



Italian IDMO hub: tools to prompt media literacy to enhance decision-making

What we did so far

Project and tools: focus on Italian Elections & Media Literacy

What we will do

WHAT WE DID





SCIENTIFIC STUDIES

- Study on coordinated joint disinformation operations in Italy in collaboration with Luiss, Harvard Kennedy School; Master of Journalism, University of Michigan
- Creation of an interactive <u>migrants' map</u>



• 2021-2022 Special Report on Disinformation;

- Two Monthly Reports by Pagella Politica (December 2021 and January 2022)
- 2021- 2022 Report on disinformation in Ukraine by NewsGuard



PODCAST

<u>Podcast</u> on media and Dis/misinformation.

Researchers, professors and journalists among

the interviewers



SOCIAL NETWORK

Spotting and Combatting Disinformation with quality contents via Social Media: (e.g., anti-mafia journalists Roberto Saviano and Federica Angeli and writer Edith Bruck, Giuseppe Moles, Marianna Bruschi, Annalisa Cuzzocrea...) - Dissemination activity with our partners



NEW WEBSITE & SOCIAL

MEDIA

Launched in November 2022, Reached almost 55.000 visits and 400k impressions. Contents: videos, articles, events, podcasts and reports, multimedia contents



IPSOS

Study in collaboration with IPSOS and Nando

Pagnoncelli on Trusting Media. The quantitative and qualitative analysis will cover the main national media

EVENTS





From September 2021 to September 2022



01

Beyond Fake News:
The Power of Media
Professionals in the Fight Against
Disinformation
(September 2022)

World Fact Checking
Day
with a focus on
disinformation in Ukraine
Building Narratives: How
Propaganda Can Change
Our Perception.

02

Building Narratives: How Propaganda Can Change Our Perception. (September 2022)

Media Literacy focus on conspiracy narratives and propaganda techniques

03

Future Trends of Technology in Media and Journalism (September 2022)

Media literacy focus on the future trends of technology in media innovation 04

LECTIO MAGISTRALIS Emine Dzhaparova (May 2022)

First Deputy Minister for
Foreign Affairs of Ukraine,
incontra il Master in
Giornalismo e
Comunicazione
Multimediale, il Luiss
DATALAB e IDMO

05

Pills against disinformation
- RAI
(May - June 2022)

Thirty films to promote the development of critical thinking and digital literacy of citizens

EVENTS





From September 2021 to September 2022



06

(April 2022)

(DIS)INFORMATION **HER VERSION -HER** INTERNATIONAL CHALLENGES (March 2022) AND DOMESTIC RESILIENCE

Event in collaboration with the ministry of foreign affairs on future challenges to combat disinformation

Violence on women as told by the Media: Canada Embassy, **United Kingdom** Embassy, IDMO and Woman difference compared

07

STORY

80

The Internet Governance Forum 2022

Participation in the debate of IGF, the annual event organized by the Polish government in Katowice 09

International book fair 2022

Information and Disinformation in the Time of War. Event **IDMO-RAI**

10

APPOINTMENT WITH tim's digital media (2021 - 2022)

Media Literacy and eliteracy for digital alphabetization for high school students and teachers.

"Countering evolving transnational threats -

Disinformation, Smuggling, Terrorism" (2021)

Presentation of IDMO's work during event organized by the european commission



Media Literacy & Elections Project

Partners

- Luminate (https://luminategroup.com/about)
- Water on Mars (https://www.wateronmars.it/)





Method: computational social science -- leveraging natural language processing and social network analysis techniques to navigate the political infosphere and citizens' reactions as digital media users

Platforms monitored: Twitter, Telegram, Instagram, Youtube, Tik Tok

- Facebook: we collected posts, reactions, shares and comments from more than 2000 posts from official pages and 1000 from official groups of politicians and parties;
- Instagram: ca 70,000 comments on 560 posts;
- TikTok: ca 25,000 comments on 380 posts by politicians;
- YouTube: last 50 videos of the parties examining the comments;
- Twitter: networks by collecting data from at least 50 million tweets.



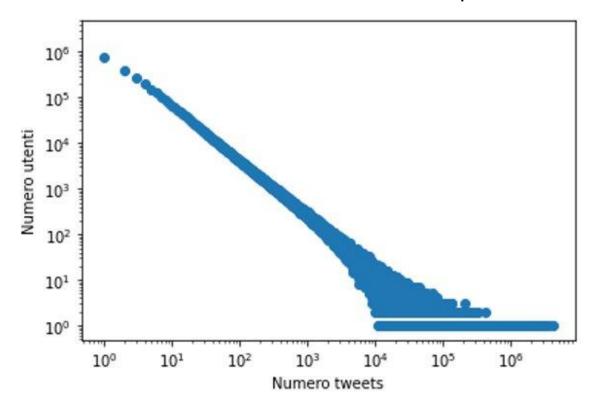
Analysis of anomalous distributions to identify bots

In search for possible automated or coordinated inauthentic behavior we looked for anomalies in the distributions of parameters such as number of followers, of followed, likes and so on.

It is known that over large number of accounts those distributions are very regular, usually following power-laws (see picture)

Anomalies are thus signs of inauthentic accounts like bots or sock puppets

Distribution of the number of tweets per user



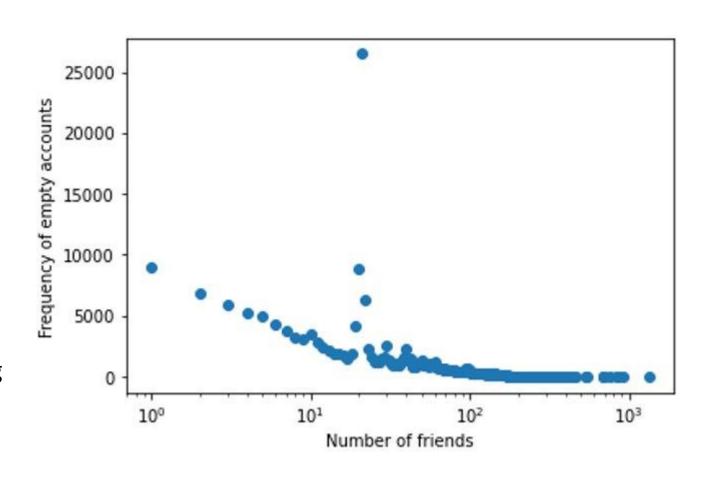


Possible sleeping bot farm?

We found a very anomalous number (over 26000) of otherwise empty accounts whose only activity is to follow exactly 21 randomly chosen public accounts

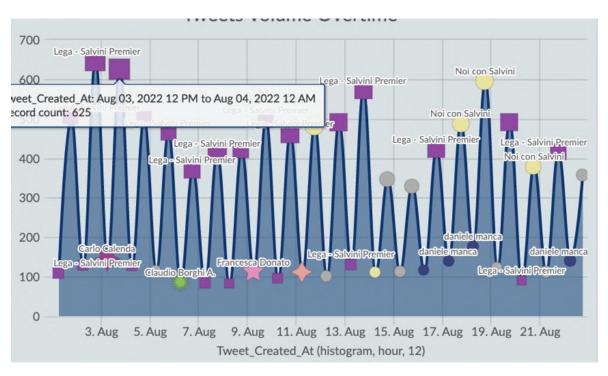
Each one has 0 followers, likes and tweets, standard profile picture, no geolocalization and a string of 8 numbers at the end of the handle

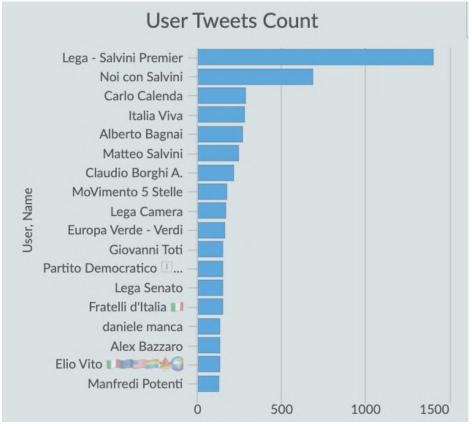
This is a sign of a possible farm of aging bots, ready to be used by whoever is willing to pay for them



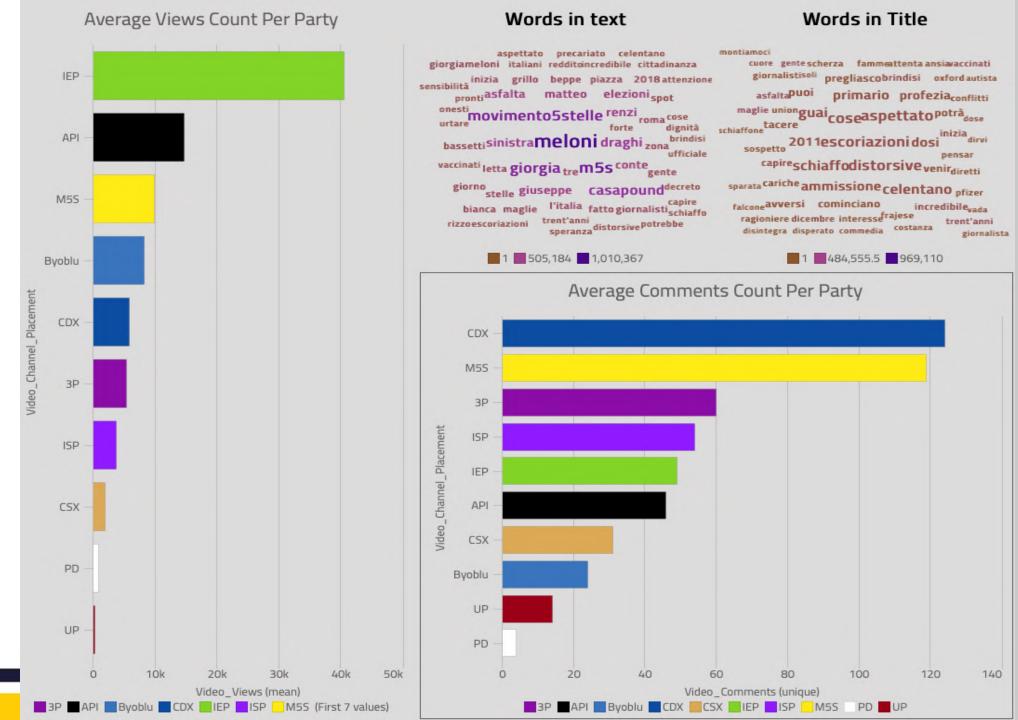


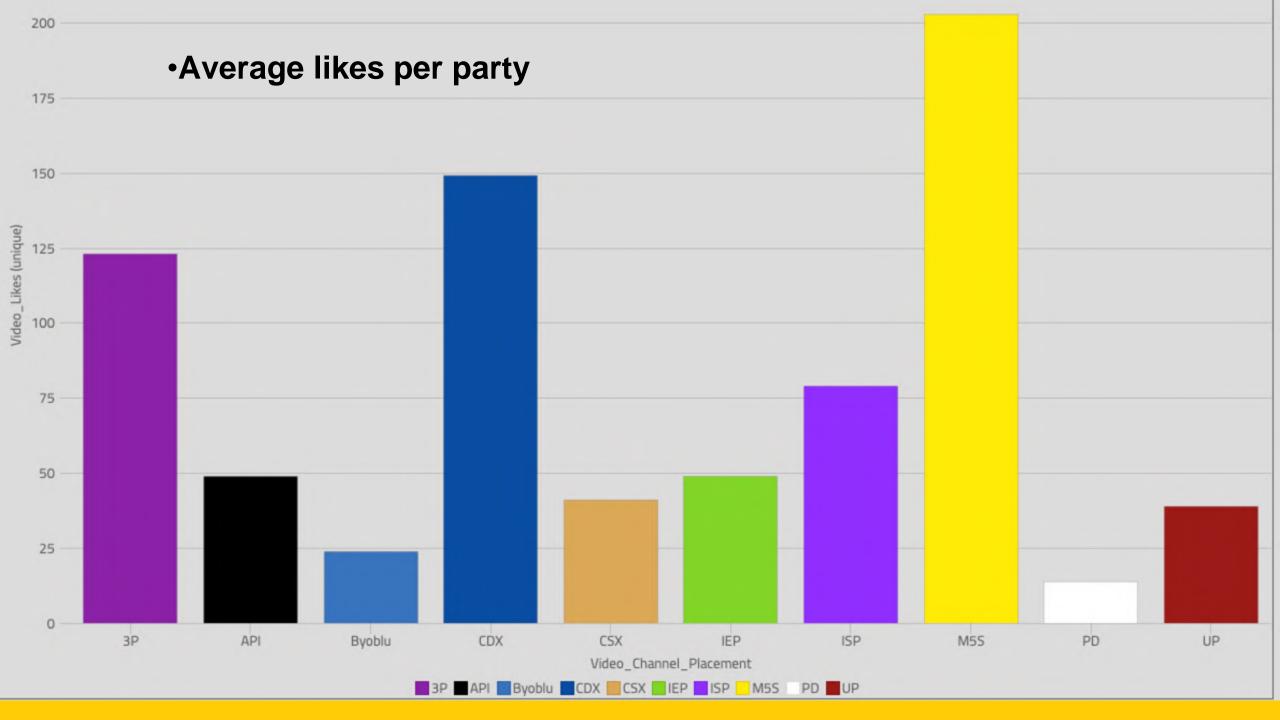
Different voices on different platforms





Youtube

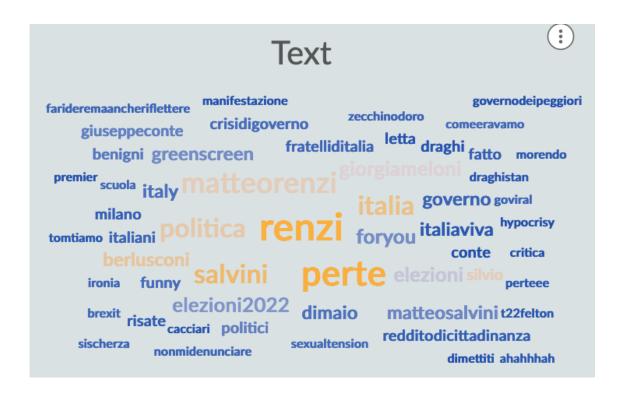


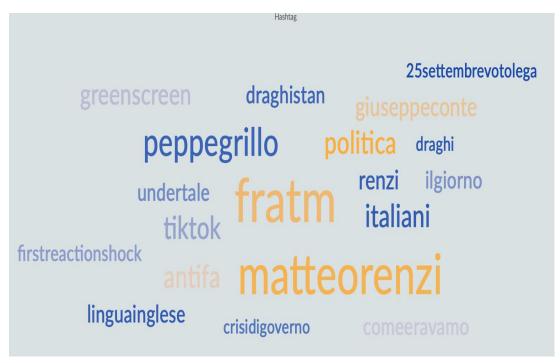




Will TikTok make a difference?

On the 1st September, Renzi, Berlusconi and Calenda joined TikTok, while Salvini and Meloni had an account since 2019...







Who talks about polls' results the most?





Towards multimodal Media Literacy

Do you know what emojiis such as (IT) 📅 mean?

User 🛱

"il #PD va distrutto. Dalla crisi nasce sempre una rivoluzione o un governo che confisca tutto. No #Monti #Italexit"

"The #PD must be destroyed. A revolution or a government that confiscates everything is always born from the crisis. No #Monti #Italexit"

User IT

"Il buonsenso prevarrà su tutto. No euro, no UE. No green pass."

'Common sense will prevail over everything. No euro, no EU. No green pass'

https://facta.news/storie/2021/02/19/chi-sono-i-mattonisti-e-come-manipolano-il-twitter-italiano/https://www.rollingstone.it/politica/putin-town-and-z-boys-analisi-dellitalietta-fascia-rossa-bruna-

boh/642131/#Part1







https://twitter.com/lele09011975/status/1567032797159727105

Against Twitter policies

"repeated and / or non-consensual insults, epithets, racist and sexist expressions or other content that degrades someone"

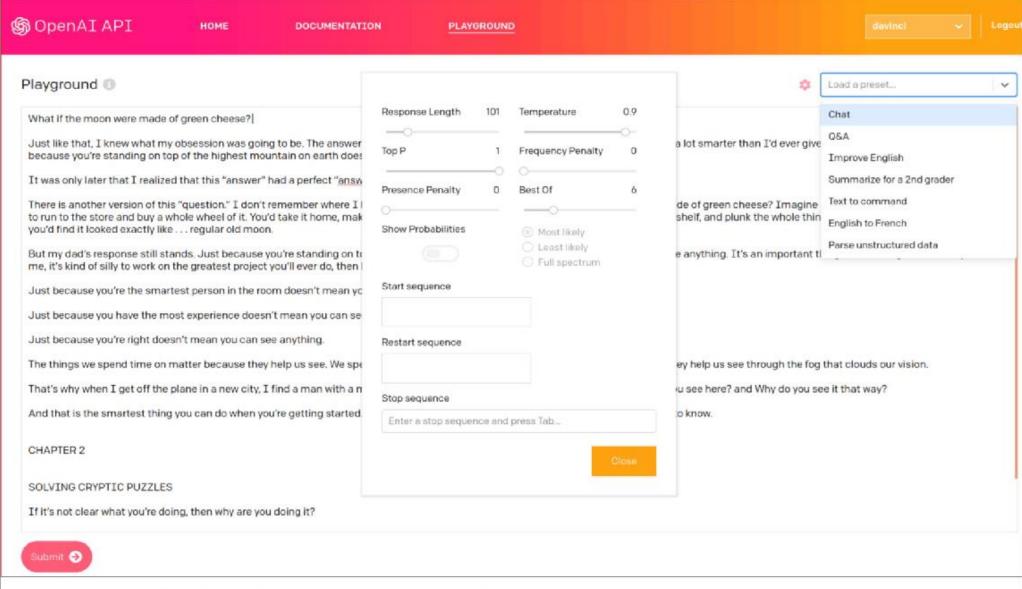
"We prohibit targeting others with insults or other repetitive content that is intended to dehumanize, degrade or reinforce negative or harmful stereotypes about a protected category. This includes targeted misgendering or deadnaming of transgender individuals."



Open AI & the the GPT-3 revolution

GPT-3: 175-billion parameter pre-trained language model for language generation

- autoregressive language model based on deep learning:
- predictions are made step by step and the result of one prediction is used as input for the next prediction
- ❖ A learning revolution: Few-shots learning: no need for annotated training data
- A plethora of applications from language translations to generation of articles, codes and works of art
- e.g. DALL·E: a 12-billion parameter version of GPT-3 trained to generate images from text descriptions, using a dataset of text-image pairs.



OA API Beta Playground UI & available prewritten prompts/sampling options



PROPAGANDA GPT-3 made...

Write a piece of propaganda as if you were Giorgia Meloni. "You have to vote Brothers of Italy in the next elections because...

We are the only ones who can guarantee the safety of the country and the protection of the traditional family. We are the only party that truly defends the nation and European values. We will always protect the traditional family, the rights of children and women. There is no future for Italy except in our hands.

Write a piece of propaganda as if you were Matteo Renzi. "You have to vote ItaliaViva in the next elections because

This way is the only viable one to be able to make a concrete contribution to building a new future for Italy. ItaliaViva is committed to making Italy a modern and competitive country, capable of attracting investments, creating jobs and protecting the rights of citizens. We want an Italy that focuses on the growth and well-being of its citizens and that is a protagonist in the world. For this reason, it is important that you vote ItaliaViva in the next elections. Because only in this way can you be an active part of the change that Italy needs.



European | MEDIA AND | INFORMATION | Fund

Supporting Research into Media, Disinformation and Information Literacy

"Leveraging argument technology for impartial fact-checking (LATIF)"









Research Questions

- •R1: What does impartiality mean for the fact-checking process?
- •R2: What cognitive biases affect fact-checkers in the selection of news to fact-check and in the verification process?
- •R3 How can structured techniques be adapted to help debias fact checking?
- •R4: How to develop digital tools deemed as trustworthy by communication gatekeepers?
- •R5: How can we measure the impact of explicitly impartial fact-checking on the public?







Ministero degli Affari Esteri e della Cooperazione Internazionale

COLLABORATION

Collaboration with the Ministry of
Foreign Affairs and International
Cooperation on the joint operation of
disinformation in Italy







COLLABORATION /RESEARCH

- Collaboration with **Istat** and **Fao** as disinformation and misinformation partners
- Research project ""Leveraging argument technology for impartial fact-checking (LATIF)" with University of Liverpool and University of Dundee (European media And Information Fund)

MEDIA LITERACY

- Hackhathon for university and high school students in collaboration with the Ministry of Education;
- Chatbots to educate on media literacy and the study of its impact on users







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Information is our first instrument to defend our freedom

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