

**(4) Taxpayer protection**

The Secretary shall receive financial instruments issued by recipients of financial assistance under this section in the same form and amount, and under the same terms and conditions, as determined by the Secretary under section 9098 of this title.

**(5) Administrative expenses**

Of the amounts made available under paragraph (1)(A), \$10,000,000 shall be made available to the Secretary for costs and administrative expenses associated with providing financial assistance under this section.

**(c) Funding**

In addition to amounts otherwise available, there is appropriated for fiscal year 2021, out of any money in the Treasury not otherwise appropriated, \$15,000,000,000, to remain available until expended, to carry out this section.

(Pub. L. 117-2, title VII, §7301, Mar. 11, 2021, 135 Stat. 104.)

**Editorial Notes**

**CODIFICATION**

Section was enacted as part of the American Rescue Plan Act of 2021, and not as part of the CARES Act which in part comprises this chapter.

**CHAPTER 117—IDENTIFYING OUTPUTS OF GENERATIVE ADVERSARIAL NETWORKS**

Sec.	
9201.	Findings.
9202.	NSF support of research on manipulated or synthesized content and information security.
9203.	NIST support for research and standards on generative adversarial networks.
9204.	Generative adversarial network defined.

**§ 9201. Findings**

Congress finds the following:

(1) Gaps currently exist on the underlying research needed to develop tools that detect videos, audio files, or photos that have manipulated or synthesized content, including those generated by generative adversarial networks. Research on digital forensics is also needed to identify, preserve, recover, and analyze the provenance of digital artifacts.

(2) The National Science Foundation’s focus to support research in artificial intelligence through computer and information science and engineering, cognitive science and psychology, economics and game theory, control theory, linguistics, mathematics, and philosophy, is building a better understanding of how new technologies are shaping the society and economy of the United States.

(3) The National Science Foundation has identified the “10 Big Ideas for NSF Future Investment” including “Harnessing the Data Revolution” and the “Future of Work at the Human-Technology Frontier”, with artificial intelligence is a critical component.

(4) The outputs generated by generative adversarial networks should be included under the umbrella of research described in paragraph (3) given the grave national security and societal impact potential of such networks.

(5) Generative adversarial networks are not likely to be utilized as the sole technique of artificial intelligence or machine learning capable of creating credible deepfakes. Other techniques may be developed in the future to produce similar outputs.

(Pub. L. 116-258, §2, Dec. 23, 2020, 134 Stat. 1150.)

**Statutory Notes and Related Subsidiaries**

**SHORT TITLE**

Pub. L. 116-258, §1, Dec. 23, 2020, 134 Stat. 1150, provided that: “This Act [enacting this chapter] may be cited as the ‘Identifying Outputs of Generative Adversarial Networks Act’ or the ‘IOGAN Act’.”

**§ 9202. NSF support of research on manipulated or synthesized content and information security**

The Director of the National Science Foundation, in consultation with other relevant Federal agencies, shall support merit-reviewed and competitively awarded research on manipulated or synthesized content and information authenticity, which may include—

(1) fundamental research on digital forensic tools or other technologies for verifying the authenticity of information and detection of manipulated or synthesized content, including content generated by generative adversarial networks;

(2) fundamental research on technical tools for identifying manipulated or synthesized content, such as watermarking systems for generated media;

(3) social and behavioral research related to manipulated or synthesized content, including human engagement with the content;

(4) research on public understanding and awareness of manipulated and synthesized content, including research on best practices for educating the public to discern authenticity of digital content; and

(5) research awards coordinated with other federal agencies and programs, including the Defense Advanced Research Projects Agency and the Intelligence Advanced Research Projects Agency,<sup>1</sup> with coordination enabled by the Networking and Information Technology Research and Development Program.

(Pub. L. 116-258, §3, Dec. 23, 2020, 134 Stat. 1151.)

**§ 9203. NIST support for research and standards on generative adversarial networks**

**(a) In general**

The Director of the National Institute of Standards and Technology shall support research for the development of measurements and standards necessary to accelerate the development of the technological tools to examine the function and outputs of generative adversarial networks or other technologies that synthesize or manipulate content.

**(b) Outreach**

The Director of the National Institute of Standards and Technology shall conduct outreach—

<sup>1</sup> So in original. Probably should be “Activity,”.