# **CLASSIFICATION**

# FROM PICTORIAL TO DEEPFAKE PROPAGANDA: A STUDY OF VISUAL MANIPULATION ACROSS ERAS

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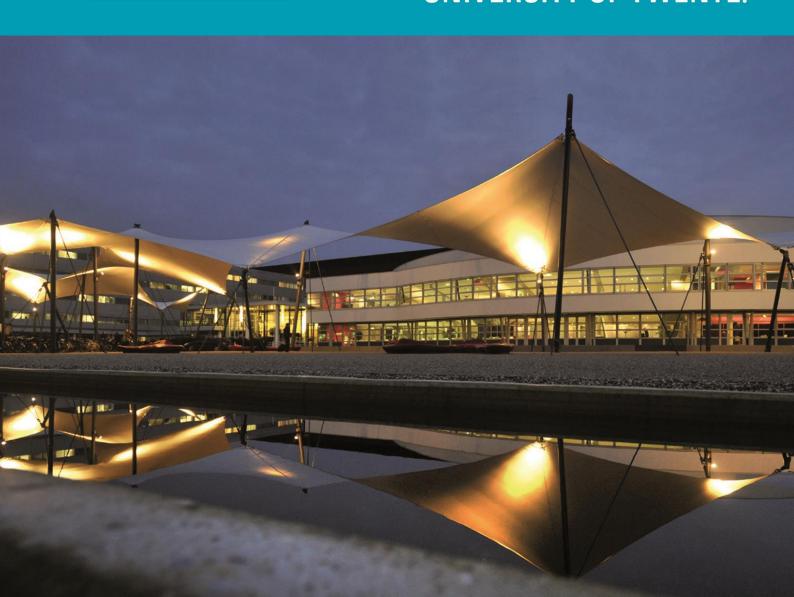
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#### **Abstract**

As governments and citizens alike are facing the challenges posed by deepfake propaganda, policymakers and legislators are falling behind. However, propaganda is not a new concept, pictorial propaganda, for example, has been used by governments for centuries. This paper will analyse older pictorial propaganda and discuss whether deepfake propaganda is a continuation or a break from pictorial propaganda. The research question posed is, *To what extent does deepfake propaganda constitute a break or a continuation of pictorial propaganda?* It is answered through a content analysis where three cases are investigated. The cases are Stalin's pictorial propaganda regime, the Obama deepfake video and the Zelensky deepfake video. The cases are analysed through ATLAS.ti. The findings show that there is a continuation in roots and manipulative intent in both types of propaganda, as well as a break in the aspects of impact, publishing and reach. Therefore, this study shows that deepfake propaganda can neither be generalised as a break or continuation. It is dependent on the perspective taken by the researcher. This research provides valuable insights into the nature of deepfake propaganda and adds to the discussion of deepfake resilience and the future impact of deepfakes.

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# 1. INTRODUCTION

#### 1.1 HISTORY

In an era where Artificial Intelligence (AI) blurs the lines between reality and fiction, deepfakes have emerged as a powerful and dangerous tool. The first deepfake video was published on Reddit (an online media platform) in 2017 (Masood, Nawaz, Malik, Javed, & Irtaza, 2021). Deepfakes have changed rapidly over the past years. They are today easily accessible and cheaper than in 2017. In addition, there is an increase in the spread and use of deepfakes on different social media platforms. But deepfakes are not merely an entertainment tool, they can create harmful situations and be used for political purposes. One research shows that in Germany 70% and in France 57% of its citizens are concerned with the threat deepfakes pose to democracy (Syvak, 2024). Although image manipulation is often seen as a new phenomenon because of the rise of deepfakes, it has a longer history in political propaganda. Nevertheless, a shift can be seen in the use of deepfakes in political and non-political influence (Masood et al., 2021). Deepfakes have already been used for political purposes for example in Belgium a political party produced a deepfake video of Trump seemingly meddling in the country's internal affairs (Galston, 2020). There is an increasing trend seen in the use of deepfakes in propaganda spheres.

As stated above, the manipulation of visual content for propaganda and political influence is not new and has been in practice for centuries. Where Stalin was one of the first to use it on a mass media scale to manipulate the population of the former Soviet Union (Blakemore, 2022). As Greengard (2019) says, "Deepfakes potentially represent the next frontier in propaganda wars." (p.2). So, the question arises if deepfake is the next frontier in propaganda wars, and what can be learned from the former frontier, image manipulation?

# 1.2 SCIENTIFIC AND SOCIAL RELEVANCE

The relationship between historical pictorial propaganda and modern deepfake propaganda is something that remains underexplored. While many studies do mention the history of deepfakes, few examine their continuity or break from older forms of visual manipulation used in propaganda (Albahar & Almalki, 2019; Greengard, 2019; Masood et al., 2021; Matthews, 2022; Westerlund, 2019). Some researchers do suggest an understanding of the historical influence of political decisions (Ghilani, Luminet, & Klein, 2022), highlighting the need to further investigate past propaganda so it may help us navigate the emerging challenges of modern society.

There is a lot of confusion and uncertainty around deepfakes and their potential harm. It affects citizens and governments all over the world through either increasing distrust in democracy or gaining control in a totalitarian regime (Syvak, 2024). According to the Guardian; Germany, the UK, France, Ireland,

and Italy have all seen deepfakes in political situations (Quinn, & Milmo, 2024). The question that arises is whether this deepfake phenomenon is something new or if it is the continuation of pictorial propaganda that has been used for centuries. And if it is a continuation, what could society learn from history, how is pictorial propaganda tackled, and what were the consequences? It is relevant to uncover this because of the growing uncertainty surrounding the deepfakes. In addition, the development of deepfakes is rapid, but the legislation is still behind (Owen, 2024 & Quirk, 2023).

This research analyses the use of old frontier pictorial propaganda and deepfake propaganda, providing the comparative angle that has yet been lacking to add a valuable angle to the current conversation on how to deal with deepfake propaganda. This paper seeks to understand the relationship and the specific manifestations of deepfake propaganda, which is crucial for addressing the potential societal impact of deepfake propaganda in the political sphere. The results of this research will, therefore, add to the resilience of governments and citizens to manipulation and distrust created by deepfakes.

# 1.3 RESEARCH OUESTIONS

To close the knowledge gap, the main question is, "To what extent does deepfake propaganda constitute a break or a continuation of pictorial propaganda?".

To answer the main question, four sub-questions were formulated.

#### (1) What is the origin and development of pictorial propaganda?

This question is raised to gain a deeper understanding of pictorial propaganda. To evaluate whether deepfake propaganda constitutes a continuation or a break, it is essential to first trace the historical tendencies and key features of pictorial propaganda. By uncovering these patterns through the analysis of historical examples and theoretical discussions, this question helps establish a framework for interpreting how propaganda has evolved in different historical and political contexts. Additionally, understanding past continuations sheds light on the key features necessary to examine future developments, creating a context for the broader research question.

#### (2) What is the meaning of deepfake propaganda as pursued by contemporary government?

By answering this question, the tendencies of deepfake propaganda are uncovered. It will give a better understanding of the contemporary use of deepfake pictorial propaganda in modern society. Understanding how deepfake propaganda is used today establishes a foundation for comparing it with historical pictorial propaganda. By analysing its current applications, this research identifies key features and strategies that distinguish or align deepfake propaganda with its historical counterpart. This analysis

not only contextualizes the contemporary use of deepfakes but also allows for a more comprehensive comparison, shedding light on the evolution and potential future trajectories of propaganda practices.

(3) In what ways does contemporary deepfake propaganda diverge from older pictorial propaganda cases in their political expressions?

The focus of this question will be on understanding how contemporary political propaganda differs in its intent and political expression. By examining the tendencies and uses of both forms, this research aims to highlight the key distinctions in their objectives, methods, and impact. Analysing these differences provides deeper insight into how political expression in propaganda has evolved, offering a basis for understanding whether these changes signify a break or a continuation of historical practices.

(4) In what ways does deepfake propaganda signify a new meaning of propaganda?

This question aims to see if deepfake propaganda introduces a shift in how propaganda operates or is perceived. By comparing and analysing deepfake propaganda against historical examples, this research aims to uncover whether deepfakes introduce new dimensions to the meaning of propaganda, offering a deeper understanding of their implications in contrast with traditional forms.

# 1.4 RESEARCH APPROACH

To answer the main research question, an interpretative research approach is the most suitable method. It seeks to understand and interpret the manifestations of pictorial propaganda and deepfake propaganda. Through this interpretative lens, the aim is to analyse these phenomena and draw conclusions about their relationship.

This interpretative research puts emphasis on the interpretation of sources, such as pictures and videos, to uncover deeper insights into historical propaganda techniques and the contemporary use of deepfakes. In this research, a literature analysis is employed to explore how deepfake propaganda relates to pictorial propaganda. The study uses ATLAS.ti to code and analyse different sources systematically. These sources include scientific papers, historical articles, newspapers, and contemporary media. By interpreting these materials, this research aims to identify and evaluate how deepfake propaganda serves as manifestations of pictorial propaganda.

The content analysis facilitates the systematic exploration of these manifestations, allowing a nuanced interpretation of the data. Ultimately, this approach enables the research to draw meaningful conclusions about whether deepfake propaganda represents a continuation of or a break from traditional pictorial propaganda.

# 2. THEORY

# 2.1 INTRODUCTION

As mentioned in the introduction chapter, pictorial propaganda has long influenced society. This chapter delves deeper into its effects, discussing various theories and concepts of propaganda. Additionally exploring the theoretical framework and empirical findings that are analysed in both historical and contemporary manifestations of propaganda. By discussing the theory and concepts it establishes a foundation for determining whether deepfake propaganda represents a continuation or a break from historical pictorial propaganda.

It begins with the concepts of propaganda, its definitions, theories, history and political influence. Then it focuses on pictorial propaganda, its historical roots, and the evolution of pictorial propaganda as a tool for political influence, drawing on key theories, and scholars. Next, deepfake propaganda, introduces theories on digital manipulation, the rapid advancement of artificial intelligence, and their implications for modern political and societal structures. Finally, these perspectives are compared to highlight the differences and similarities. By developing this theoretical foundation, this chapter provides the interpretative lens necessary to analyse the manifestations and differences between deepfake propaganda and historical pictorial propaganda.

# 2.2 THE CONCEPT OF PROPAGANDA

The concept of propaganda has a lot of different meanings and can be researched in many ways. The Oxford Handbook of Propaganda provides thirteen propositions, see Appendix I (Auerbach & Castronovo, 2013). These thirteen propositions were made by Auerbach & Castronovo (2013) for the analysis of multiple papers on propaganda. The reason for choosing these propositions is because they are broad and help with keeping an open mind during this research, as they explain: "These propositions are intended to be expansive and suggestive rather than definitive, helping to move forward a topic that all too often has been bogged down and narrowed by categorical and repetitious preconceptions." (Auerbach & Castronovo 2013, p.4). These propositions give a guideline for this research in propaganda and will be considered during the execution process of the research.

The Latin meaning of propaganda is: "the propagation of a particular doctrine or practice" (Independent, 2010). It is important to note that propaganda can be seen differently depending on the medium, the communication, the aim, and the context. Le Bon's (cited in Auerbach, & Castronovo, 2013, p.9) research concluded that words and images could manipulate people into doing things as a group that as individuals they would never commit to.

The focus of this paper is on political propaganda. Two of the major researchers in the propaganda field are Harold Lasswell and Jacques Ellul, they had a different stance on the definition and the use of propaganda. Harold Lasswell is regarded as the founding father of propaganda theory; he first conceptualized propaganda in 1927 as *The management of collective attitudes by the manipulation of significant symbols.*' (p.627). He distinguishes between general propaganda, which serves various purposes, and political propaganda, specifically aimed at shaping collective attitudes (Lasswell, 1927). Lasswell argues that the propagandist's intention determines the nature of the propaganda itself (Lasswell 1927, p. 629). Lasswell also believes that propaganda can be positive, fostering favourable attitudes toward certain subjects. For Lasswell, propaganda has become institutionalised in modern democratic systems, particularly through mass media and advertising, serving as a tool for elites to maintain social stability (Lasswell, 1927). Lasswell does acknowledge the interference of propaganda on the irreplaceable "dialogue" in society on which democracy depends, and the tensions this brings. However, he also argues that democracies heavily depend on propaganda. Furthermore, Lasswell believes that there would be no revolutions without any propaganda (Merelman, 1981, p.487).

Ellul opposes Lasswell by arguing that the elites-driven propaganda undermines personal autonomy, by embedding itself in myths that manipulate individuals, even educated intellectuals, without their awareness (Auerbach & Castronovo, 2013). Ellul further argues that there are different categories of propaganda. When thinking of political propaganda, one might think of (1) *political*, organised with a target; (2) *agitational*, people act on it; (3) *vertical*, top-bottom, the top decides the bottom is commanded; and (4) *irrational*, it appeals to myths and emotion (Ellul 1973, p.62 as cited in Auerbach & Castronovo, 2013, pp.351&352). There are also four less-known categories: (1) *sociological propaganda*, (2) *integration propaganda*, (3) *horizontal propaganda and* (4) *rational propaganda*. Ellul makes the distinction between propaganda and sub-propaganda, where the latter operates beneath the surface, shaping the public's consciousness over time (Auerbach & Castronovo, 2013, pp.351&352). To add, Ellul supposes that for propaganda to have an effect, there already needs to be a pre-existing narrative as a foundation.

Brown (2006) categorizes Ellul and Lasswell in two different categories from a propagandic perspective. He suggests that Ellul falls under the moralist perspective, which views propaganda as inherently misleading and ethically wrong. In this perspective, propaganda has the infernal power that lies in its ability to manipulate an entire population without their awareness. Lasswell, adopts a neutralist stance considering propaganda as a natural process of persuasion, inherent to human behaviour and communication. The neutralists question the measurable impact and what propaganda can realistically achieve, rather than viewing propaganda as inherently manipulative.

To summarize multiple different perspectives as to how propaganda is understood, two of them are the neutralist view and the moralist perspective. It is important to understand these perspectives to

understand propaganda and its nature. In Appendix II an overview is given of the differences and similarities between Ellul and Lasswell.

# 2.3 THE CONCEPT OF PICTORIAL PROPAGANDA

In the 19<sup>th</sup> century, newspapers and magazines started using illustrations in their weekly papers. The people in America accepted this medium with a lot of enthusiasm. The artist and publishers had a major effect on shaping public opinions with these illustrations (Thompson, 1962). From the 1980's the majority of the public relied on news by images. Later, these illustrations turned into photographs.

According to Rawls, (1993, as cited Walton, 1997) when a politician addresses a mass audience and tries to accept the view of the so-called politician, their speech should appeal to the form of reasoning of common sense. Rawls views this as a rational and useful discourse in mass communication (Walton, 1997). However, scholars like Le Bon (1896 cited in Walton 1997) are sceptical, arguing that the public is more impressed by images and thus is not influenced by the reasoning of common sense, highlighting the difference between image-based and speech-based propaganda (Le Bon, 1896 cited in Walton, 1997).

One of the first records of image manipulation in politics dates to 1852, when Abraham Lincoln's head was placed on the body of John C. Calhoun, creating an influential image that shaped public perception (Masood et al., 2021), see Figure 1. While pictorial propaganda, such as the picture of Abraham Lincoln, figure 1, has been in politics for a long time, it gained mass use during the rise of political posters in WWI, appearing in both totalitarian regimes, like Nazi Germany, and democratic regimes, such as the United States (Independent 2010). As Jowett & O'Donnell (2018) note, pictorial propaganda can either support or undermine democratic values. Pictorial propaganda is used in the political sphere for several different reasons such as the legitimisation of representation or delegitimise an enemy. Murphy (2019 highlights that picture manipulation, such as Photoshop, is seen as something common today, it can affect the public in the hands of someone powerful. He also noted that when adding something to a photograph, it creates a new reality, but removing something from a photograph removes the context in which the picture is taken. In addition, according to Dauber & Winkler (2014 p.219), humans do tend to look at photographs and tend to believe what they see is the truth.



Figure 1: Abraham Lincoln (Left) manipulated picture, with John C. Calhoun (Right) (Credit: The Library of Congress)

Pictorial propaganda, and image manipulation, have a long history. In the 1920s, during the Bolshevik Revolution, Leon Trotsky was removed from photographs after he was ousted from the party. This was done by skilled artists using tools like razors and airbrushes to alter historical records, a time-consuming process (Hofer & Swan, 2005, p.292).

In the modern digital age, humans are constantly showered with a vast array of visual stimuli. However, not all visual images are equal in our minds. While images can have powerful effects, as noted by Lasswell (1927), research warns against overgeneralizing their impact (Dauber & Winkler, 2014). The effects of images are often nuanced, depending on factors like audience and context (Dauber & Winkler, 2014). Still, images can have an all-powerful effect when for example, the key decision-makers act on an anticipation of the effect of the picture (Dauber & Winkler, 2014, p.221).

In summary, over the last couple of centuries, propaganda has changed and evolved in different mediums, one is pictorial propaganda. It started as illustrated pictorial propaganda but then changed to image (picture) pictorial propaganda, becoming the new propaganda medium. Earlier pictorial news was accepted by the public without much hesitation, however this has changed, and the overgeneralization of the impact also brings problems. Scholars like Le Bon (1896) highlight that visuals tend to impress audiences more than rational discourse, contrasting Rawls' emphasis on common-sense reasoning in communication. Pictorial propaganda has been historically used in political spheres, and it can shape public perception.

# 2.4 THE CONCEPT OF DEEPFAKE PROPAGANDA

In the modern time of social media and the internet, people still consume propaganda however, the possibility to produce and packaging their own information and spin their own truths is possible. The 9<sup>th</sup> proposition in Appendix I states that people can actively use propaganda, and it does not necessarily

spread top-down. Nevertheless, there are different ways to look at deepfake propaganda. In this section, the different scholars will be discussed, and their views on deepfakes will be addressed.

Historically, photographs and films were considered the closest representation of reality humans could get. In the modern digital environment, it is often easy, cheap and efficient to Photoshop still images; it can be done by anyone (Hofer & Swan, 2005, p.292). Now, the rise of a new medium called deepfakes - hyperrealist synthetic videos that humans and AI make. Deepfake is an increasingly common medium in information warfare and as a propaganda tool (Waiuta & Wasiuta, 2019, cited in Dacka, 2022, p.39).

In modern society, one out of five internet users get their news information from internet platforms like YouTube, Reddit and Facebook (Anderson, 2018 cited in Westerlund, 2019). Westerlund (2019) calls this modern time a "post-truth" era; it is an era of digital disinformation and information warfare by manipulating the public. According to this research, the game-changing factors of deepfakes are the scope, the reach and the sophistication of deepfakes. The research mentions that anyone with a computer can make a deepfake video. According to Westerlund (2019), there are four types of deepfake producers, "1) the communities of deepfake hobbyists, 2) political players such as foreign governments and various activists, 3) other malevolent actors such as fraudsters and 4) legitimate actors such as television companies." The first group is hard to track down. However, hobbyists and television companies mostly use deepfake in an entertainment role. But looking at the third and fourth groups, they use deepfakes as a way to manipulate and undermine the confidence of the public in the country's institutions.

Kietzmann et al. (2020) argues that deepfakes are successful due to their authenticity and accessibility. While deepfakes are not necessarily bad, they can be dangerous in the wrong hands, accelerating the spread and speed of propaganda and eroding trust in democratic institutions (Smith & Mansted, 2020). Smith & Mansted (2020, p.13) argue that "Deepfake technology will be a particular value-add to the so-called Russian model of propaganda, which emphasises volume and rapidity of disinformation over plausibility and consistency to overwhelm, disorient and divide a target.".

According to Gregor & Mlejnková, (2021, p.63), deepfakes are a new disinformation technology however they argue that it is a gradual step in the information manipulation rather than a break from the information manipulation. With the improving quality and accessibility of deepfake videos, there is a growing concern about what the abuse of this tool will lead to. Deepfakes can have an impact on trust and democracy in the information media and social media landscape (Gregor & Mlejnková, 2021).

To conclude, deepfakes mark a significant shift in the landscape of propaganda and disinformation due to their realism, accessibility, and extensiveness. Deepfake propaganda continues to erode public trust in governmental institutions and political leaders. Additionally, deepfakes are seen as a new medium in image alteration, the danger lies in the use of social media platforms, which can have wide and quick

reach. It can seek to decrease trust or increase the legitimization of certain groups. However, some argue that deepfake propaganda does not have to be bad, it depends on who it uses.

# 2.5 PICTORIAL PROPAGANDA VS. DEEPFAKE PROPAGANDA

This section examines various studies and theories to assess, through existing scientific research, whether deepfake propaganda represents a continuation of or a break from historical pictorial propaganda. To make this comparison, it is important to understand the evolution of propaganda techniques and their implications. First, different arguments that deepfake is a continuation of pictorial propaganda are discussed. Then, there will be a discussion that deepfake is a break.

Many main characteristics of deepfake propaganda are rooted in the historical practice of propaganda. There are shared objectives, one of them is that both practices aim to influence public perception, delegitimise opponents or legitimise their own goals, and manipulate emotions for political and social gain. Hägle (2022) notes that deepfakes can soon be a progression of "face swaps" where one face is swapped by another the only difference is that "face swaps" are static and turn deepfakes into a dynamic phenomenon.

Furthermore, the techniques of visual manipulation are something deepfake and pictorial propaganda rely on. The altering of visual content to present fake realities was at first just Photoshop tools, but now deepfakes use AI. The tool changed, but the underlying principle of convincing the audience through visual manipulation remains the same. And both play into the public that trusts visual evidence.

Another shared concept between deepfake and pictorial propaganda is to control and influence public opinions by either trust or distrust. It seeks to legitimise or delegitimise certain aspects of politics, such as institutions, political leaders or legislation.

For a long time, the person doing the manipulation was constrained by knowledge, tools and expenses, they needed specialists, but now it is almost fully automated with deepfakes (Hägle, 2022, p.207). Any hobbyist can make a deepfake quite easily (Westerlund, 2019). Not only has the technology to make manipulated images changed but also the reach and scale of impact of these deceptions has become increasingly more due to the global nature of modern society. It costs almost no effort to reach an infinite number of people. Anyone can make deepfakes and share them on social media with a big public while in pictorial propaganda the propagandist had to rely on different media outlets to spread propagandic manipulated pictures in order to reach an audience. In addition, it costs a lot of energy and time to change a picture with pictorial propaganda but not with deepfake, the need for excessive tools disappears. The threshold to make and publish a manipulated image or video has disappeared when comparing pictorial propaganda and deepfake propaganda. Next to this it is easier for a foreign government to insert deepfakes into an opposing country's media system. As stated above according to Westerlund (2019)

political players such as foreign governments and various activists, are one of the major producers of deepfake. Foreign governments don't have to go to publishers who mostly work for their government but can now just post it on social media platforms used in that country. This changes the scale in which information warfare exists.

In summary, the aim of the propaganda has stayed the same, to manipulate and delegitimise certain political leaders or legislation. The roots of the medium are the same, the manipulation of images. What changed was the scale on which it was possible to spread these images and who could manipulate them.

# 2.6 CONCLUSION

This chapter generated the following theoretical insights;

- 1) The producers of pictorial propaganda and deepfake are different. Though, for both the following applies: who makes the propaganda decides the course of it, good or bad.
- 2) The aim and roots of pictorial propaganda are the same as deepfake propaganda. Both erode the public trust in the governmental institutions.
- 3) The spread of deepfakes is bigger than that of pictorial propaganda.
- 4) Both still have a similar effect on the public trust in the country's institutions.
- 5) Deepfake propaganda is a continuation of pictorial propaganda.

# 3. METHODS

# 3.1 INTRODUCTION

This chapter gives the methodological approach used to analyse both historical and contemporary propaganda practices.

The first section describes the selected cases: Stalin's pictorial propaganda, the Obama deepfake, and the Zelensky deepfake. These cases were chosen for their relevance in illustrating different dimensions of propaganda, from historical image manipulation to modern deepfake technologies. The second section explains the method of data collection, which includes sourcing relevant visual materials, scientific literature, historical documents, and media reports to ensure a diverse range of sources and provide a foundation for the analysis. The final section is the method of data analysis, emphasising the use of content analysis with the tool ATLAS.ti. This section explains the approach and provides a coding scheme derived from the theoretical framework. This methodology lays the foundation needed to uncover the patterns and distinctions in the use of propaganda, to see whether deepfake propaganda continues or breaks from historical pictorial propaganda.

# 3.2 CASE DESCRIPTION

To make a relevant comparison between deepfake and pictorial propaganda, three cases were selected to analyse. These three cases will provide this research insight into deepfake and pictorial propaganda, the uses and effects are discussed below.

The first case is Stalin's use of image manipulation during his regime (Blakemore, 2022). Stalin's case gives a broad view of how propaganda has developed into picture manipulation, and how it is used on a great scale. Keep in mind that this manipulation of pictures is something that was also used in other regimes like Mussolini and Hitler (Malm, 2017). However, Stalin specifically is a good example of the use of picture manipulation. In addition, Stalin's use of propaganda has been broadly researched thus there is sufficient data available and accessible. Stalin used the manipulated images to either gain support for himself and his regime or to delegitimise other political figures. This case provides the lens of historical pictorial propagandistic use and its work throughout this historical period. It shows image manipulation in propaganda long before AI and deepfakes were possible.

The second case is the 2019 deepfake video of Barack Obama. This deepfake was made by Jordan Peele in collaboration with Buzzfeed, for educational purposes on the danger of deepfakes (Mack, 2018). In Appendix I, the 13<sup>th</sup> proposition states that propaganda can be used unintendedly. The deepfake video of Obama shows this intent. In addition, it showcases that with some easy edits, an educational purpose

can be taken away and misused, as was researched by Vaccari & Chadwick (2020). This case also gives a deeper insight into the reaction of participants to deepfakes. Additionally, this case will provide a scope and the evolution deepfake has been through in recent years. Furthermore, this case gives a perspective on the dependence of propaganda on the propagandist. Lastly, in this case the producers are hobbyists and entertainment media.

The final case analysed is the deepfake video of President Zelensky during the ongoing Ukrainian-Russian war (Twomey et al., 2023). This case shows the use of deepfake propaganda in the context of modern information warfare, particularly during a time of conflict. It highlights how deepfake technology can be weaponised to spread disinformation, destabilise morale, and influence public opinion. Notably, this case demonstrates the use of deepfake to target political leaders by using strategic manipulation for propagandistic purposes. This deepfake case is an example of the use in information warfare of deepfake propaganda.

These cases provide a framework for analysing how propaganda has been utilised across different historical periods and technological contexts. They represent three distinct eras: the pre-deepfake, the emerging deepfake, and the current deepfake eras. With these cases, this research aims to explore answers to the research sub-questions. For example, the Zelensky deepfake case shows how contemporary governments react to deepfake propaganda, helping to understand its role in modern times. Additionally, analysing these cases allows for a comparison between traditional pictorial propaganda and deepfake propaganda, shedding light on their similarities and differences. This comparison helps uncover patterns and tendencies in both forms of propaganda and see if deepfakes bring a new meaning to pictorial propaganda.

# 3.3 METHOD OF DATA COLLECTION

The data collection involves analysing multiple secondary sources. As the researcher was not able to collect data on the cases themselves due to the historical nature of the Stalin case and the locational barriers concerning the Obama and Zelensky case, it opted to conduct a secondary source collection. These sources mainly consist of academic papers and online articles. Search engines like Google, Google Scholar and the University of Twente Library are used to find relevant sources. To research the cases, multiple sources have been found. The keywords used to search for articles and data involve, but are not limited to; "deepfakes, deepfake propaganda, propaganda, pictorial propaganda, Stalin's propaganda regime, the Zelensky deepfake video, the Obama deepfake video"

As for the sources linked to Stalin's pictorial propaganda regime, this research collected six different sources. King (1997) provides a comprehensive 191-page analysis of various cases of image

manipulation during Stalin's rule. Rare Historical Photos (a) (2021) showcases eight examples of such manipulations, while Conquest (1998) details two specific instances of photo erasure by Stalin. Blakemore (2022) further explores manipulated images from this period, and Comrade Gallery (n.d.-b.) includes an example of a doctored photograph along its impact on citizens. Additionally, Rare Historical Photos (b) (2021) focuses on the Reichstag incident, offering a detailed case study of image manipulation.

The second case focuses on the deepfake of Obama, drawing on four sources. Mack (2018) presents the deepfake video and explains its purpose. Barari et al. (2021), in a 90-page study, examines the broader impact of deepfakes, including a case study analysing the detection rate of fake content. Vaccari and Chadwick (2020) contribute a 13-page research paper exploring the effects of the Obama deepfake when its educational context is removed, focusing on participant responses. Lastly, Greengard (2019) provides a concise three-page article discussing the Obama deepfake and its implications for society's epistemic trust.

The third case examines the deepfake of President Zelensky using five sources. Twomey et al. (2023) present a 22-page research article exploring epistemic trust in the era of deepfake videos. Boháček and Farid (2022) contribute an eight-page paper analysing the mechanisms of the Zelensky deepfake and assessing whether models can effectively detect such content. Akmeşe (2023) examines the search behaviour of individuals in Russia and Ukraine regarding deepfakes in a ten-page study. Simonite (2022) investigates the public response to the Zelensky deepfake video, while Byman et al. (2023) discuss deepfakes and international conflict in a foreign policy paper, dedicating approximately one page to the Zelensky case.

# 3.4 METHOD OF DATA ANALYSIS

This paper does qualitative research in which it interpreted text, papers, pictures and videos. More specifically this research conducts the method of content analysis. A content analysis is a form of interpretation and quantifying textual data, this research approach helps identify patterns, themes or biases and turn them into quantifiable variables so that further analysis can be done. Besides, content analysis is a tool that allows for longitudinal studies, as it gives the ability to analyse text and communication over a longer period of time (ATLAS.ti, 2024).

Certain criteria are linked to research using content analysis according to Neuendorf (2017). The first criteria is, the objectivity-intersubjectivity of the content analysis. A researcher should try to avoid any biases and aim to construct objective research. However objective research is socially agreed upon, and according to this, all human inquiries are subjective (Neuendorf, 2017). The second criteria is, that the

variables and measures have to be set well before starting the observation. Putting the research to such rules will help with the reliability of the research, and other researchers can then copy the method in content analysis. This research tries to use concepts which people agree upon to make sure the research is valid (Neuendorf, 2017). However, this research uses an inductive and deductive approach to the coding scheme. The general rules have been put down before coding, nevertheless while coding new coding keywords have been added make it more fitting to the subject it was coding to. Still, the coding scheme will be made available and can be copied to check the reliability of this research.

This research conducts a nomothetic approach; "It seeks to generate generalisable conclusions" (Neuendorf, p.15, 2017). In this content analysis, multiple cases are analysed in order to make a general conclusion of the continuation or a break on pictorial propaganda as a deepfake (Neuendorf, 2017).

Then, content analysis of the three cases, that are mentioned in the latter paragraph, will follow the following steps. First, as done in the chapters above, the theory is discussed. The content is examined, the context is explained, and the research questions are presented. Then, the conceptualisation is done: defining the variables that are studied. The next step is operationalisation, the measure in which the analyses will be done, that step will include a coding scheme. Then, via computer coding with an ATLAS.ti, the data will be examined. Then, codes will be assigned according to the coding scheme to see the frequency of the codes. Subsequently, a discussion of the findings is done. Lastly, a conclusion will be made. The content analysis allows for the qualitative data to stay in quality, but at the same time creates data for a quantitative analysis. In addition to that, this type of analysis can manage large volumes of (textual) data. Because a content analysis has clear methods, categories and coding, the research can therefore be reproduced to make it more reliable (ATLAS.ti, 2024).

A tool that will be used in this research for the content analysis is ATLAS.ti, which is where the papers will be uploaded and coded. The goal of coding a qualitative paper is to add to the interpreted meaning in order to later to detect the patterns or other analytical processes (Saldaña, 2021). The coding in ATLAS.ti is done with the coding scheme mentioned in Table 1.1. Furthermore, Charmaz (2001, as cited in Saldaña, 2021, p.3) argues that coding is a critical link for the data collection and understanding of their meaning. It is good to keep in mind that a pattern can have varying forms and can thus be characterised by similarity, differences, frequency, sequence, correspondences, and causation (Hatch 2002, p.155, as cited in Saldaña, 2021). One side of coding is that coding is a judgment call, a lot of things can influence a coding decision. When codifying, the attempt is to arrange words, text, pictures, etc., into a systematic order. Then, it is up to the researcher to interpret when to group certain codes (Saldaña, 2021). In the research, the coding scheme from below will be used to codify the sources, and conceptualize the variables that will be used in the study (Neuendorf, 2017). This coding scheme has been made inductively and deductively. In this coding scheme, deepfake propaganda and pictorial

propaganda are the categories, which are depicted in multiple characteristics. This will provide this research with adequate data to compare and analyse to answer the research questions.

Concept/ Category	Feature/	Keywords/	
	Code	Subcodes	
Pictorial propaganda	Image Manipulation	Black ink deleting, glueing and cutting, staged, airbrushing cropping of picture deleting of object, adding, edited photo, erasure of people.	
	Historical Context	Cold War, great purge , Stalin's regime, WWII,	
	Political propaganda	control, persuade, Delegitimizing, Legitimizing, glorifying, agitation, manipulation	
Publics Reaction u		uncertainty, fear, paranoia, Symbolism.	
	Publication	News paper, magazine, publishing houses, posters, Official publications, Stalin's Biography, history of the USSR.	
	Producers	Specialized artists, publishing houses, government, civilians	
		Realistic, easier, synthetic, software applications, Artificial intelligence.	
	Virality and uploaded platform	Ukrainian official website, VKontakte, Telegram, Went Viral, Online publication platforms, social media platforms.	
	Impact	Uncertainty because of deepfakes, distrust, misled, polarization, deception, decrease uncertainty, increase trust, scepticism, negativity, worry, shock, confusion, the lairs dividend, fear of deepfakes, solutions.	
	Producers Deepfake	Governments, non-state actors, professional actors, anonymous, skilled professionals.	
	Propagandic feature	Delegitimizing, not political propaganda, goals was to educate, manipulation of the people	

# 3.5 CONCLUSION

To determine whether deepfake propaganda is a continuation or a break from pictorial propaganda, three cases were selected to represent the pre-deepfake era, the emerging deepfake era, and the current deepfake era in politics. Using interpretative research, a coding scheme was developed to organise data and applied through ATLAS.ti to analyse text and visual materials. By coding these sources; patterns and features across cases were identified, such as public reactions: fear dominated Stalin's regime, while uncertainty prevailed in the deepfake cases. With the frequency of the codes, one can draw conclusions and make a comparison. Lastly, the research will compare the similarities or different features between historical pictorial propaganda and deepfake propaganda. By coding these sources with the coding scheme, an answer to the sub-questions, "What is the meaning of deepfake propaganda as pursued by contemporary government? In what ways does contemporary deepfake propaganda diverge from older pictorial propaganda cases in their political expressions? In what ways does deepfake propaganda signify a new meaning of propaganda?" can be formulated.

# 4. ANALYSIS

# 4.1 INTRODUCTION

This chapter analyses and compares the three cases to uncover how deepfake propaganda continues or breaks from pictorial propaganda, highlighting the key ambiguities and overlaps identified that are found throughout this study. To provide an answer to the research questions the chapter utilizes a systematic examination of each case individually, highlighting its key challenges and ambiguities in relation to the theoretical framework. Each case is analysed to identify its unique features, with a focus on pictorial manipulation, intention, production, publishing, and public reaction. Following this, the findings are compared across cases to draw out commonalities and divergences.

By situating the analysis within this comparative framework, the chapter aims to bridge the gap between theory and practice, demonstrating how the cases collectively inform the broader question of deepfake propaganda's role in contemporary political discourse.

# 4.2 STALIN'S PICTORIAL PROPAGANDA REGIME

This section discusses three main points that can be taken from Stalin's pictorial propaganda regime, firstly the use and intention of pictorial propaganda, secondly, the publishing and production of pictorial propaganda, thirdly the reactions of the people.

First, the use of pictorial propaganda in Stalin's regime. Propaganda during Stalin's regime was indicated to have multiple different purposes, which were supported by two main tools: adding and erasing. As Murphy (2019) highlights erasing something from a picture changes the context of this picture, however adding something creates a whole new reality, such as a companionship that never existed. In Stalin's regime, erasure was mostly utilized as a tool. However, the findings suggest the adding of certain scenarios and objects to pictures was mostly in link with the goal of legitimizing or glorify to exercise control over the population and to agitate and persuade the population. Thus, legitimising and glorifying were important for maintaining his image. Examples of this tool of adding are, the editing of pictures to improve his appearance and a picture with Lenin and Stalin, where they are sitting close and content-like companions. However, this companionship was not real, the picture was manipulated. Thus, creating a whole new reality displaying himself as a loved and admirable leader.

"At the same time, a parallel industry came into full swing, glorifying Stalin as the "great leader and teacher of the Soviet people" through socialist realist paintings, monumental sculpture, and falsified photographs representing him as the only true friend, comrade, and successor to Lenin, the leader of

the Bolshevik Revolution and founder of the USSR. The whole country was subjected to this charade of Stalin-worship" (King,1997, p.9).

However, the tasks of altering pictures varied a lot, from these described adding scenarios and objects to the erasure of people. Stalin's propaganda utilised the erasure of individuals to delegitimize enemies, personal as well as official. Thus, delegitimization was a central part of the pictorial propagandistic use in Stalin's regime. This practice went beyond just simply removing the person and his name; it went as far as removing the person from history and from all the pictures. By seamlessly filling in the gaps left by erased parts, Stalin's propaganda machine modelled a new perfect picture. Individuals vanished entirely from group photographs; their absence replaced by the continuation of the background. Pictorial propaganda gained control over history and over the citizen's knowledge. From removing a wristwatch on a soldier to making people completely vanish.

Second, the case of pictorial propaganda in Stalin's regime displayed a unique way of producing and publishing. The propaganda was published by Soviet Union publishing houses. By utilizing such publishing houses, Stalin's regime could spread the pictorial propaganda on a quick mass media scale. It was a tool to consolidate power. The producers of the pictorial manipulations in Stalin's time mostly worked to maintain the state's narrative. It created an atmosphere of control, where the state decides what could be posted and what not. According to King (1997, p.13) "photographic manipulation worked very much on an ad hoc basis. Orders were followed, quietly." So, it was an ad hoc situation where an order was quietly given from someone in command about how, who or what needed to be altered in certain publications, and this made it hard to trace the order back to one person. As to be expected from the theory, there is a vertical, top-bottom, command where the government controls the publisher, as defined in the propaganda theory by Ellul.

The different publishing houses that were mentioned in the literature were newspapers like *Pravda* (the official communist party newspaper), magazines such as *Ogonjok* and *Projector*, official biographies of Stalin, official state documents and educational textbooks. It did not stop at text or printed papers, but it extended into postcards, posters and other visual mediums. This idealized version of the state's narrative was distributed not only domestically but also internationally. Within the Soviet Union, every aspect of media was carefully curated to ensure the regime's narrative remained unchallenged.

The producers of the pictorial propaganda in the Soviet Union during Stalin's time were groups of specialised, skilled artists and designers who worked under the order of the regime. The Soviet regime used a big network of artists who could alter the photographs rapidly. As expected from the theory the skilled artist are the ones that physically altered the pictures, with razor and airbrushes, which is a time-consuming process (Hofer & Swan, 2005, p.292). As in the paper, Comrade (n.d.r) explained: "Their

methods were surprisingly sophisticated for the time, relying on a combination of darkroom techniques and physical alteration of negatives and prints.... These techniques required considerable skill and patience, often involving hours of painstaking work to achieve the desired result.". Despite this time-consuming labour-intensive nature of creating the desired political narrative, it was an effective method of its time.

Third, citizens lived in fear and paranoia with no possible way to engage in dialogue, which was linked closely to the strict media landscape in the Soviet Union. As Lasswell acknowledges in his propaganda theory, propaganda interferes significantly with public dialogue. However, not only did the propaganda interfere in the dialogue during Stalin's regime, but the censorship and fear, as the state was reliant on self-censorship if for example a book was already in personal belonging. To understand this self-censorship of the citizens there needs to be an understanding of the psyche of the soviet citizens. In the Soviet Union, an atmosphere of fear and paranoia was created among the citizens. The fear was mostly of being associated with one of the "enemies" of the government. If a picture was discovered there could be the risk of being associated with them.

""Such was the atmosphere of fear that families of those arrested and condemned were compelled to destroy even the image of their loved ones in their own personal records," writes biographer Helen Rappaport." (Blakemore, 2018)

This led to self-censorship of the citizens, often destroying or defacing their photos, books and magazines that contained images of the persons who had fallen out of favour with the government. This self-censorship was something the new generation grew up doing.

"In schools across the country, children were actively engaged by their teachers in the "creative" removal of the denounced from their textbooks."

King (1997, p.10)

This fear and paranoia that stretched all over the country caused people to doubt their own memory, and over time the fear was intensified by all the violence ravaging the country. Paranoia lived within the people, there was confusion about what had really happened and how. The confusion and fear became deeply rooted in society. As the paper Comrade mentioned "People became to question their own memories when confronted with contradictory "official" photographs, leading to a culture of self-censorship and paranoia". It was fear, doubt, and uncertainty that drove the citizens into self-censorship. This coincides with Le Bon's observation that visuals tend to impress the audience more

than the rational discourse and it also aligns with the propaganda view of Ellul that propaganda is irrational and appeals to myths and emotions.

# 4.3 THE OBAMA DEEPFAKE

The goal of the Obama deepfake was intended as a public service announcement to raise awareness about the potential harm of deepfakes and the rise of misinformation. Unlike politically motivated deepfakes, this video was produced to educate the public about the risks of misinformation and the rise of deepfake technology. This deepfake created a significantly important insight in how deepfakes are produced and their deceptive nature. It provides a unique example and a perspective on the implications of deepfakes.

"The goal was to help educate the public about the potential dangers of deepfakes" (Greengard, 2020).

Even though this video has been made to educate the public, its deceptive nature, before the disclaimer, sparked a wider discussion about the impacts of the deepfake. In the full video, the educational aspect was made clear, and Peele disclosed that it was a deepfake. Not only was the deepfake video misused by certain groups by removing the disclaimer at the end, but it was also used for academic studies to test the public's reaction to deepfakes. This dual nature matches the described theories in the theoretical framework. While argued by Lasswell that propaganda is not inherently bad and thus can be used in a way such as education, Ellul points out that it is still misleading and ethically wrong. Thus, propaganda is always inherently bad. This contrast is also found in the Obama deepfake. The deepfake was not intended to harm, however it did use tools to mislead the public to think Obama said something.

The deepfake was produced not by a political party or a government but by Jordan Peele, in collaboration with BuzzFeed. As could be expected from the theory different groups of producers in deepfakes exist (Westerlund, 2019). In the Obama case, the producer group is entertainment media. The manipulation of the video was achieved by using different tools, as stated by the BuzzFeed director "The fakery was built using Adobe After Effects, a readily available piece of video software, and FakeApp, an artificial intelligence program" (Mack, 2018). These tools are widely available to anyone with a computer or phone and internet access. By highlighting the ease of access to these tools, the project revealed the potential for the widespread use and abuse of the deepfake technology. However, the Obama case furthermore shows the need for skilled producers. As the creators of the video of Obama explain "Then we worked with Jared who used a combination of deep fake software down-loaded from Reddit and

Adobe products we use to do video effects and post production work. It wasn't straightforward and required a combination of approaches and Jared's prodigious talents."" Barari, et al. (2021, p.6). In contrast to what could be expected from the theory, this points out that not just anyone could make a realistic deepfake. There is still a reliance on the mixture of these software tools and skills of a creative expert. The process was not straightforward and required significant technical skills. Nevertheless, deepfake technology is still developing and getting more efficient every day.

Second, deepfakes are not only getting more efficient, but the speed of their circulation is increasing rapidly. The Obama deepfake went viral in a short period of time, receiving shares all over the world. The video was published on social media platforms like YouTube, X (formerly known as Twitter), and Facebook. The video's original title: "you won't believe what Obama says in this video  $\square$ " is an example of the use of clickbait to attract attention to the deepfake. The video was at a level of virality that demonstrates the power of deepfakes to capture the public's attention. The deepfake has reached millions of people.

"It notched up 5 million views and 83,000+ shares on Facebook, 5 million+ views on YouTube, and 4.75 million views and almost 52,000 retweets on Twitter" (Vaccari & Chadwick, 2020, p.1).

This shows that, on the one hand, it can be used to educate and inform a wide range of people in a short amount of time. On the other hand, the quick spread and wide reach also make them potentially even more harmful in a short amount of time.

Lastly, the public reaction to the deepfake suggests a heightened feeling of uncertainty. The research by Vaccari & Chadwick (2020) made two versions of the Obama deepfake, one where the educational ending was deleted (deceptive) and the other the original one (not deceptive). Their results show several outcomes on the participants' reaction to the deceptive and not deceptive deepfake of Obama. First, the participants found that the deepfake was quite realistic. Overall, around 50.8% of the participants were not deceived at all, which is as good as random guessing (Vaccari & Chadwick, 2020). This number shows that also around 50% of the participants were not sure about the truthfulness of the video. Therefore, this deepfake led to a heightened feeling of uncertainty among the participants who were asked about the authenticity of the video. Whilst less than 20% were not drastically misled, many did stress that they had doubts about the deepfake video. The participants who saw the deceptive version expressed even more feelings of uncertainty over participants who viewed the original educated deepfake, who felt a decrease in uncertainty and were prone to trust news on social media. Consequently, while deepfakes may not always directly mislead people, they can still erode trust in the news in digital media.

"We find that people are more likely to feel uncertain than to be misled by deepfakes, but this resulting uncertainty, in turn, reduces trust in news on social media."

(Vaccari & Chadwick 2020, p.1)

As suggested by Gregor & Mlejnková (2020) who point out that deepfakes impact trust in information media and social media. However, the findings do not point to a distrust in democratic institutions as Smith and Mansted (2020) expected if deepfakes fell into the wrong hands.

# 4.4 THE ZELENSKY DEEPFAKE

The Zelensky deepfake video stands out as one of the first instances where a deepfake video was deployed as part of an information warfare situation in an ongoing armed conflict. Media manipulation has always been a tool in wartime, but it now can generate a video with audio of official leaders with the use of AI.

The Zelensky deepfake contradicts Westerlund's theory of producer groups. This case doesn't have a producer group, or at least it is unknown who made this deepfake which highlights a different producer group of deepfake, an anonymous group. As Simonite states (2022) "That short-lived saga could be the first weaponised use of deepfakes during an armed conflict, although it is unclear who created and distributed the video and with what motive", it is thus hard to say who produced this deepfake. This shows one of the challenges associated with deepfakes, the anonymous nature of deepfakes. Deepfakes can be produced and distributed without leaving traces of how why and where they were made. In the case of this deepfake speculation about whether it was a deliberate act by Russian operatives or rogue hackers aiming to show the chaos circulating its spread. While no conclusive evidence points to a creator, the video did emerge during the beginning of the Ukraine-Russia war strongly suggesting that it was intended as a tool for psychological warfare. It is believed that the Zelensky deepfake tried to make people believe that the Ukrainian president is calling for a surrender, thus it is assumed to be aimed at the morale of the Ukrainian forces and citizens and undermine it.

By publishing the deepfake of president Zelensky on multiple different platforms, the video spread rapidly. At first, it appeared on the website of TV Channel 24, the website was hacked to display the deepfake message. This was a situation where a credible website was the target of the deepfake spread. The hacked website of channel 24 further displays the deepfake reinforcing its role as a tool in information warfare. This pattern of dissemination shows that deepfakes can be used to exploit existing information systems to increase visibility.

"As the aforementioned fake Zelenskyy video suggests, deepfakes are now being used in international conflicts, and their role is only likely to grow in the coming years" (Byman, et al. 2023, p.6).

Furthermore, the deepfake video was uploaded on Facebook, YouTube and the Russian social network VKontakte (Russia's equivalent to Facebook), showing how easily deepfakes can reach such big audiences all over the world in a relatively short amount of time. There was a rapid spread of the deepfake on social media, hence highlighting the role of social media in the amplifying world of deepfakes.

The emotions that were detected after seeing the deepfake include confusion, negativity and worry. Interestingly, people were often not misled by the Zelensky deepfake, easily seeing that it was a fake video due to its poor quality of audio and video. As people were discussing the quality of the video online and its failure, it became apparent that the body movement was weird, blinking way too often, the voice was too deep and cracking, and his head was too big. Not only did citizens find it easy to find that it was a deepfake video, but many explained it to others, and in this way spreading information about deepfakes and deepfake analysis. In contradiction to what could be expected from the theory, the Zelensky deepfake shows that people did notice something was wrong early on, and they did not immediately accept it. Furthermore, the psychological impact of the deepfake could lead to epistemic harm, which creates a distrust in democracy and information given by the government.

"We found evidence for the epistemic harms of deepfakes in cases where people doubted the veracity of real videos and in cases of deepfake conspiracy theories.".

Twomey et al (2023, p.15)

The deepfake created confusion about what was in fact reality. It highlights the risk of believing that a leader's instruction is a potential deepfake and could give citizens a reason to ignore legitimate orders under the misguided notion that something is fake. This impact is known as the Liar's dividend, as Byman, et al. (2023, p.7) explain: "deepfakes creates a "liar's dividend," allowing political leaders to dispute the authenticity of their own genuine misbehaviour. In essence, this inadvertent confusion is a mirror image of false orders: instead of false instructions being followed, legitimate ones are discarded.". This highlights the risk as seen in the theory of distrust in democracy and information.

Lastly what is notable is the factor that mitigated the Zelensky deepfake impacts was the pre-emptive warning done by the Facebook account of The Ukrainian Land Forces that announced that Russia has potentially created and shall upload a deepfake video aimed at Ukraine. The public reacted to these posts

by trying to find information about deepfakes, showing that the warning was a success in the spread of information of deepfakes and the resilience of citizens.

# 4.5 COMPARISON OF THE PROPAGANDA CASES

This section will compare the different cases to highlight their differences and similarities. At the end a table is given with an overview of the findings.

Pictorial propaganda in Stalin's regime consists of a few features. Whilst it should be mentioned that there were incidents where Stalin added something to an image, he mainly utilized the erasure of people. As mentioned, Murphy (2019) stated that there is a difference in adding or removing something from an image. Removing something from a photograph does remove part of the context, adding to a photograph creates a whole new reality that did not exist. So when Stalin removed people from pictures, he rewrote the context of the photograph. However, this creation of a new reality is something deepfakes are now mostly used for. In both cases, Obama and Zelensky's deepfakes created a reality in which they said things that they never had said.

Furthermore, the Stalin case and the deepfake cases differ in their intention. Stalin's propaganda regime was mostly used to keep up with the state's narrative. It was used to gain control, legitimize, delegitimize, manipulate, persuade, agitate people or glorify his regime and himself. The deepfake Obama deepfake was not intended to be political propaganda but as an educational tool, however, its deceptive nature and use of political leaders did create a situation where people were first misled. In the Zelensky case, there is no data available on its intention. Yet, the findings suggest that with the deepfake cases, there are no glorifying or controlling elements.

The making of image manipulation between the two pictorial types depicted similarities and differences. From the theory, it could be expected that anyone can make deepfakes and are easy and accessible however, in the Obama case, skilled professionals were needed to make it believable. Additionally, when looking at the Zelensky deepfake there is a lack of realism; it was debunked quickly. This shows that people with the right set of skills are still needed to make a realistic deepfake. In contrary to what was expected from the theory. Whereas, during Stalin's regime it took a lot of time and manpower of skilled professionals. Nowadays with the deepfake cases there is less manpower needed due to technological advancements, but experience and skill is still necessary. Nonetheless, the software applications for creating a deepfake are widely available for anyone, which creates an anonymous atmosphere around deepfakes.

This anonymous nature of producing can also be seen in Stalin's propaganda regime. During Stalin's propaganda regime, the order for deleting a subject or adding an image came from someone in authority

but was quietly told the producers without a record of who gave the order. It was, however, known who published these manipulated images due to the media landscape then. The publishing houses were the ones that organised the news and papers and magazines, but due to censorship from the government, not just anyone could spread any picture. When compared with the Zelensky deepfake, it is unknown why, how or who created it. So, the producer and publisher remain anonymous. In both cases there is a certain anonymity as to who gave the orders. Nonetheless, the media landscape has changed, now it is possible for anyone anonymously without a reason to spread such deepfake videos. To add to the debate, the deepfake and pictorial propaganda cases could reach a large audience, yet in Stalin's regime was mostly national. Whilst with deepfakes in the modern media landscape, the reach is faster, broader and more international. Millions of people can see a deepfake in a matter of seconds, regardless of consequences, such deepfakes can go viral.

Lastly, what might be anticipated from the theory is that a shared concept would be to control and influence public opinions by either trust or distrust. That propaganda seek to legitimize or delegitimize. This is something that also was found in the analysis. While various emotions existed during the Stalin regime, it is important to note that these emotions were deeply rooted in society due to the propaganda regime of Stalin. This regime brought mostly fear to its citizens, as Soviet citizens feared what would happen if they went against the regime and the propaganda. Also, paranoia and agitation were feelings that arose. In addition, the emotions of uncertainty and paranoia marks this time; people began to doubt their own memory, and with the constant change of visual evidence, people didn't know what was real or fake anymore (comrade gallery, n.d.-b.). This highlights the intensity of the emotions, especially the fear and paranoia among citizens. Whereas, the findings point out that pictorial propaganda in Stalin's regime is deeply rooted in fear, deepfake propaganda is mainly rooted in uncertainty. In deepfake propaganda, multiple emotions were found such as, uncertainty, distrust, deception, misleading, scepticism, polarization, negativity and a fear of what deepfakes could bring. One feeling that stands out is uncertainty, and with this uncertainty, a feeling of increased distrust of online media arises. Moreover, with the modern media landscape, the solutions that can be seen in the deepfake threat is education and communication. Because of, for example, the educational purpose of the Obama deepfake, there is a feeling of a decrease in uncertainty and an increase in trust in media online after watching the whole video (Vaccari & Chadwick, 2020). The possibility of dialogue has opened nowadays whilst during Stalin's regime there was no possible dialogue, everything was strictly censored. The media during Stalin's regime was only spread the propaganda, while now the media can also create dialogue about deepfake propaganda.

	Stalin's propaganda Regime	Obama Deepfake	Zelensky deepfake	
Pictorial manipulation	Erasure and adding, with the focus on erasure to delegitimizing and adding to legitimize.	Adding, creating a whole new reality		
Intention	Keeping up with the state's narrative. Glorifying, agitating, legitimizing and delegitimizing.	This intention was to educate.	Unknown due to its anonymous nature.	
Production	A group of skilled professionals, order came from above (top-down) but anonymous about who exactly gave the order.	One or two skilled professionals needed to make it realistic, no top-down approach.	unknown	
Publishing	Papers or magazines under governmental control, censorship plays a major role. Not everyone had access.		rol from governments, and reach a big public.	
Public reaction	Deeply rooted emotions of fear and paranoia.  Due to the censorship, dialogue near impossible.	Uncertainty which leads to decrease trust. Dialogue is possible.	confusion, uncertainty, negativity, and education. Dialogue is possible	

Table 4.1, the key differences and similarities between Stalin's pictorial propaganda regime and the deepfake cases of Zelensky and Obama.

# 4.6 CONCLUSION

The theory and analysis have provided answers to the sub-questions, in this section these answers are discussed.

First, What is the origin and development of pictorial propaganda? Its origin dates to the early days of image-making. With one of the first records in 1852 pictorial propaganda has increased in popularity and developed over the past centuries. It became a tool used to manipulate the public perception, and further political agendas. Especially during Stalin's regime, pictorial propaganda was used on a great scale.

Second, what is the meaning of deepfake propaganda as pursued by contemporary governments? From the case studies discussed in this research the meaning of deepfake propaganda by contemporary governments remains unknown due to its anonymous nature. Notably, governments try to warn and educate citizens about the threat of deepfakes. This research reveals that deepfake propaganda is not exclusively government-driven, as other groups also create and disseminate it.

Third, in what ways does contemporary deepfake propaganda diverge from older pictorial propaganda cases in their political expressions? Contemporary deepfake propaganda differs in political expression. Unlike pictorial propaganda, which reinforced the state's narrative, deepfakes often lack a clear intent. Some aim to educate, others mock or delegitimize leaders, while many remain ambiguous. This anonymity creates uncertainty about their meaning, though differences emerge in aspects beyond political expression.

Fourth, in what ways does deepfake propaganda signify a new meaning of propaganda?

The roots of propaganda have stayed the same over time; deepfake propaganda is a way to change the public's perception of certain aspects through images. However, the manipulation, intent, producing, publishing and reaction have aspects that are different than in pictorial propaganda. Its anonymous nature of the media landscape brings a break from propaganda due to its unclear intent. It is seen that it still tries to legitimise or delegitimise certain political leaders or create uncertainty and distrust within the public.

# 5. CONCLUSION

# 5.1 KEY INSIGHTS

This thesis has aimed to explore the relation between deepfake propaganda and pictorial propaganda, by seeing if deepfake is a continuation or a break of pictorial propaganda.

The main research question posed was "To what extent does deepfake propaganda constitute a break or a continuation of pictorial propaganda."

The comparison showed numerous differences and similarities between deepfake propaganda and older forms of pictorial propaganda. First, the continuation of the manipulative and deceptive intent is seen in both deepfake and pictorial propaganda by adding or erasing. Second, the production and spread of deepfake differ from older pictorial propaganda methods, mostly in size. Third, the shift of the public's reaction, from deeply rooted fear and paranoia in Stalin's regime, to uncertainty with deepfake propaganda. Fourth, the democratisation of media brings dialogue and trust but also implications of the power of anonymity.

The shifts in production and publishing methods are crucial. Publishing is so accessible that everyone can make and publish deepfake propaganda, enabling actors outside the traditional power structures to spread information. A downside of this is the anonymity and the large reach it has in a short time, whereas an upside is the opening of dialogue, where education and warnings can be seen as a solution to the threat of deepfake propaganda. The emotional impact of deepfake propaganda can alter how the public reacts and interacts with political discourse, as with the increase in uncertainty, there is a decrease in trust in online information media. Next to this, the lair's dividend can potentially heighten trust issues in democratic societies.

In short, these findings suggest that deepfake propaganda, while innovative in its mechanisms and spread, retains the core manipulative intent of its historical counterparts. Nonetheless, its impact and way of spreading, producing and publishing are different. As for the answer to what extent deepfake propaganda constitutes a break or continuation of pictorial propaganda, it is both a break and a continuation of pictorial propaganda, conditional on the specific aspects the researcher chooses to examine. Continued research is needed to understand the evolving impact of deepfakes on political discourse and societal trust.

# 5.2 THE DIRECTION OF FUTURE RESEARCH

This research provides an understanding of the relation between pictorial propaganda and deepfake propaganda. Comparative studies of historical propaganda cases and modern propaganda, as deepfakes, have been lacking and the development of propaganda therefore unexplored. This research gives a much-needed historical lens to understand contemporary propaganda.

This research has aimed to address this knowledge gap and initiate an investigation in the relationship between pictorial propaganda and deepfake propaganda. It unfolds the similarities and differences between the two propaganda tools, as described in the summary above, and though this research may not have necessarily provided an answer to whether it is a break or a continuation, it has shown the importance of further research into this topic.

For this research scholars such as Lasswell and Ellul, and their definitions of propaganda are still relevant to discuss to identify the roots of propaganda. As for this comparative study, the historical definition of propaganda is necessary to take into consideration, to measure the extent of propaganda not only through modern standards but also standards of that time. This highlights the limitations of existing frameworks in addressing the modern phenomenon, this study challenges the traditional definition and prompts a rethinking of what propaganda means in an era where producers and intentions can be ambiguous and where dialogue is made possible in the public.

In addition to this, through the contrast between modern and historic sources this comparative case study has for example found that the scope on which deepfakes and pictorial propaganda can be produced, and spread is different. Whilst Westerlund (2019), mentions game-changing factors for deepfakes to differ from older forms of propaganda, such as the scope, reach and sophistication, deepfakes actually require skills and techniques from specialists to make them realistic and sophisticated, which is similar to older forms of pictorial propaganda.

Future research could explore these differences in impact and media landscapes in greater depth, examining how these differences might be leveraged to educate and inform the public more effectively. Moreover, future research should further explore the link between the two propaganda types and investigate what society can learn from its past. This study is limited by its focus on two contemporary cases, which, while illustrative, do not capture the full diversity of deepfake propaganda manifestations, so for the research design, this research would recommend future research on deepfake over some time instead of two specific cases. This could provide a comparison over multiple cases that mimic the Stalin regime as a period in time better. A potential next step in deepfake propaganda research would be to research the media landscape and the anonymity of deepfake propaganda. As mentioned in this research these points are the breaks from pictorial propaganda. It would be interesting to dive deep into the media landscape by analysing its content, interviewing professionals in digital sociology and social media, and analysing the development over time. By understanding this media landscape and its anonymous nature, policymakers can adequately adapt the policies to the challenges this brings.

In addition, future research could interview policymakers about the legislation made to anticipate the threat of deepfakes and conduct a survey among citizens to see if the effects of deepfakes which policymakers anticipate are felt in society. By comparing these results, the research can recommend the policy makers on the need for the policy.

# 5.3 THE RESILIENCE TO DEEPFAKE PROPAGANDA

Through the historical comparison, the findings of this research provide crucial insights into the nature of deepfake propaganda and can hence further support legislative developments and policymaking surrounding this innovation.

Firstly, deepfake propaganda is inherently misleading, similar to pictorial propaganda, as both are utilised to manipulate public opinion. There is a need to make society more resilient to this manipulation which could be done with policies protecting or educating citizens. To elaborate on the latter, though propaganda is inherently bad according to scholars, the concept of deepfakes could be of great relevance to help educate the public, like in the Obama case. However, the thin line between when it can be used as an education and when it turns into propaganda is something that future research could explore further. The main emotion felt with deepfakes is uncertainty, which could be reduced with education.

Secondly, this research has shown that due to the wide nature of the internet, it is easy to publish deepfake propaganda without a known intention or consequences. The risk of broad, anonymous production and publishing is something that needs further legislation. This legislation is necessary, especially now, because deepfakes are not yet at a point where anyone can make it; there is still a certain threshold. This makes it a pressing time to move forward with legislation, technology and policies on the matter before this threshold lowers even further. The public and private sector should, with a sense of urgency, invest in science and technology to be able to help debunk AI deepfakes.

Deepfake propaganda poses a challenge for the future, government and citizens alike. To be resilient education, information and warnings are as important as further research. Now is the time to protect governments and citizens alike from being manipulated by deepfakes.

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# 7. APPENDIXES

# 7.1 THE THIRTEEN PROPOSITION

	Proposition
1	"Propaganda is not intrinsically evil or immoral."
2	"Propaganda entails propagation, but not everything that propagates is necessarily propaganda."
3	"The relation between propaganda and information is fluid, varying according to context and function."
4	"Although propaganda is not an essential category with precise formal attributes, particular techniques of propagation can be studied with variable results."
5	"Any given practice of propaganda must be understood in relation to culturally specific proximate institutions, such as education, religion, public diplomacy, advertising, and literature."
6	"Propaganda changes according to specific media, but cannot entirely be defined by the attributes of a given medium."
7	"Propaganda in its effects can be partial, and it need not be total."
8	"Analyzing propaganda requires paying as much attention to networks of information flow (how) as the content (what)."
9	"People can actively use propaganda and are not simply passive dupes used by it. Propaganda does not necessarily spread from the top down."
10	"Propaganda can produce unintended effects beyond the control of both producers and receivers."
11	"To be effective, propaganda must harness a rich affective range beyond negative emotions such as

	hatred, fear, and envy to include more positive feelings such as pleasure, joy, belonging, and pride."
12	"Propaganda is an integral feature of democratic societies."
13	"The study of propaganda remains highly relevant and in all likelihood will continue to be a critical issue in the future."

The Thirteen *Propositions of propaganda research* by Auerbach, & Castronovo (2013)

# 7.2 COMPARISON OF LASSWELL AND ELLUL

Lasswell	Ellul	Similarities
Neutralist View	Moralist View.	
Distinguishes between general propaganda and political propaganda	Propaganda falls under different categories. (1)  political propaganda,  (2) integration  propaganda, (3)  horizontal propaganda  and (4) rational	Propaganda is not one definition. There are different types of propaganda.
The nature of propaganda is not necessarily evil.	propaganda.  Propaganda is inherently misleading and wrong.	Both agree that propaganda is used to influence the mass population.
Propaganda has become institutionalized in democratic systems.	"The communication universe of the modern urban society is propaganda" (Brow, 2006) elites-driven propaganda undermines personal autonomy.	Propaganda is seen in modern society.
It is a tool for the elite to remain social stability. But is not an Absolut tool.  It is true that	Propaganda is total.  There is no individual	Propaganda is a powerful mean to shape society.  There is no dialogue in
propagandas interference the irreplaceable "dialogue" in society on which	thinking, propaganda makes sure the individual thinks in the same way as the other individuals,	propaganda.

democracy	conformism and	
depends.	convention.	
Propaganda has its	The educated intellectual	Both believe
limits: It cannot	can be manipulated by	propaganda has it
completely mask	propaganda without their	limits.
real-world issues	awareness'.	
like military defeats	Ellul states that for	
or economic	propaganda to have an	
struggles.	affect there already needs	
	to be a preexisting	
	narrative to build upon	

Sources: (Auerbach & Castronovo, 2013, Lasswell 1927, Brown, 2006)

### 7.3 AI ACKNOWLEDGEMENT

During the preparation of this work, the author used ChatGPT (OpenAI) and Grammarly in order to assist with refining academic language, generating synonyms and suggesting structural edits. After using this tool/service, the author reviewed and edited the content as needed and takes full responsibility for the content of the work.

# 7.4 OVERVIEW OF AMOUNTS OF CODES

	Obama	Stalin	zelensky
Deepfake video	12	0	3
historical context	0	9	0
image manipulation	0	60	0
impact	18	0	27
political propaganda	0	43	0
producers	0	43	0
producers deepfake	3	0	2
propagandic feature	1	0	3
publication	0	13	0
publics reaction	0	13	0
time context	1	0	5
virality	3	0	5

# 7.5 ANALYSES WITH THE CODES

It is important to note that the downloading and copying of the codes occasionally rendered them in unreadable in this format.

document	quotation	codes
	Fears of deepfakes being used to	
	spread disinformation have been	
	realised during the Russo-	
Twomey et all, (2023)	Ukrainian war	Ukrainian-Russian war
	Deepfake of Putin announcing peace	
	with Ukraine. In early March a	
	deepfake of Rus- sian president	
	Vladimir Putin emerged, showing	
	the Russian president announcing	
	peace with Ukraine. The deepfake	
	was first published online in the	
	first week of March on the reddit	
	r/ sfwdeepfakes and r/ukraine	
	communities [37]. It was posted	
	with an acknowledgment that it	
	was fake and the user who	
	submitted this video claimed to	
	have found it on the social media	
	site Telegram and added their	
	own subtitles. The deepfake was	
	then published on Twitter on the	
	18th of March. This is the version	
	that was reported on by news	
	agencies. The version posted on	
	Twitter did not contain subtitles,	
	suggesting it may have come from	
	Telegram. This deepfake was	
	unique out of the major examples	
	of the technology in the conflict	
	as it has been suggested that the	
Twomey et all, (2023)	audio was also generated using AI	Ukrainian-Russian war

	Deepfake of Zelensky surrendering	
Twomey et all, (2023)	to Russia	Ukrainian-Russian war
Twomey et all, (2023)	surrendering to the Russian  Government [39]. On the 14th of  March 2022, a Ukrainian news  website was hacked to display a  deepfaked message of Zelensky  surrenderin	not political propaganda, goals was to educate, delegitmizing, manipulation of the people
Twomey et all, (2023)	The quality of the deepfake was poor and quickly debunked by Zelensky himself. However, this incident highlights the potential harms of deepfak	poor quality
- · · · · · · · · · · · · · · · · · · ·	Educational deepfakes from the	Free James
Twomey et all, (2023)	Ukrainian government and news media outlets. O	solutions
Twomey et all, (2023)	European mayors receive possible deepfake video call from the mayor of Kyiv	Ukrainian-Russian war
Twomey et all, (2023)	The largest number of tweets occurred between the 16th to the 18th of March, correlating broadly with the release of the fake Zelensky surrender video and news coverage of the supposed Putin deepfake	social media platforms
	Users often emotionally reacted to the news about deepfakes with negativity (n = 29), worry (n = 27), shock (n = 6) and confusion (n = 6), mostly targeted towards news about the deepfake Zelensky	negativity, worry, shock d,
Twomey et all, (2023)	surrende	confusion

	Many tweets in the dataset reacted to	
	the news of the deepfake as	
	something that had been expected	
	(n = 36), highlighting the many	
	attempts of pre-bunking carried	
	out by the Ukraine government."	
	Well this confirms the warning	
	that Russia would use a deepfake	
Twomey et all, (2023)	of Zelensky sur- rendering".	solutions
	The reaction to deepfakes in the war	
	was generally negative.	
	"Deepfake tech has arrived, and	
Twomey et all, (2023)	it's absolute madness"	negativity
	Many tweets sought to explain	
	deepfakes and deepfake news for	
	other users, spreading information	
	about their prevalence and	
Twomey et all, (2023)	defining the technol- ogy.	solutions
	A significant portion revolved	
	around the technical appraisal of	
	the technology, often reflecting on	
	their poor quality (n = 109).	
	Specifically, many users criticised	
	the quality of the Zelensky	
	deepfake, which users felt didn't	
	live up to warnings of deepfakes	
	or their own expec- tations of the	
	technology. "You've seen the	
	deepfake of Zelensky, now we've	
	seen a deepfake Putin declare	
	surrender. This is clearly better	
	quality than the Zelensky	
	cheapfake but it's still poorly	
	made. Unfortunately, the	
	technology will get better with	

	One element of deepfakes that	
	tweets seemed to engage in	
	strongly was the potential of	
	deepfakes in warfare. Deepfakes	
	were seen as a new form of	
	weapon ( $n = 28$ ) or a new kind of	
	propaganda (n = 10). "You'd	
	think deepfakes are harmless, if	
	you've only seen silly videos of	
	deepfaked Keanu Reeves.	
	Unfortunately deepfakes can be a	
	new and vicious type of	
	propaganda. We've seen it now	
	with deepfakes of the Russian and	
Twomey et all, (2023)	Ukrainian leaders"	worry
	In January and early February,	
	people feared deepfakes would be	
	used as a false flag to start the war	
	(n = 22). "Russia have plans to	
	use a deepfake video to justify an	
	invasion of Ukraine. Before	
	making a statement I need some	
Twomey et all, (2023)	time to process this".	Fear of Deepfakes
	This shows a worrying tolerance	
	towards the production and	
	distribution of deepfake	
	disinformation when it fits one's	
Twomey et all, (2023)	own political beliefs	worry, polarization
	Many tweets in the dataset expressed	
	a healthy scepticism towards	
Twomey et all, (2023)	deepfakes.	sceptisism
	Unfortunately, the majority of this	
	type of Deepfake discourse during	
	the war consisted of unhealthy	
Twomey et all, (2023)	scepticism fuelled by deepfakes.	sceptisism
	-	

Twomey et all, (2023)	Fears of deepfakes often undermined users trust in the footage they were receiving from the conflict (n = 85) to the point where they lost trust in any footage coming from the conflict.	distrust, sceptisism, Fear of Deepfakes
Twomey et all, (2023)	This quote also highlights the scepticism of journalism and new media (n = 30) as an interpretive repertoire in the dataset.	sceptisism, distrust
Twomey et all, (2023)	his highlights how deepfake discourse can be used in arguments which undermine the veracity and trustworthiness of news media	distrust, sceptisism
Twomey et all, (2023)	Most emblematic of the epistemic impact of deepfakes were the deepfake accusations, particularly in situations where real media was accused of being deepfake.	distrust
Twomey et all, (2023)	In the most extreme cases of scepticism in the dataset, tweets contained conspiracy theories claiming real world events and individuals were deepfakes.	sceptisism
Twomey et all, (2023)	More broadly, users suggested the war was not as it seems, referring to the entire conflict as a deepfake (n = 21).	distrust, sceptisism, negativity
Twomey et all, (2023)	Despite the positive messages of these deepfakes it was felt that by showing people they had the capacities to create fake footage,	sceptisism, distrust

	the Ukraine government	
	undermined their own credibility	
	In particular, the deepfake of the	
	Ukrainian president undermines	
	the idea that relying on reputable	
	sources will prevent the harms of	
	deepfakes [63], as the video was	
	spread through the hack of a	
Twomey et all, (2023)	reputable Ukrainian news websi	official Ukrainian news website
	We found evidence for the epistemic	
	harms of deep- fakes in cases	
	where people doubted the veracity	
	of real videos and in cases of	
Twomey et all, (2023)	deepfake conspiracy theories	distrust
	We found that perceptions of	
	deepfakes and deepfake news in	
	the dataset were generally nega-	
	tive. Tweets generally focused on	
	the harms of the technology,	
	expressing fear and shock at the	
	potential harms of the technology	
	similar to the fears expressed in	
	news articles and academic	
Twomey et all, (2023)	research on deepfakes [64, 65]	shock d, Fear of Deepfakes
	The liar's dividend is the result of an	
	information environment where	
	real information can be easily	
Twomey et all, (2023)	discredited as fake [19	the liar's dividend
	Real video and images were decried	
	as deepfake, people often mistook	
	CGI for deepfakes and used	
	deepfakes as a catch-all insult for	
Twomey et all, (2023)	information they did not like.	confusion

Twomey et all, (2023)	While the generally assumed threat of deepfakes is their believability, the labelling of real media as deepfakes shows the capability of deepfake discourse to undermine truth [22]	distrust
vaccari & chadwick (2020)	synthetic videos that closely resemble real videos	artificial intellegence, syntathic
vaccari & chadwick (2020)	. We find that people are more likely to feel uncertain than to be misled by deepfakes, but this resulting uncertainty, in turn, reduces trust in news on social media.	uncertainty because of deepfakes, distrust
vaccari & chadwick (2020)	This is not actually Obama speaking.  A split screen appears showing Obama on the left while on the right is the renowned US actor, comedian, and director, Jordan Peele. Obama's and Peele's facial expressions and lip movements match per- fectly. Using artificial intelligence (AI	artificial intellegence, 2018, skilled profesionals
vaccari & chadwick (2020)	The BuzzFeed video immediately went viral. Accompanied by the suitably clickbait tagline, "You Won't Believe What Obama Says In this Video!," it notched up 5 million views and 83,000+ shares on Facebook, 5 million+ views on YouTube, and 4.75 million views and	went viral

	BuzzFeed created its video using	
	increasingly common techniques	
	known as "synthetic media"	
	(Witness, 2018) or "deepfakes."	
	Relying on machine learning	
	algorithms, software applications	
	create highly convincing "face-	
	graft" videos where the	
	expressions of one person are	
	carefully superimposed onto the	
vaccari & chadwick	head of another (GitHub, 2019a,	artificial intellegence, syntathic,
(2020)	2019b).	software applications
	We ran an online experiment among	
	a representative sam- ple (N =	
	2,005) to identify the extent to	
	which editing out the all-	
	important educational "big	
	reveal" in the BuzzFeed	
	Obama/Peele deepfake results in	
	individuals being misled or	
vaccari & chadwick	becoming uncertain about	
(2020)	whether the video was true or fals	manipulation of the people
	And, in turn, we show that	
	uncertainty of this kind results in	
	lower levels of trust in news on	
	social media. Based on these	
	results, we argue that, if	
	unchecked, the rise of political	
	deepfakes will likely damage	
	online civic culture by	
	contributing to a cli- mate of	
	indeterminacy about truth and	
vaccari & chadwick	falsity that, in turn, diminishes	
(2020)	trust in online news	uncertainty, distrust

	Deepfakes can be synthesized thanks	
	to an AI technology called	
	Generative Adversarial Networks	
	(GANs; Goodfellow et al., 2014).	
	The average person has a	
	predictable range of jaw, lip, and	
	head movements that correspond	
	with the sounds they make when	
vaccari & chadwick	forming words. GANs use	artificial intellegence, software
(2020)	authentic vide	applications
	However, even if viewers are not	
	deceived by a deepfake, they may	
	become uncertain about whether	
	their content is true or false.	
	Uncertainty is conceptually	
	distinct from ambivalence.	
	Ambivalence arises when	
	individuals are faced with a	
	choice on which they have	
	conflicting opinions, so that	
	"additional information only	
	heightens the internalized	
vaccari & chadwick	conflict" (Alvarez & Brehm,	
(2020)	1997, p. 346).	uncertainty because of deepfakes
	We have shown that political	
	deepfakes may not necessarily	
	deceive individuals, but they may	
	sow uncertainty which may, in	
vaccari & chadwick	turn, reduce trust in news on	
(2020)	social media	distrust
,		

We ran an online experiment among a representative sam- ple (N = 2,005) to identify the extent to which editing out the all-important educational "big reveal" in the BuzzFeed Obama/Peele deepfake results in individuals being misled or becoming uncertain about whether the video was true or false. In other words, our experiment reproduces the problem generated by the malicious fake kidnapping video that went viral in India.

While we do not find evidence that deceptive political deepfakes misled our participants, they left many of them uncertain about the truthfulness of their content. And, in turn, we show that uncertainty of this kind results in lower levels of trust in news on social media.

deception, uncertainty because of deepfakes

vaccari & chadwick (2020)

Theorizing Deepfakes' Impact:

Deception, Uncertainty, and Trust

Deepfakes are a new and unique form of video-based visual disinformation. At the time of this writing, there is no aca- demic research on their effects. In this study, we assess whether deepfakes affect individuals' perceptions of truth and falsity but, just as importantly, whether they create uncertainty about the information they convey. Finally, we consider whether the uncertainty elicited by deepfakes may reduce people's trust in news on social media.

Our initial focus is on cognitive outcomes. The obvious core of the problem is that deepfakes may deceive people. However, even if viewers are not deceived by a deepfake, they may become uncertain about whether their content is true or false.

Uncertainty is conceptually

distinct from ambivalence.

vaccari & chadwick (2020)

uncertainty because of deepfakes, distrust

When used as training data for GANs (run by software that is also freely available), these materials enable users to create fabricated but realistic videos of public figures that may then be shared online without any obvious markers distinguishing them from genuine footage. AI is also being used to synthesize high quality audio mimick- ing human voices (Baidu Research, 2017; Gault, 2016).

Most people may be poorly equipped to discern when they are being deceived by deepfakes. Rössler et al. (2018) found that people correctly identify fakes in only about 50% of cases statistically as good as random guessing. Detection is especially poor when evaluating videos with the smearing and blockiness artifacts caused by the compression com- monly used on social media. AI-based methods are margin- ally better than humans, but their effectiveness also declines when video compression is used.

vaccari & chadwick (2020)

syntathic, artificial intellegence, software applications

	In the same month, BuzzFeed	
	publishes a video showing former	
	US President Barack Obama	
	speaking directly to a camera, in	
	what looks like the Oval Office.	
	The first 35 seconds show only	
	Obama's face. Following a few	
	mildly out-of-character	
	statements, Obama drops a	
	bombshell: "President Trump is a	
vaccari & chadwick	total and complete dipshit." After	
(2020)	a brief pause, he continues,	new realities (adding)
	The results can be alarmingly	
	convincing, espe- cially with the	
vaccari & chadwick	low-resolution video that is	
(2020)	common online.	misled
	Political deepfakes are an important	
	product of the Internet's visual	
	turn. They are at the leading edge	
	of online, video-based	
	disinformation and, if left	
	unchallenged, could have	
	profound implications for	
	journalism, citizen compe- tence,	
	and the quality of democracy	
	(Bennett & Livingston, 2018;	
	Chadwick et al., 2018; Flynn et	
vaccari & chadwick	al., 2017; Rojecki & Meraz, 2016;	
(2020)	Waisbord, 2018).	democracy
	Images have stronger persuasive	
	power than text and citizens have	
	comparatively weak defenses	
vaccari & chadwick	against visual deception of this	
(2020)	kind (	misled
(2020)		

	Misleading visuals are more likely than misleading verbal content to generate false per- ceptions because, based on the "realism heuristic" (Frenda et al., 2013; Sundar, 2008), individuals treat audio and images as more likely than text to resemble "the real world" of everyday experience.	
vaccari & chadwick (2020)	When images and audi	misled
vaccari & chadwick	Social media users' sharing behavior also matters. Video and still images are more likely than news and online peti- tions to spread on	
(2020)	Twitter (Goel et al., 2015, p. 186).	social media platforms
vaccari & chadwick (2020)	n the long term, the general expectation that little of what is available online can be trusted may further contribute to an attitudinal spiral that "anything goes" online. This may then diminish individuals' sense of responsibility for the information they share (Chadwick & Vaccari, 2019). It may also lead citizens to escape the news altogether, in order to avoid the stress resulting from uncertainty (Wenzel, 2019).	sceptisism, distrust
vaccari & chadwick (2020)	n this scenario, meaningful public debate would become more difficult, as citizens struggle to reconcile the human ten- dency to believe visual content with the	distrust

	need to maintain vigi- lance against manipulative deepfakes	
vaccari & chadwick (2020)	Widespread uncertainty may also enable deceitful politi- cians to deflect accusations of lying by claiming that nothing can be proved and believed	uncertainty because of deepfakes
vaccari & chadwick (2020)	On a more optimistic note, we have shown that an educa- tional video about political deepfakes can succeed in reduc- ing uncertainty, and in so doing can increase trust in news on social media, compared with deceptive deepfakes. However, the educational video did not reduce outright deception—a finding that chimes with an important strand of research showing the limited effects of fact-checking (e.g., Garrett et al., 2013).	decrease uncertainty,, increase trust
vaccari & chadwick (2020)	It is also possible that the reduction of trust in news on social media resulting from the uncertainty induced by deceptive deepfakes may not generate cynicism and alien- ation, but skepticism  They asked Khaldei to remove one	sceptisism
Rare Historical Photos.(b) (2021, November 19).	of the watches. Khaldei not only did so but also  darkened the smoke in the background	adding, deleting of objects, edited photo

	The resulting picture was published soon	
Rare Historical	after in the magazine Ogonjok. It	
Photos.(b) (2021,	became the version that achieved	
November 19).	worldwide fame.	Magazine
Rare Historical Photos.(b) (2021, November 19).	oviets nally captured the Reichstag on 2 May	WWII, Stalin
Rare Historical	The original photo (left) was altered	, , , , , , , , , , , , , , , , , , ,
Photos.(b) (2021,	(right) by editing the watch on the	
November 19).	soldier's right wrist.	deleting of objects
Rare Historical	The "Soviet ag over Reichstag"  photograph is full of symbolism and represents a	
Photos.(b) (2021, November 19).	historic moment.	Symbolism,
	Noting the	
	publicity the Iwo Jima photo had received, Soviet ocials (perhaps Stalin himself)  ordered Khaldei to y from Moscow to Berlin in order to take a similar photo that	
Rare Historical		
Photos.(b) (2021, November 19).	would symbolize the Soviet victory over Germany	government, specialized artists
Rare Historical		
Photos.(b) (2021, November 19).	ay 2, 1945, proceeded to recreate the scene	staged

Rare Historical Photos.(b) (2021,	Back in Moscow, Soviet censors who examined the photo noticed that one of the  soldiers had a wristwatch on each arm, indicating he had been looting. They did not  want to impose that image on	
November 19).	their countr	control
Rare Historical Photos. (a) (2021, December 7).	his skin is smooth, his hair and mustache silky	edited photo
.,,	Stalin could order written out of	
	history such	
Rare Historical Photos.	comrades he ultimately deemed	
(a) (2021, December	disloyal (and who usually wound	
7).	up executed as)	government
Rare Historical Photos. (a) (2021, December 7).	Nikolai Yezhov, pictured right of Stalin, was later removed from this photograph at the Moscow Canal.	erasure of people
	Sometimes, photo doctoring meant	
	going back to the past to change the historical	
	record, as when Stalin ordered	
	Leon Trotsky, who helped create	
Rare Historical Photos.	Communism,	
(a) (2021, December		
7).	eliminated from all photos.	legitimizing

	Using tools that now seem impossibly primitive,  Soviet proto-Photoshoppers made "once-famous personalities vanish" and crafted  photographs representing Stalin "as the only true friend, comrade,	
Rare Historical Photos. (a) (2021, December 7).	and successor to  Lenin, the leader of the Bolshevik Revolution and founder of the USSR.	specialized artists
	During the purges, many of Stalin's enemies simply vanished from their homes.  Others were executed in public after show trials. And since Stalin knew the value of  photographs in both the historical record and his use of mass media to inuence the	
Rare Historical Photos.  (a) (2021, December 7).	Soviet Union, they often disappeared from photos, too.  This quasi-artisanal work, one of the	control, delegitimizing, government
Rare Historical Photos. (a) (2021, December 7).	more enjoyable tasks for the art department of  publishing houses during those times, demanded serious dexterity with the scalpel,	specialized artists, Publishing houses

	glue, paint, and airbrush	
	his picture was taken in 1926 and portrays Stalin with party bosses Nikolai Antipov, Sergey Kirov,	
	and Nikolai	
Rare Historical Photos. (a) (2021, December 7).	Shvernik (from left to right). One by one, all except Stalin disappeared from the pictur	erasure of people
<i>1)</i> .	Alexander Malchenko (standing, on the left)	erasure or people
Rare Historical Photos. (a) (2021, December 7).	was not so lucky: in 1930 he was accused of being a spy, executed, and replaced with a white spot.	erasure of people
	enin was speaking to a crowd in 1920 but	
Rare Historical Photos. (a) (2021, December 7).	four years later, before publishing the image, the editors decided to make his audience bigger	adding
· ·	his group photo from 1920 contained so many	
Rare Historical Photos.	"people's enemies" (Grigory Zinoviev, Nikolai Bukharin, Karl Radek – all shot in the 1930s) that the authorities	
(a) (2021, December 7).	cut it down to just Lenin and	erasure of people, government

	proletariat writer Maxim Gorky (behind Lenin, with the mustache)	
Rare Historical Photos.	n this photo from 1920, Trotsky, in a cap, stands nearby Lenin who is giving a speech from a tribune. In the	
(a) (2021, December 7).	later version, Trotsky is nowhere to be seen.	erasure of people
	or instance, this  picture from a 1917 demonstration was not considered revolutionary enough by the powers that be: the shop  sign on the left says "Clocks. Gold and silver" and the text on a ag is unreadable. But hey presto, a little bit of  Bolshevik magic later and the sign reads "You'll take what's yours through struggle" and the	
Rare Historical Photos. (a) (2021, December 7).	ag – "Down with the monarchy!"	adding, edited photo, agitation, manipulation
COMRADE Gallery. (n.db.)	his carefully crafted image gave the impression that Stalin and Lenin	legitimizing, manipulation

	were close friends, when they	
	were anything but.	
	. They made it appear as if the two	
	men were sitting side-by-	
	men were sitting side-by-	
	side, implying that Stalin was	
	Lenin's heir apparent. They also	
	"smoothed	
	Stalin's pockmarked complexion,	
	lengthened his disfigured left arm,	
	and	
COMRADE Gallery.	increased his stature so that Lenin	
(n.db.)	seems to recede benignly".	adding, edited photo
	Stalin's photo technicians went to	
	work, creating a	
COMRADE Gallery.		
(n.db.)	new reality.	government, specialized artists

	Major website update in progress.	
	Please excuse any issues or bugs.	
	Need help?	
	hello@comradekiev.com	
	COMRADE	
	The Art of Deception: Photo	
	Manipulation in Stalin's Soviet	
	Surveillance State	
	In the shadows of Soviet power, a	
	secret war was being waged - not	
	2 2	
	with guns and bombs, but with	
	brushes, chemicals, and darkroom	
	tricks.	
	tricks.	
	Welcome to the world of Stalin's	
	photo manipulators, where history	
	was	
	rewritten one snapshot at a time.	
	Stalin's rise to power in the 1920s	
	coincided with a period of intense	
	political struggle within the Soviet	
	Union. As he consolidated his	
	control,	
	Stalin recognized the power of	
	visual propaganda in shaping	
COMRADE Gallery.	public	legitimizing, delegitimizing, control,
(n.db.)		persuade

perception. In 1922, a pivotal moment in this propaganda war occurred

when a photograph of Stalin and Lenin sitting side-by-side appeared in

every newspaper across the Soviet Union. But everything wasn't as it

seemed. The photograph was a fake.

This carefully crafted image gave the impression that Stalin and Lenin

were close friends, when they were anything but. In reality, "Lenin

described Stalin as intolerably rude and capricious and recommended

that he be removed from his position as the Communist Party's

secretary general". Stalin's photo technicians went to work, creating a

new reality. They made it appear as if the two men were sitting side-by-

side, implying that Stalin was Lenin's heir apparent. They also "smoothed

Stalin's pockmarked complexion, lengthened his disfigured left arm, and

increased his stature so that Lenin seems to recede benignly". This

photograph is believed to be the first time Stalin used photo

manipulation to create his own version of reality, but it certainly

wouldn't be the last.

In the tightly controlled Soviet media landscape, photoshopped images

served many purposes. They reinforced Stalin's narrative of being Lenin's

chosen successor, erased political rivals from the history books, and

presented an idealised version of Soviet life to both domestic and

international audiences.

	he ubiquity of these manipulated images in newspapers, posters, and official publications helped create an alternate	
	reality that millions of Soviet	
COMRADE Gallery. (n.db.)	citizens were forced to accept as truth.	posters, Newspapers, Official publications
	"In one photograph, Stalin is shown with a group of three of his deputies. As each deputy fell out of favour, they were snipped out	
	of the	
COMRADE Gallery. (n.db.)	photo until only Stalin remained."	erasure of people
	By the 1940s, Stalin's army of retouchers had progressed from simple retouching to falsifying reality.	
	Their methods were surprisingly	
	sophisticated for the time, relying on a combination of darkroom	
	techniques and physical alteration of negatives and prints. These	
COMPARE C. II	included composite imaging, airbrushing, negative retouching, double	
COMRADE Gallery. (n.db.)	exposure, and forced perspective.	specialized artists

	These techniques required	
	considerable skill and patience,	
	often involving hours of painstaking	
	work to achieve the desired result.	
	As Berlin fell in the closing days of WWII, Red Army photographer	
	wwii, icea zumy photographei	
	Yevgeny Khaldei staged a photo of several soldiers raising the	
	Soviet	
COMRADE Gallery.	flag on the roof of the Reichstag	
(n.db.)	building.	staged

	However, even this triumphant	
	moment required editing.	
	Khaldei's	
	editor noticed that one of the	
	soldiers was wearing a wristwatch	
	on	
	each arm, indicating that he had	
	been looting. The photograph was	
	edited to remove the extra watch,	
	to appease Stalin and potentially	
	save	
COMRADE Gallery.		
(n.db.)	the soldier's life.	deleting of objects, edited photo
	The constant manipulation of visual	
	evidence had profound effects on	
	the Soviet people. It created an	
	atmosphere of uncertainty and	
	fear,	
	where citizens could never be sure	
	of what was real and what was	
	or what was rear and what was	
	fabricated. People began to	
	question their own memories	
	when	
	confronted with contradictory	
	"official" photographs, leading to	
	a	
COMRADE Gallery.	culture of self-censorship and	

	During the Great Purge,	
	civilians even participated in their own form of photo editing. Fearing	
	association with Stalin's enemies, many would deface or destroy	
	photographs, magazines, or books containing images of those who had	
COMRADE Gallery. (n.db.)	fallen out of favour.	civillians, fear
	They also "smoothed	
	Stalin's pockmarked complexion, lengthened his disfigured left arm, and	
	increased his stature so that Lenin seems to recede benignly". This	
	photograph is believed to be the first time Stalin used photo	
	manipulation to create his own version of reality, but it certainly	
	wouldn't be the last.	
COMRADE Gallery.	In the tightly controlled Soviet media landscape, photoshopped images	
(n.db.)	served many purposes. They	control, legitimizing

reinforced Stalin's narrative of being Lenin's

chosen successor, erased political rivals from the history books, and

presented an idealised version of Soviet life to both domestic and

international audiences. The ubiquity of these manipulated images in

newspapers, posters, and official publications helped create an alternate

reality that millions of Soviet citizens were forced to accept as truth.

Photo editing became a powerful form of censorship, allowing Stalin to

rewrite the past.

	During the Great Purge,	
	civilians even participated in their	
	own form of photo editing.	
	Fearing	
	association with Stalin's enemies,	
	many would deface or destroy	
	photographs, magazines, or books	
	containing images of those who	
	had	
	fallen out of favour.	
	Soldiers raising the Soviet flag on	
	the roof of the Reichstag building.	
	Credit: Yevgeny Khaldei	
	Credit. 10 gony Knader	
	The act of erasing reality and truth	
	through photo falsification under	
	Stalin's rule means "that it is	
	possible to tell the story of the	
	Soviet era	
	through retouched photographs".	
	While Stalin's regime may have	
	perfected the art of photo	
	manipulation for political ends,	
	the practice	
	has evolved. Today, deep fakes	
COMRADE Gallery.	and voice cloning make it easier	
(n.db.)	than	delegitimizing, civillians
(11101 01)		8, 01, 111111111111111111111111111111111

	ever to alter reality.	
	Their methods were surprisingly	
	sophisticated for the time, relying on a combination of darkroom	
	techniques and physical alteration of negatives and prints. These	
	included composite imaging, airbrushing, negative retouching, double	
COMP A DE Callana	exposure, and forced perspective.	airbrusing aronning of mistree
COMRADE Gallery. (n.db.)	These techniques required	airbrusing, cropping of picture, glueing and cutting

often involving hours of painstaking  work to achieve the desired result
work to achieve the desired result
work to achieve the desired result
he disappeared from Soviet
photographs, too, his existence
blotted out by a retouched suit on
another ocial from the original
photo.
Enukidze's erasure was the
product of a real conspiracy to
change public perception in the
USSR during Joseph Stalin's Stalin, delegitimizing, erasure of
Blakemore, (2022) dictatorship. people
Stalin's commitment to censorship
and photo doctoring was so strong
that, at the height of the Soviet
Union's international power, he
rewrote history using photo
alteration. The stakes weren't just
historical: Each erasure meant a
swing of Stalin's loyalties, and
Blakemore, (2022) most disappeared subjects also Stalin, manipulation, government

	disappeared (or were killed) in real life, too.	
	And since Stalin knew the value of photographs in both the historical	
	record and his use of mass media	
	to inuence the Soviet Union, they	
	often disappeared from photos,	
Blakemore, (2022)	too.	Official publications
	Stalin used a large group of photo	
	retouchers to cut his enemies out	
D1 1 (2022)	of supposedly documentary	
	photographs.	government specialized artists
Blakemore, (2022)		government, specialized artists
biakemore, (2022)	Stalin's censors then removed	government, specianized artists
biakemore, (2022)	Stalin's censors then removed Yezhov from the photographic	government, specianized artists
Diakemore, (2022)	Stalin's censors then removed Yezhov from the photographic record, including cutting him	government, specianized artists
Diakemore, (2022)	Stalin's censors then removed  Yezhov from the photographic record, including cutting him from a photograph in which he	government, specialized artists
Diakemore, (2022)	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss,	government, specialized artists
Diakemore, (2022)	Stalin's censors then removed  Yezhov from the photographic record, including cutting him from a photograph in which he	government, specialized artists
Diakemore, (2022)	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The	erasure of people, Stalin, control,
Diakemore, (2022)	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The photo retouchers removed Yezhov	
Blakemore, (2022)	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The photo retouchers removed Yezhov from the photo and inserted new	erasure of people, Stalin, control,
	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The photo retouchers removed Yezhov from the photo and inserted new water to cover up the space where	erasure of people, Stalin, control, delegitimizing, manipulation,
	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The photo retouchers removed Yezhov from the photo and inserted new water to cover up the space where Yezhov would have been. Sometimes, ocial censors had to retouch photos over and over	erasure of people, Stalin, control, delegitimizing, manipulation,
	Stalin's censors then removed Yezhov from the photographic record, including cutting him from a photograph in which he smiled next to his former boss, Stalin, next to a waterway. The photo retouchers removed Yezhov from the photo and inserted new water to cover up the space where Yezhov would have been.  Sometimes, ocial censors had to	erasure of people, Stalin, control, delegitimizing, manipulation,

	t's thought that Stalin's obsession	
	with photo doctoring constituted a	
	mini industry in the USSR.	
	Publishers were contacted by	
	Stalin's minions and told to	
	eliminate the enemy du jour from	
	upcoming photos—and they did.	
	According to design historian	
	David King, who uncovered	
	thousands of doctored photos and	
	their original versions, the work	
	was not performed in one location	
Blakemore, (2022)	or even through an ocial ministry	publishing house, government
	King writes, "photographic	
	manipulation worked very much	
	on an ad hoc basis. Orders were	
	followed, quietly. A word in an	
	editor's ear or a discreet telephone	
	conversation from a 'higher	
	authority' was sucient to eliminate	
	all further reference—visual or	
	literal—to a victim, no matter	erasure of people, control,
Blakemore, (2022)	how famous she or he had been.	government, publishing house
	ven citizens had to get in on the act.	
	As Stalin's purges became more	
	and more widespread, civilians	
	who feared being branded as his	
	political enemies began to realize	
	that owning photos of Stalin's	
	political enemies—even photos in	
	books or magazines—was	
	dangerous. They learned to deface	
	their own materials with scissors	
	or ink. "Such was the atmosphere	
	of fear that families of those	
Blakemore, (2022)	arrested and condemned were	fear, civillians, erasure of people

	compelled to destroy even the	
	image of their loved ones in their	
	own personal records," writes	
	biographer Helen Rappaport.	
	hen, the ocial portrait was	
	reproduced and retouched over	
	and over until it met with Stalin's	Stalin, edited photo, adding,
Blakemore, (2022)	liking.	legitimizing, government
Blakemore, (2022)	liking.  It was also altered specically to	legitimizing, government
Blakemore, (2022)	·	legitimizing, government
Blakemore, (2022)	It was also altered specically to	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were covered in stolen wristwatches	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were covered in stolen wristwatches they had looted from German	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were covered in stolen wristwatches they had looted from German citizens on their way to the	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were covered in stolen wristwatches they had looted from German citizens on their way to the Reichstag. Stalin had ordered his	legitimizing, government
Blakemore, (2022)	It was also altered specically to sidestep Stalin's anger: The photographer concealed the wrists of the soldiers, which were covered in stolen wristwatches they had looted from German citizens on their way to the Reichstag. Stalin had ordered his soldiers not to loot—so the	legitimizing, government  fear, erasure of people, edited photo,

n't stop with photos. As historian Jan Plamper notes, the omnipresent portraits of Stalin that were in every home and business were subject to maniacal oversight. The dictator commissioned an army of painters to create his ocial portraits, oering some artists massive amounts of money to paint him. Then, the ocial portrait was reproduced and retouched over and over until it met with Stalin's liking. "The amount and detail of documentation on retouching (and the entire reproduction process) is astounding," writes Plamper. "This reects a heightened concern to x upon paper clear responsibilities—and tremendous anxiety, lest something go awry." As photo doctoring became more and more common in the USSR's

fear

propaganda eort, it als

Blakemore, (2022)

	Orders were followed, quietly. A	
	word in an editor's ear or a	
	discreet telephone conversation	
	from a 'higher authority' was	
	sucient to eliminate all further	
	reference—visual or literal—to a	
	victim, no matter how famous she	
	or he had been."	
	Sometimes, photo doctoring	
	meant going back to the past to	
	change the historical record, as	
	when Stalin ordered Leon	
	Trotsky, once a leading gure in	
	the Communist Party, eliminated	
	from all photos. After Trotsky	
	was exiled by Stalin for mounting	
	a failed opposition to his	
	leadership, the revolutionary was	
	snipped,	
	10-12-2024, 17:51 How Photos	
	Became a Weapon in Stalin's	
	Great Purge   HISTORY	
	Great Furge   This Fore F	
	https://www.history.com/news/jos	
	ef-stalin-great-purge-photo-	
	retouching 2/5	
	airbrushed and covered up in	
Blakemore, (2022)	countless photographs.	Publishing houses
	airbrushed and covered up in	
Blakemore, (2022)	countless photographs.	airbrusing
	oseph Stalin's pockmarked face, in	
	particular, demanded excep-	
King, (1997)	tional skills with the airbrush.	edited photo

King, (1997)	But it was during the Great Purges, which raged in the late 1930s,	Stalin, great purge
King, (1997)	Photographs for publication were retouched and restructured with airbrush and scalpel to make once famous personalities van- ish.	erasure of people
	At the same time, a parallel industry came into full swing, glo- rifying Stalin as the "great leader and teacher of the Soviet people" through socialist realist paintings, monumental sculpture, and falsified photographs representing him as the only true friend, comrade, and successor to Lenin, the leader of the Bolshevik Revolution and founder of the USSR. The whole country was sub- jected to this charade of	
King, (1997)	Stalin-worship.	legitimizing, manipulation, persuade
	Soviet citizens, fearful of the consequences of being caught in possession of material considered "anti-Soviet" or "counterrevolutionary," were forced to deface their own copies of books and photographs, often savagely attacking them with scissors or disfiguring them with India ink. There is hardly a publication from the Stalinist period that does not	
King, (1997)	bear the scars of this political van	fear, civillians

	The libraries of the former Soviet	
	Union still bear these scars of	
	"vigilant" political vandalism.	
	Many volumes—political,	
	cultural, or scientific—published	
	in the first two decades of Soviet	
	rule had whole chapters ripped	
	out by the censors. Reproductions	
	of photographs of future "enemies	
	of the people" were attacked with	
	disturbing violence. In schools	
	across the country, children were	
	actively engaged by their teachers	
	in the "creative" removal of the	
	denounced from their textbooks.	
	A collective paranoia stretched	
	right through the period of Soviet	civillians, control, paranoia, fear,
King, (1997)	rule.	government
	A friend of mine, the manager of an	
	antiquarian book- shop in	
	Leningrad in the 1960s, told me	
	that he remembered well the	
	twice-monthly visits of a matronly	
	lady from the censorship bureau,	
	who spent hours rifling through	
	the thousands of books on his	
	shelves, checking them against	
	her latest copy of the Summary	
	15	
	List (which was always being	
	updated). Those volumes found to	
	be	
	unacceptable were put in a special	
	garbage can at the back of the	Stalin, control, government, cold
King, (1997)	store	war

	Rather, photographic manipulation	
	worked very much on an ad hoc	
	basis. Orders were followed, qui-	
	etly. A word in an editor's ear or a	
	discreet telephone conversation	
	from a "higher authority" was	
	sufficient to eliminate all further	
	ref- erence—visual or literal—to a	
	victim, no matter how famous she	control, erasure of people,
King, (1997)	or he had been.	government, Publishing houses
	but in the	
	Soviet Union cropping was also	
	used with political objectives in	control, manipulation, government,
King, (1997)	mind.	specialized artists

addition—the addition of himself was another. From the time of his birth in 1879 until he was appointed General Secretary in 1922, there probably exist fewer than a dozen photographs of him. For a man who claimed to be the standard-bearer of the Communist movement, this caused grave embarrassment, which could only be overcome by painting and sculpture. Impression- ism, expressionism, abstraction—for Stalin, none ofthese artistic movements was capable of showing his image properly. So he made realism—socialist realism the central foundation of the Stalin cult. A whole art industry painted Stalin into places and events where he had never been, glorifying him, mythologizing publishing house, posters, legitimizing, persuade, glorifying, him. Sculpture worked well for Newspapers, Official King, (1997) publications, specialized artists him, too.

	For nearly thirty years, Malchenko was  airbrushed out ofthe photograph whenever  it was reproduced. He was rehabilitated in	
King, (1997)	1958, at which point his presence was allowed to reappear.	delegitimizing, erasure of people
	In this version of the picture,    Vladimir Bazaroy was cut off and airbrushed   which was published in 1960 by the out of the left-hand side of the photograph Moscow Institute of	delegitimizing, control, manipulation, erasure of people,
King, (1997)	Marxism-Leninism,	government, Official publications
	Peshkov has been allowed to reappear.  giant album entitled Lenin (Moscow 1939). Bazarov is still missing, his place taken by a;  rased was Zinovii Peshkov, who had ghostly pillar. There is no explanation for  nding behind Maxim Gorky and the appearance, disappearance, and	
King, (1997)	rdanova. reappearance of a womans skirted knee in the	adding, erasure of people, edited photo

	foreground of the three versions	
	of the   photograph.	
	pposite: Another version of this	
	photograph	
	Tae	
	(top) was reproduced in the giant	
	commemorative album Stalin	
	published in	
	1939 to celebrate the tyrant's sixtieth	
	SIAUCUI	
King, (1997)	birthday. T	government
	his time five more members of the	
	group have been replaced by	
Vinc (1007)	vegetation, fencing, and a better	arraying of magnla
King, (1997)	view of the log cabin.	erasure of people

	oldiers demonstrating in the Liteiny  Prospekt during the first days of	
	the February	
	Revolution, Petrograd, 1917.	
	Thousands of souvenir postcards	
	like this one were published	
	during the great upheavals of	
	1917. In the background can be	
	seen a jeweler's shop with its [he	
	slogan on the soldier's flag is	
	almost illegible. Above: The same	
	photogr: aph, also published as a	
	postcard in the same year, but	
	now the jeweler's signboard has	
	been crudely replaced with the	
	slogan "Struggle for Your	
	Rights!"	
	signboard, "Watches—gold and	
	silver." "	
	The soldier's flag has been	
	transformed from black to w hite	
	and reads "Down with 'the	
	Monarchy—Long Live the	
King, (1997)	Republic!"	adding, agitation
	Opposite: A heavily cropped and	
	airbrushed version (top) of the	
	same picture published in USSR	
	in Construction magazine in 1939	
	shows only Kirov and	
King, (1997)	Ordjonikidze	edited photo, erasure of people

	In another issue of the magazine (below right), the two commissars have now been  joined by Mikoyan, who has been made to jump at least eight places from his position in the original	
	photograph. The soldiers int the background of the original print	
	have been upstaged by a backdrop drawing of a much more colorful	erasure of people, adding, legitimizing, control, Publishing
King, (1997)	band of stereotypes.	houses
King, (1997)	from the Communist Party on November 14, 1927. Subsequent  versions (as shown right) have both Trotsky and Kamenev painted  out and five wooden steps painted i	adding erasure of people
King, (1997)	he photograph was being widely published heavily  cropped to an upright (above) and retouched to  exclude everyone but the writer	adding, erasure of people
King, (1997)	and the dead leader.	erasure of people

	Right: As late as the 1980s, only this    ¢ ropped version of the group on the    previous page could be published,	control, manipulation, erasure of
King, (1997)	albeit slightly modified.	people
	By the time the photograph was used in a memorial issue dedicated to Lenin  published by Krasnaya Niva (Red  Field) magazine on February 17,  1924, it must have been judged  necessary to boost Lenin's popularity. In spite of the magazine's poor reproduction it can be seen (opposite, above) that the audience in front of Lenin in the first picture has been replaced by a much more dramatic crowd	
King, (1997)	scene shot on another occasion   (opposite, below).	adding, legitimizing

	Left: When th e photograph was	
	reproduced nineteen years later	
	at the height of the purges, all	
	the adults from the village and	
	many of the children had been	
	eliminated. The darkened,	
	airbrushed background makes	
		erasure of people, great purge,
King, (1997)	this version doubly siniste	manipulation, control
	bove right: In a retouched version	
	ofthe same photo, published in a	
	portfolio of photographs	
	celebrating Stalin's sixtieth	
	birthday in 1939, there is no	
	longer room for Petrovsky, and	
	Ordjonikidze has been moved	
	closer to his boss by the	delegitimizing, erasure of people,
King, (1997)	retoucher.	edited photo, government, posters
	he photograph (above) of Lenin and	
	Stalin in Gorki, near Moscow, in	
	1922 bears every	
	sign of having been faked. But	
	from the mid-1930s the Stalinist	
	propaganda machine churned out	
	thousands of sculptures, paintings,	
	prints, and drawings to exaggerate	legitimizing, adding, government,
	the closeness of their relationship	sculptures, paintings, prints,
King, (1997)	in ever more ridiculous degrees.	drawings, specialized artists

	Republished in 1970 (above), the threat has become less critical, but a faint and sinister beam now radiates from the barrel toward Krupskaya.  Left: At the close of Soviet rule at the end of the 1980s, the retouchers at last eradicated the	
King, (1997)	threat, and calm was restored.	glorifying, edited photo, government
	when the same photograph was  printed (opposite) in 1939 as part of a  pictorial biography published to celebrate Stalin's sixtieth birthday, the retoucher's deft hand was there for all to see. Stalin's skin has been positively pancaked, his hair and mustache	
	are now as smooth as a matinee	
King, (1997)	idol's, and the glint in his eye is all that remains of the original	edited photo, glorifying
	same photograph biographies of Stal ared inat appehInt 1939 and 1949, has been retouched and group to four.rearranged to reduce the	erasure of people, edited photo, Stalin, legitimizing,
King, (1997)	= ne oO	delegitimizing, manipulation, government

	F UB} Se — od w =) cq vu Nn oO a [aw ov n ° ley =) Qo ° =) (ss vu O oVvQO. 33 WY >ll(a)Ww oes}	
King, (1997)	When the photograph above was published  in the poorly printed History of the USSR  (Moscow, 1940), Antipov and the chandelier  had been deleted	history of the USSR, erasure of people
King, (1997)	Overleaf, lefi-hand page: \t 1s unclear why Shvernik was also eclipsed from the picture,  now heavily airbrushed, when it was used in Joseph Stalin—A Short Biography (Moscow,	stalins biography, control, erasure of people

	talin's contempt for the ordinary	
	worker is shown clearly in two	
	versions of the same picture taken	
	at the time of the Sixteenth Party	
	Congress in 1930. In the original	
	photograph (above) an attendant	
	is seen pointing his finger,	
	helpfully	
	петрину	
	directing the "Boss" (Vhozd ), as	
	he was often known. When the	
	photograph was printed in	
		edited photo, erasure of people,
King, (1997)	Projector magazine (above right)	Magazine
	hree years later, Popov and Tanev	
	were condemned by a Soviet	
	court on false charges. This	
	accounts for their departure from	
	this late-1930s retouched version	
	tins late-1950s retouched version	
	(contain Victim of attion was	
	(center). Knorin, a Latvian, was	
	also	
	dispensed with. He was later	
	tortured with a hot iron to his	
	neck for "nationalist deviations."	
	In a Bulgarian homage to Stalin	
	published in 1949 (/eft),	
	Ordjonikidze and Manuilsky have	
	also disappeared from view.	
	Dimitrov became premier of	
	Bulgaria in 1946, so perhaps it	
	was on his orders that Manuilsky,	
	a ruthless Stalinist, had to be	erasure of people, delegitimi
King, (1997)	ejected.	zing, manipulation

	pposite: When the photograph was	
	printed in a mammoth volume	
	honoring the exercise, some	
	refinements had been made. The	
	onlookers to the left have all	
	disappeared. Lazar Kaganovich,	
	the heavy-industry boss who was	
	obscured by Voroshilov (second	
	from the right in the original), has now been	
	planted behind Kuibyshev (right).	
	His waving hand (see original)	
	has gone, buta lump of his	
	shoulder has been left just behind	
	Voroshilov's. Most thoughtfully,	
	the retouchers have cleared up the	
	litter under the commissar's	erasure of people, edited photo,
King, (1997)	boots.	manipulation
	Right: Abel Yenukidze was expelled	
	from the Party by the Central	
	Committee in June 1935. Not	
	surprisingly, therefore, in the	
	edition of Pravda that broke the	
King, (1997)	news of the decision,	erasure of people, Newspapers
	Many Party bosses photographed in	
	Zen Years ofUzbekistan were	
	liquidated. The album	
	suddenly became illegal literature.	
	Using thick black India ink,	
	Rodchenko was compelled to	
King, (1997)	Rodchenko was compelled to deface his own book.	fear, control, government, black ink deleting

	Left: Almost exactly the same	
	photograph was published	
	shortly afterward in a portfolio about the congress, but	
	Yenukidze's presence was no	
	longer acceptable, and he has	erasure of people, delegitimizing,
King, (1997)	been faded into the background.	manipulation, government
	Opposite, above: The Uzbek edition	
	of Zen Years of Uzbekistan	
	appeared in 1935, after Yenukidze	
	had been sacked from the Central	
	Committee. The Uzbek Party	
	apparatchiks	
	and Molotov remain, but	
	Yenukidze's	
	departure has necessitated major	
	alterations to Tursun Kodzhayev's	
King, (1997)	suit.	erasure of people, government
	Pravda announced that "not one	
	disorder, not one accident, should	
	go unheeded." In the factories,	
	"there can be	
	no breakdowns Look for an	
	enemy." The slightest mistake,	
	miscalculation, or misprint was	
	judged deliberate. Mass	
	executions	
King, (1997)	of workers, skilled and unskilled,	control, agitation, paranoia
11116, (1777)	or workers, skilled and unskilled,	control, agracion, paranola

	followed. Top: Fyodor Antonoy's painting Disclosure	
	The photograph is heavily retouched,	
	but when it was published	
	fourteen years later	
	(right), it was retouched even	
	further: now Pyatnitsky has	
	·	erasure of people, delegitimizing,
King, (1997)	vanished.	government
	op center: M. 1. Erbanoy, the first	
	secretary, was also purged and	
	deleted from the photograph when	control, delegitimizing, erasure of
King, (1997)	it was reproduced later.	people, government
	Center: The same photograph	
	published on Stalin's seventieth	
	birthday in 1949. Yezhoy and   the	
	director of the Art Theater,   Y.	
	Boyarsky, have been spirited	arrayma of manula aditad abata
	away by the retouchers, who have carefully extended the dark	erasure of people, edited photo, delegitimizing, control,
King, (1997)	wooden paneling.	government
Milg, (1771)	wooden panering.	government

	bove, left and right: Yezhoy's	
	removal from his other post as	
	commissar of water transport is	
	clearly illustrated in this	
	photograph of a gentle stroll along	
	the banks of the Moscow- Volga	
	canal. In the retouched version,	
	only Voroshilov, Molotoy, and	
	Stalin are left to pass the	
	time of day. The canal had been	
	constructed by forced labor at an	
		erasure of people, delegitimizing,
King, (1997)	enormous cost in human lives	government
	Right: The same photograph,	
	widely published four years later,	
	widely published four years later,	
	widely published four years later,    shows the deletion of two	
	shows the deletion of two	
	shows the deletion of two	
	shows the deletion of two   officials between Antonoy and	
	shows the deletion of two officials between Antonoy and Gromyko. Admiral of the Fleet .	

For example, the notorious secretpolice torturer Yakov Peters (page

133) had suffered an ethereal, Rothko-like extinction. The face of

party functionary Akmal Ikramoy, veiled in ink, had become a ter-

rifying apparition (page 129). And there, suffering a second death,

was Isaak Zelensky, his face wiped out in one great blob and his name obliterated in the caption beneath.

This defacing, forced upon
Rodchenko, is only one example
among thousands of similar
actions from the Great Terror and
beyond. The libraries of the
former Soviet Union still bear
these scars of "vigilant" political
vandalism. Many volumes—
political, cultural, or scientific—
published in the first two decades
of Soviet rule had whole chapters
ripped out by the censors.

King, (1997)

civillians, fear

	y led the revolutionary party and
	new Soviet state. Thus, as David
	King shows us, were the
	commissars made to vanish. Why
	all this happened is still being
	passionately debated in Russia.
	Nor did the consequences end
	with Stalin. Generations of Soviet
	children, now Russian adults,
	were taught his versions of history
	well into the 1980s. In the 1950s
	and early 1960s, Nikita
	Khrushchev,
	the first post-Stalin leader, did
	reveal part of the historical truth,
	but even that was largely re-
	falsified during the long reign of
	his succes-
	sor, Leonid Brezhnev. Unlimited
	truth-telling began only in the late
	1980s, when Mikhail Gorbachev
	unleashed a tidal wave of histor-
	ical revelations in his attempt to
King, (1997)	de-Stalinize the Soviet system

Photographs for publication were retouched and restructured with airbrush and scalpel to make once famous personalities van- ish. Paintings, too, were often withdrawn from museums and art galleries so that compromising faces could be blocked out of group portraits. Entire editions of works by denounced politicians and writers were banished to the closed sections of the state libraries and archives or simply destroyed. At the same time, a parallel industry came into full swing, glo-rifying Stalin as the "great leader and teacher of the Soviet people" through socialist realist paintings, monumental sculpture, and falsified photographs representing him as the only true friend, comrade, and successor to Lenin, the leader of the Bolshevik Revolution and founder of the USSR. The whole country was sub- jected to this charade of Stalin-worship.

King, (1997)

Symbolism,, glorifying

	GHOST TRAIN	
	Opposi ( Phroughout the ( ivil	
	/:	
	War that followedthe October	
	Revolution, propaganda trains	
	steamed across the embattled	
	countryside, trying to persuade	
	the local citizens to join the Reds in	
	the sti ugele against the capitalist-	
	backed White armies. Powerfully painted on the outside by	
	enthusiastic revolutionary	
	designers and caricaturists, the carriages were	
	converted into movie theaters,	
	libraries, telegraph offices,	
	printshops, and meeting rooms.	
	The latest news from the various	
	fronts was turned into type, printed, and published in traveling	
	newspapers. In the cities agitprop	
King, (1997)	trams railed through the streets,	agitation

and on the rivers there were even	
agitprop ships.	

A word in an editor's ear or a discreet telephone conversation from a "higher authority" was sufficient to eliminate all further ref- erence—visual or literal—to a victim, no matter how famous she or he had been.

Faking photographs was probably considered one of the more enjoyable tasks for the art department of publishing houses during those times. It was certainly much subtler than the "slash-and-burn" approach of the censors. For example, with a sharp scalpel, an incision could be made along the leading edge of the image of the person or object adjacent to the one who had to be removed. With the help of some glue, the first could simply be stuck down on top of the second. A little paint or ink was then carefully brushed around the cut edges and background of the picture to hide the joins. Likewise, two or more photographs could be cannibalized into one using the

same method.

glueing and cutting, cropping of picture

King, (1997)

	Alternatively, an airbrush (an ink-jet	
	gun powered by a cylinder of compressed air) could be used to	
	spray clouds ofink or paint onto	
	the unfortunate victim in the	
	picture. The hazy edges achieved	
	by the spray made the elimination	
	of the subject less noticeable than	
	crude knife- work.	
	crude kinie- work.	
	Many photographic deletions	
	were not the result of retouching	
	at all but of straightforward	
	cropping. Art departments have	
	Left: Embossed-metal cover for a	
	1939	
	biography ofStalin, based on	
	Sergei	
	N. 1 2 100 C 4 4 H	
	Merkurov's 100-foot-tall granite	
	sculpture, which stood at the	
	entrance to the Moscow-Volga	
	canal.	
	always cropped photographs on	
	aesthetic grounds, but in the	
	acomono groundo, out in the	
	Soviet Union cropping was also	
	used with political objectives in	
King, (1997)	mind.	airbrusing, cropping of picture
	In sum, our results show that while	
	deepfakes may not be uniquely	
Barari, et al. (2021).	deceptive, they may still erode	polarization, distrust

	trust in media and increase	
	partisan polarizatio	
,	In and on to much one object and its	
J	In order to produce a high-quality	
	deepfake, albeit demonstrative of	
	current technological capabilities,	
	we consulted Buzzfeed CEO	
	Jonah Peretti, who produced the	
	first viral deep- fake video in	
	2018 of Barack Obama telling the	
	world that "President Trump is a	
	complete and utter dipsh*t". In	
	the correspondence below, he	
	explained how the deepfake,	
	created via a professional actor's	
	expert impersonation and	
	synthesized via face-swap, came	
	to exist, emphasizing the need for	
	a high-quality impersonator and	profesional actors, new realities
Barari, et al. (2021).	post-production	(adding)
•	The idea was shaped by Jordan's	
	ability to do a good Obama	
	impersonation - so that part isn't	
	fancy tech. Jordan is just better at	
	impressions than other people	
	making deep fakes and he did	
	Obama as a character on Key &	
	Peele.	
	Then we worked with Jared who	
	used a combination of deep fake	
	software down- loaded from	
	Reddit and Adobe products we	
	Reddit and Adobe products we use to do video effects and post	
	•	artificial intellegence, software

	combination of ap- proaches and Jared's prodigious talents.	
	Barack Obama	
Barari, et al. (2021).	(fake news announcemen	deception
Mack, (2018)	Oscar-winning filmmaker Jordan  Peele has a warning for viewers about trusting material they encounter online.	skilled profesionals
	his lips moving in perfect sync with his words as they become increasingly	
Mack, (2018)	bizarre. "	realistic, artificial intellegence
	The fakery was built using Adobe  After Effects, a readily available piece of video	
	software, and FakeApp, an artificial intelligence program that made headlines in	
	January when it was used to transplant actor Nicolas Cage's face into several movies	
Mack, (2018)	in which he hadn't appeared.	software applications

	a rendering that took more than 56 hours of	
Mack, (2018)	automatic processing	software applications
	For example, when Peel created the	
	Obama deepfake video, he only	
	had to manipulate the area around	
	the mouth, and use his voice to	
Greengard, (2019)	imperson- ate the president's.	easier
	Peele in conjunction with online	
Greengard, (2019)	pub- lication Buzzfeed.	online publication platforms
	The goal was to help educate the	
	public about the potential dangers	
Greengard, (2019)	of deepfakes	solutions
	Participants correctly identified 66%	
	of the deep-fake videos, as	
	compared to chance performance	
	of 50% (pooled responses from all	
	participants – so-called crowd	
2206.12043v1.pdf	wisdom	solutions
	Image -2, Zelenskyy's real video is	
	compared with the deepfake video	
	and it is revealed that the video is	
	a deepfake. In the image, it is	
	noticeable that the face and body	
	are larger than they are. The fact	
	that the face and body move more	
	than they do in the image and that	
	Zelensky blinks very quickly	
Almana (2022)	suggests that the video is a	armtathia antiCaial intelligence
Akmeşe, (2023)	deepfake	syntathic, artificial intellegence

	Following the announcement of the	
	Ukrainian Land Forces on 2	
	March 2022 from its official	
	Facebook account that Russia	
	could publish a deepfake video	
	aimed at Ukraine, it was	
	determined that there was	
	84	
	a significant increase in searches.	
	The increase in searches on	
	YouTube for deepfakes is; It	
	shows that the warnings made	
	with the support of the state have	
	been taken into consideration and	
Akmeşe, (2023)	have been successful.	solutions
	The clip was also posted to	
	Telegram and Russian social	
	network VKontakte, according to	
	the US think tank the Atlantic	
	Council. TV Channel Ukraine 24	
	said hackers defaced its website	
	with a still from the video and	
	inserted a summary of the fake	
	news into a broadcast's scrolling	Vkontakte, online publication
Simonite, (2022)	chyron.	platforms, Telegram
	Minutes after the TV station posted	
	about the hack, Zelensky himself	
	posted a Facebook video denying	
	that he had asked Ukrainians to	
	lay down their arms and calling	
Simonite, (2022)	the fake a childish provocation	solutions
	hat short-lived saga could be the first	
	weaponized use of deepfakes	
Simonite, (2022)	during an armed conflict,	anounymous
2.momo, (2022)	dering an armos commen,	

	although it is unclear who created and distributed the video and with what motiv	
Simonite, (2022)	A fake video emerged on Facebook and YouTube in which a strangely motionless version of Zelensky asked Ukrainian troops to lay down their weapons in a voice different from his usual tone	social media platforms, facebook d, youtube d
	his iconic olive shirt, Zelenskyy's tone and attire matched his other messages of the time. Yet the message itself was altogether different: Rather than urging Ukrainians to carry on their fight, Zelenskyy instead implored them to lay down their arms and surrender. Not surprisingly, the video then quickly spread on VKontakte, Telegram, and other	
Byman, et all. (2023	social media platforms, where it was picked up and reported on by global media.	Vkontakte, went viral, online publication platforms, social media platforms, Telegram
D	Deceit and media manipulation have always been a part of wartime communications, but never before has it been possible for nearly any actor in a conflict to generate realistic audio, video, and text of their opponent's polit- ical officials and military leaders. As artificial intelligence (AI) grows more sophisticated and the cost of computing continues to drop, the	
Byman, et all. (2023	challenge deepfakes pose to	artificial intellegence, easier

	online information environments	
	will only grow	
	As the aforementioned fake	
	Zelenskyy video suggests,	
	deepfakes are now being used in	
	international conflicts, and their	
	role is only likely to grow in the	
Byman, et all. (2023	coming years.7	Ukrainian-Russian war
	States and nonstate actors,	
	particularly illiberal ones, can use	anounymous, governments, non
Byman, et all. (2023	deepfakes for many purposes.	state actors
	Russia's video of Zelenskyy had him	
	instructing Ukrainian soldiers to	
	lay down their arms and surrender	
Byman, et all. (2023	to invading Russian forces. S	manipulation of the people
	Sowing confusion. When civilians	
	and soldiers are instructed to	
	ignore leaders' instructions as	
	potential fakes, they may also	
	inadvertently ignore legitimate	
	orders — creating confusion at a	manipulation of the people,
Byman, et all. (2023	dangerous time.	confusion
	deepfakes creates a "liar's dividend,"	
	allowing political leaders to	
	dispute the authenticity of their	
	own genuine misbehavior.14 In	
	essence, this inadvertent	
	confusion is a mirror image of	
Byman, et all. (2023	false orders: instead of false	the liar's dividend

instructions being followed, legitimate ones are discarded.

Of course, deepfakes will often fail, and even when they are viewed as genuine, they will rarely be magic policy bullets for the United States or for its adversaries. As the Zelenskyy video shows, some deepfakes may be clumsy and easily dismissed. Even better produced ones may have only limited impact: Thomas Rid's work on the history of influence campaigns shows that influence operations are often hit or miss.24 Also, as audiences' awareness of deep- fakes and disinformation in general grows so too will their

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