

In Deep Trouble: Surfacing Tech-Powered Sexual Harassment in K-12 Schools

Survey Research on Student, Teacher, and Parent Experiences



September 2024

About This Research



Research Objectives

Since 2020, CDT has conducted annual or semi-annual surveys with students, teachers, and/or parents. The surveys measure and track changes in perceptions, experiences, training, engagement, and concerns about student data privacy, student activity monitoring, content filtering and blocking software, generative AI, NCII, and deepfakes in schools.

Methodology

Online surveys of **students**, **teachers**, **and parents** were fielded June to August 2024.

	Sample size	Jun-Aug 2024	Nov-Dec 2023	Jun-Aug 2023	May-Jun 2022	Jun-Jul 2021	Feb 2021	May-Jul 2020
Student survey (9-12 th grade)	1,316	✓		✓	✓	✓		Student focus groups
Teacher survey (6 th -12 th grade)	1,006	✓	✓	✓	✓	✓	✓	\checkmark
Parent survey (6 th -12 th grade)	1,028	✓		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Over samples of Black students and students who identify as LGBTQ+ were collected and data were then weighted down to reflect the student population by race and LGBTQ+ status.

Throughout the report, $\uparrow \downarrow$ or **bolding** indicates significant differences between comparison groups at the 95% confidence level.

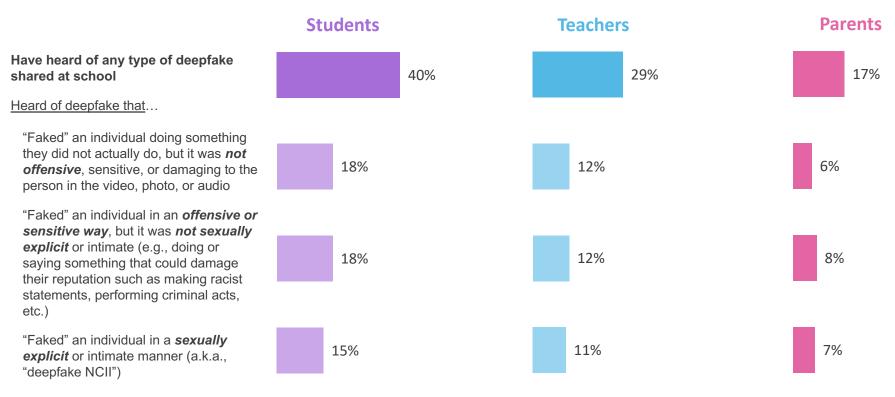
Students, teachers, and parents have heard of deepfakes being shared



• Forty percent of students and 29 percent of teachers say they know of a deepfake being shared depicting individuals associated with their school in the past school year (2023-2024). Parents are less aware.

Reported Awareness of Deepfakes

■ Students (n=1,316) | ■ Teachers (n=1,006) | ■ Parents (n=1,028)



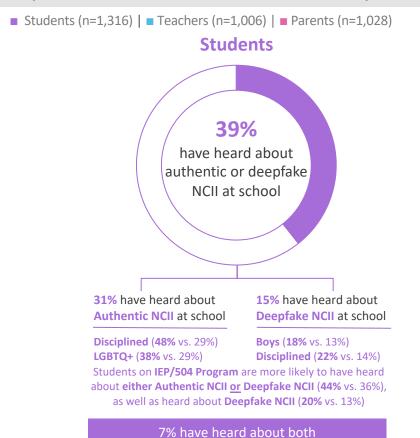
^{*}note: small wording changes were made appropriate to the audience

A plurality of students and teachers have heard about an NCII incident at their school in the last school year (2023-2024)

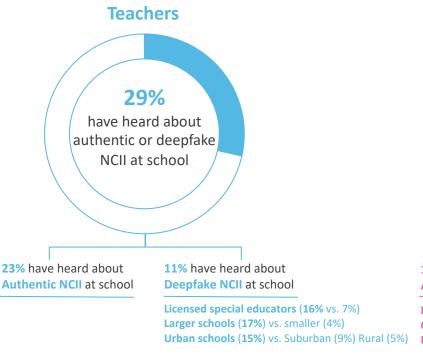


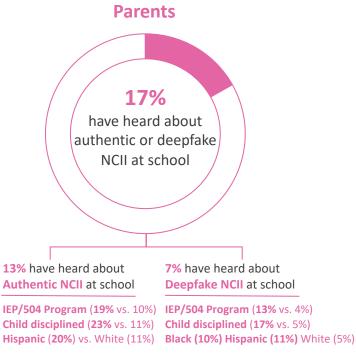
 Although it is currently more common for students and teachers to hear about authentic NCII being shared depicting individuals associated with their school, a sizeable percentage is deepfake NCII.

Reported Awareness of Authentic or Deepfake NCII at School



Authentic NCII and Deepfake NCII





5% have heard about <u>both</u>
Authentic NCII and Deepfake NCII

3% have heard about <u>both</u>
Authentic NCII and Deepfake NCII

[Teachers] Q61: In the last school year (2023-2024), have you heard about incident(s) of "NCII" being shared by individual(s) at your school without the consent of the person depicted? [Teachers] Q68: In the last school year (2023-2024), have you heard about incident(s) of deepfakes being shared that depict individuals associated with your school? Select all that apply.

[Students] Q61: In the last school year (2023-2024), have you heard about "NCII" being shared by anyone at your school without the permission of the person pictured or heard?

[Students] Q68. In the last school year (2023-2024), have you heard about "deepfakes" being shared that picture or contain fake video, photo, or audio meant to look or sound like someone associated with your school without their permission (e.g., a student, teacher, principal, sports coach, a student's parent, etc.)?

[Parents] Q61: In the last school year (2023-2024), have you heard about incident(s) of "NCII" being shared by individual(s) at your child's school without the consent of the person pictured or heard? [Parents] Q68: In the last school year (2023-2024), have you heard about incident(s) of "deepfakes" being shared at your child's school? Select all that apply.

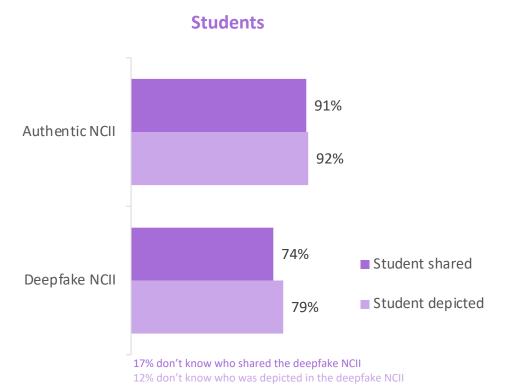
Students are most aware of deepfake NCII at their school that was shared by and depicts students



Although students are the most likely to be depicted in and to share deepfake NCII, teachers, staff, or other adults associated
with the school are also affected.

Individuals Sharing or Depicted in Deepfake NCII

■ Students (n=202) | ■ Teachers (n=103) who heard about deepfake NCII being shared at their school in the last year



Deepfake NCII affects teachers in addition to students

43% of teachers say a teacher, administrator, or other school staff member was depicted compared to **58%** of teachers who say a student was depicted in deepfake NCII they heard about

[Students] Q70: Earlier, you indicated that you heard about a deepfake at your school in which an individual associated with your school was pictured or heard in fake videos, photos, or audio recordings in a sexually explicit or intimate manner and without their permission. This is referred to as "deepfake NCII." Thinking about the deepfake NCII you heard about at your school, who shared the deepfake NCII? Select all that apply.

[Students] Q71: Who was pictured or heard in the "deepfake NCII" that was shared without their permission? Select all that apply.

[Teachers] Q70: Earlier, you indicated that you heard about a deepfake at your school in which a video, photo, or audio recording falsely showed an individual associated with your school in a sexually explicit or intimate manner without their consent. This is referred to as "deepfake NCII."

Who shared the deepfake NCII? Select all that apply.

[Teachers] Q71: Who was depicted in the deepfake NCII? Select all that apply.

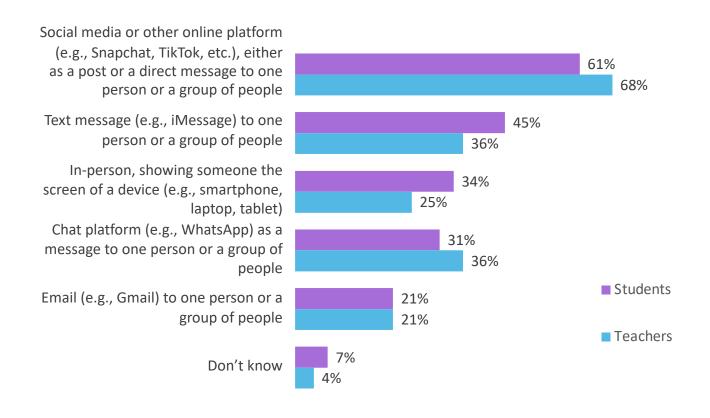
Deepfake NCII is primarily shared through social media



After social media – chat applications, text message, and in-person sharing are other significant channels for sharing deepfake NCII.

Ways Deepfake NCII is Shared

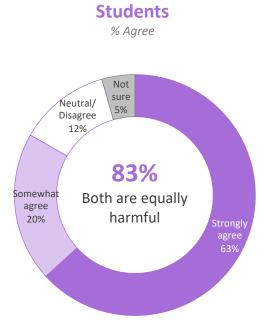
■ Students (n=202) | ■ Teachers (n=103) who heard about deepfake NCII at their school in the last year



The majority of students, teachers, and parents feel that authentic and deepfake NCII are equally harmful to the person depicted

Authentic vs. Deepfake NCII Perceptions of Harm

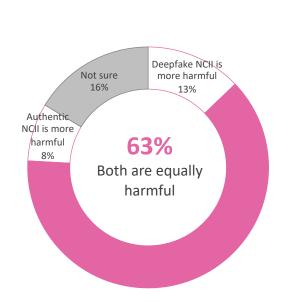
■ Students (n=1,316) | ■ Teachers (n=1,006) | ■ Parents (n=1,028)



I believe that sharing "deepfake NCII" is as damaging to the person pictured or heard in the fake videos, photos, or audio recordings as sharing real-life "NCII"

Authentic NCII is more harmful 11% 72% Both are equally harmful

Teachers



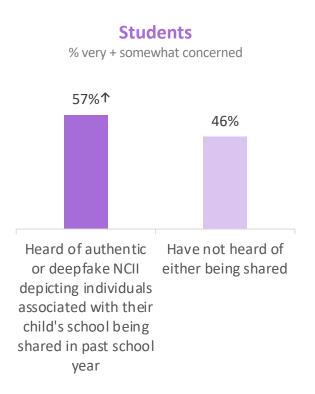
Parents

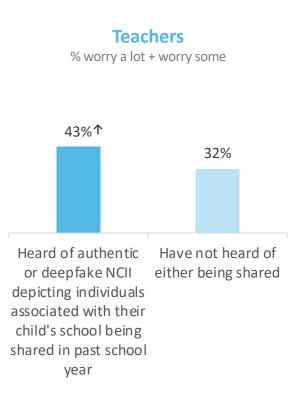
Those who have heard of either authentic or deepfake NCII being shared are more likely to express concern about data privacy

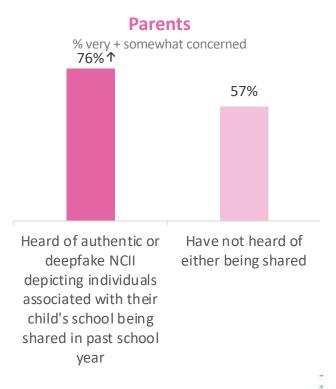


Concern/Worry about Students' Data Privacy by Familiarity with Authentic or Deepfake NCII Being Shared in the Past Year

■ Students (n=1,316) | ■ Teachers (n=1,006) | ■ Parents (n=1,028)







Female students are reportedly depicted in deepfake NCII more often than their peers

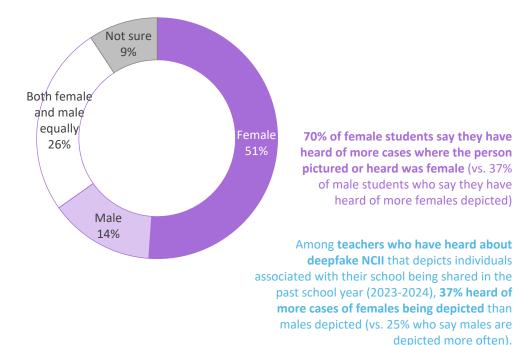


• Additionally, fewer female students than males agree that jail is too harsh a punishment or that first time offenders should face less serious consequences for sharing deepfake NCII.

Impact on Female Students

■ Students who have heard about deepfake NCII at their school (n=202) | ■ Teachers who have heard about deepfake NCII at their school (n=103)

Heard of More Cases of... Females vs. Males Depicted in Deepfake NCII



% of students who agree with the statement

	Female students	Male students
It is too harsh a punishment to send a student to jail if they share "deepfake NCII"	27%	34%个
Students who have only been caught sharing deepfake NCII once should face less serious criminal consequences than someone that has done it more than once	40%	51%个

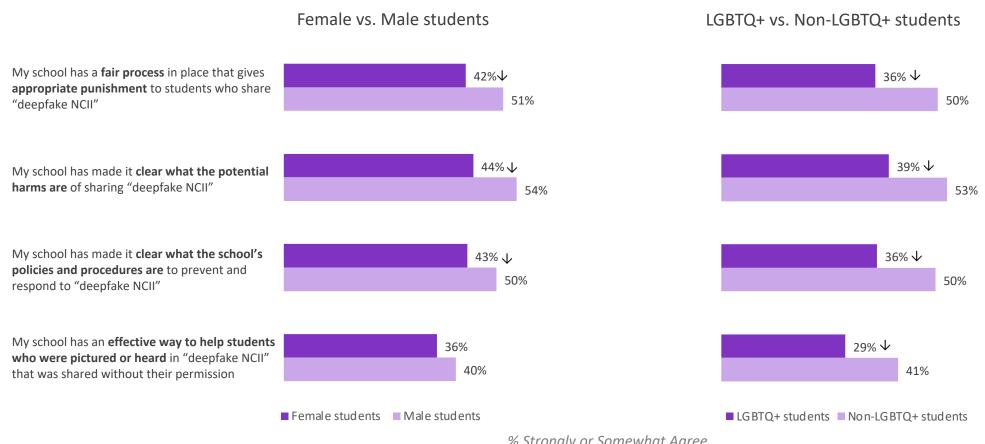
Female and LGBTQ+ students are less likely to agree that their school has an adequate and fair process for responding to incidents of deepfake NCII



Male students and non-LGBTQ+ students have greater confidence in their school's policies for responding to or addressing deepfake NCII incidents.

Student Perceptions of School Policies about Deepfake NCII

■ Students (n=1,316)



Few teachers report that their school has shared policies or practices that proactively address authentic or deepfake NCII



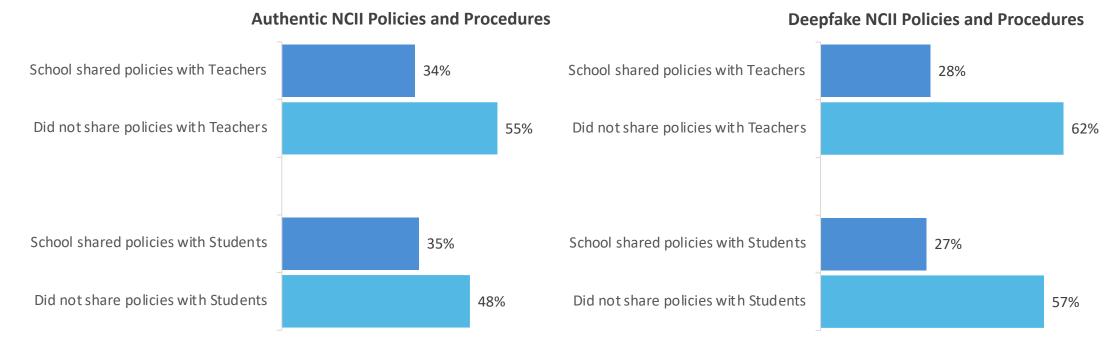
• The majority of teachers say their school has <u>not</u> shared NCII policies and procedures with teachers or students.

School or School District Shared Authentic and/or Deepfake NCII Policies and Information

■ Teachers (n=1,006)

Six-in-ten teachers surveyed report that they have not heard (either say their school has not provided or are not sure) of their school or school district sharing policies and procedures with teachers about how to address authentic or deepfake NCII.

% of Teachers Reporting School or School District Shared Deepfake NCII Policies and Procedures with Teachers and Students



Awareness of school policies and procedures about deepfake NCII is low among teachers and students



Teacher and Student Perceptions of School Policies about Deepfake NCII

■ Teachers (n=1,006) | ■ Students (n=1,316)

School Policies & Procedures

My school has a fair process in place that imposes appropriate consequences, or punishments, on students who share deepfake NCII without the consent of the person who is depicted

My school has a fair process in place that adequately supports individuals who had deepfake NCII shared about them without their consent

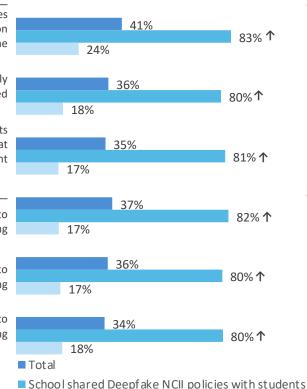
My school does a good job of educating students about the potential harms of deepfake NCII that prevents students from sharing it without the consent of the person who is depicted

Communicating Policies & Procedures

My school has done a good job of communicating to **teachers** its policies and procedures for preventing and responding to deepfake NCII*

My school has done a good job of communicating to **parents** its policies and procedures for preventing and responding to deepfake NCII*

My school has done a good job of communicating to **students** its policies and procedures for preventing and responding to deepfake NCII*



School Policies & Procedures

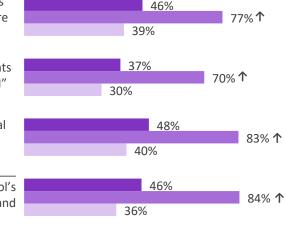
My school has a fair process in place that gives appropriate punishment to students who share "deepfake NCII"

My school has an effective way to help students who were pictured or heard in "deepfake NCII"

My school has made it clear what the potential harms are of sharing "deepfake NCII"

Communicating Policies & Procedures

My school has made it clear what the school's policies and procedures are to prevent and respond to "deepfake NCII"



Only **34 percent** of students agree that their school does a good job of catching students who share deepfake NCII

■ Total

School provided information about Deepfake NCII

School did not share policies

Most teachers report they have not received training on how to respond to deepfake NCII and their school has not updated its policies to address it



• Just 1 in 10 teachers indicate that the school provided resources to support individuals depicted in deepfake NCII.

School Training and Policies and Procedures Regarding Deepfake NCII

■ Teachers (n=1,006)

Teacher Training on School or District Deepfake NCII Policies		
How to protect the privacy of a student who was depicted in "deepfake NCII" that was shared without their consent	16%	
How the school or school district's discipline policy applies to students who share "deepfake NCII" that depicts another student without their consent	16%	
How to protect the privacy of a student accused of sharing "deepfake NCII" that depicts another student without their consent	14%	
Who to tell within the school or school district if a student receives or views "deepfake NCII" that depicts another student	13%	
How to communicate with the students' families who were involved in an incident that involves sharing "deepfake NCII"	9%	
Resources and policies for teachers and school staff members accused of sharing "deepfake NCII" without the consent of the person depicted	7%	
No answer choices selected		
Not sure	10%	

School Response to Address Deepfake NCII (in Past School Year)				
School Response to Address Deeplake Non (in Fast School Tear)				
Updated sexual harassment policies to specifically include "deepfake NCII" (e.g., through school board policies, student codes of conduct, or Title IX policies)	23%			
Updated student discipline policies to address the consequences, or punishments, of sharing "deepfake NCII" without the consent of the person who is depicted	23%			
Updated policies for how teachers should discipline students to address the consequences of sharing "deepfake NCII" without the consent of the person who is depicted	16%			
Created policies and procedures that specifically address "deepfake NCII"	16%			
Provided resources to help individuals who were depicted in "deepfake NCII" without their consent report the incident to the school	12%			
Provided resources to help individuals who were depicted in "deepfake NCII" without their consent report the incident to law enforcement	8%			
Provided resources for individuals who were depicted in "deepfake NCII" without their consent to have it removed from social media or other public forums where it appeared	5%			
My school has not addressed "deepfake NCII" at all	42%			
Not sure/Not aware of this	16%			

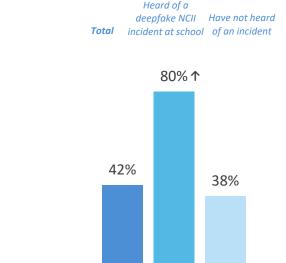
Schools reactively address deepfake NCII once there has been an incident at their school



- Most teachers, students, and parents have not received policies about deepfake NCII from their school.
- Those at schools where deepfake NCII has been shared are twice as likely to have received school policies and procedures, suggesting that schools are reactively addressing deepfake NCII and creating policy when it happens.

School or School District Shared or Updated Deepfake NCII Policies and Information

■ Teachers (n=1,006)



Licensed special educators (54% vs. 35%) Non-LGBTQ+ Teachers (44% vs. 31%) Urban (64%) Suburban (32%) Rural (28%)

My school has addressed deepfake NCII

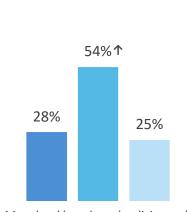
in some way within the past school year



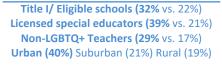


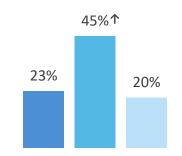


Heard of a
deepfake NCII Have not heard
Total incident at school of an incident



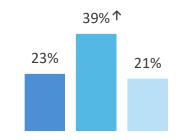
My school has shared policies and procedures about deepfake NCII with teachers





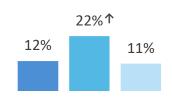
My school updated student discipline policies to address the consequences, or punishments, of sharing "deepfake NCII"

Licensed special educators (32% vs. 17%) Urban (40%) Suburban (14%) Rural (12%)



Updated sexual harassment policies to specifically include "deepfake NCII" (e.g., through school board policies, student codes of conduct, or Title IX policies)

Licensed special educators (27% vs. 20%) Urban (32%) Suburban (18%) Rural (17%)



Provided resources to help individuals who were depicted in "deepfake NCII" report the incident to the school

Licensed special educators (17% vs. 10%) Urban (18%) Suburban (9%) Rural (9%)

Many students say they have not been given guidance about deepfake NCII by their school



- Among students who have received guidance, this has primarily included explaining what deepfake NCII is and communicating the discipline policy for those that share this content.
- Students report low awareness of school resources available for victims of deepfake NCII.

School Guidance to Students Regarding Deepfake NCII

■ Students (n=1,316) | ■ Parents (n=1,028)

Student Reported Guidance on School or District Deepfake NCII Policies				
School Gave Guidance about Deepfake NCII (net)				
Made it clear how a student would be punished by the school if they shared "deepfake NCII"	20%			
Explained to students what "deepfake NCII" is	19%			
Communicated to parents (e.g., sent a notice home to parents about updated policies, discussed at PTA meeting) about "deepfake NCII," like what its harms are and what the school is doing about it	15%			
Told students who to tell at school if they see or hear about "deepfake NCII"	15%			
Sharing "deepfake NCII" without the permission of the person pictured or heard in the fake videos, photos, or audio recordings can be punished severely, including civil and criminal penalties, such as going to jail or paying a fine	13%			
What to do if a student hears about "deepfake NCII", but have not seen it	13%			
Sharing "deepfake NCII" without the permission of the person pictured or heard in the fake videos, photos, or audio recordings is harmful to the person	13%			
Provided resources for students who were pictured or heard in "deepfake NCII" to have it removed from social media, the internet, etc.	10%			
Provided resources to help students who were pictured or heard in "deepfake NCII" report the incident to the police	10%			
Offered counseling to students who were pictured or heard in "deepfake NCII" without their permission	10%			
Updated the student handbook to explicitly address "deepfake NCII"	9%			

Parent Reported Guidance on School or District Deepfake NCII Policies	
Shared the school or school district's discipline policy and how it applies to students who share "deepfake NCII"	14%
Explained that a student sharing "deepfake NCII" could receive civil and/or criminal penalties	13%
Shared how the school will communicate with parents if their child is involved in an incident that involves sharing "deepfake NCII"	13%
Gave guidance to parents about who students should tell within the school or school district if they receive or view "deepfake NCII"	13%
Explained to parents what "deepfake NCII" is and how it can be damaging to the person in the video, photo, or audio	12%
Explained that a parent whose child shared "deepfake NCII" could be subject to civil penalties on behalf of their child	12%
Shared how the school will communicate with students about the risks of "deepfake NCII"	4%
Shared how the school will communicate with students about the penalties associated with sharing "deepfake NCII"	4%
Shared how the school will communicate with students about how damaging "deepfake NCII" can be to the person in the video, photo, or audio	4%

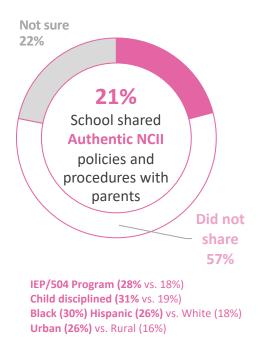
Few parents report that their school provided guidance to parents on their NCII policies and procedures

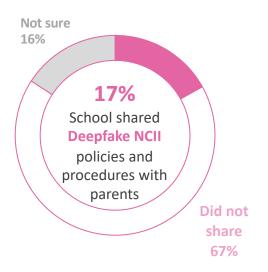


• Just as many are unsure, underscoring low parent awareness of NCII as an issue in schools compared to students and teachers.

School Shared Authentic and Deepfake NCII Policies and Procedures with Parents

■ Parents (n=1,028)





IEP/504 Program (24% vs. 14%)
Child disciplined (27% vs. 15%)
Black (23%) Hispanic (23%) vs. White (14%)
Urban (19%) vs. Rural (11%)

Most teachers and students do not think their school has the appropriate support mechanisms in place for victims of deepfake NCII



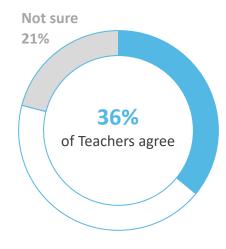
School Support for Individuals Depicted in Deepfake NCII

■ Students (n=1,316) | ■ Teachers (n=1,006) | ■ Parents (n=1,028)

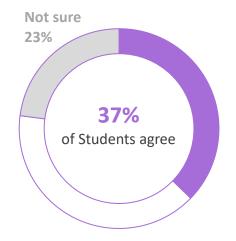
My school has a fair process in place that adequately supports individuals who had deepfake NCII shared about them without their consent

My school has an effective way to help students who were pictured or heard in "deepfake NCII" that was shared without their permission

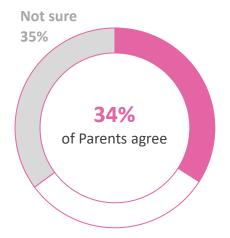
My child's school has an effective way to help students who were pictured or heard in "deepfake NCII" that was shared without their consent



Licensed special educators (43% vs. 31%) Urban (49%) Suburban (30%) Rural (26%)



IEP/504 Program (48% vs. 30%)
Non-LGBTQ+ (41%) vs. LGBTQ+ (29%)
Not disciplined in last year (39%) vs. disciplined (29%)
Black (45%) Hispanic (43%) vs. White (35%)
Urban (54%) Suburban (34%) Rural (29%)



Black (51%) Hispanic (38%) vs. White (29%) **Urban (42%)** Suburban (32%) Rural (30%)

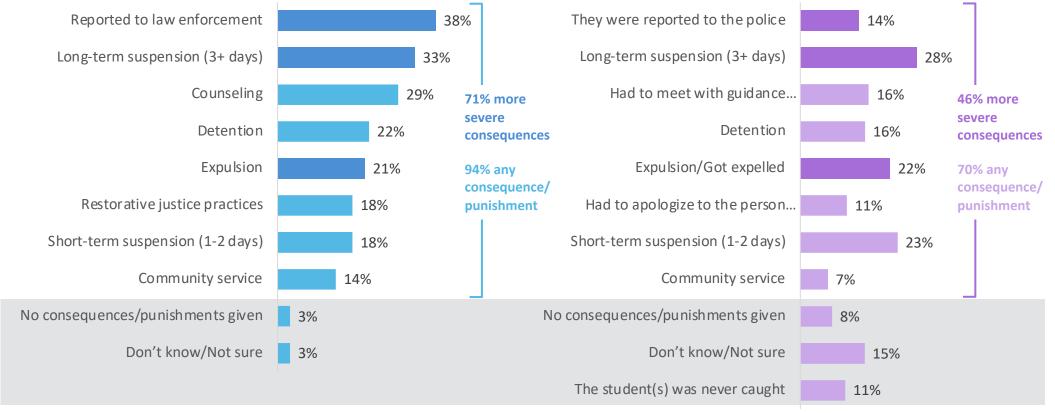
Students who are caught sharing deepfake NCII can be subject to significant consequences



 Nearly all teachers report that their school took action in some way by punishing or delivering consequences to the student(s) who shared deepfake NCII.

Consequences to Individuals Sharing Deepfake NCII

■ Teachers (n=103) | ■ Students (n=202) who heard about deepfake NCII at their school in the last year



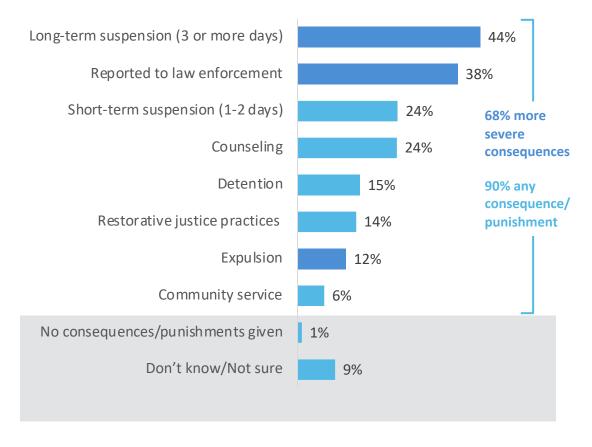
Students who are caught sharing authentic NCII can be subject to significant consequences



• As with deepfake NCII, nearly all teachers report that their school took action in some way by punishing or delivering consequences to the student(s) who shared authentic NCII.

Consequences to Individuals Sharing Authentic NCII

■ Teachers (n=182) who heard about authentic NCII at their school in the last year

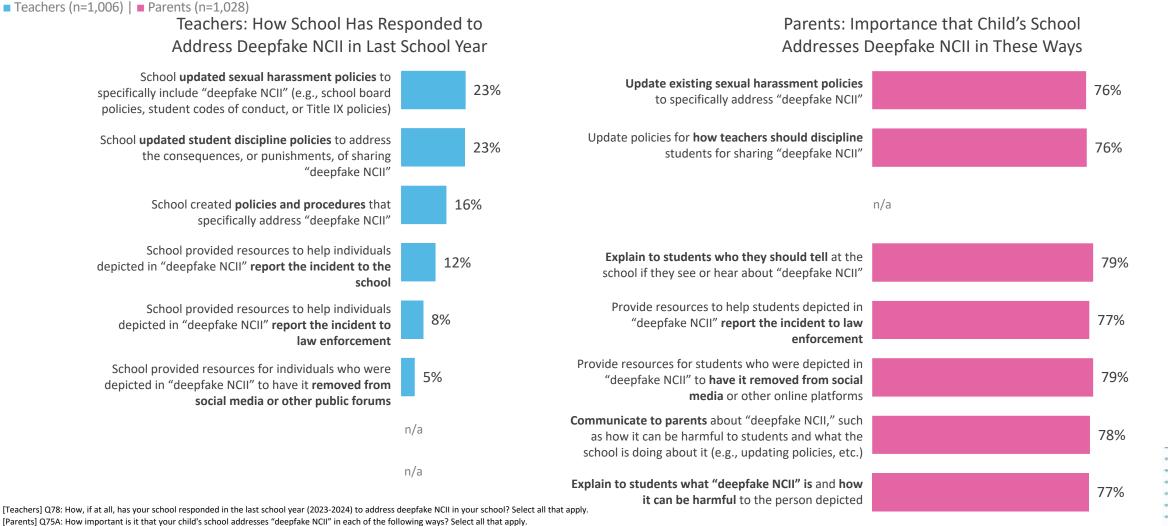


While parents indicate a strong desire for various support measures at school, teachers report very little is available



Parents show strong support for doing more to educate students and parents to help prevent deepfake NCII from happening in the first place.

Teacher Reported and Parent Supported Measures for the School Addressing Deepfake NCII

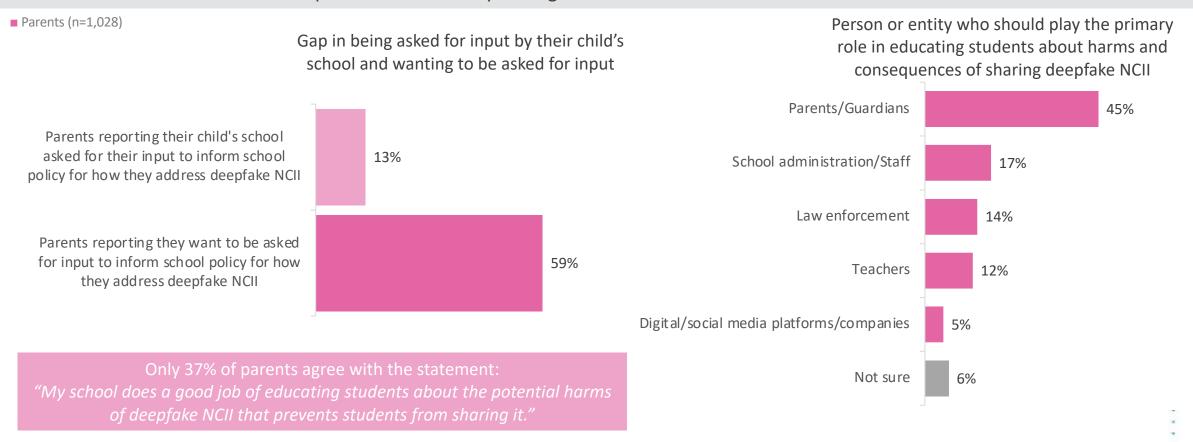


Parents want to be included in informing school policy for addressing authentic and deepfake NCII



- However, there is a large gap between parents saying they *are* included in the process when schools are creating policy for addressing deepfake NCII and those that want to be.
- Nearly half of parents say that they should be the primary person responsible for talking to their children about NCII, more than any other person or entity.

Parent Involvement in Schools' Deepfake and NCII Policymaking



Parents prefer less severe school responses than teachers report are given



• While teachers report law enforcement involvement and long-term suspension as the top consequences for students who shared deepfake NCII, parents prefer less harsh penalties – educating the student(s) about the harmful impacts of sharing deepfake NCII and counseling for the student who shared the deepfake NCII.

Teacher stated and Parent-Suggested Consequences to Individuals Sharing Deepfake NCII

■ Teachers (n=1,006) | ■ Parents (n=1,028)

	p 3 orted	Teacher-reported consequences that their school has imposed in the past school year Top 3 suggested		Parent-suggested consequence for a student's first offense	Parent-suggested consequence for a student who has done it before	
#	‡1		Law enforcement referral	#1	Teach student who shared deepfake NCII about its harmful impacts*	Teach student who shared deepfake NCII about its harmful impacts*
#	‡2		Long-term suspension	#2	Counseling	Counseling, Law enforcement referral (tied)
#	‡3		Counseling	#3	Give the student a warning*	Long-term suspension; Expulsion (tied)

^{*}option was added to the Parent survey after the Teacher survey had already fielded without this option



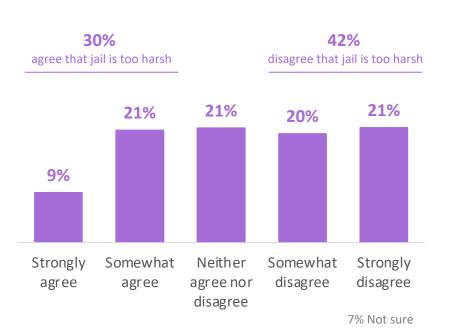
Students are not opposed to harsh penalties for students that share deepfake NCII – however, a plurality feel there should be leniency for first time offenders



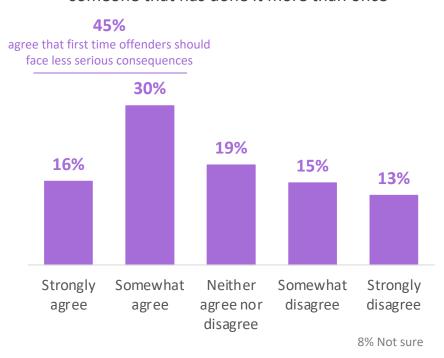
Student Perceptions of Legal/Criminal Consequences for Sharing Deepfake NCII

■ Students (n=1,316)

It is too harsh a punishment to send a student to jail if they share "deepfake NCII"



Students who have only been caught sharing deepfake NCII once should face less serious criminal consequences than someone that has done it more than once





Contact Us

Center for Democracy & Technology, Equity in Civic Technology Project

CivicTech@cdt.org

The Center for Democracy & Technology is a 25-year old 501(c)(3) working to promote civil rights and civil liberties in the digital age. Based in Washington, D.C., and Brussels, Belgium, CDT works inclusively across sectors to find tangible solutions to today's most pressing technology policy challenges. Our team of experts includes lawyers, technologists, academics, and analysts, bringing diverse perspectives to all of our efforts.

The Equity in Civic Technology Project works to advance responsible civic technology use and strong privacy practices that protect the rights of individuals and families. If you want to learn more about CDT and our work, please visit our website: https://cdt.org/.