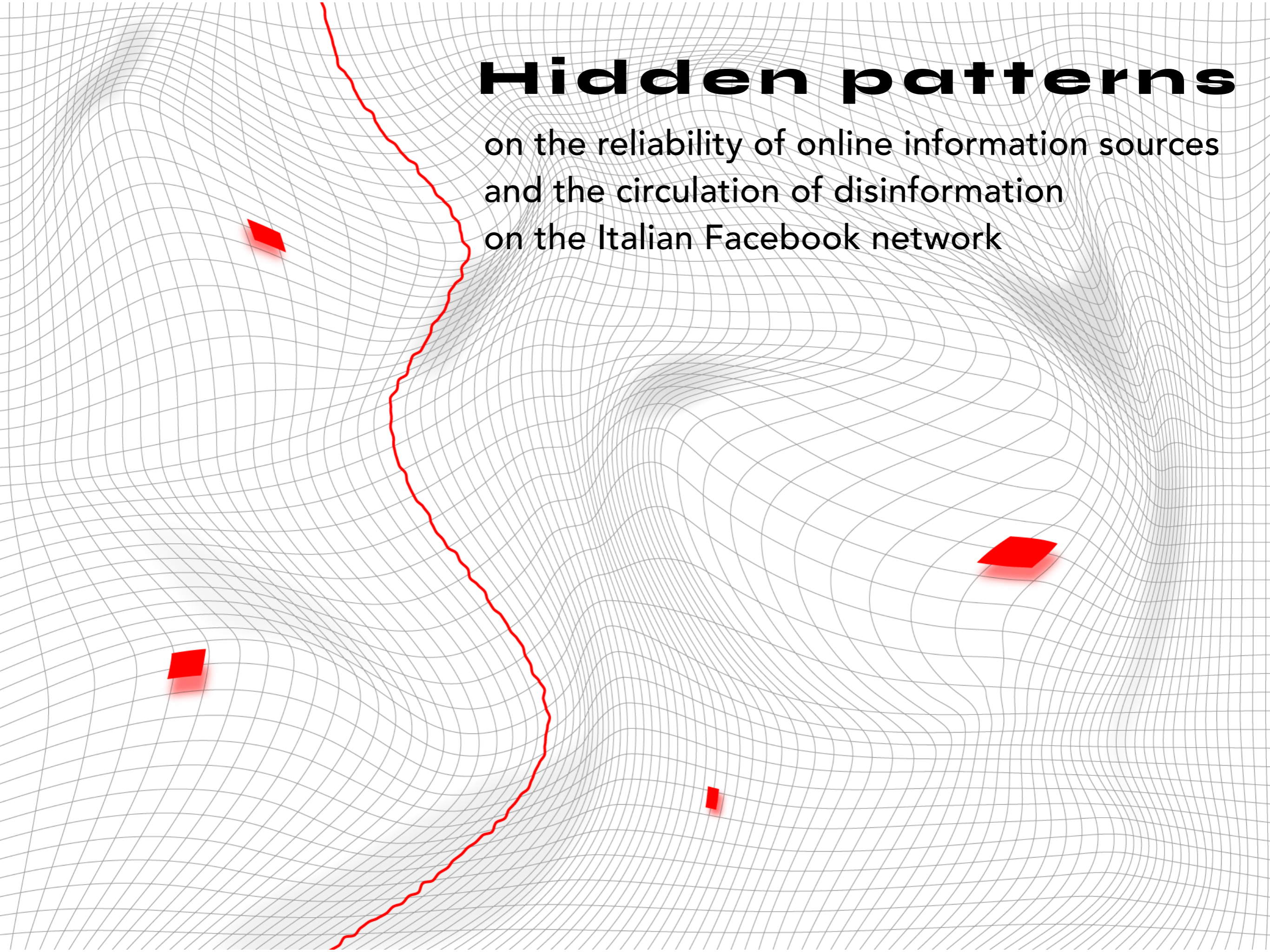


Hidden patterns

on the reliability of online information sources
and the circulation of disinformation
on the Italian Facebook network





Elena Aversa

MSc Communication Design

@ Politecnico di Milano

Information disorders

Digital transformation → Democratic networks

“Digital media generate a genuinely communicative relation that is, symmetrical communication. **The receiver of information is simultaneously its sender.** It is difficult to set up relations of power in symmetrical spaces of communication.”

Byung-Chul Han, in the Swarm: Digital Prospects, 2016

status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates,
tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails,
stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats,
posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures,
videos, articles, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles,
GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status
updates, tweets, emails, stories, chats, posts, pictures, ... articles, GIFs, status updates, tweets,
emails, stories, chats, posts, pictures, videos, articles, status updates, tweets, emails, stories,
chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats, posts,
pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos,
articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs,
status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates,
tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails,
stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats,
posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures,
videos, articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles,
GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status
updates, ... emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets,
emails, s... chats, posts, pictures, videos, ar... GIFs, status updates, tweet... mails, stories,
chats, posts, pictures, videos, articles, GIFs, st... updates, tweets, emails, stories, chats, posts,
pictures, videos, articles, GIFs, status updates, t... mails, stories, chats, posts, pictures, videos,
articles, GIFs, status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs,
status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates,
tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails,
stories, chats, posts, pictures, videos, articles, GIFs, status updates, tweets, emails, stories, chats

The image features a dense, repeating pattern of text listing various digital communication methods: "status updates, tweets, emails, stories, chats, posts, pictures, videos, articles, GIFs". Overlaid on this background are several white, semi-transparent icons:

- A rolled-up document or scroll tied with a yellow rubber band.
- A thought bubble.
- A speech bubble containing three dots.
- A smartphone displaying a grid of colorful app icons.
- A professional video camera.
- A movie clapperboard.
- A bright starburst or explosion icon.

The overall composition suggests a theme of digital connectivity and multimedia sharing.

“The situation when someone has so much information
that they are **unable to deal** with it.”

Collins English Dictionary

“Infobesity”



Rogers P., Puryear R., Root J., 2013

“Infoxification”

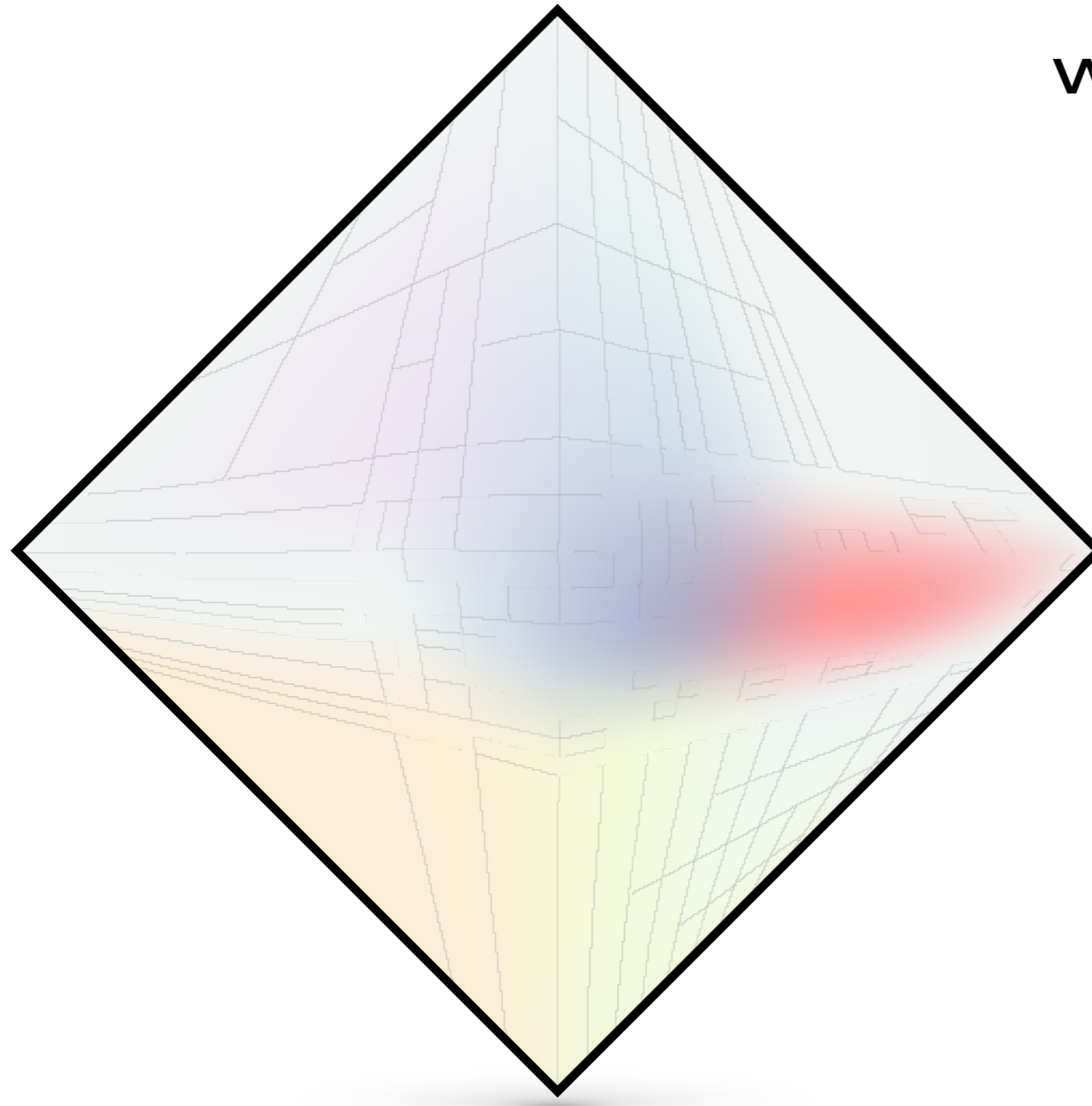


Chamorro-Premuzic T., 2014

“Information Anxiety”

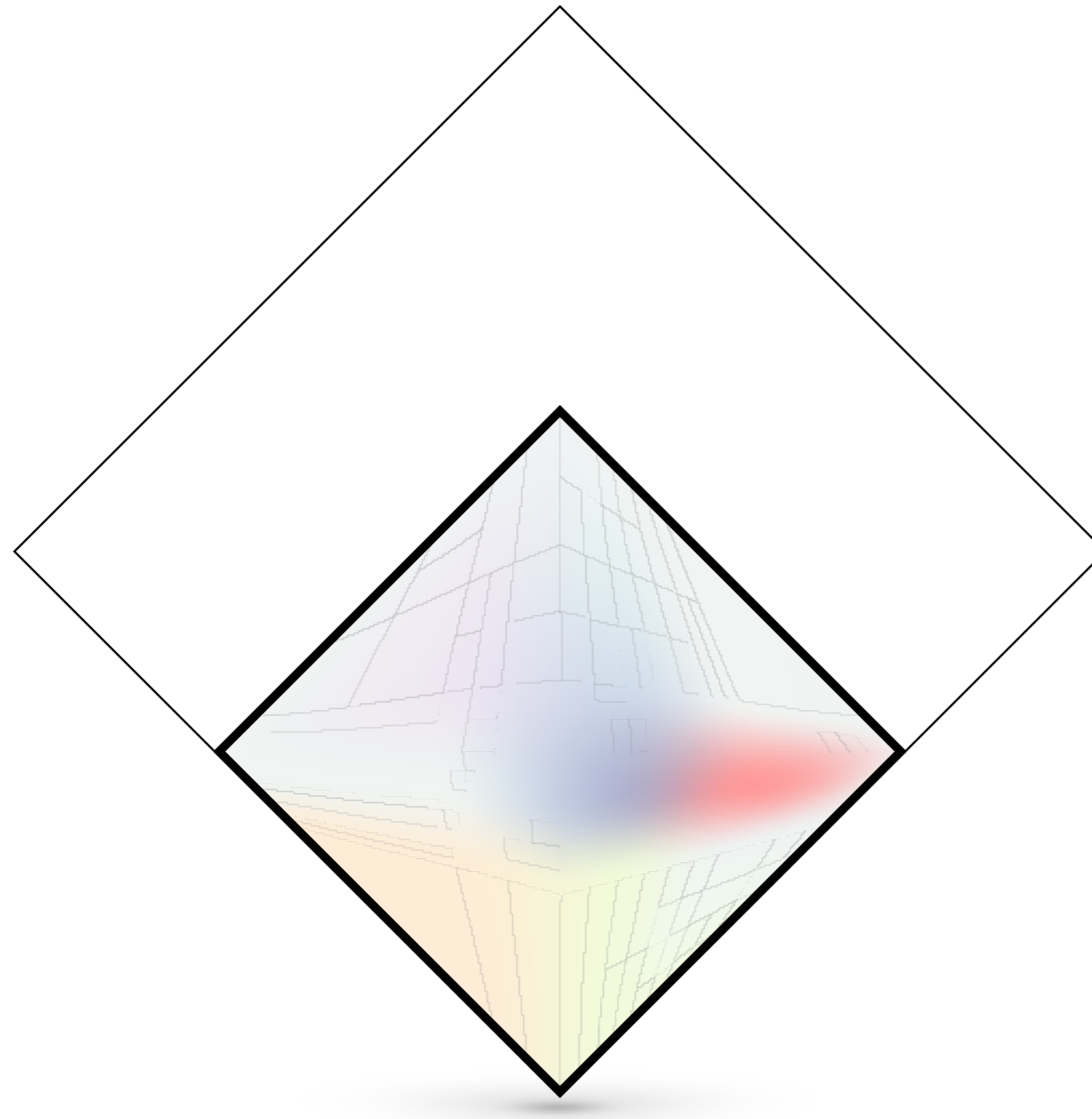


Wurman R. S., 2012



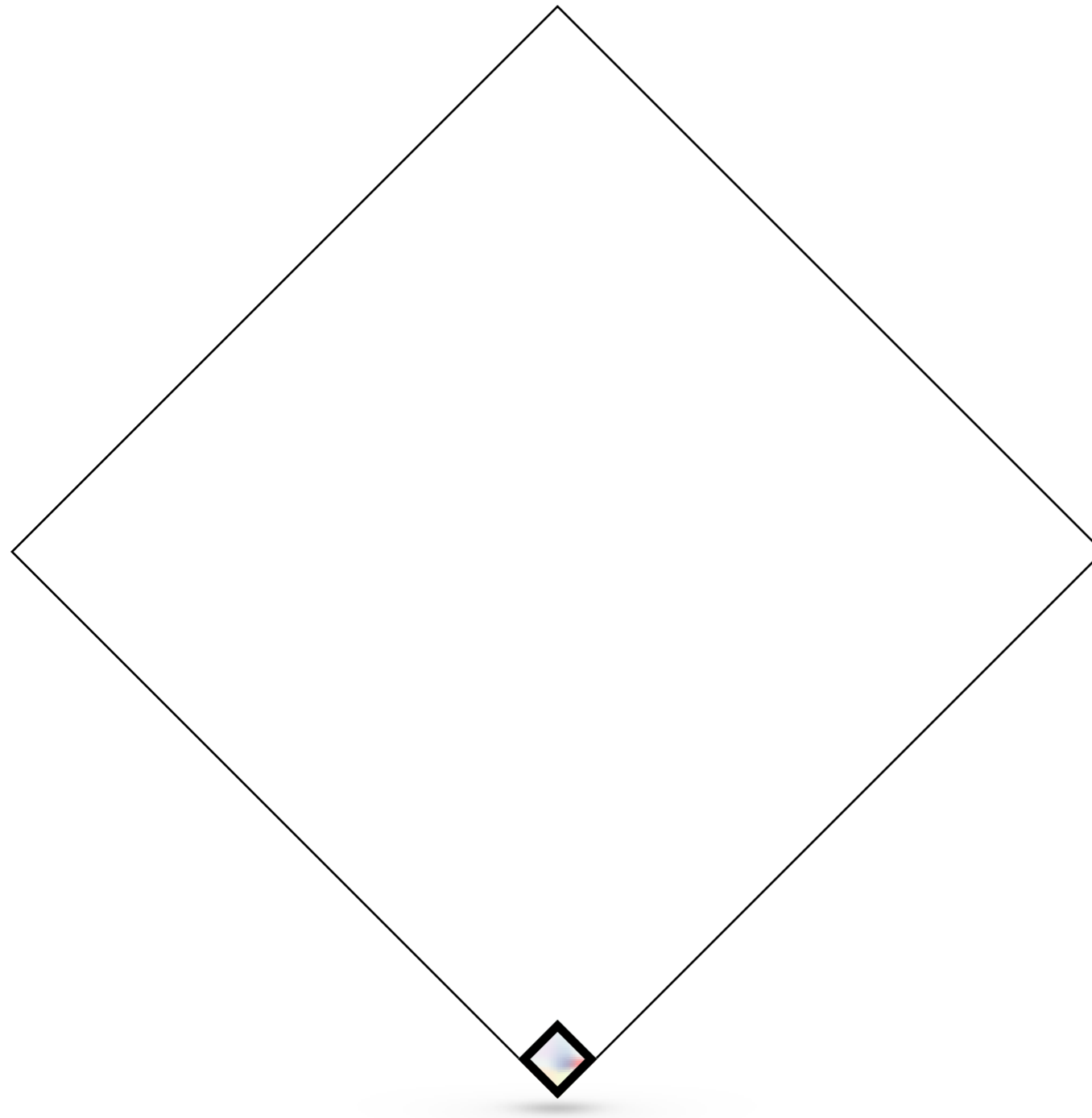
World population
7.7 billion people

www.worldometers.info



**Social net users
(worldwide)**
3.48 billion people

Wearesocial & Hootsuite,
Digital in 2019



**Social net users
(Italy)**
35 million people

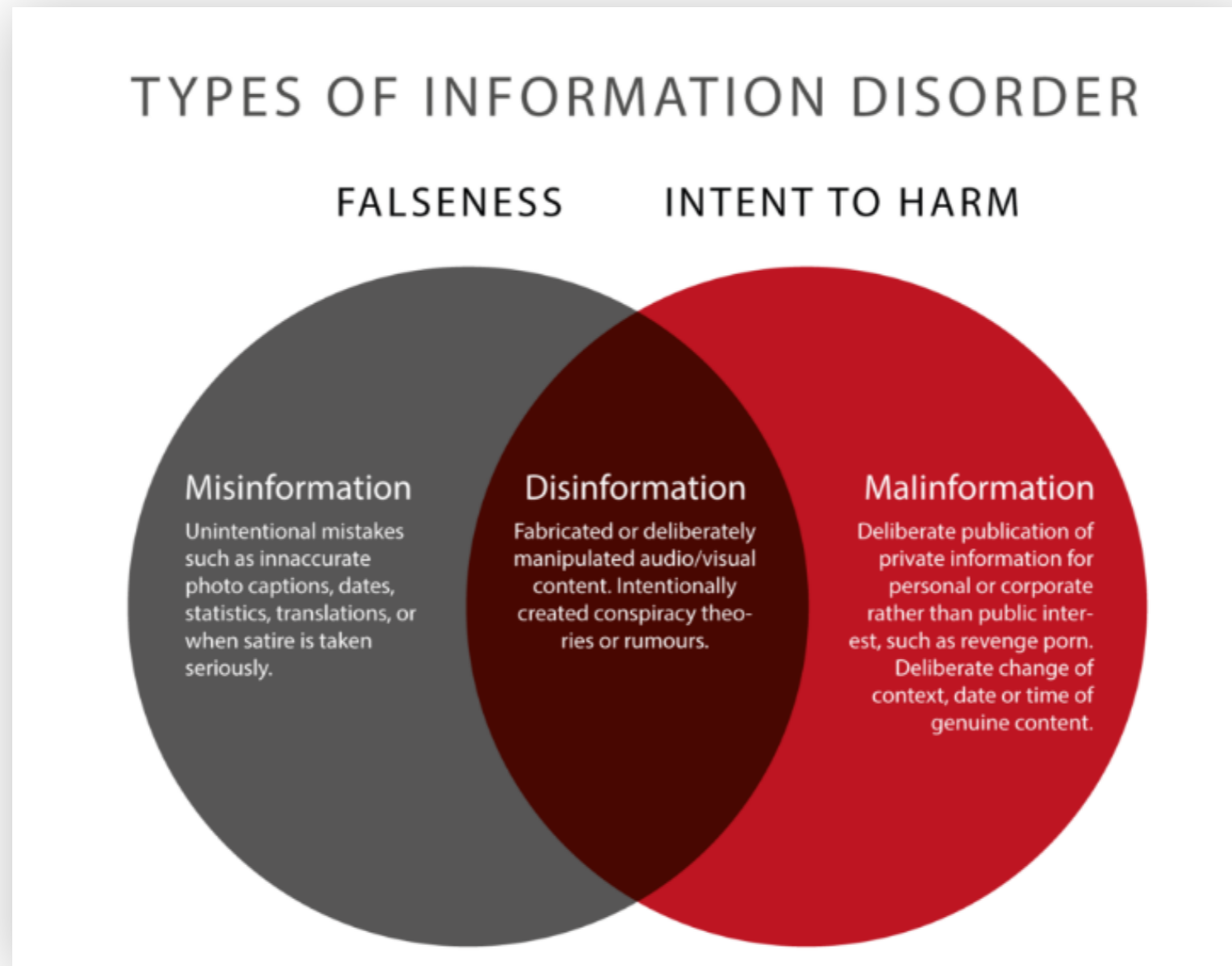
Wearesocial & Hootsuite,
Digital in 2019

Facebook



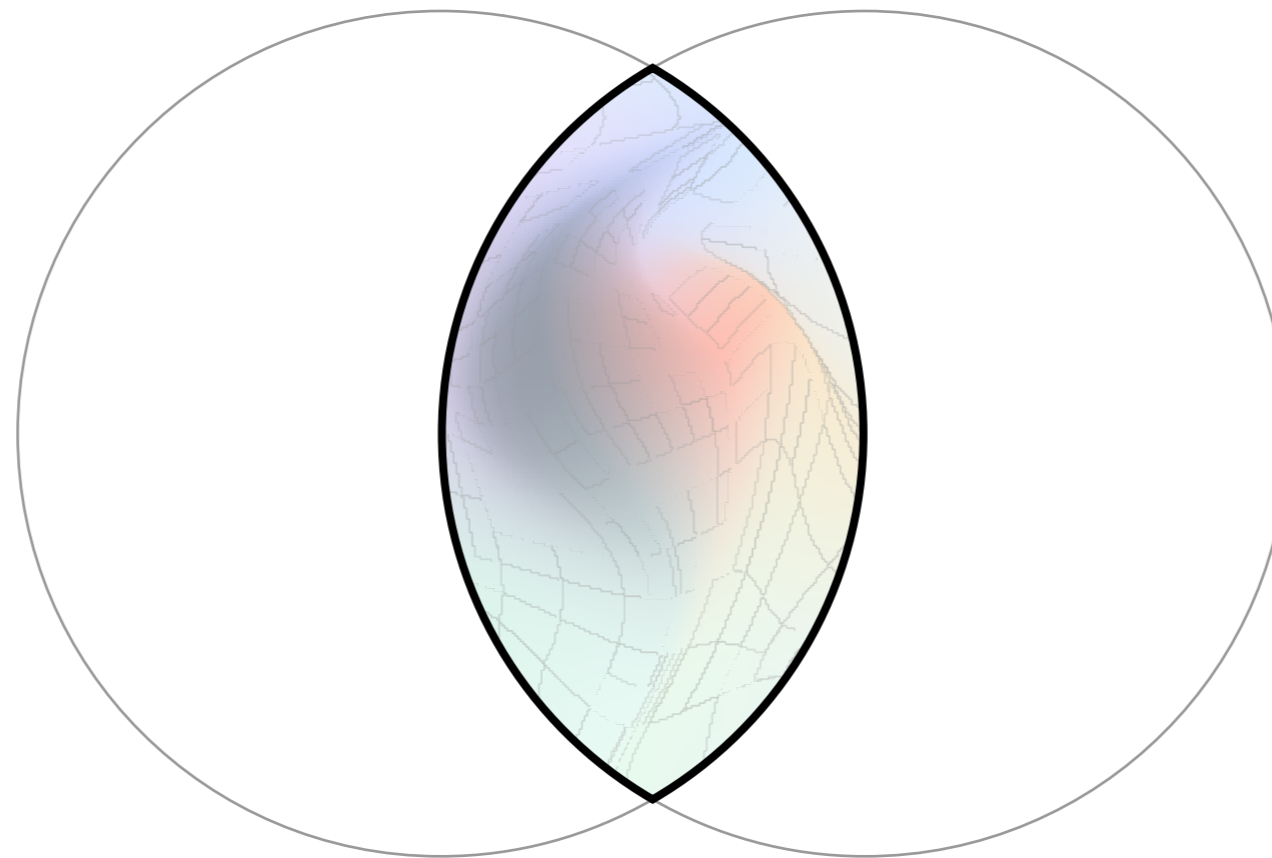
“La decisione di rendere il proprio social network un ecosistema in grado di coprire e trecentosessanta gradi i bisogni dell’utente e alla base del successo di Facebook. In pratica, Facebook sta utilizzando nell’ambito del social network la stessa strategia utilizzata dai portali dell’era di Internet: diventare veri e propri **aggregatori di informazioni e servizi.**”

Riva G., I Social Network, 2010



FirstDraft News, 2017

“False information **deliberately** and often covertly spread (as by the planting of rumors) in order to **influence** public opinion or obscure the truth”



Meriam-Webster Dictionary



Zinoviev Letter

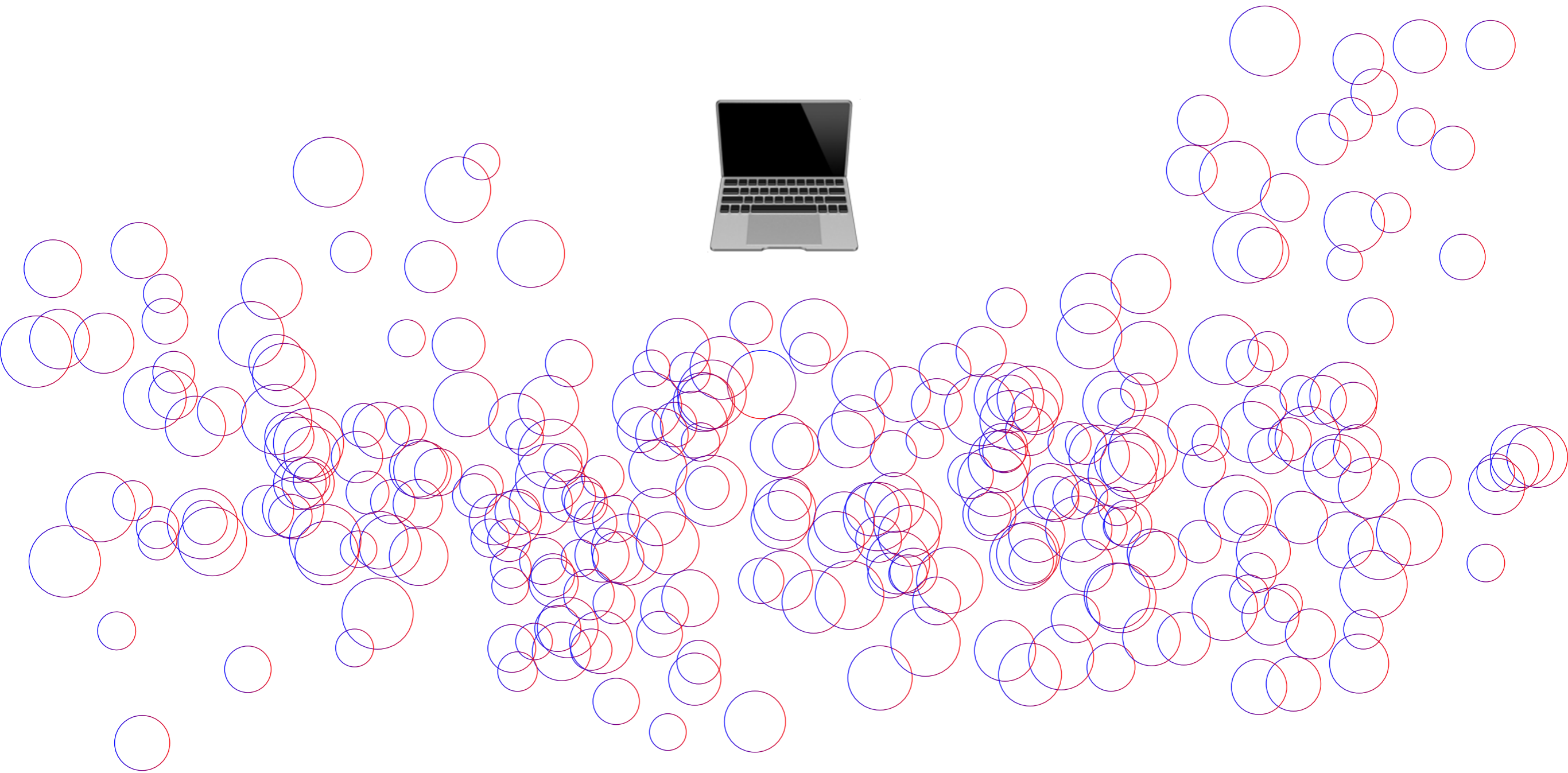


Falsified letter published by the British Daily Mail newspaper.
It influenced the results of the general election in 1924

The Protocols of the Elders of Zion



Antisemitic fabricated text purporting to describe
a Jewish plan for global domination



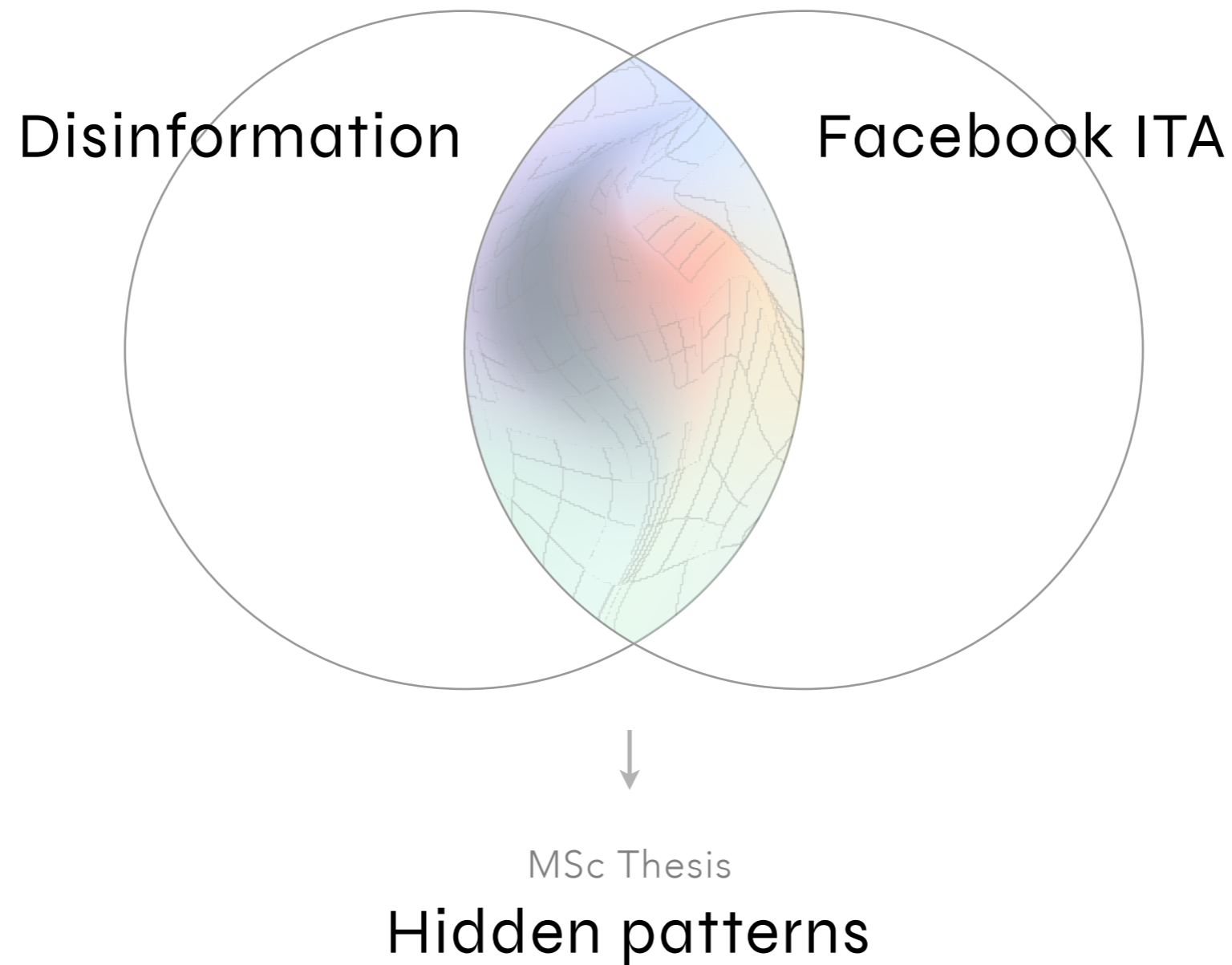


Social influence

+

Fact-check & debunk

what can be said about the Italian situation?



01

Building the dataset

Which sources
are sharing disinformation
on the Italian Facebook?

02

Deepen the field

Do these sources share
a common pattern of
relationships?

+

Do these relationships
influence Facebook
users?

03

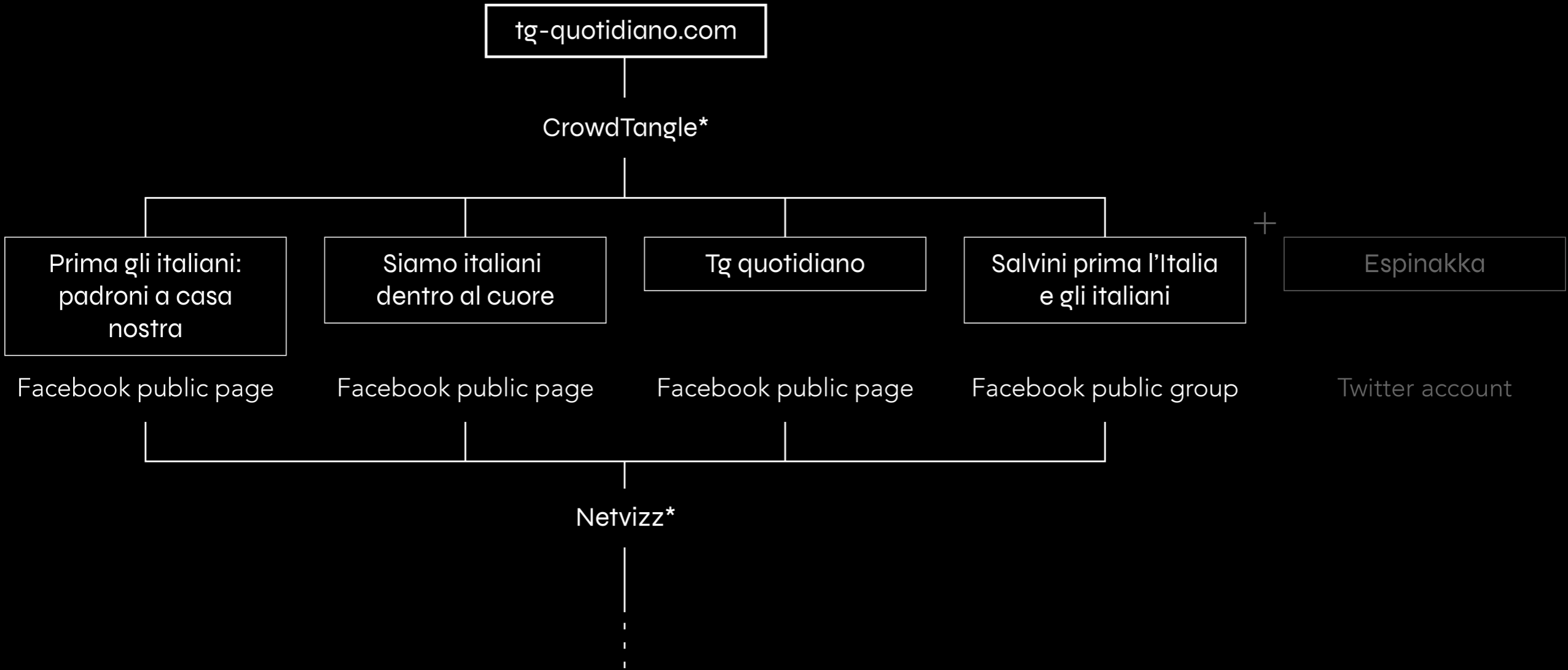
Action/solution plan

How to make the users be
critical to the information
they consume on Facebook?

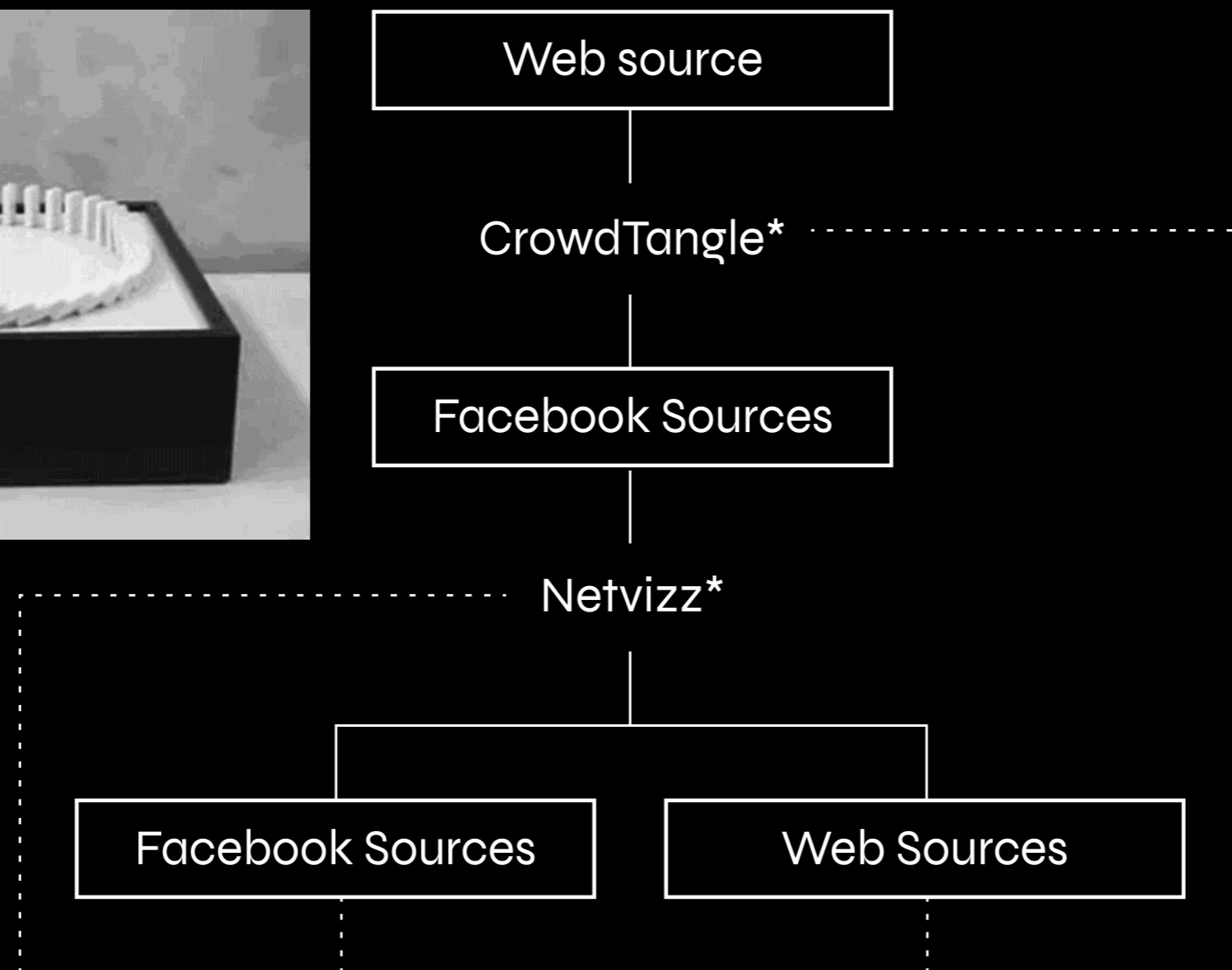
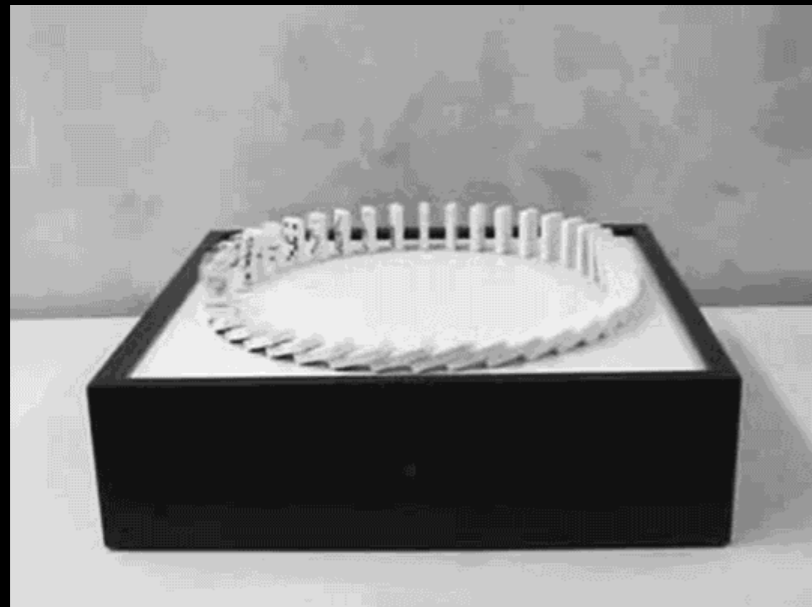


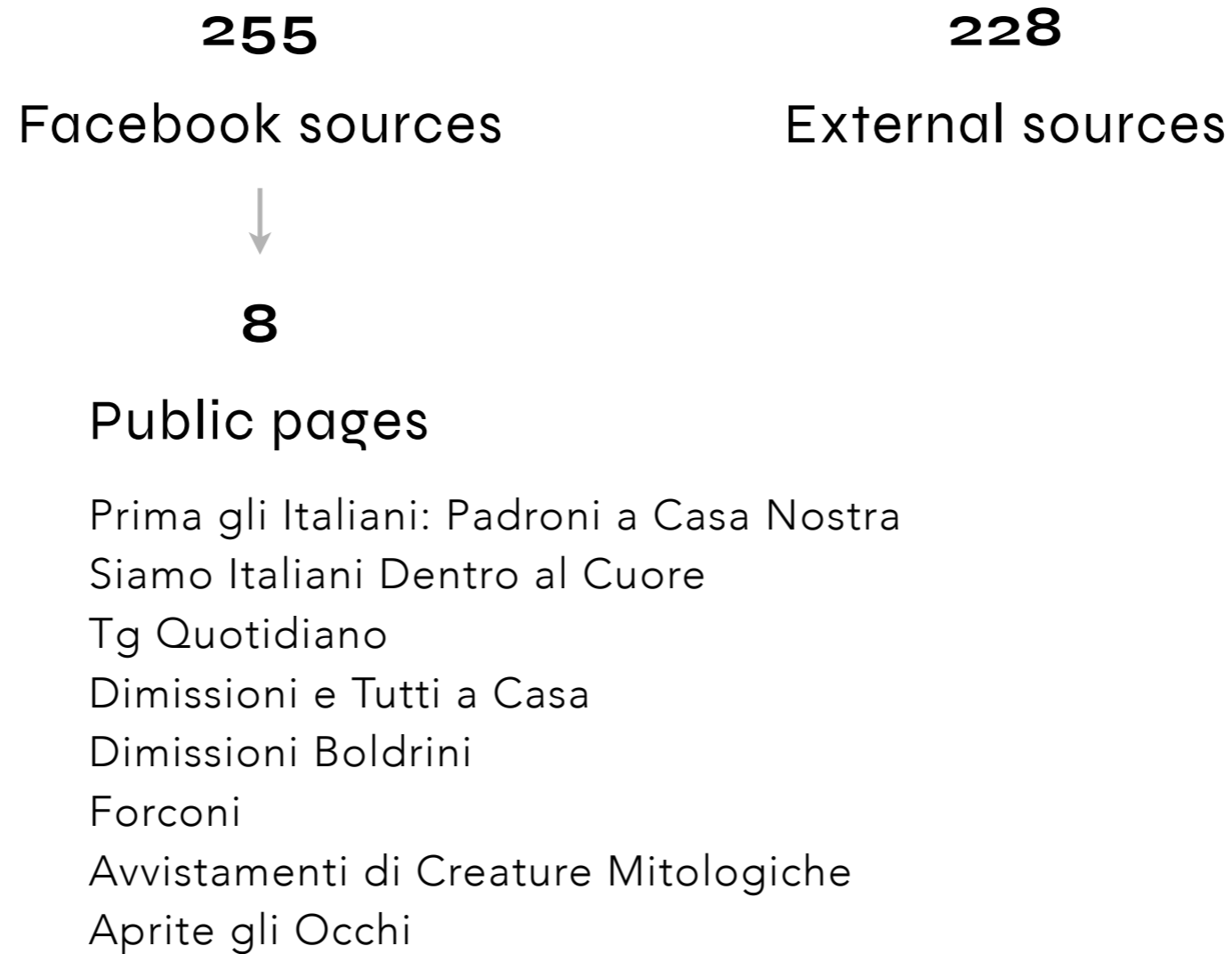


☐ Web sources ☐ FB sources * Tools

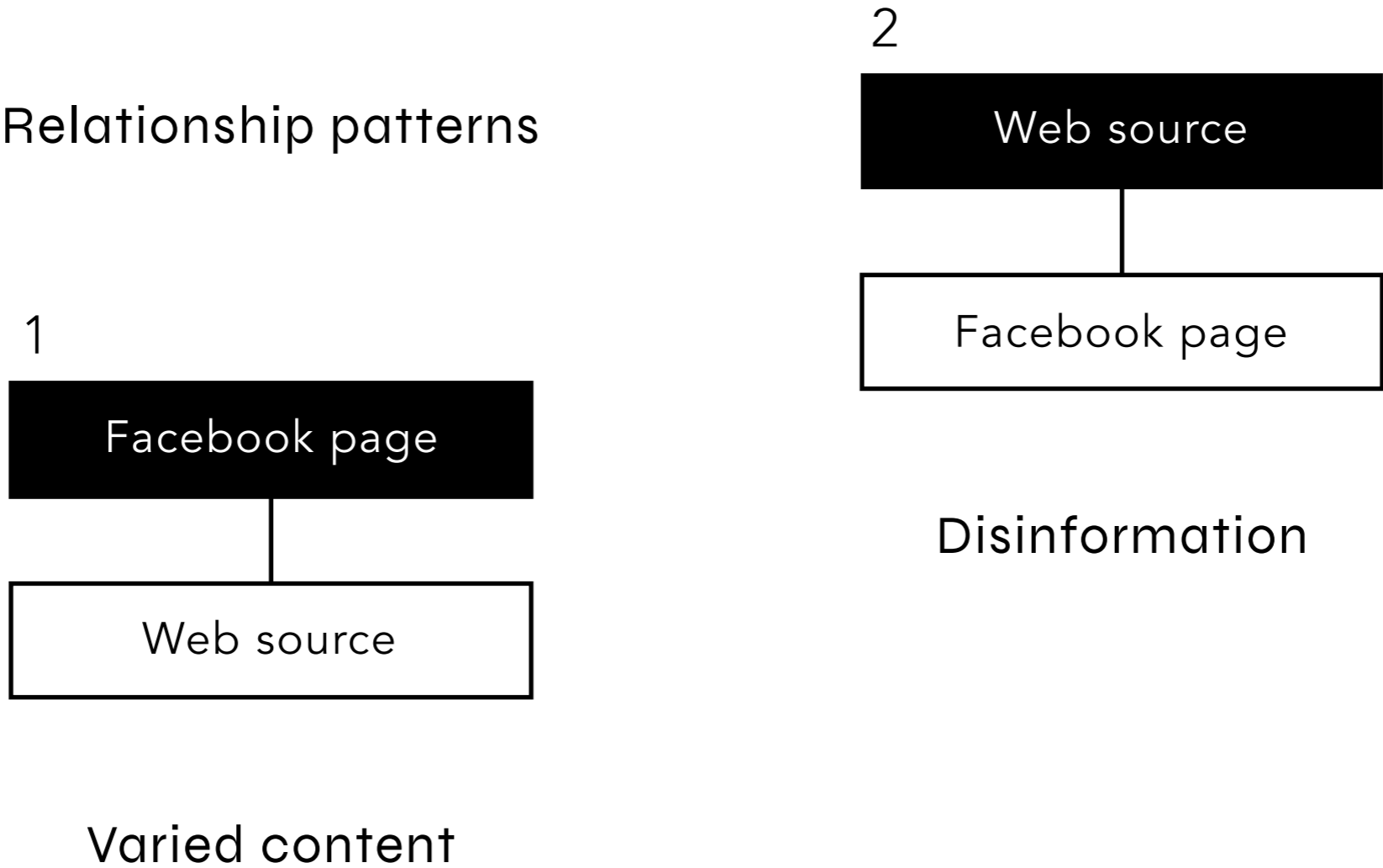


□ Sources * Tools



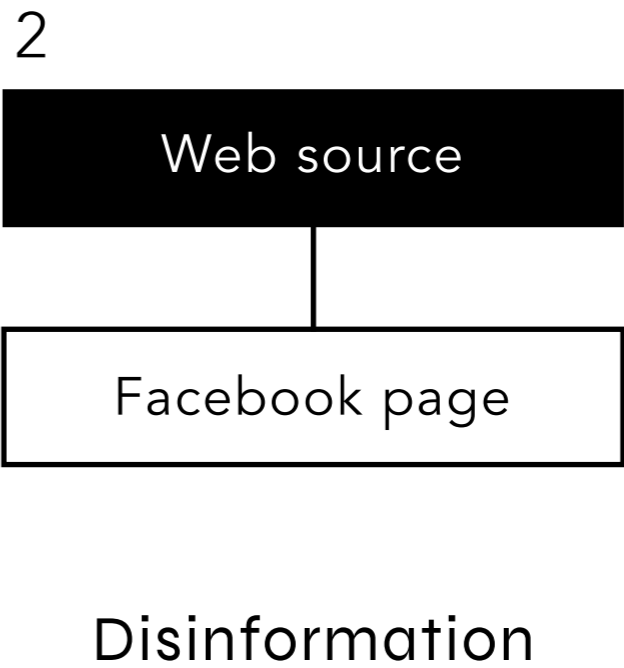


Relationship patterns





Prima gli italiani: padroni a casa nostra





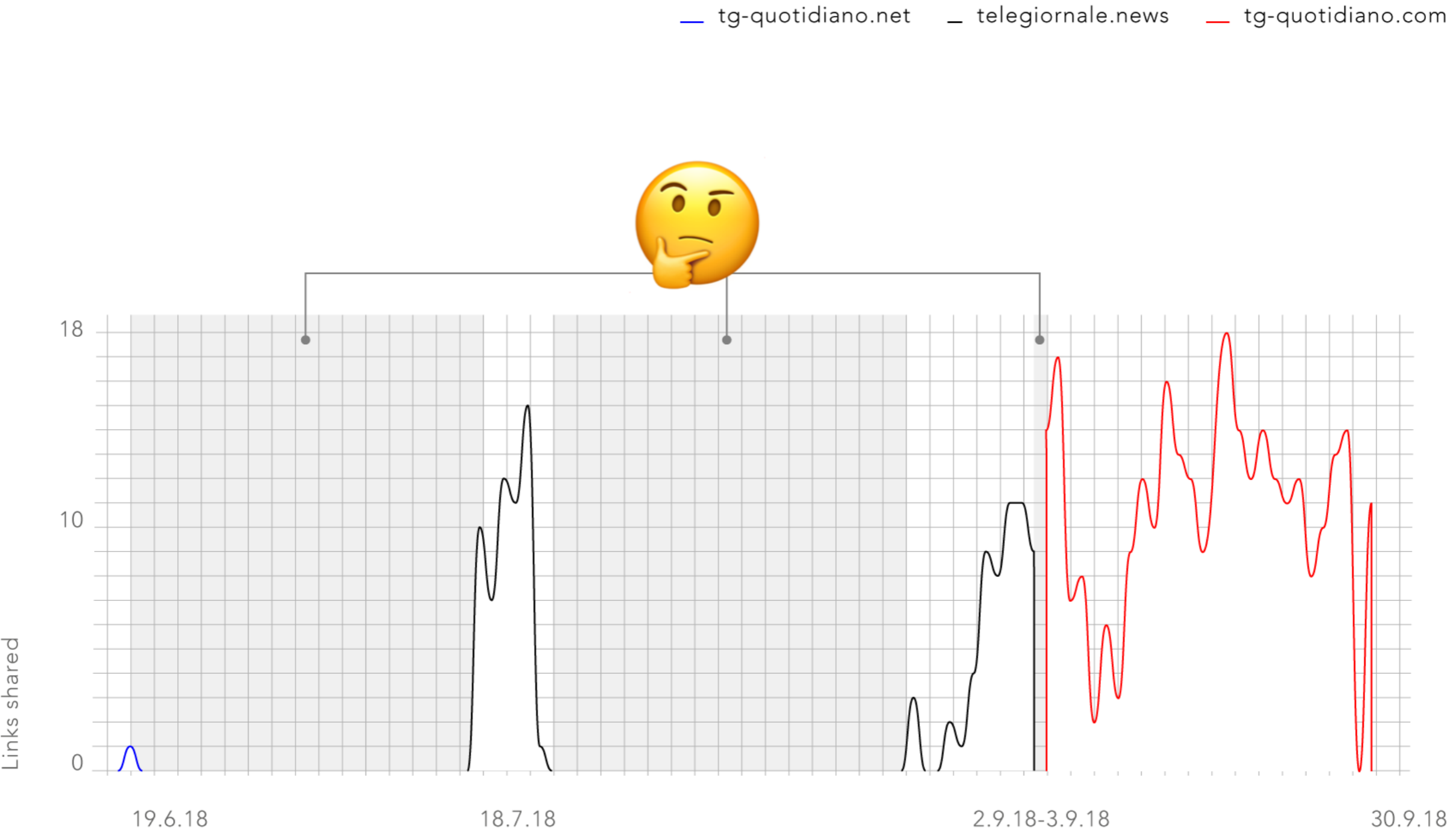
Before, during and after the 2018 Italian general elections

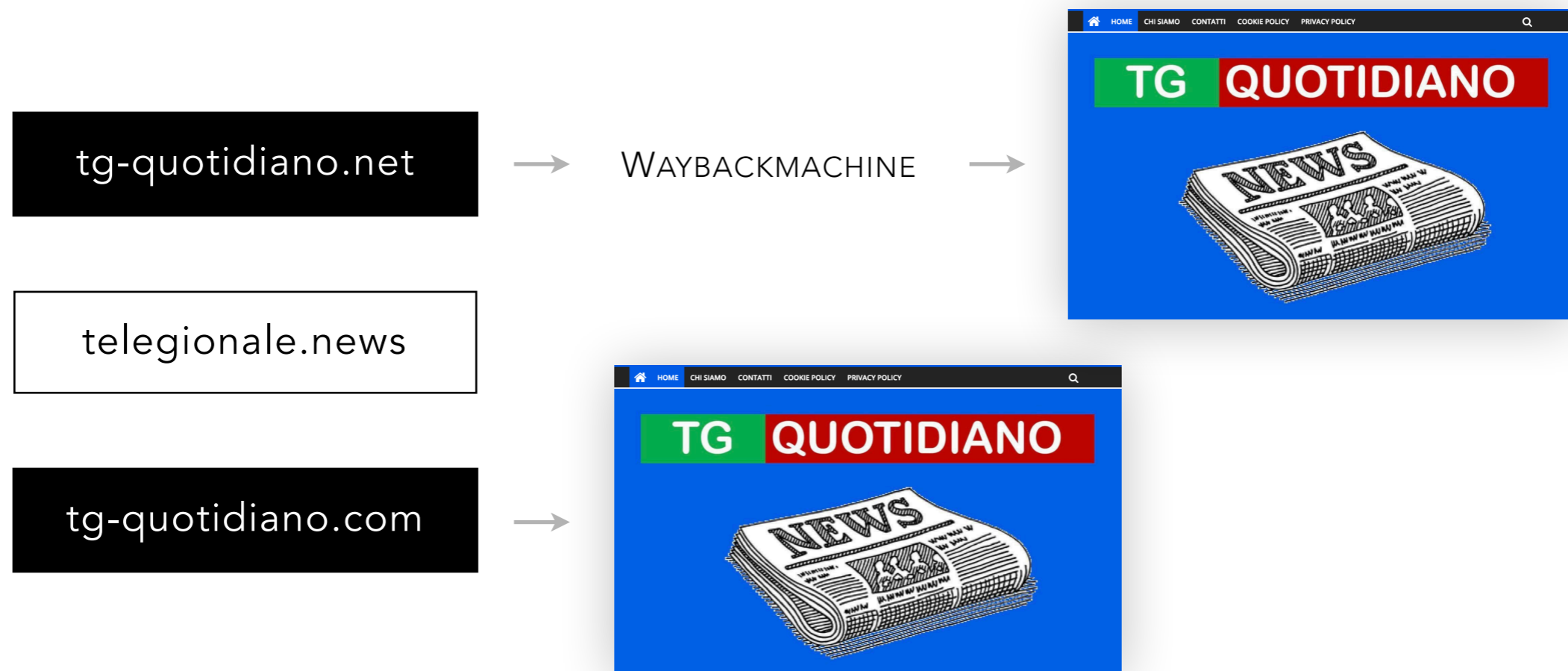
18 Feb 2018—30 Sept 2018

02\ Hidden patterns\ Deepen the field

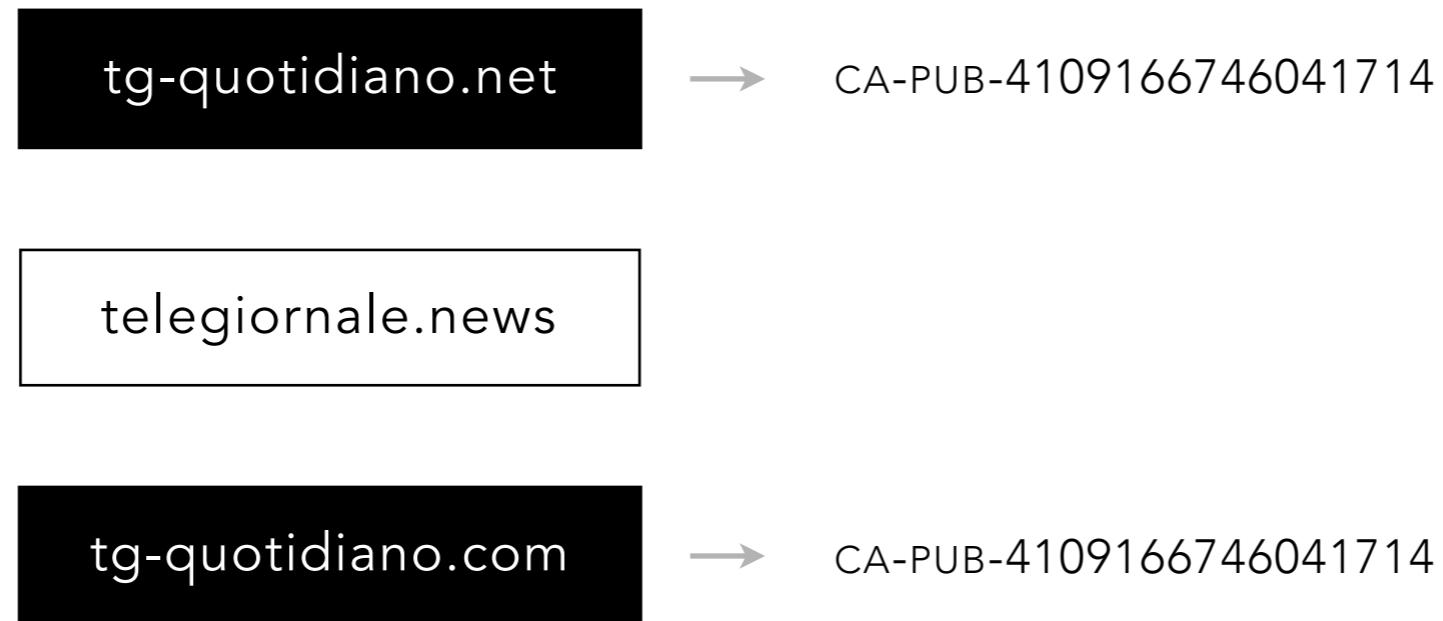


Hidden patterns: reliability of online information sources and circulation of disinformation on the ITA FB network





What about the Google AdSense ID?



tg-quotidiano.net	→	CA-PUB-4109166746041714
telegiornale.news	→	CA-PUB-4109166746041714
tg-quotidiano.com	→	CA-PUB-4109166746041714



AdSense reverse lookup

CA-PUB-4109166746041714



<http://web-quotidiano.com>

<http://tgquotidiano.it>

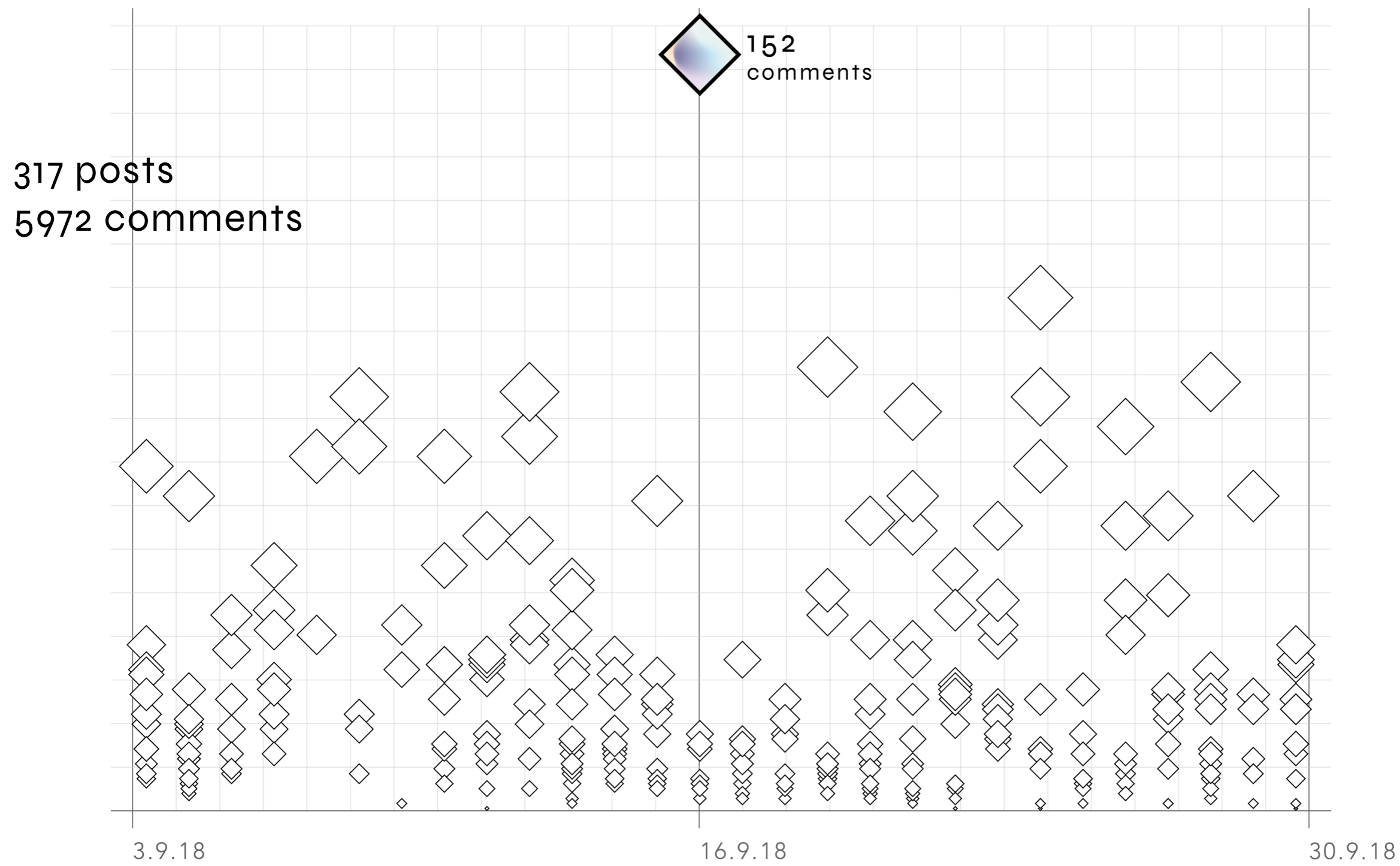
<http://tgquotidiano.com>

<http://tg-quotidiano.org>

<http://tg-quotidiano.net>

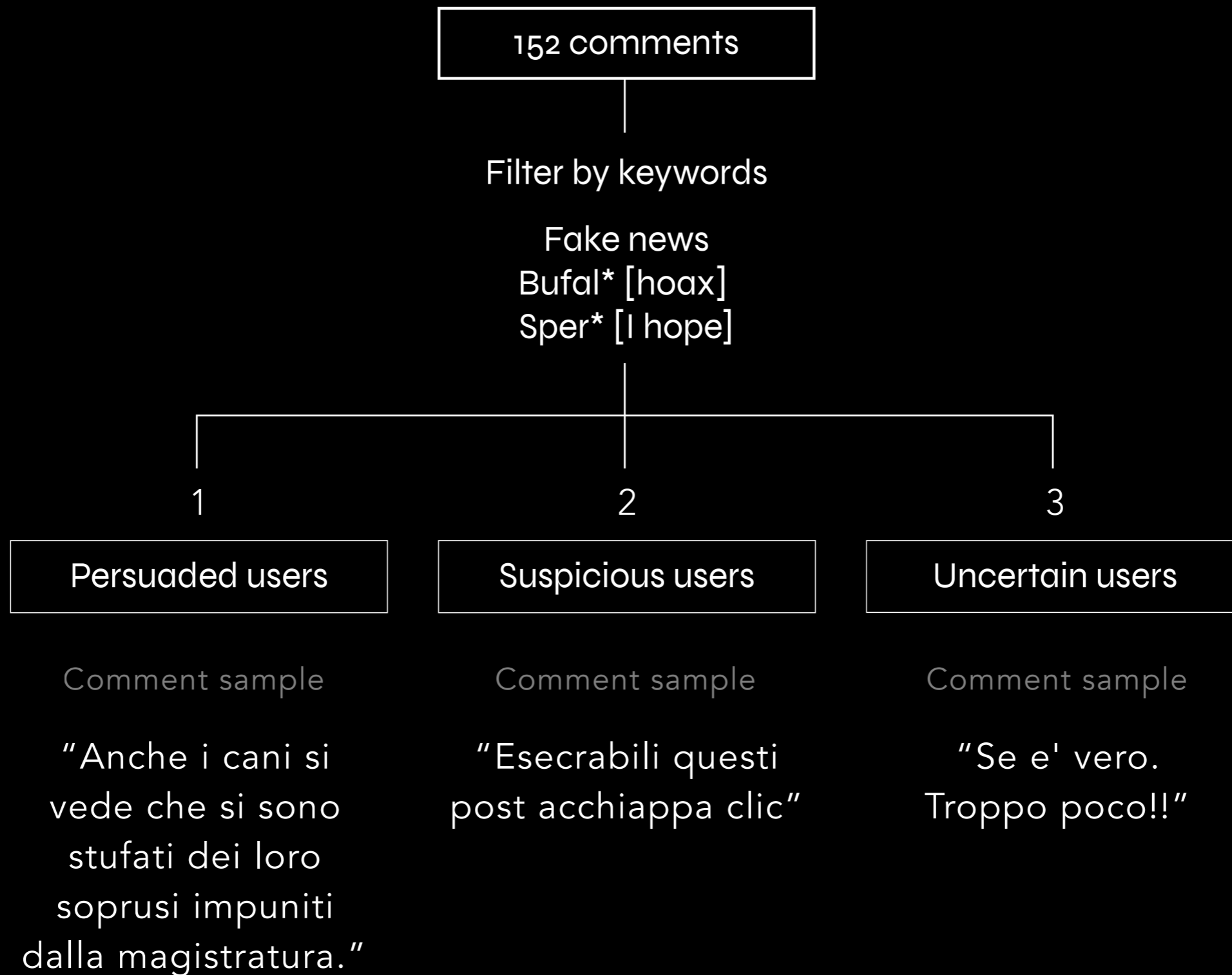
<http://tg-quotidiano.com>

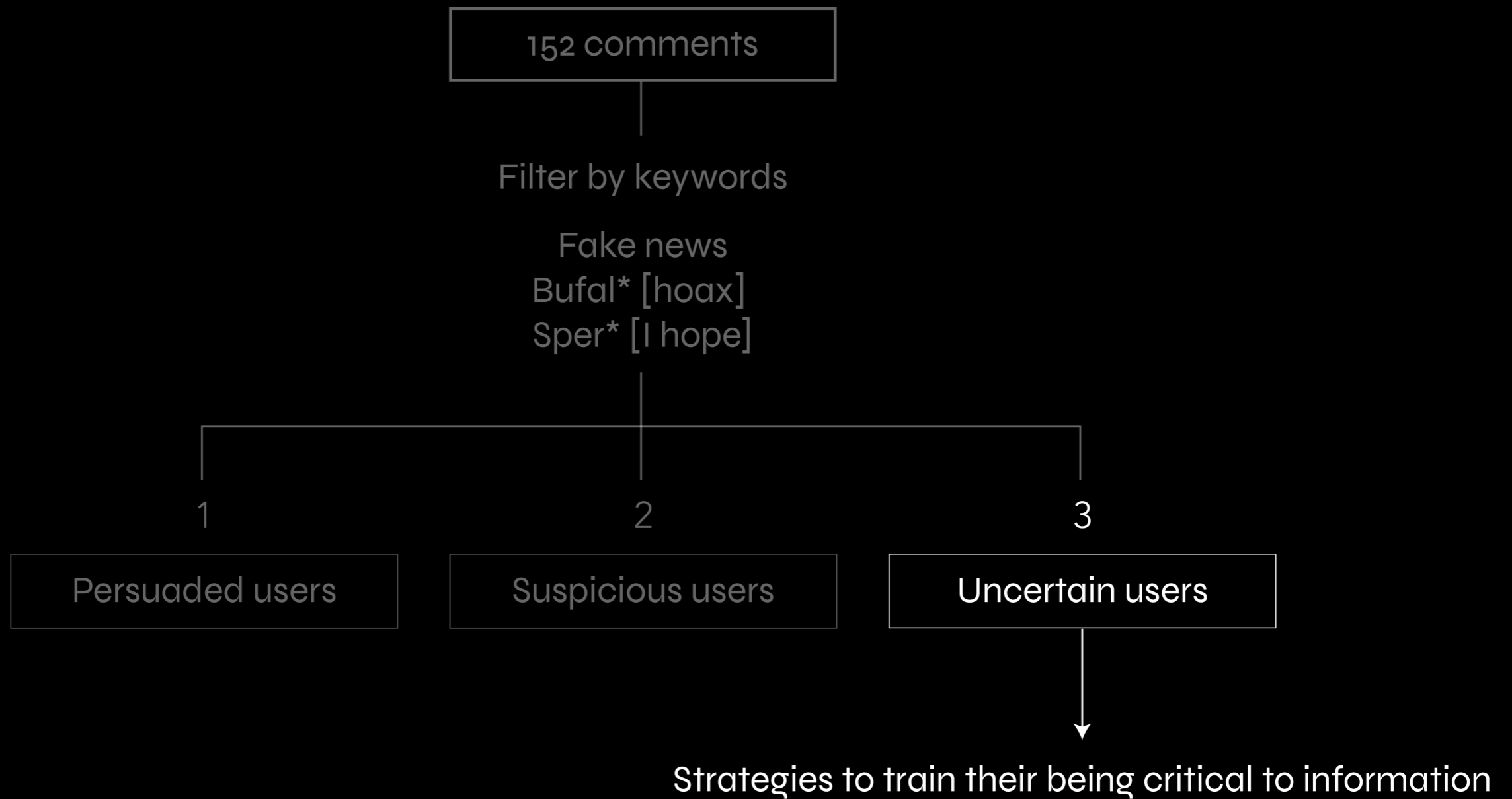
Do users perceive there's something weird there?





Dog beaten by a migrant, revolts and tears up his penis:
they want to put the dog down.





Reactive document



Explorable Explanations

<https://explorabl.es/>



Active reader



01

Digital
transformation

02

Case study

03

Users involvement

Visualization

Interaction

Knowledge

Protocol-like
strategy

01



POST FB

02

03

●

Veicolo immediato dei concetti presenti nell'articolo.

●

Veicolo visuale dell'impronta emotiva dell'articolo.

●

Indica il creatore del contenuto.
In questo caso: La Repubblica e
tg-quotidiano.com

Trascina i pallini, relativi agli elementi che compongono il post, nel cerchio di pertinenza.

07



POST FB

2

3

STRATEGIA #1

CHI HA CREATO IL POST CHE STO LEGGENDO SU FACEBOOK?

Nella tua sezione notizie un contatto che conosci bene ha condiviso un articolo pubblicato su una fonte esterna

TITOLO E FOTO TI SCONVOLGONO?



Aspetta un attimo: prima di fidarti del contenuto, anche se rispecchia il tuo modo di vedere il mondo, dai un'occhiata alla fonte che lo ha pubblicato.



SE NON TI SEMBRA AFFIDABILE: CONTROLLA IL SITO.
Se scorri fino in fondo, dovresti trovare le informazioni legali
di registrazione della fonte al tribunale.

Le hai trovate?



S



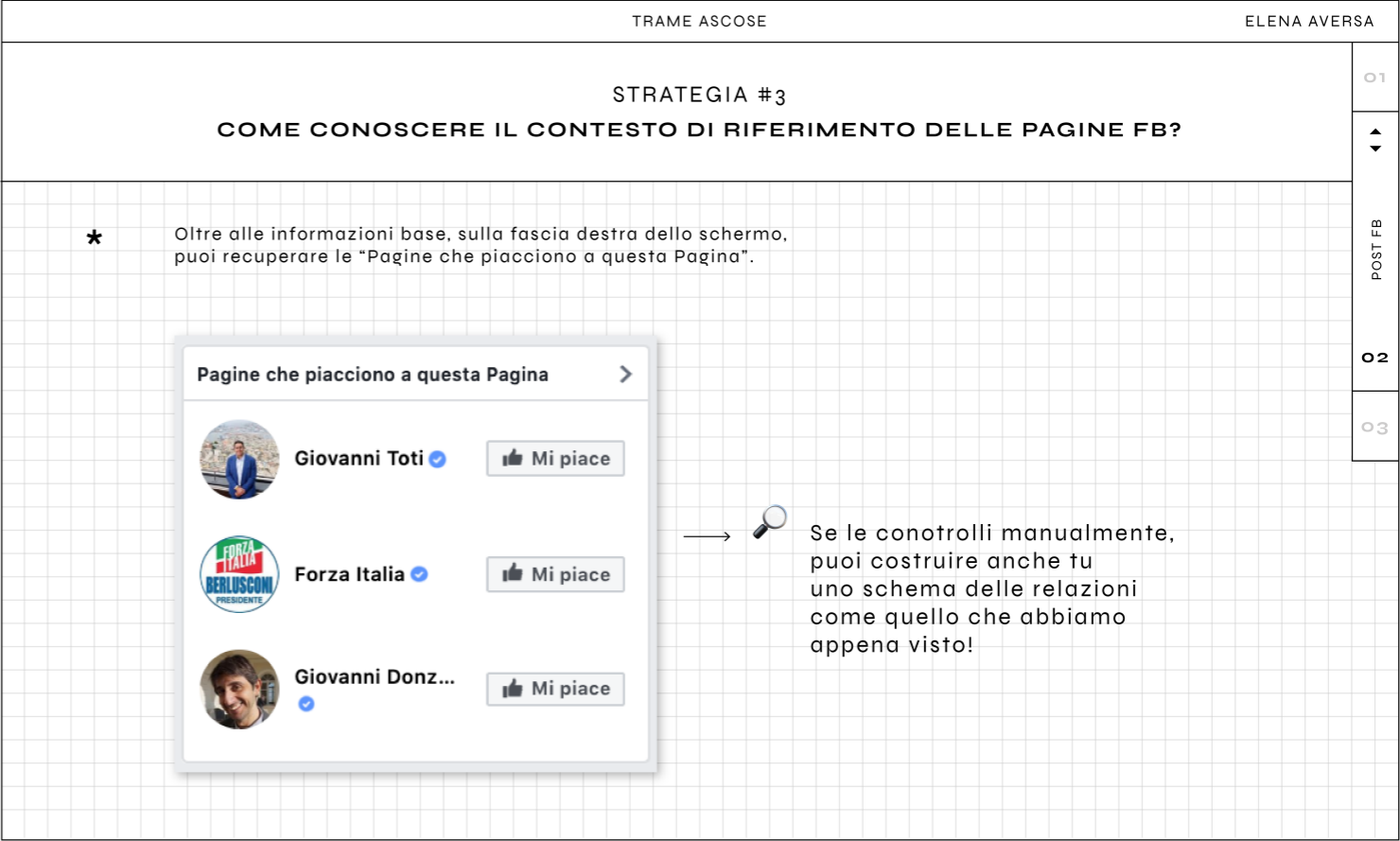
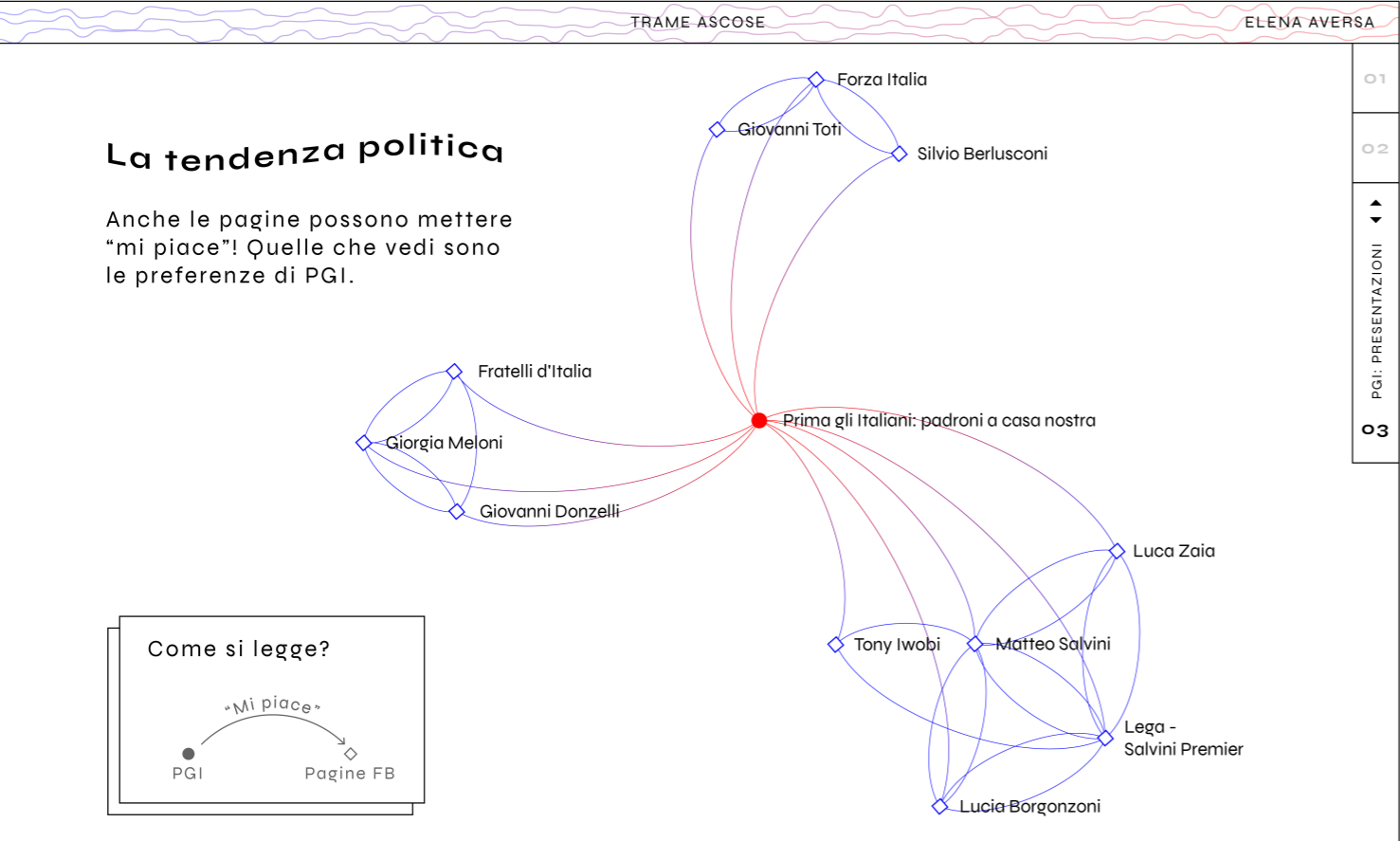
Le hai trovate? Bene, è probabile che la fonte sia autorevole.



N



C'è qualcosa di sospetto..





In conclusion, how to supply fact-checking & debunking?

changing the general perception by **showing tools/methods**

+

deep understanding of the **concerned audience point of view**



Thank you!