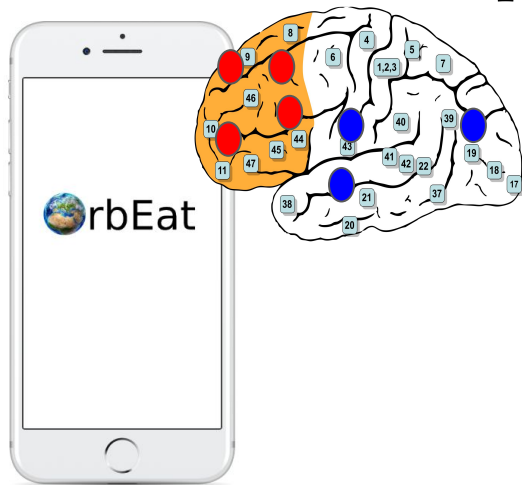
NEWS & MEDIA



PROVIDEDH

humanitarian citizen innovation

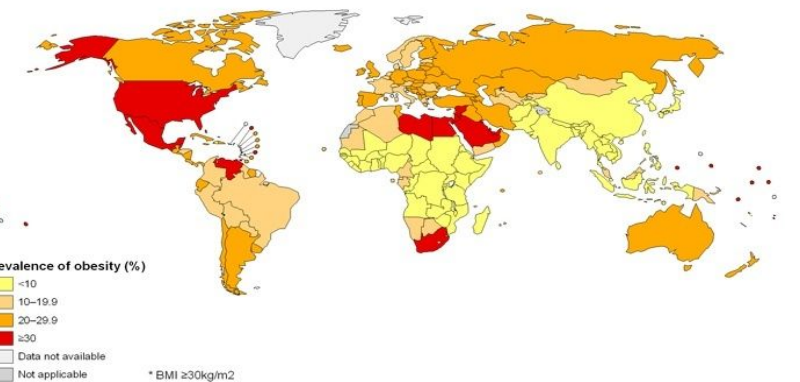
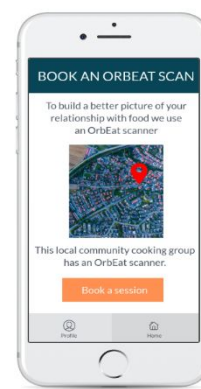
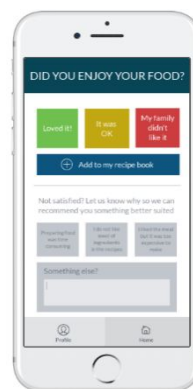
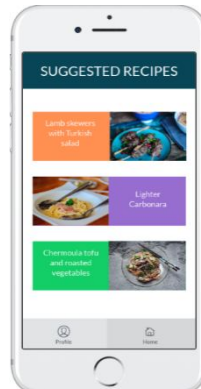
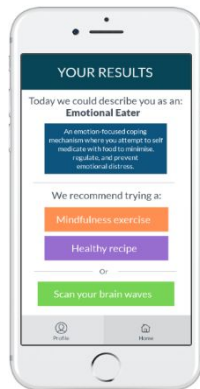
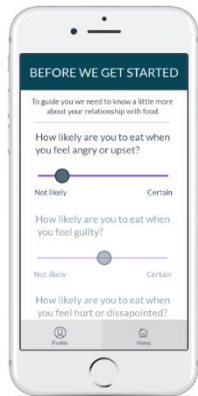
- first challenge from the humanities @ THEPort 2018+2019
- towards a portal for food culture - capturing food as a product, service and emotion
- prototypical development of OrbEAT app (2018) and feedforward platform (2019)





PROVIDEDH
 orbeat to beat obesity : an applied humanities project

connection between
 humanity centered approach
 food as framework of individual behaviour and societal norms
 EEG scientific measurements and cultural knowledge



PROVIDEDH

feedforward to preserve and promote food heritage : a data driven DH project

The FeedForward system





cultural customization
collaboration with philips

challenge:

innovation driven business challenge + humanities

knowledge + emerging technologies > customized product

- framework for analysing a product culturally
 - ontology/taxonomy for cultural analysis
- concept for a cultural product design workshop

exploreAT!

a knowledge graph for the SDGs

- SDG + knowledge management + knowledge graphs + participatory methods
- partnering with [UN one planet network](#) / platform for SDG12: sustainable consumption and production
- aim:
proof of concept for value case study knowledge graph for SDG17
white paper

exploreAT!

a knowledge graph for the SDGs: personas

Includes personas for:

Personas	User group	Region	Gender
Assistant to the UN Resident Coordinator	UN	Asia-Pacific	Female
Project officer at Conservation International	International NGO	Europe	Male
CSR employee at a large textile factory	Large Business	Latin America	Male
National Focal Point Côte d'Ivoire	Government	Africa	Male
CEO of SME	Small Business	Africa	Male
Statistician from National Statistical Office UK	Government	Europe	Female
General public	General public	Asia-Pacific	Female
Senior campaign manager at an NGO	Smaller NGO	North America	Female
CEO of hotel chain	Medium/Large Business	Asia-Pacific	Male
National Focal Point of Ukraine	Government	Central Europe	Female
Researcher at University	Scientific institution	Latin America	Female
Senior civil engineer in buildings/construction sector	Government	MENA	Male

CC-BY 4.0 personas by OPN

exploreAT!

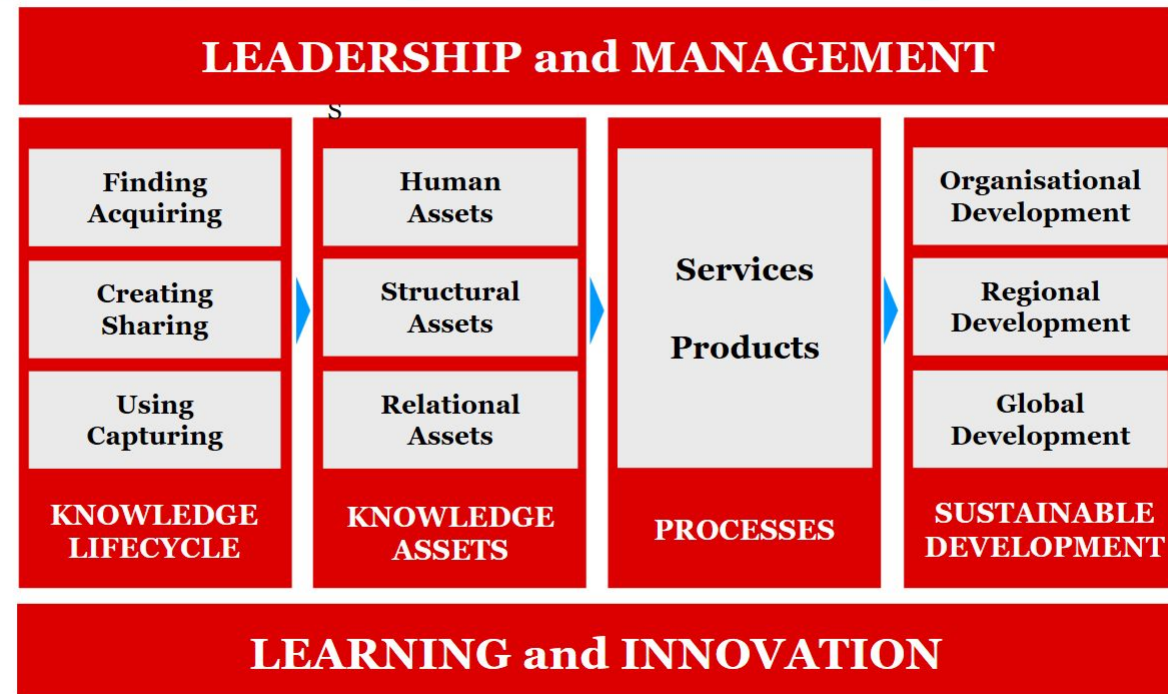
a knowledge graph for the SDGs: personas and KM model

Includes personas for:

Personas	User group	Region	Gender
Assistant to the UN Resident Coordinator	UN	Asia-Pacific	Female
Project officer at Conservation International	International NGO	Europe	Male
CSR employee at a large textile factory	Large Business		
National Focal Point Côte d'Ivoire	Government		
CEO of SME	Small Business		
Statistician from National Statistical Office UK	Government		
General public	General public		
Senior campaign manager at an NGO	Smaller NGO		
CEO of hotel chain	Medium/Large Business		
National Focal Point of Ukraine	Government		
Researcher at University	Scientific institution		
Senior civil engineer in buildings/construction sector	Government		

© model by km-a, andreas brandner

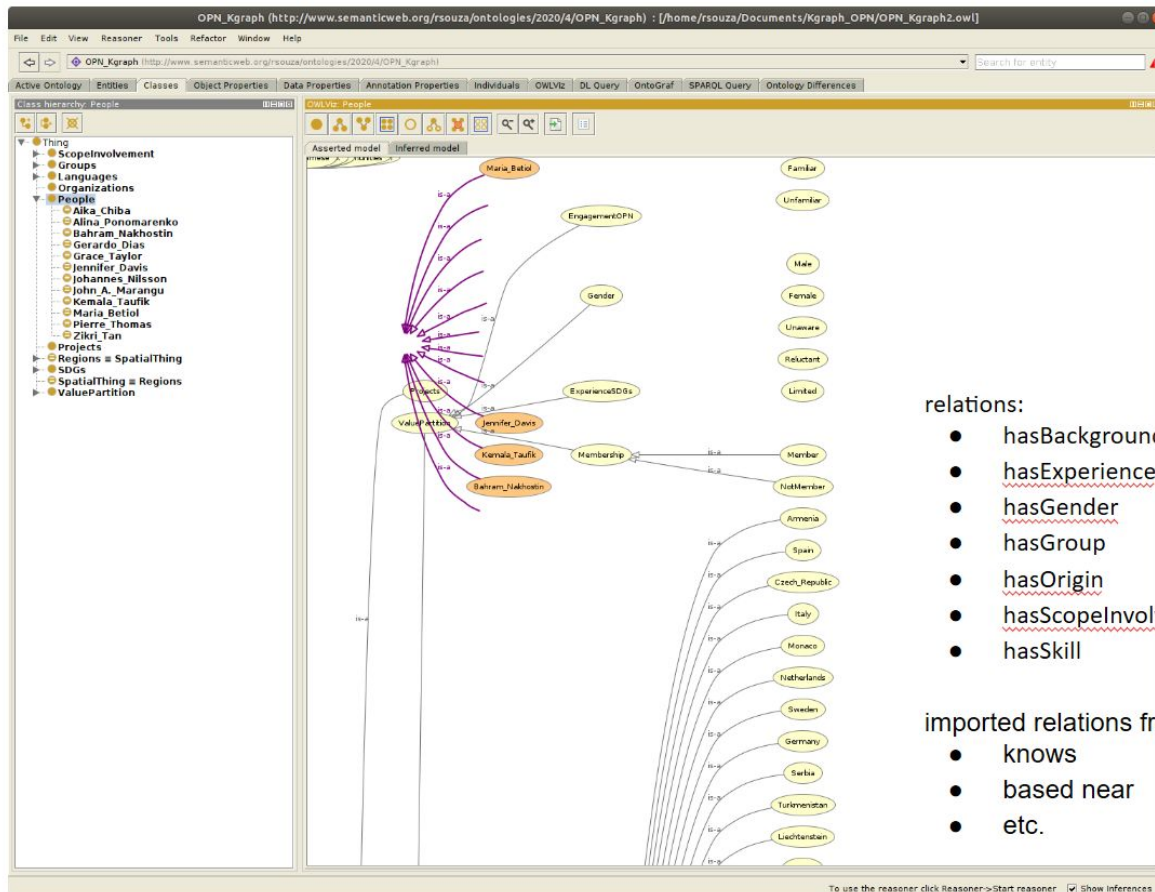
Knowledge Management for Development Model



CC-BY 4.0 personas by OPN

exploreAT!

a knowledge graph for the SDGs: prototype



relations:

- hasBackground
- hasExperience
- hasGender
- hasGroup
- hasOrigin
- hasScopeInvolvement
- hasSkill

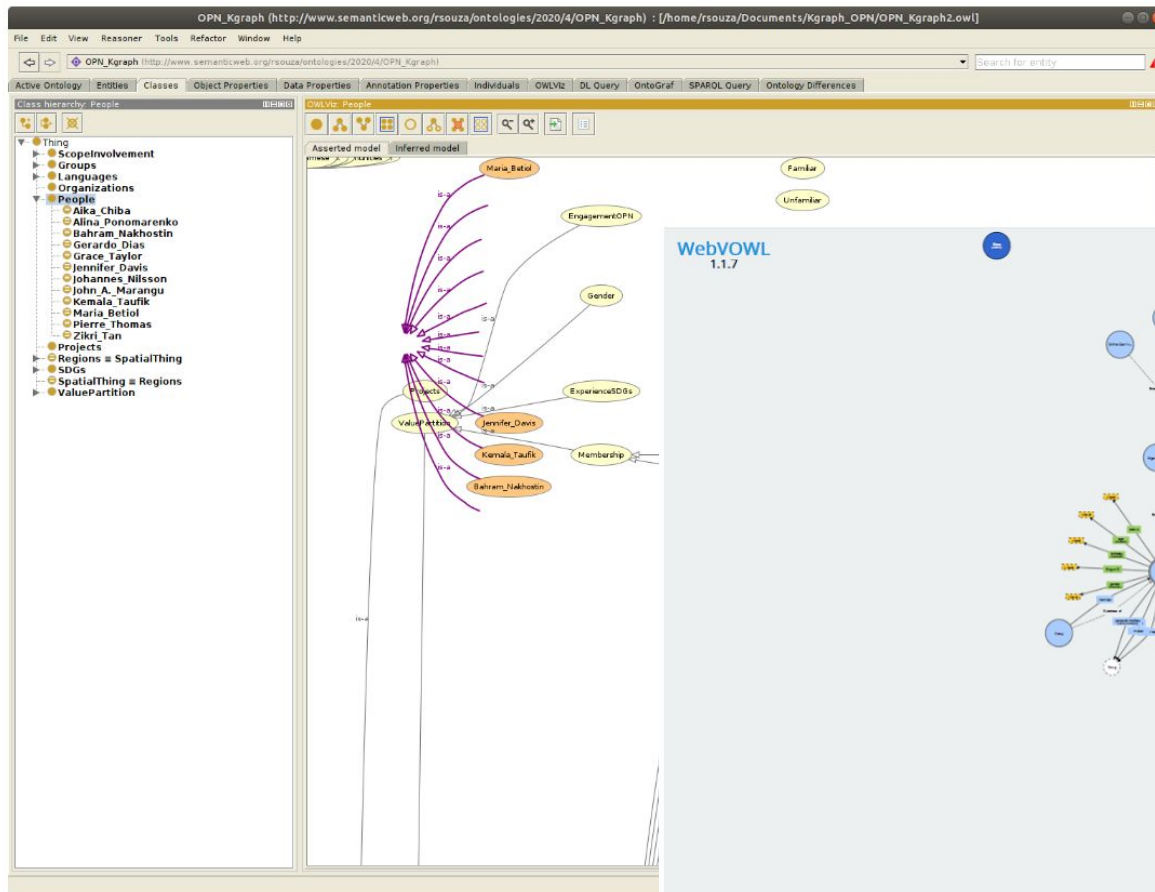
imported relations from FOAF and Geonames, like:

- knows
- based near
- etc.

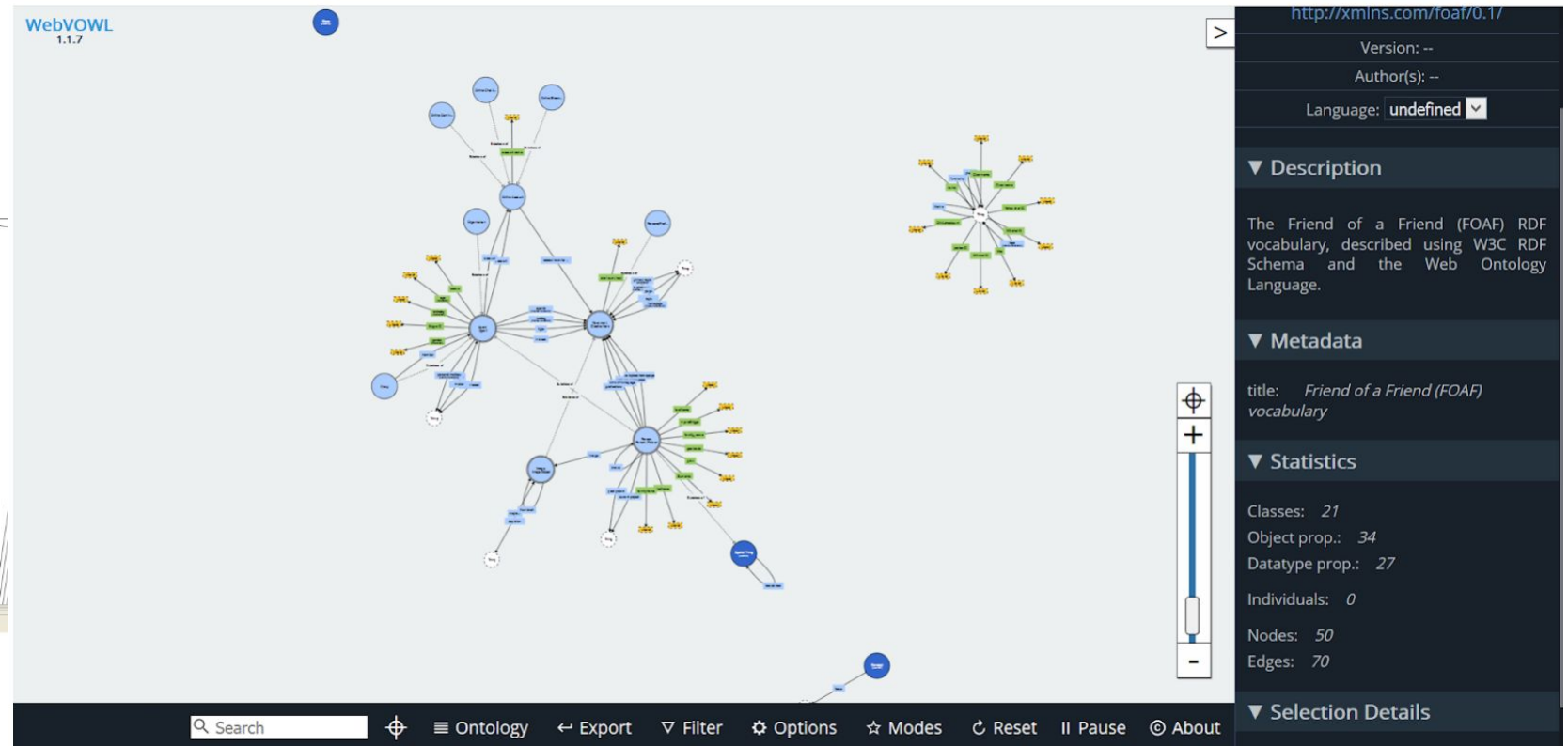
technically realized by renato rocha souza

exploreAT!

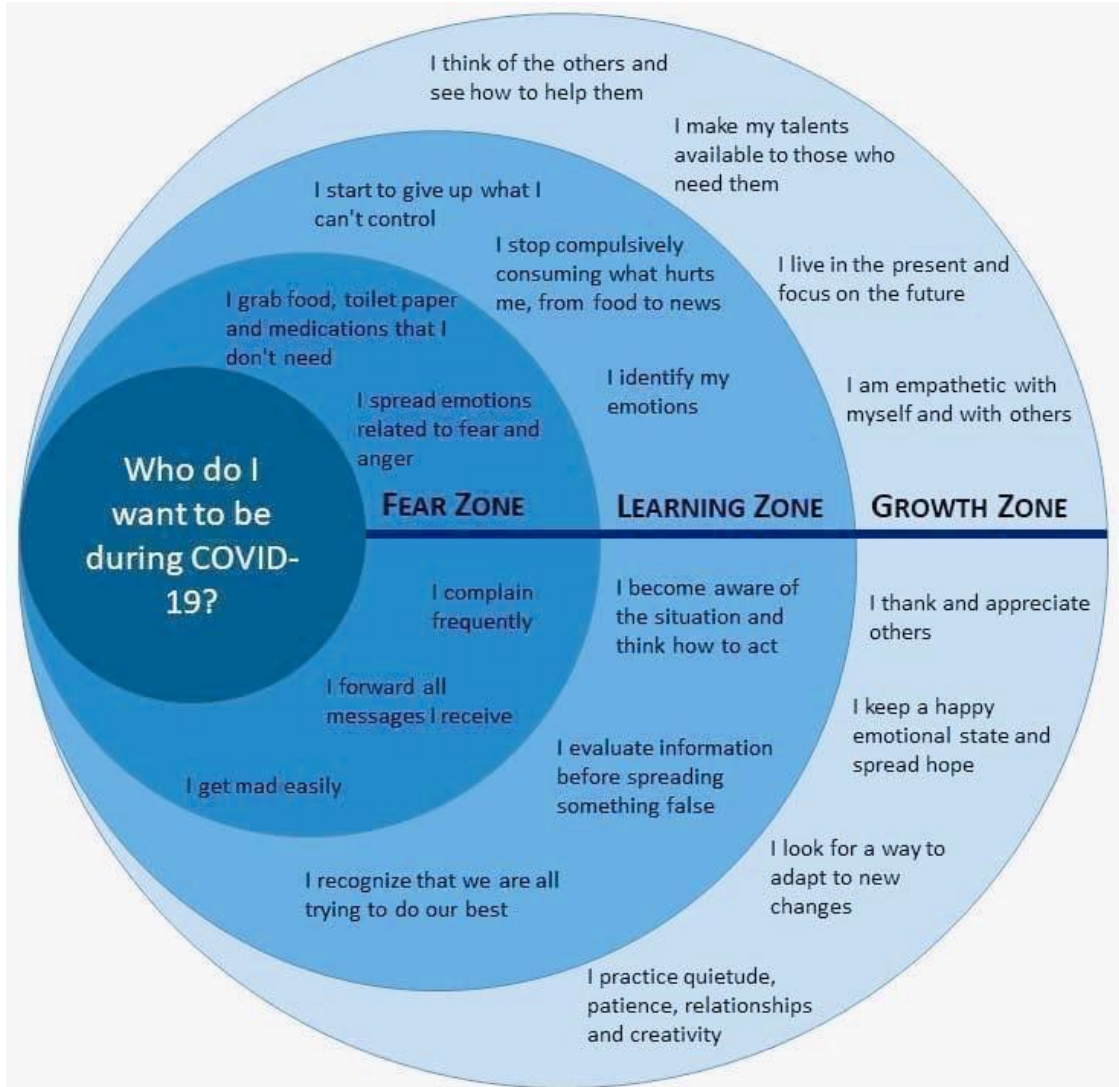
a knowledge graph for the SDGs: prototype



technically realized by renato rocha souza









COVID2019 insights: mapping diversity and community

collaboration project with [elian carsenat](#) and gabriel carsenat (namsor | FR)
and [dario rodrighiero](#) (MIT CWS, metalab at harvard, berkman klein center for internet and society| US)

- duration: since COVID19 lockdown#1 in AT
 - diversity index | origin, „ethnicity“
- applying it to the cord-19 COVID19 dataset (wang et al 2020)
 - clustering: people and terms
> communities

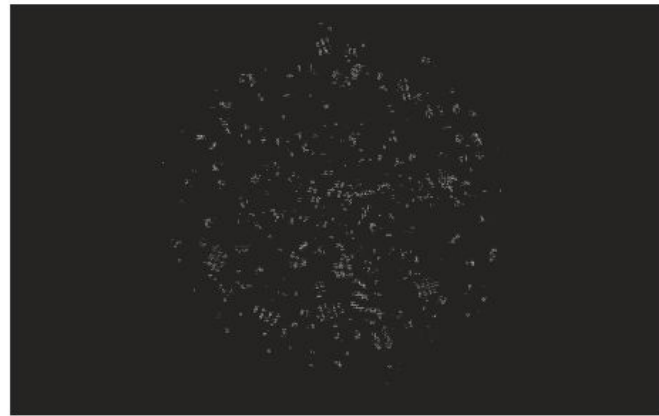
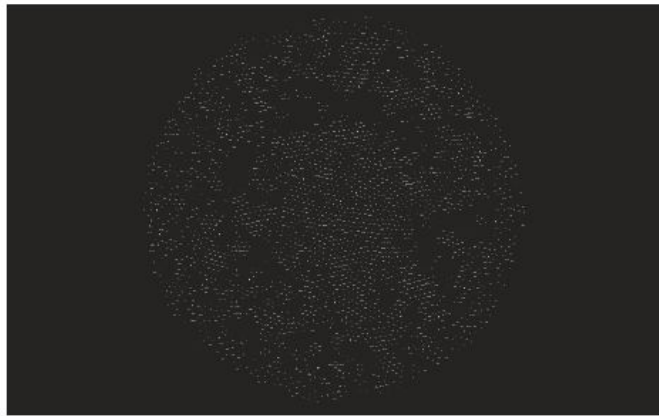
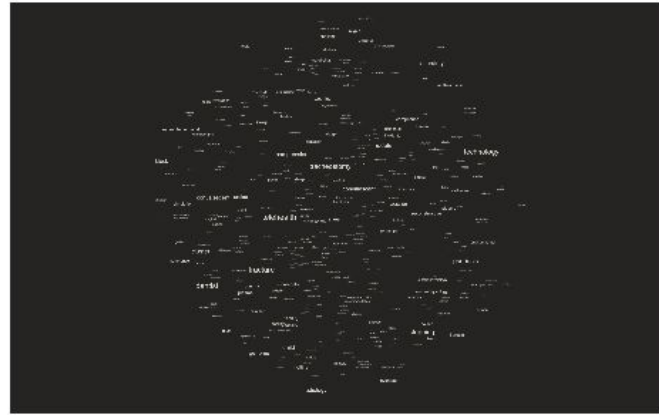
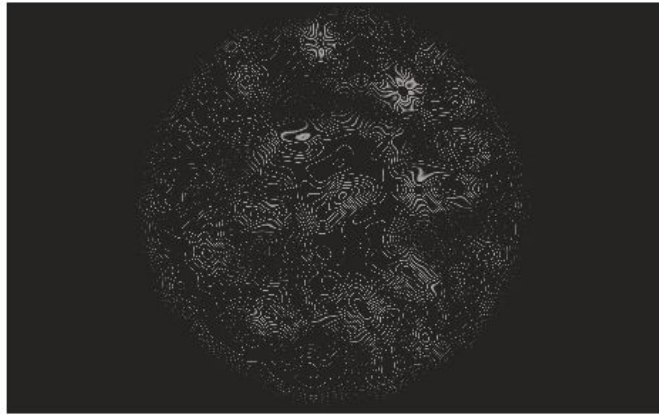
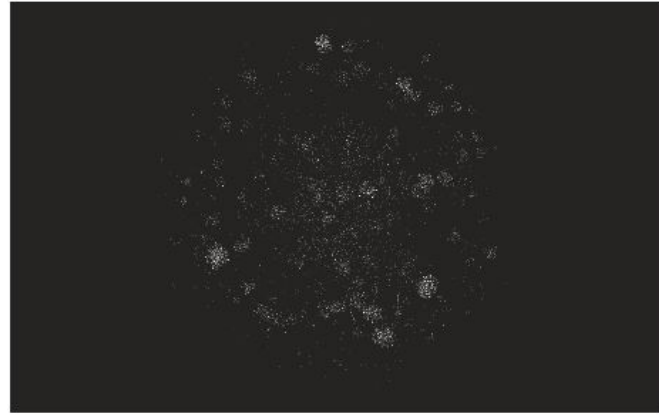
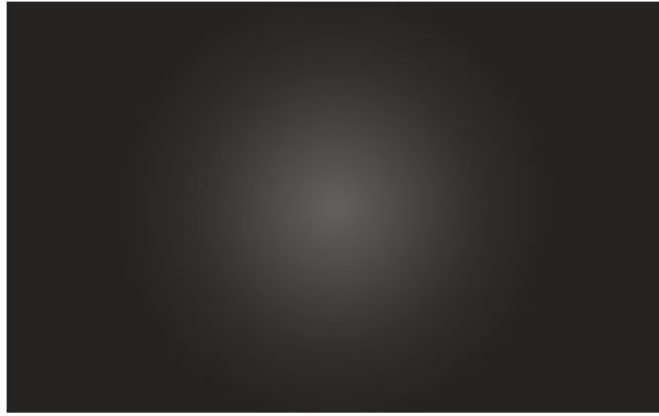
- results:
 - datasets and related scripts,
 - interactive visualizations (analogue and digital),
 - intervention at ars electronica 2020 in deep space,
 - virtual intervention at pixel.vienna 2020,
 - grant application,
 - scientific paper for leonardo

transformation of knowledge into action

these layers correspond to different kinds of information that are overlapped to show specific layers according to the zoom level.

following the writing arrangement:

- 1) background,*
 - 2) edges,*
 - 3) cartography,*
 - 4) keywords for pairs,*
 - 5) nodes,*
- and*
- 6) keywords for triplets.*





The analog board “chinese sea” representing “ethnicities” presented at deep space during ars electronica festival 2020.



applied humanities in a data enabled society

thank you!

eveline wandl-vogt
keynote ddh2020



@caissarl #k4h+ #explorations4u
data and digital humanities 2020 | 10 | 15 <vienna | online>