



POLITÉCNICA

*Cátedra Ingeniero General D. Antonio Remón y
Zarco del Valle*



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Universidad Politécnica de Madrid

Centro Superior de Estudios de la Defensa Nacional

gsi
UPM

Análisis de redes sociales y control de la información

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Peligros de las redes sociales



66% europeos

encuentran al menos una noticia falsa a la semana

80% europeos

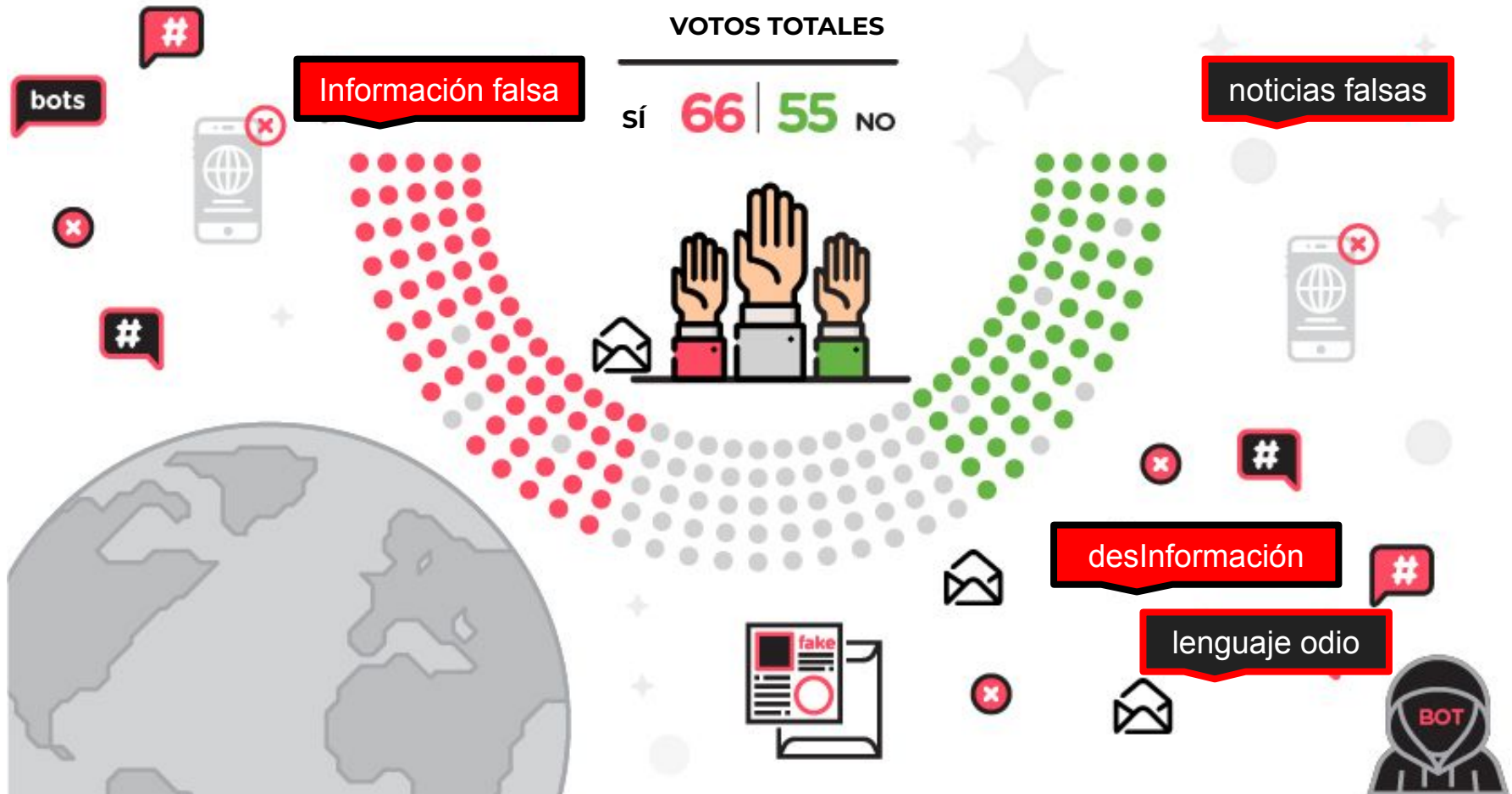
ven las noticias falsas como un ataque a la democracia

50% europeos

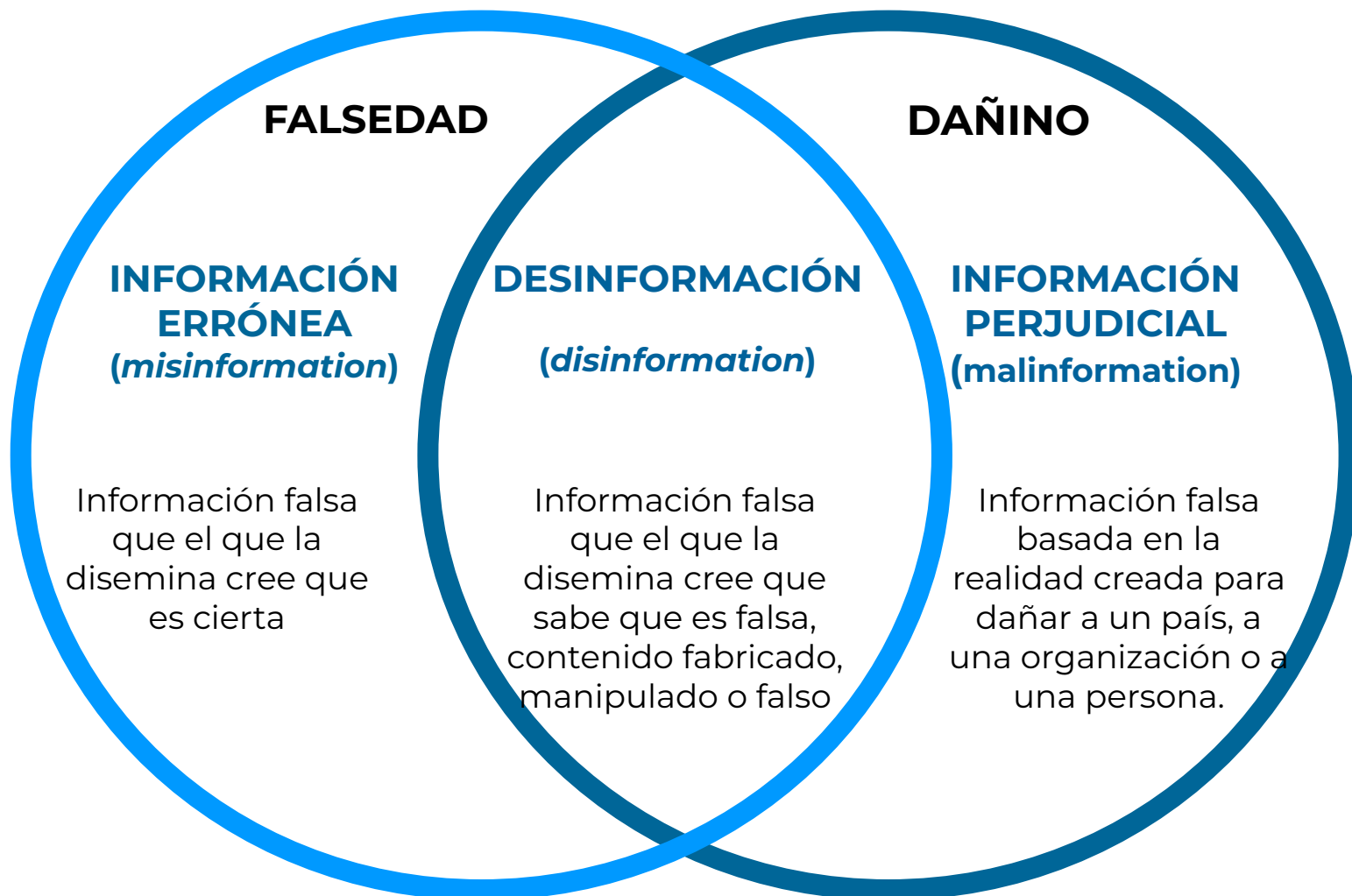
Entre 15-30 años necesitan habilidades para combatir las noticias falsas

Fuente: Flash Eurobarometer, 2018

Control de información



Tipos de desinformación



Efectos

Información
erronea

sesgo

ciberanzuelo
(*clickbait*)

Desinformación

propaganda

noticias falsas
(*fake news*)

Información
dañina

lenguaje del odio

Malos usos de IA en desinformación

▣ Generación de noticias falsas

- ▣ Deep fake, RRNN generativas antagónicas
- ▣ Modelos de texto basados transformadores GPT-2

▣ Difusión de noticias falsas

- IA-Bots, cyborg (humano-IA)
- 18%-66% de tráfico de Twitter generado por bots
- Potencialmente: adaptar noticias a usuario, ... pero normalmente técnicas sencillas

Fuentes:

DC, E. (2019). Automated tackling of disinformation-Major challenges ahead.

Kim, B., Xiong, A., Lee, D., & Han, K. (2021). A systematic review on fake news research through the lens of news creation and consumption: Research efforts, challenges, and future directions. *Plos one*, 16(12)

Bontridder, N., & Pouillet, Y. (2021). The role of artificial intelligence in disinformation. *Data & Policy*, 3.

Hajli, N., Saeed, U., Tajvidi, M., & Shirazi, F. (2021). Social Bots and the Spread of Disinformation in Social Media: The Challenges of Artificial Intelligence. *British Journal of Management*.

Assenmacher, D., Clever, L., Frischlich, L., Quandt, T., Trautmann, H., & Grimme, C. (2020). Demystifying social bots: On the intelligence of automated social media actors. *Social Media+ Society*, 6(3), 2056305120939264.

Buenos usos de IA en desinformación

▣ **Enfoque Macro**

- entender cómo influye la desinformación en un evento (ej. Brexit)

▣ **Detección de desinformación**

- ▣ Textos y medios falsos, RRNN generativas antagónicas
- ▣ Colaboración con verificadores de hechos

▣ **Detección de amplificadores (bots)**

- ▣ Análisis redes sociales, aprendizaje automático

▣ **Detección de fenómenos**

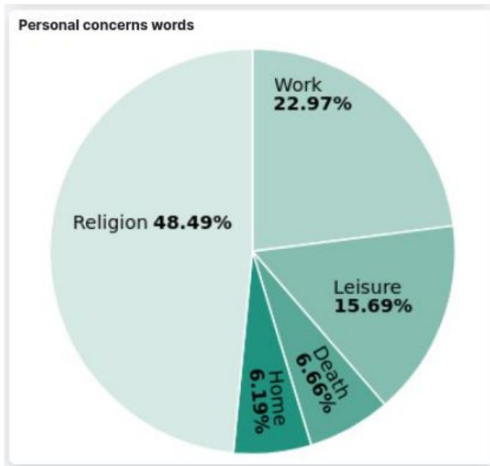
- ▣ Radicalización, rumores, lenguaje del odio
- ▣ Aprendizaje automático, PLN

▣ **Reducir daños (contener propagación)**

- ▣ Simulación basada en agentes, modelos epidemiológicos

H2020 Participation

- Monitorizar radicalismo y propaganda en redes sociales y campañas para educar a los jóvenes



Participation Extremism and Radicalization plugin

Highlight the text you want to analyse

propaganda

Start Detection!

Propaganda
Not Propaganda

A Statement about the Martyrdom of Sheikh Anwar Al-Awlaqi and His Comrades

The Blood of the Martyr

يسو الله الرحمن الرحيم

All praise be to Allah, the Lord of all that exists, and may peace and blessings be upon our Messenger, Muhammad, and his family. To proceed, We affirm to our Mujahid Ummah which has risen against injustice the martyr Anwar bin Nasir al-Awlaqi. His martyrdom as well as that of his comrades, Abu Mahasin al-Ma'rifi, Sameer Khan and Salim al-Marwazi, may Allah have mercy on them all, was a result of an American airstrike in an area Islamic preacher was killed while he remained firm in the path of Da'wah and Jihad, while both global and local pressure were unable to cause him to retract from it, despite lengthy attempts of seduction and threat, and who achieved victory, by his beliefs, as remaining firm on beliefs is the true victory. He died upon his beliefs, as we reckon. This is a characteristic of the Muslim Ummah; their leaders do not die on their beds. The honor of the prophets are martyred. Has any true call or the nation ever lived without sacrifices? If not, then we are an Ummah which never dies. Rather, it is victorious, it lives, and it perseveres, because death gives it life! The Amer, Al-Awlaqi and Sameer Khan without any brought proof of allegation, and they presented no evidence according to their own criminal laws of "freedom." Where are their calls of freedom, justice, and human rights and free they contradicted their own principle, which they do daily, on which they claim their country was founded. America is the one who failed, as they did not abide by their principles, while the Sheikh proved victorious, as thus does America commit acts of injustice and aggression, killing on a daily basis. Indeed they have a dark history in the likes of these crimes, too lengthy to be recorded. They fabricate brazen lies in public, claiming justice. Their mendacious king makes a public appearance, stating that the death of Sheikh Anwar al-Awlaqi is a victory for the Yemeni people, because the Sheikh, according to him, killed many Yemeni people. But Oba found contradicting to the fact that he killed hundreds of the Sheikh's fellow tribesmen in Ma'alah and Rafadah, most of them women, children and the elderly, with the blessings and participation of the butcher of Yemen, Gardens, Allah willing, while leaving behind for the Ummah a clear and pure ideology, a distinguished style, and a path of Da'wah and Jihad which the Ummah can adopt to their march towards honor and victory. Yes, A him, but they can never kill his ideology. Rather, the martyrdom of the Sheikh is a new and revived life of his ideology and style. The Sheikh has students which he taught, and students which have benefited from him in following his tracks, continuing on the straight path, the path of the Prophet sallallahu alaihi wa sallam. As for American politicians, people have become accustomed to the fact that whenever they kill a leader of Islam, imagine things, saying that they have finished off Islam or the Muslim Ummah, that the Muslim Ummah is now impotent, or on that day they have achieved a great victory by killing such-and-such Muslim. Indeed it is so and a magnificent religion. They are fighting the Nation of True Monotheism (Tawheed) and Jihad. How on earth can they think to break its resolve? These patchy techniques, as well as the injustices of America against the entire world; are not common support or one of the idol tyrant rulers, its proxies in various regions, have led Muslim masses to revolt and step into the fields, in outright refusal of the idiotic policies of America, their injustices against the entire world, and their support of their proxy rulers who they have placed over neck. By Allah's Grace, America was slapped in Egypt when the revolutionaries refused to meet the U.S. Secretary of State. Then, they were given another slap in Libya, the land of Jihad. Now, they can only stand and watch the Muslim people of Syria, unable to do anything the uprising in Yemen, who condemn and object to the ways of America, refusing to accept American interference, all of course except the opposition party, who by Allah's Grace do not represent the majority, nor do they have any strength on the ground. Our Yemeni revolutionaries indeed you left your homes in pursuit of freedom, justice, and in refusal of U.S. interference. You must state your firm decision about these flagrant and shameless transgression of airspace and these continual airstrikes against the best of your people, a the helpless from your women, children and the elderly. You must shout in the face of all those who have been appointed by America, just as you now shout in the face of the agent Ali Saleh, as by Allah they are two sides of the same coin. Are our calamities due to anyo than America and their proxies? Ali Abdullah Saleh has taken America as a lord besides Allah. It is they who support him and grant him legitimacy, standing by his side for now thirty years! Our Yemeni revolutionaries! Indeed you must make your liberation from America the refusal of American plans for the region, and support for the people of Iraq, Afghanistan and Palestine against American occupation goals of your revolt as well. Our Yemeni revolutionaries! You have brought on a bright dawn against the proxy agent Ali Abdullah Saleh must bring on one more dawn against American interference in the region. In conclusion, we ask that Allah grants us and you the best of consolation, O tribe of Awlaqi, for the assassination of your son, the magnificent, noble, brave and heroic, unjustly killed Sheikh Al-Nasir al-Awlaqi. While just yesterday, the Mujahid Sheikh, Muhammad bin Umar al-Kalbi al-Awlaqi was killed along with a large number of your women, children and elderly. The regime of Ali Saleh killed the Mujahid Sheikh Zayid ad-Daghari, which is an open sign of its making these defiant and freedom tribes a target due to their refusal to accept oppression, injustice and ignominy. O defiant tribes! Indeed the blood of the Sheikh and his comrades will not be spilled in vain! Indeed behind him there are heroes which will not turn their eye injustice. In soon, Allah willing, they shall exact revenge! Tell the tribe of Awlaqi that the best of consolation are the raves of the proud which cannot be muffled. We are at war with America, they inflict harms upon us as we do upon them, and the final end is for those who patiently persevere, and it is they who will prove victorious.

وَيَقُولُونَ مَتَى هُوَ قَالَ عَسَىٰ أَنْ يَأْتِيَنَّكُم مِّنْ عِندِ رَبِّكَ بَأْسٌ كَرِيمٌ

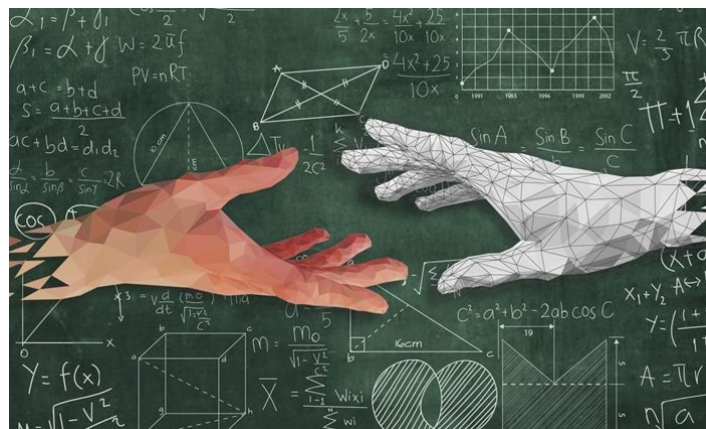
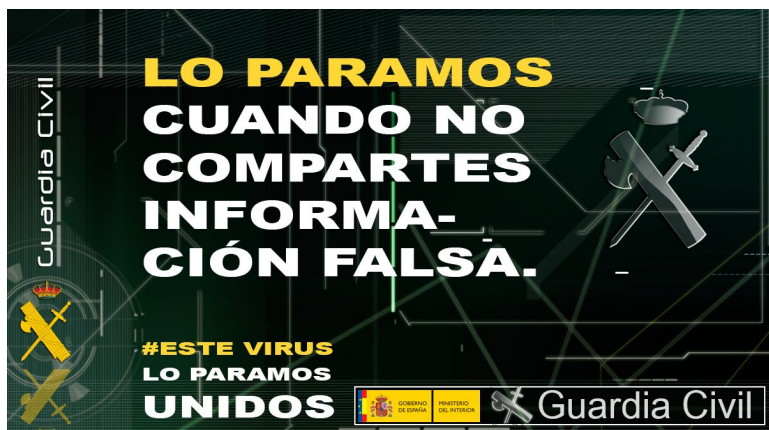
"And they say, 'When is that?' Say, 'Perhaps it will be soon!'"

Al-Qaeda Organization in the Arabian Peninsula
Dhu'l-Qa'dah 11, 1432
Source: Al-Fajr Media Center

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Retos

- ▣ Detección “explicable” de noticias falsas
- ▣ Cooperación humana-IA
- ▣ Limitaciones de las redes para la detección
- ▣ Educación sobre el consumo de información y el uso de Internet



Contact



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