

JAMAL'S JOURNEY:

A STUDENT DATA WALKTHROUGH
BY SOPHIE WANG AND NOTICE COALITION



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A STUDENT DATA JOURNEY WITH JAMAL!

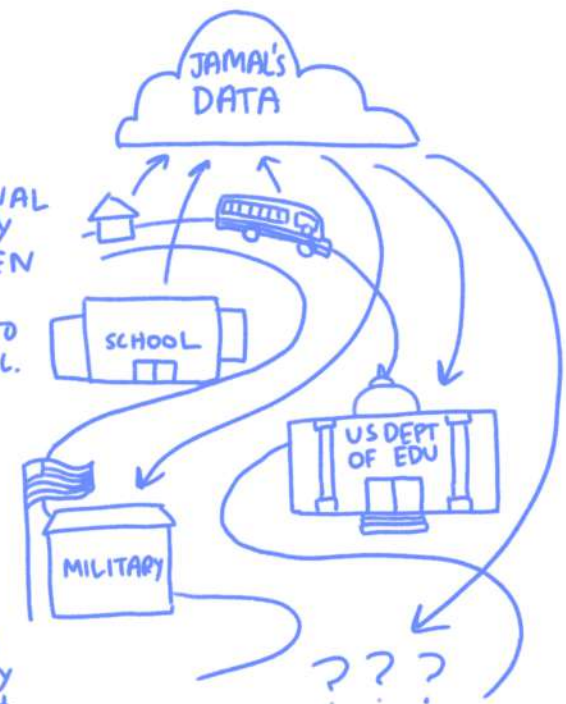


THIS IS JAMAL!

JAMAL IS ABOUT TO START
HIS FIRST DAY OF SCHOOL!

IN THE PAGES THAT
FOLLOW, WE'LL MOVE
ALONGSIDE OUR FICTIONAL
FRIEND ON HIS JOURNEY
THROUGH A DATA-DRIVEN
SCHOOL EXPERIENCE,
FROM KINDERGARTEN TO
THE END OF HIGH SCHOOL.

WE'LL SEE JUST
A SNIPPET OF
SOME KINDS OF
DATA THAT ARE
COLLECTED ON
JAMAL, WHO COLLECTS
THEM, AND WHO THEY
CAN BE SHARED WITH.



AND HOW ALL OF THIS DATA COLLECTION,
STORAGE, SHARING, USAGE, ANALYSIS, AND
SELLING MIGHT IMPACT JAMAL'S LIFE.

BUT BEFORE WE GET INTO THE DATA TOURNEY, LET'S TALK A BIT ABOUT DATA AND DATA COLLECTION, AND WHY THIS IS AN IMPORTANT CONVERSATION.

WHAT IS DATA?



DATA DESCRIBES VARIOUS KINDS OF INFORMATION FORMATTED IN A PARTICULAR WAY.



DATA CAN BE THE AMOUNT OF SNOWFALL EACH MONTH IN MINNEAPOLIS, OR WHAT THE FAVORITE CEREAL OF EVERYONE IN YOUR CLASS IS.

WHAT IS DATA COLLECTION?



DATA COLLECTION IS THE PROCESS OF GATHERING, MEASURING, AND ANALYZING DATA FROM A VARIETY OF RELEVANT SOURCES TO FIND ANSWERS TO RESEARCH PROBLEMS, ANSWER QUESTIONS, EVALUATE OUTCOMES, AND FORECAST TRENDS AND PROBABILITIES.

ADDITIONAL RESOURCES

STUDENT DIGITAL RIGHTS

Young people must navigate a complex and growing web of school surveillance technologies that leverage student data to monitor, punish, and control their lives at school, at home, and online. This is especially true for young people from historically marginalized communities, including Black, brown, LGBTQIA, immigrant, low-income, and disabled populations.

To that end, student digital rights were established to protect students and encompass the following:

- Access and use of digital content
- Creation and sharing of digital media
- Personal privacy in digital communities
- Freedom of speech and expression
- Right to report anything that is seen as inappropriate
- Right to ask for your data to be deleted from a platform
- Freedom of assembly online
- Right to develop their internet infrastructure
- Access to computers and other electronic devices

A portfolio of federal, state, and local rights exists to protect students from the misuse, abuse, and profiteering associated with digital technologies.

These include the Fourth Amendment right against warrantless searches of a student's digital content; the Family Education Rights Protection Act (FERPA) which protects against unauthorized disclosure of a student's education records; Title VI of the Civil Rights Act of 1964 that prevents schools from engaging in school surveillance practices that discriminate against students on the basis of race and nationality; and the Americans with Disabilities Act, Individuals with Disabilities Act, and Section 504 of the Rehabilitation Act which all protect students with disabilities from discrimination.

While Civil Rights and Equal Protection laws, Data Privacy Rights, Right to Due Process, Consumer protection rights, Fourth Amendment Rights, First Amendment Rights, State and Local Laws and Regulations exist and amount to the case for student digital rights, the laws and their enforcement fall short of needed protections.

ACKNOWLEDGEMENTS

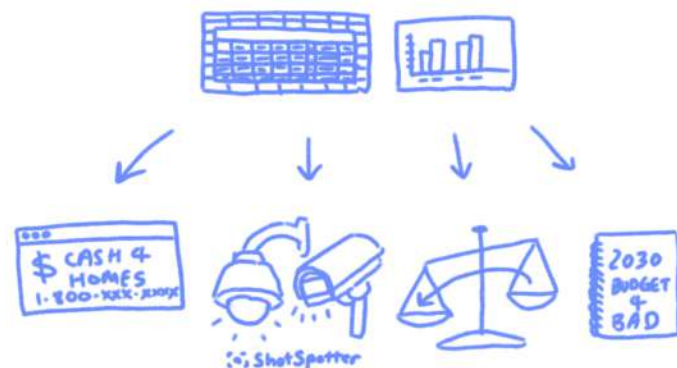
THIS ZINE WAS ADAPTED FROM THE PARENT TOOLKIT FOR STUDENT PRIVACY, DEVELOPED BY THE PARENT COALITION FOR STUDENT PRIVACY, AND BUILT UPON BY CLARENCE OKOH, ED VOGEL, MARIKA PFEFFERKORN, AND CHELSEA BARABAS OF THE NO TECH CRIMINALIZATION IN EDUCATION (NOTICE) COALITION.

THANK YOU AS WELL TO DAVID VALENTINE AND THE RACIAL JUSTICE STEM COLLECTIVE WHOSE MARCH 2024 CONVENING THIS ZINE WAS CREATED FOR.

DATA CAN BE USED TO PROVIDE SUPPORT TO THOSE WHO NEED IT, SHOW INEQUITIES SO THEY CAN BE ADDRESSED, OR PROVIDE FEEDBACK ON WHETHER A POLICY CHANGE IS HAVING THE INTENDED IMPACTS.



ON THE OTHER HAND, DATA CAN ALSO BE USED TO PREDATORILY MARKET PRODUCTS TO PEOPLE, TARGET SPECIFIC GROUPS FOR SURVEILLANCE OR PUNISHMENT, AND EXACERBATE EXISTING INEQUITIES.





IN ALL OF THESE CASES, DATA IS BEING COLLECTED, ANALYZED, AND USED TO PAINT A PICTURE AND TELL A STORY. THESE STORIES THEN SHAPE HOW WE SEE AND TREAT ENTIRE GROUPS OF PEOPLE.

WHILE IT CAN BE TEMPTING TO THINK OF DATA AS OBJECTIVE OR NEUTRAL, DATA CANNOT BE NEUTRAL WHEN IT IS USED TO TELL A STORY ABOUT A GROUP OR INDIVIDUAL.

IT'S IMPORTANT FOR US TO KNOW WHAT KINDS OF STORIES ARE BEING TOLD ABOUT US AND THE PEOPLE AROUND US - AND TO KNOW WHY, HOW, AND WHO WANTS THOSE STORIES TOLD.



IF WE DON'T, THE STORIES WON'T STOP - WE JUST WON'T HAVE A HAND IN SHAPING THEM AND HOW THEY IMPACT US.

SO - WHAT CAN WE DO ABOUT DATA COLLECTION, SURVEILLANCE, AND USAGE IN SCHOOLS?

KNOW YOUR RIGHTS!

STUDENTS HAVE LEGAL RIGHTS AGAINST SCHOOL SURVEILLANCE! A RANGE OF FEDERAL, STATE, AND LOCAL LAWS LIMIT A SCHOOL'S ABILITY TO ACCESS STUDENT DATA AND SURVEIL THEIR DIGITAL LIVES. SOME OF THESE INCLUDE:

- 4TH AMENDMENT RIGHT AGAINST WARRANTLESS SEARCHES OF A STUDENT'S DIGITAL CONTENT
- FAMILY EDUCATION RIGHTS PROTECTION ACT (FERPA) WHICH PROTECTS AGAINST UNAUTHORIZED DISCLOSURE OF A STUDENT'S EDUCATIONAL RECORDS.
- MORE IN THE APPENDIX!

BEYOND RIGHTS

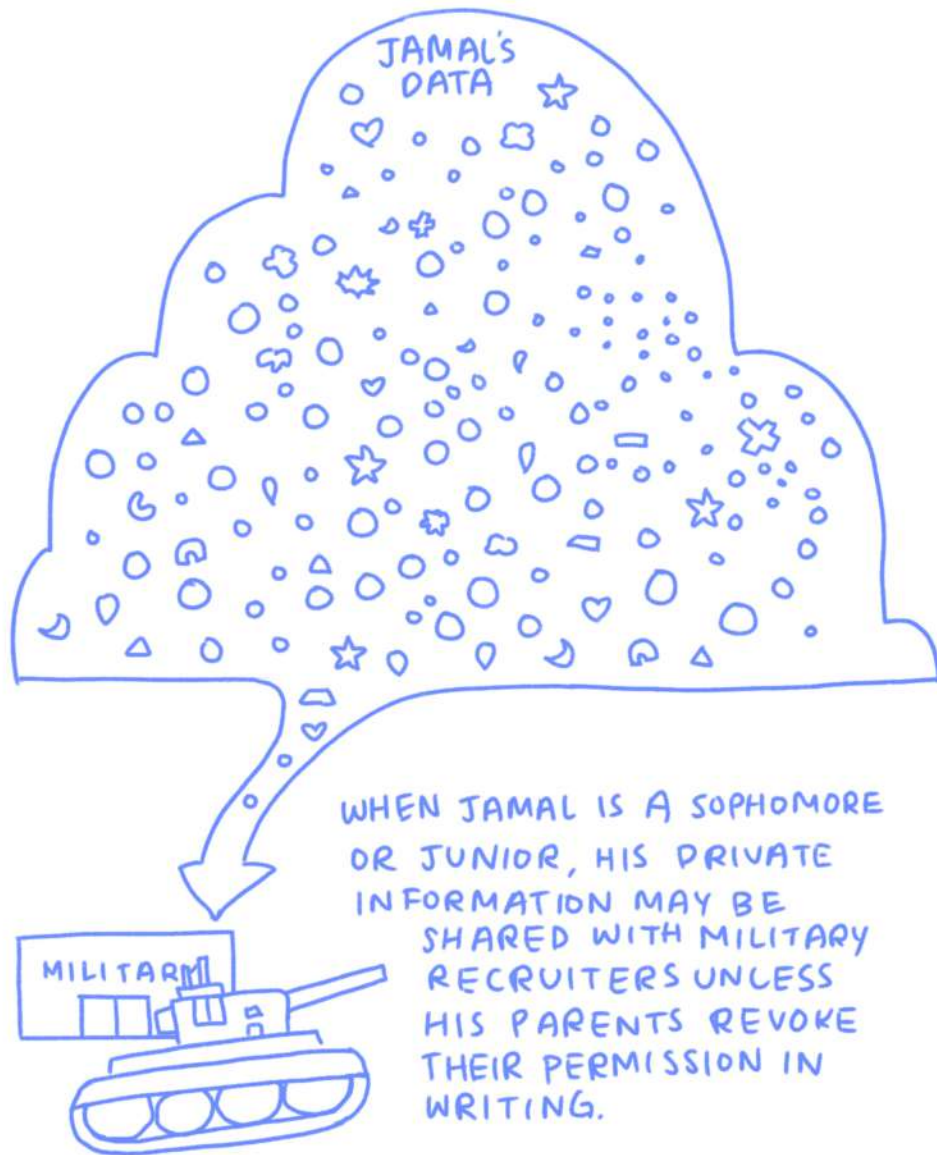
SCHOOL SURVEILLANCE TECHNOLOGIES UNDERMINE THE RIGHTS AND FREEDOMS OF MARGINALIZED YOUTH AND THEIR FAMILIES.

POLICE SURVEILLANCE TECHNOLOGIES IN SCHOOLS EXPAND THE SCHOOL-TO-PRISON PIPELINE, CENSOR IDENTITY-AFFIRMING ONLINE RESOURCES, CRIMINALIZE SUBSTANCE ABUSE, AND ENABLE FAMILY SEPARATION THROUGH IMMIGRATION ENFORCEMENT AND FAMILY POLICING.

TO ADDRESS THESE HARMS, COMMUNITIES MUST INVEST IN COMPREHENSIVE, YOUTH-CENTERED, ABOLITIONIST LEGAL & POLICY SOLUTIONS THAT REMOVE POLICE SURVEILLANCE FROM SCHOOLS, AND INVEST IN PROVEN STRATEGIES THAT BOLSTER SAFETY THROUGH HOLISTIC INVESTMENTS IN SYSTEMS OF CARE.



22 DATA SHARING W/ MILITARY



REGARDLESS, HIS SCHOOL MAY ADMINISTER THE ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB) EXAM AND RELEASE HIS RESULTS TO RECRUITERS.

SO AS WE FOLLOW JAMAL'S DATA JOURNEY, HERE ARE SOME GUIDING QUESTIONS TO ASK ABOUT WHAT YOU SEE:

- ? • WHO IS COLLECTING THIS DATA?
- ? • WHAT IS THE STATED REASON THIS DATA IS BEING COLLECTED?
 - WHAT OTHER PURPOSES IS/COULD THIS DATA BE USED FOR?
- ? • HOW IS THIS DATA STORED? HOW IS IT SECURED?
- ? • WHO IS THIS DATA SHARED WITH?
- ? • WHO IS THIS DATA SOLD TO?
- ? • WHY DO THEY WANT THIS DATA AND WHAT WILL THEY USE IT FOR?
- ? • WHO IS INFORMED WHEN DATA IS SHARED OR SOLD?
- ? • CAN DATA COLLECTION OR SHARING BE OPTED OUT OF? WHOSE CONSENT IS NEEDED FOR DATA TO BE COLLECTED OR SHARED?

BY THE END OF THIS DATA JOURNEY, YOU'LL LIKELY HAVE EVEN MORE QUESTIONS YOU'LL BE ASKING!

LET'S BEGIN OUR

STUDENT DATA JOURNEY WALK



I BEFORE SCHOOL

EVEN BEFORE HE STARTS KINDERGARTEN, JAMAL'S PARENTS MUST PROVIDE HIS SCHOOL WITH HIS PERSONAL INFORMATION, INCLUDING:

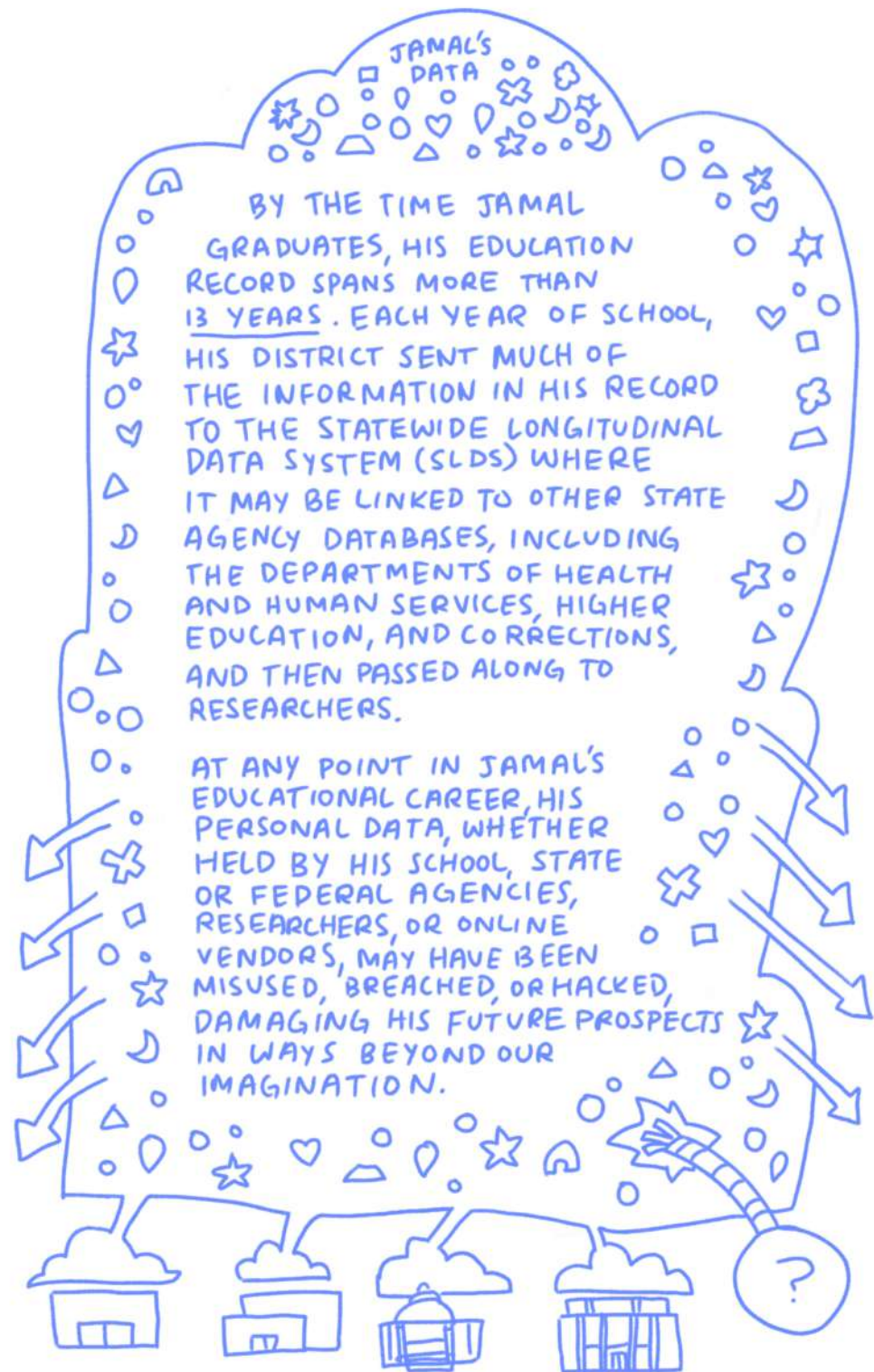
NAME

GENDER

DATE OF BIRTH

SOCIAL SECURITY NUMBER

HEALTH INFORMATION:
(IMMUNIZATIONS, PRESCRIBED
MEDICATIONS, DISABILITIES, ALLERGIES, ETC)



21 REPRODUCTIVE CARE DATA



IF JAMAL OR JAMAL'S PARTNER SEEKS INFORMATION ABOUT ACCESSING REPRODUCTIVE CARE IN ONE OF THE 25 STATES THAT HAVE RESTRICTED OR BANNED ACCESS TO ABORTION, SCHOOLS AND LAW ENFORCEMENT AGENCIES CAN USE SCHOOL SURVEILLANCE TECHNOLOGIES LIKE STUDENT DEVICE MONITORING, GEOLOCATION TRACKING, AND SOCIAL MEDIA MONITORING TO SURVEIL AND PUNISH THEM.

THESE TECHNOLOGIES GIVE SCHOOL AND LAW ENFORCEMENT REAL-TIME ACCESS TO STUDENTS' SCREENS, SEARCH HISTORIES, TEXT MESSAGES, AND SOCIAL MEDIA CONTENT—ENABLING THEM TO SEE IF A STUDENT IS RESEARCHING ABORTION-RELATED CONTENT OR ATTEMPTING TO PURCHASE OVER-THE-COUNTER MEDICATIONS.



THESE RESTRICTIONS IMPACT OVER 25 MILLION PEOPLE AGE 15 TO 44 WHO ARE CAPABLE OF HAVING CHILDREN.

AND THESE SURVEILLANCE PRACTICES ARE ESPECIALLY CONCERNING FOR LOW-INCOME STUDENTS AND STUDENTS OF COLOR WHO DISPROPORTIONATELY RELY ON SCHOOL-ISSUED DEVICES TO ACCESS THE INTERNET AND LIVE IN PLACES THAT HAVE RESTRICTED ACCESS TO REPRODUCTIVE CARE.

THEY ALSO ASK FOR:

FAMILY INCOME
(TO SEE IF HE QUALIFIES FOR FREE OR REDUCED-PRICED LUNCH)

AND

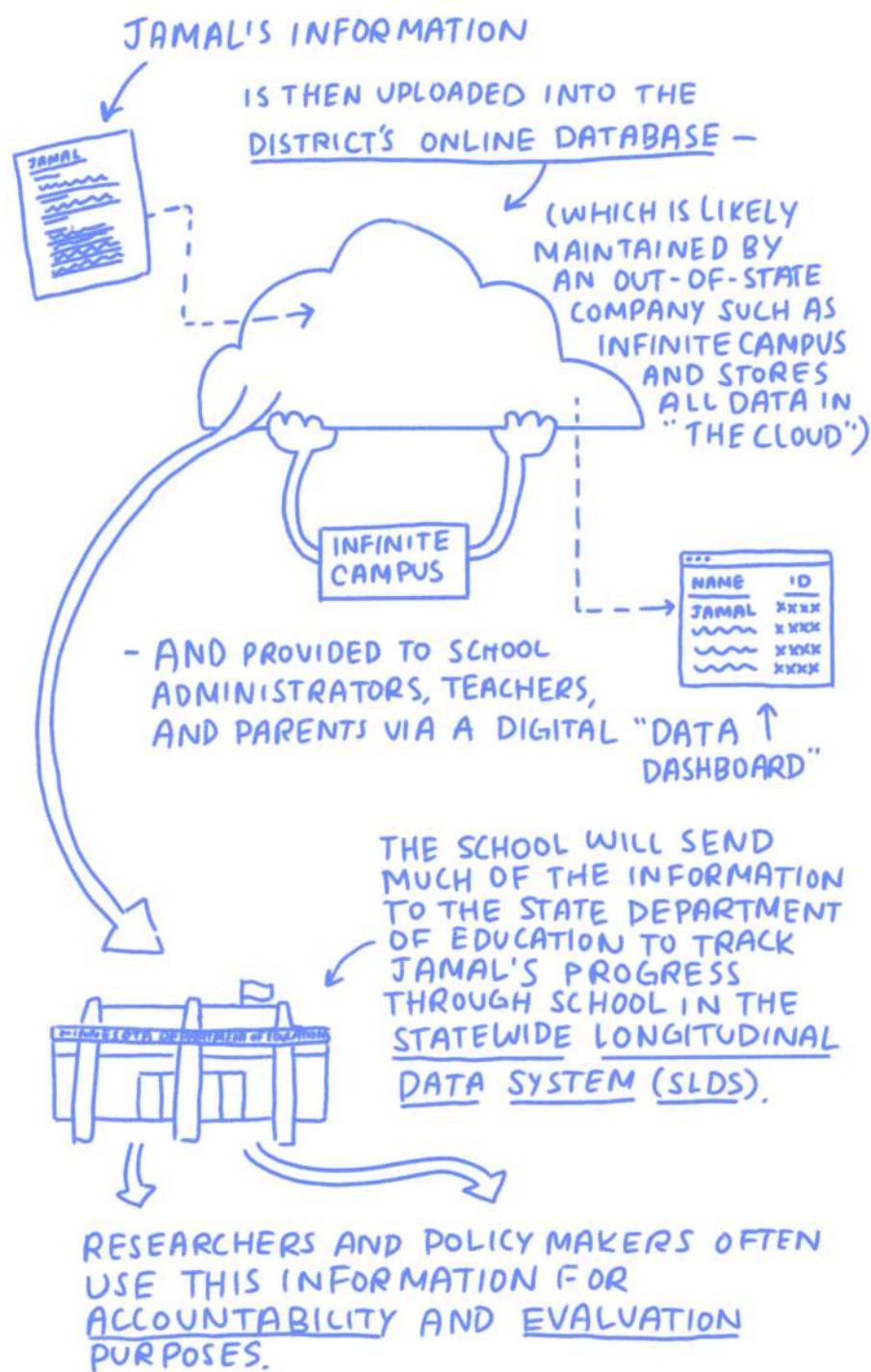
NUMBER OF SIBLINGS

AND

NUMBER OF SIBLINGS THAT ATTEND THAT SAME SCHOOL

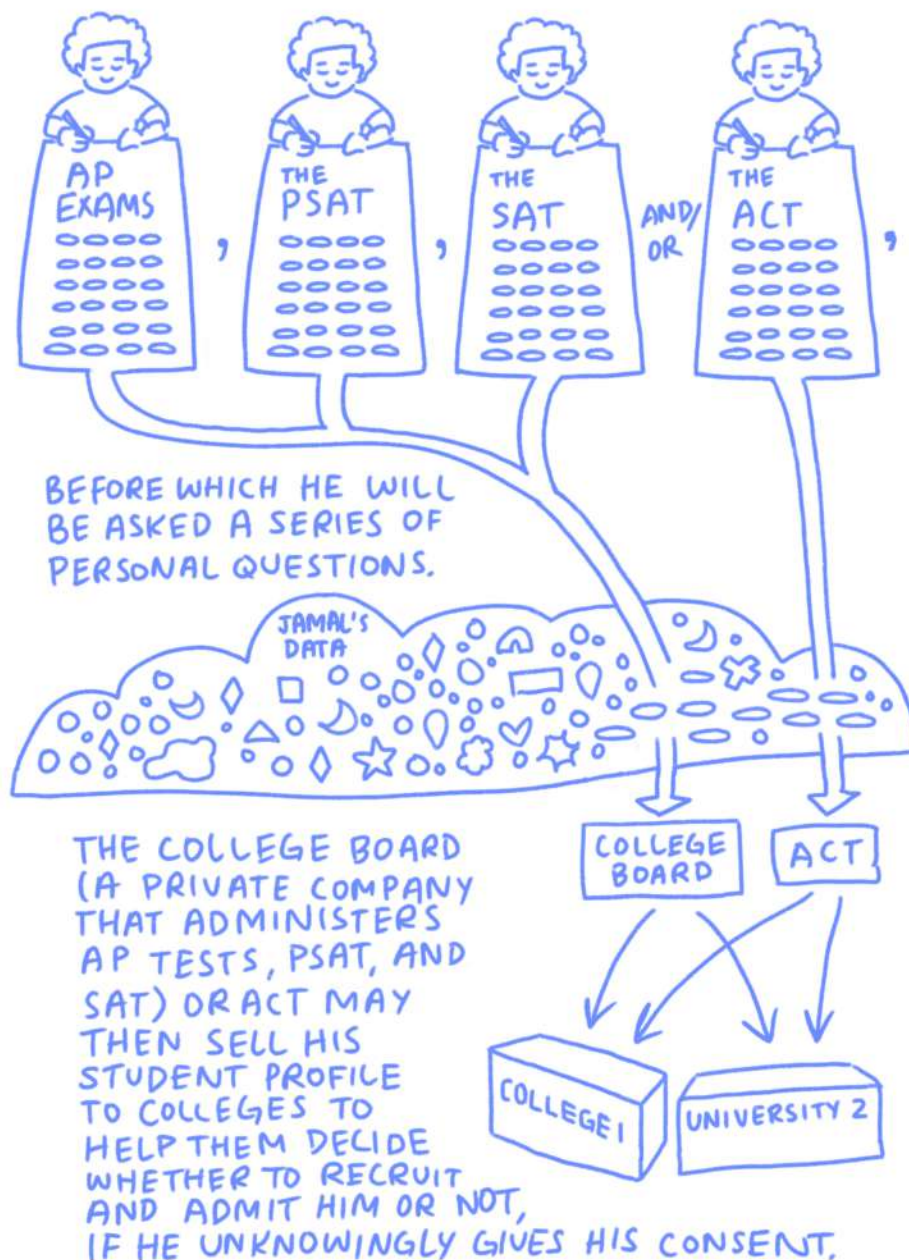
SOME KINDERGARTEN REGISTRATIONS ALSO ASK IF THE CHILD WAS BORN NATURALLY OR VIA C-SECTION AND OTHER PREGNANCY RELATED INFORMATION.





20 COLLEGE BOARD AND ACT DATA

IN HIGH SCHOOL, JAMAL TAKES



19 VAPE DETECTION

EVERY DAY IN HIGH SCHOOL, JAMAL IS MONITORED BY VAPE DETECTION TECHNOLOGY (VPT), SENSOR SYSTEMS THAT RELY ON AI TECHNOLOGIES TO MONITOR STUDENT VAPING IN SENSITIVE LOCATIONS LIKE BATHROOMS AND LOCKER ROOMS.

IF VPT "DETECTS" JAMAL AS VAPING AT SCHOOL, IT GENERATES AN AUTOMATED ALERT TO SCHOOL OFFICIALS.



SOME SCHOOLS ALSO INSTALL CAMERAS NEARBY TO "IDENTIFY" WHICH STUDENTS WERE PRESENT NEAR SENSORS AT THE TIME OF THE ALERT.

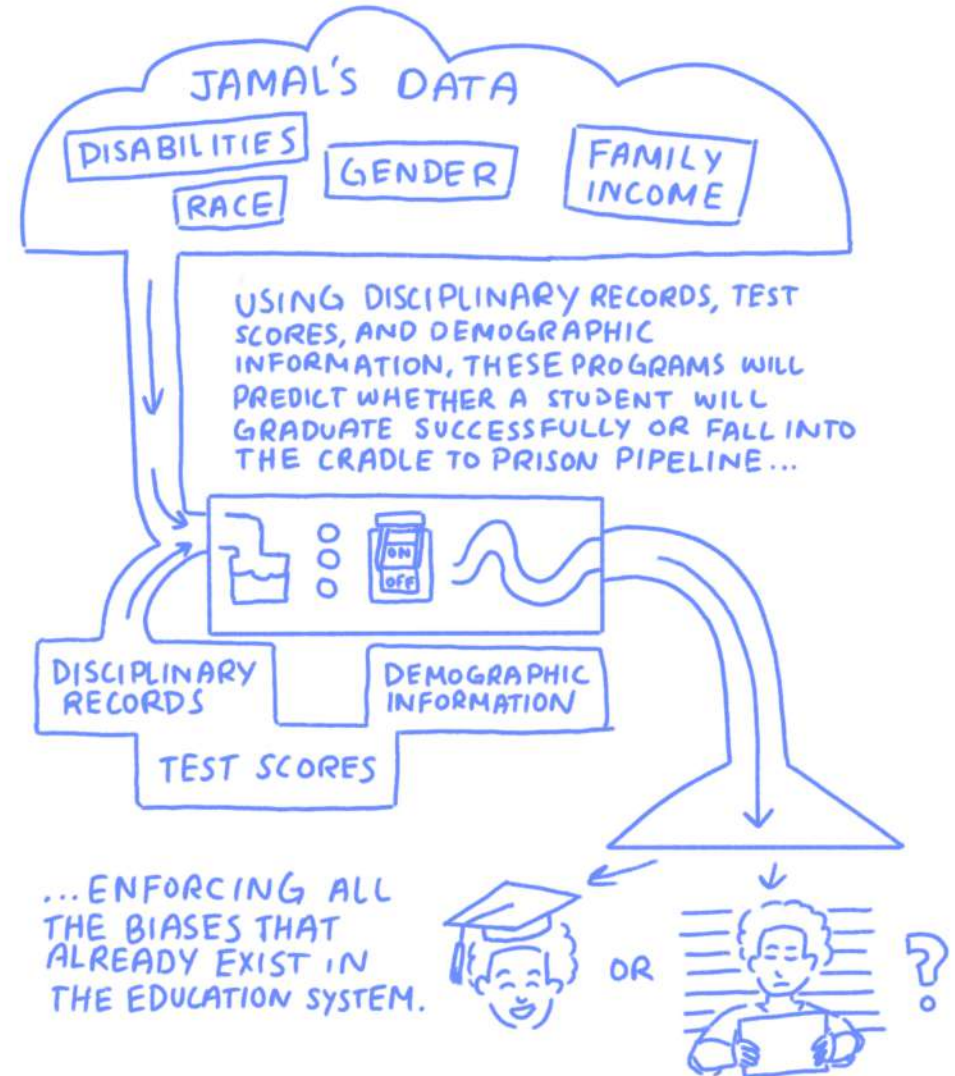
IF MULTIPLE STUDENTS ARE RECORDED BY THE CAMERAS, SCHOOLS WILL DISCIPLINE THEM COLLECTIVELY, EVEN IF THEY WERE NOT VAPING THEMSELVES

IN SOME COMMUNITIES, SCHOOLS WILL REFER STUDENTS CAUGHT BY THE SENSORS TO LOCAL LAW ENFORCEMENT WHERE THEY CAN BE CRIMINALLY PROSECUTED AS ADULTS AND FORCED INTO PROBATION PROGRAMS OR FACE FINES, FEES, OR EVEN JAIL TIME.



2 RISK ASSESSMENT

SOME OR ALL OF THE DATA COLLECTED ON JAMAL WILL BE RUN THROUGH A RISK ASSESSMENT PROGRAM THAT RELIES ON PREDICTIVE ANALYTICS.

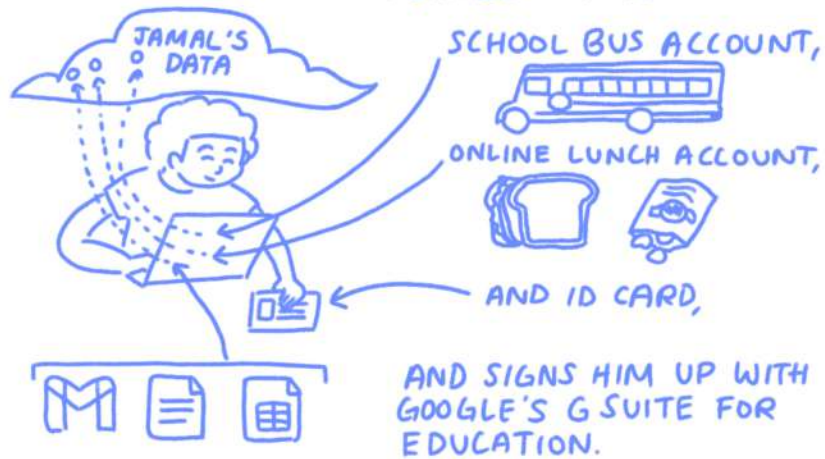


INVOLVEMENT IN CHILD WELFARE AND JUVENILE JUSTICE "PREVENTION" PROGRAMS MAY RESULT.

3 SCHOOL ACCOUNTS

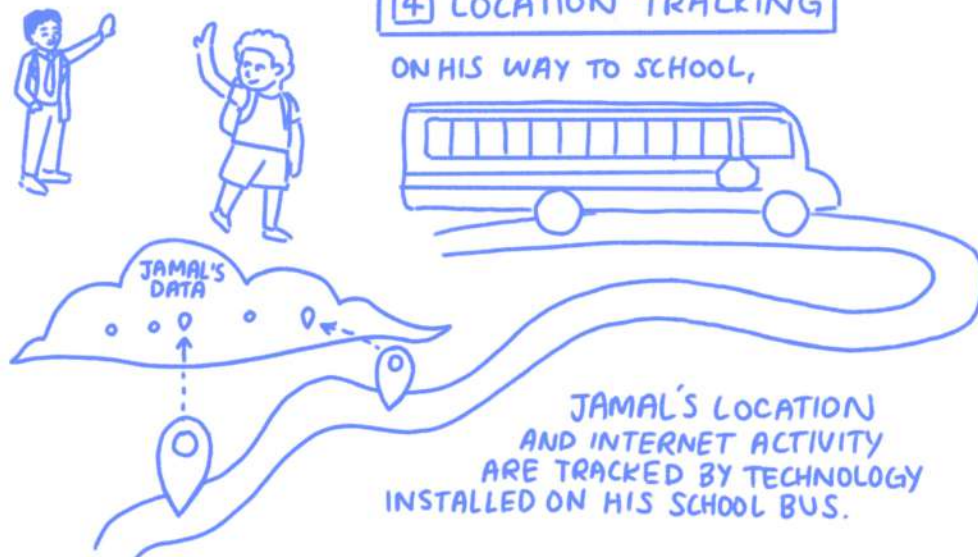
BEFORE JAMAL ARRIVES IN THE CLASSROOM FOR HIS FIRST DAY, HIS PERSONAL INFORMATION IS SHARED WITH VARIOUS COMPANIES THAT PROVIDE SERVICES TO THE SCHOOL AND DISTRICT.

THE DISTRICT CREATES JAMAL'S



4 LOCATION TRACKING

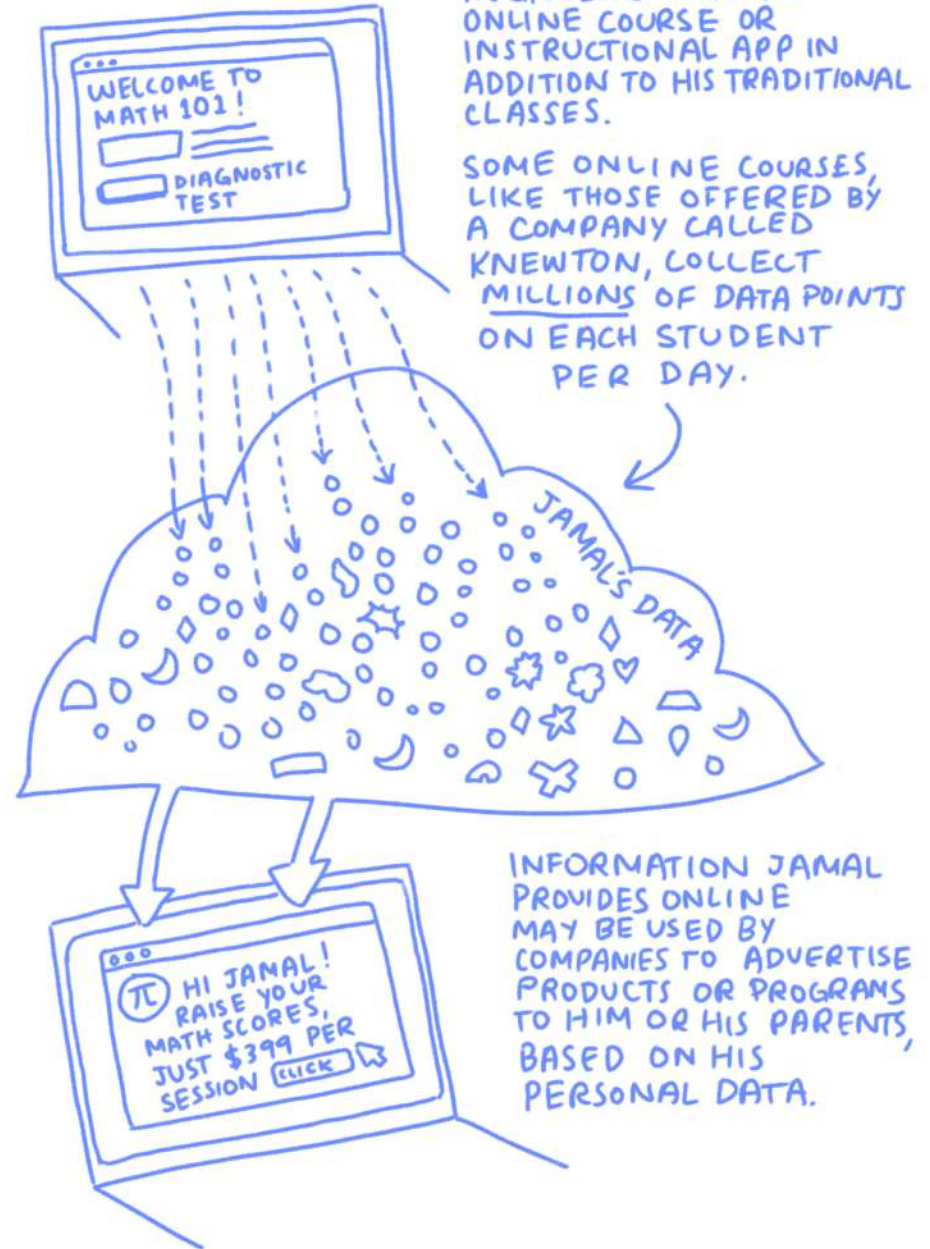
ON HIS WAY TO SCHOOL,



18 ONLINE COURSE DATA

IN HIGH SCHOOL, JAMAL REGISTERS FOR AN ONLINE COURSE OR INSTRUCTIONAL APP IN ADDITION TO HIS TRADITIONAL CLASSES.

SOME ONLINE COURSES, LIKE THOSE OFFERED BY A COMPANY CALLED KNEWTON, COLLECT MILLIONS OF DATA POINTS ON EACH STUDENT PER DAY.



16 DATA SHARING WITH RESEARCHERS



WITHOUT THE KNOWLEDGE OR CONSENT OF HIS PARENTS, JAMAL'S SCHOOL DISTRICT MAY SHARE HIS NAME, COURSE GRADES, ATTENDANCE RECORDS, DISCIPLINARY RECORDS, STANDARDIZED TEST SCORES, AND DISABILITIES WITH PRIVATE RESEARCHERS AND EVEN THE FEDERAL DEPARTMENT OF EDUCATION.

STUDY RESULTS WILL NEVER BE PROVIDED TO JAMAL OR HIS FAMILY.

17 COLLEGE PLANNING DATA



BY THE TIME JAMAL IS IN MIDDLE SCHOOL, HE IS ENCOURAGED OR REQUIRED TO USE AN ONLINE PROGRAM LIKE NAVIANCE TO COMPLETE SURVEYS AND SET PERSONAL AND ACADEMIC GOALS TO PLAN FOR COLLEGE.

ONCE IN HIGH SCHOOL, HE WILL BE REQUIRED TO USE MUCH OF THE INFORMATION STORED IN NAVIANCE TO APPLY FOR COLLEGE.



A RADIO FREQUENCY IDENTIFICATION (RFID) CHIP IN JAMAL'S ID CARD ALLOWS THE SCHOOL TO TRACK HIS WHEREABOUTS.



IF JAMAL ALLOWS HIS SMARTPHONE TO CONNECT TO THE WIFI WHILE RIDING ON THE BUS, HIS LOGIN AND BROWSING INFORMATION MAY BE TRACKED BY THE INTERNET PROVIDER AND SCHOOL DISTRICT.

YES, THIS MAY SEEM UNBELIEVABLE.

MOST SCHOOL DISTRICTS DO NOT YET HAVE WIFI ON SCHOOL BUSES OR CHIPS IN STUDENT ID CARDS.

AND YET-

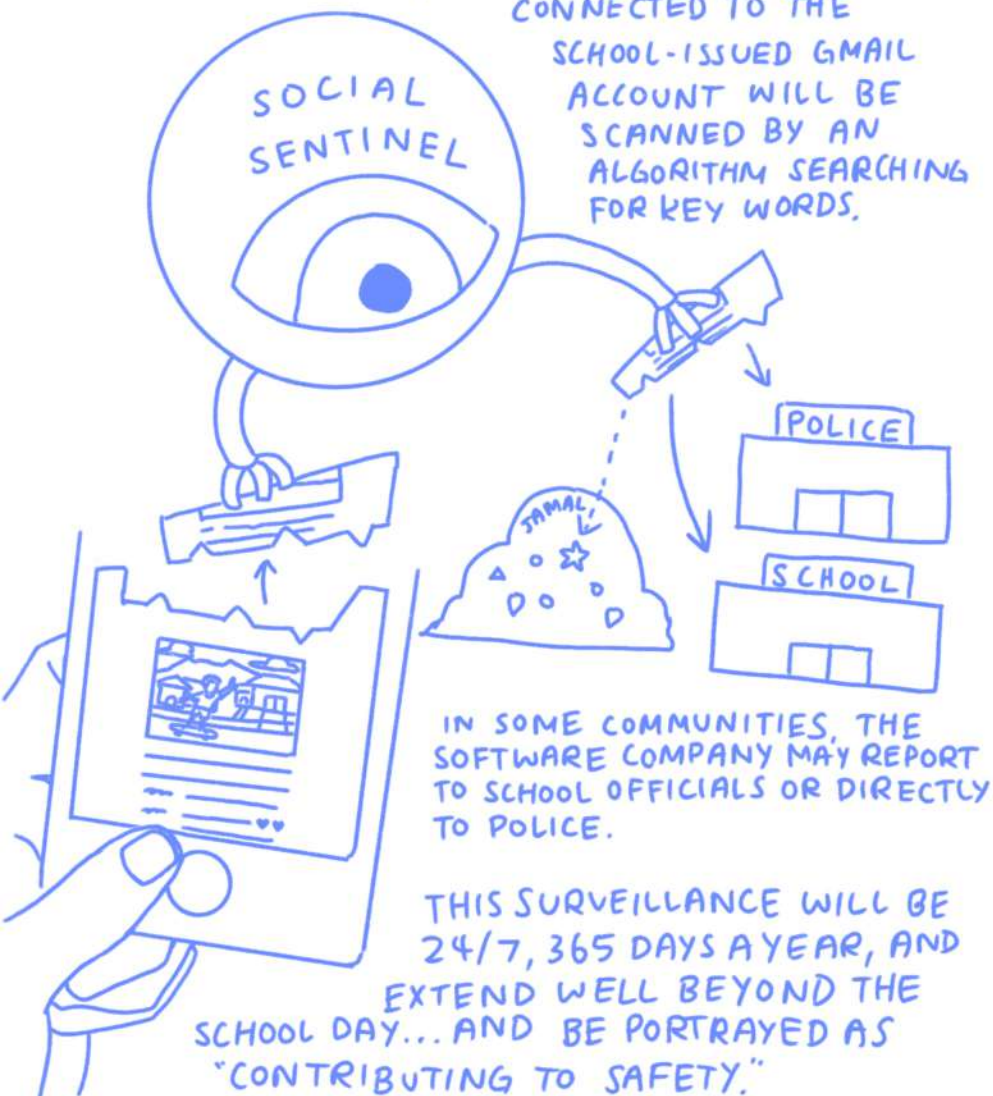
THIS IS HAPPENING IN SOME LOCATIONS AND WIDESPREAD ADOPTION IS NOT UNLIKELY GIVEN THE RAPID PACE AT WHICH TECHNOLOGY MOVES.

5 THIRD PARTY DIGITAL SURVEILLANCE

ALSO STARTING IN KINDERGARTEN, JAMAL WILL LIKELY BE SURVEILLED BY A THIRD PARTY THE SCHOOL CONTRACTS WITH.

EVERY COMMUNICATION WITHIN THE GOOGLE SUITE, EVERY SOCIAL MEDIA POST

CONNECTED TO THE SCHOOL-ISSUED GMAIL ACCOUNT WILL BE SCANNED BY AN ALGORITHM SEARCHING FOR KEY WORDS.



15 CENSORSHIP

WHILE JAMAL IS USING HIS SCHOOL-PROVIDED DEVICES AND ACCOUNTS, HE MAY BE PREVENTED FROM DISCUSSING TOPICS RELATED TO RACE, GENDER, AND SEXUALITY.

44 STATES HAVE INTRODUCED LEGISLATION TO CENSOR DISCUSSION OF THESE TOPICS,

WHILE 18 HAVE ACTUALLY ENACTED RESTRICTIONS.



SCHOOL SURVEILLANCE TECHNOLOGIES ARE A POWERFUL TOOL FOR SCHOOL ADMINISTRATION TO ENFORCE CENSORSHIP BY MONITORING STUDENTS' DEVICES, SOCIAL MEDIA, AND ONLINE HISTORIES.

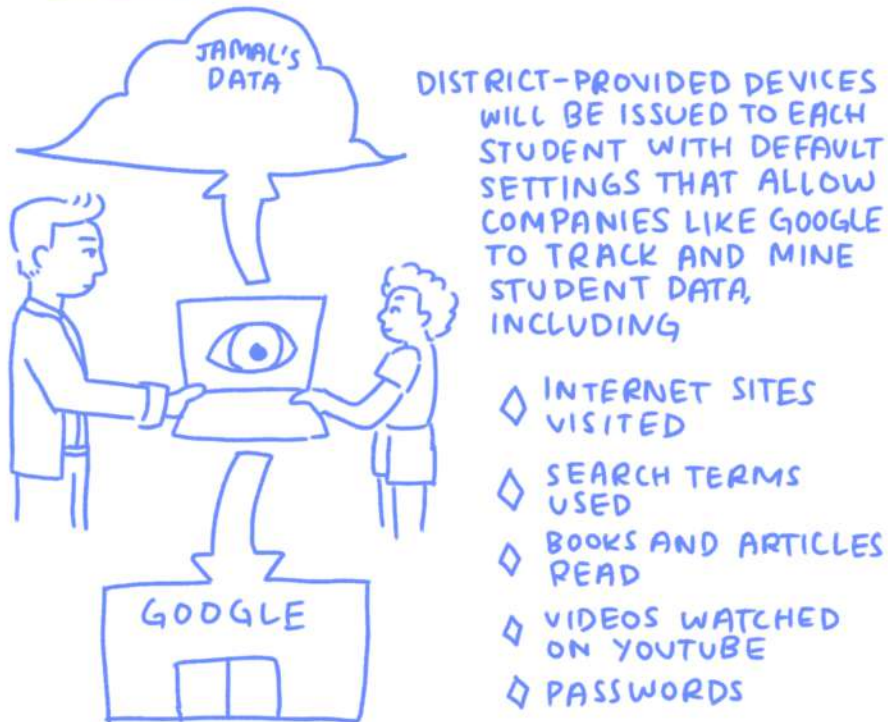
STUDENTS OF COLOR, QUEER STUDENTS, AND OTHERS FROM MARGINALIZED COMMUNITIES OFTEN TURN TO THE INTERNET TO LEARN ABOUT THEIR IDENTITIES AND SEEK OUT DIGITAL COMMUNITIES AND SAFE PLACES THAT AFFIRM THEIR IDENTITIES...



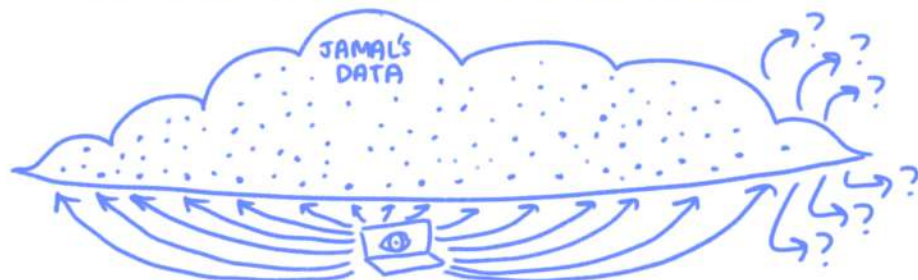
... BUT THE USE OF SCHOOL SURVEILLANCE TECHNOLOGIES MAKES THEM LESS WILLING TO ASK TEACHERS AND STAFF FOR SUPPORT FOR THEIR MENTAL AND BEHAVIORAL HEALTH.

14 DEVICE SURVEILLANCE

WHEN JAMAL REACHES 6TH GRADE OR EVEN SOONER, HIS DISTRICT MAY IMPLEMENT A 1:1 PROGRAM.

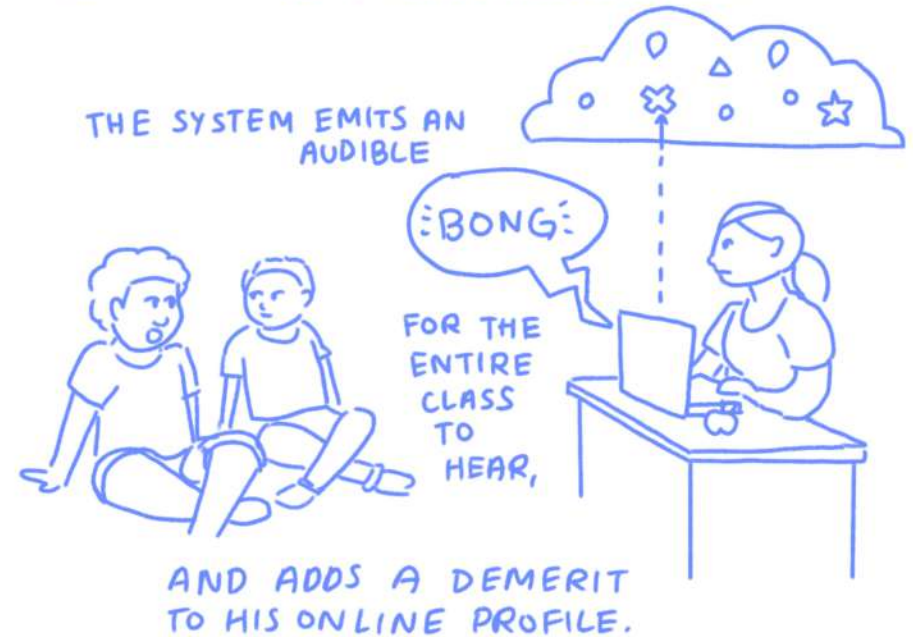


JAMAL USES THIS DEVICE UNTIL HE GRADUATES, AMASSING MILLIONS OF DATA POINTS THAT CAN BE MINED TO DIAGNOSE LEARNING ISSUES, STEER HIM TOWARDS CERTAIN COURSES OR CAREERS, OR GENERATE A CONSUMER PROFILE THAT CAN BE SOLD BY DATA BROKERS.



6 BEHAVIOR MANAGEMENT

WHILE IN CLASS, IF JAMAL SPEAKS WITHOUT RAISING HIS HAND, HIS TEACHER RECORDS THE EVENT IN HIS  CLASSDOJO ACCOUNT - AN ONLINE BEHAVIOR MANAGEMENT TOOL.



7 DIET DATA

IN THE CAFETERIA, JAMAL PROVIDES HIS FINGERPRINT, NAME, OR STUDENT NUMBER TO THE LUNCHROOM AIDE...



...WHO THEN RECORDS HIS FOOD SELECTIONS IN HIS ONLINE ACCOUNT, WHICH MAY BECOME A PART OF HIS PERMANENT DIGITAL RECORD.

8 BIOMETRIC + HEALTH DATA

DURING GYM CLASS, JAMAL WEARS A HEART RATE MONITOR TO RECORD HIS WORKOUT INTENSITY AS PART OF HIS GRADE.



AN APP ANALYZES THE RESULTS AND SENDS A REPORT VIA EMAIL TO THE TEACHER'S DROPBOX ACCOUNT.

IT'S UNCLEAR WHAT HAPPENS TO JAMAL'S DIGITAL HEALTH INFORMATION AT THE END OF THE YEAR.

MORE ABOUT SHOT SPOTTER

IN THE LAST FEW YEARS, SHOTSPOTTER HAS BEEN SHOWING UP ON SCHOOL BUILDINGS IN THE TWIN CITIES AND ACROSS THE COUNTRY (SOMETIMES, INDIVIDUAL SCHOOLS DO NOT EVEN KNOW THEY ARE THERE).

SHOTSPOTTER IS NOTHING MORE THAN A TOOL THAT GATHERS DATA POINTS. SOUNDTHINKING, WHO OWN SHOTSPOTTER, IS SIMPLY A DATA BROKER SELLING SURVEILLANCE TECHNOLOGIES TO POLICE.

SHOTSPOTTER IS A SERIES OF MICROPHONES PLACED IN COMMUNITIES (INCLUDING AT AND AROUND SCHOOLS) THAT POLICE SAY ARE FOR THE PURPOSE OF DETECTING GUNSHOTS. THE MICROPHONES DETECT ALL LOUD SOUNDS AND THEN AN ALGORITHM AND HUMAN REVIEWER ARE SUPPOSED TO DETERMINE IF A SOUND IS A GUNSHOT OR NOT. IF SHOTSPOTTER DETERMINES THAT THE SOUND WAS A GUNSHOT, POLICE ARE DEPLOYED TO THE LOCATION OF THE SOUND.

IN REALITY, SHOTSPOTTER CANNOT DISTINGUISH BETWEEN FIRECRACKERS, CAR EXHAUST SYSTEMS BACKFIRING, AND GUNSHOTS. THIS INCREASES THE LIKELIHOOD THAT COMMUNITY MEMBERS, LIKE JAMAL, WILL HAVE INCREASED INTERACTIONS WITH THE POLICE.

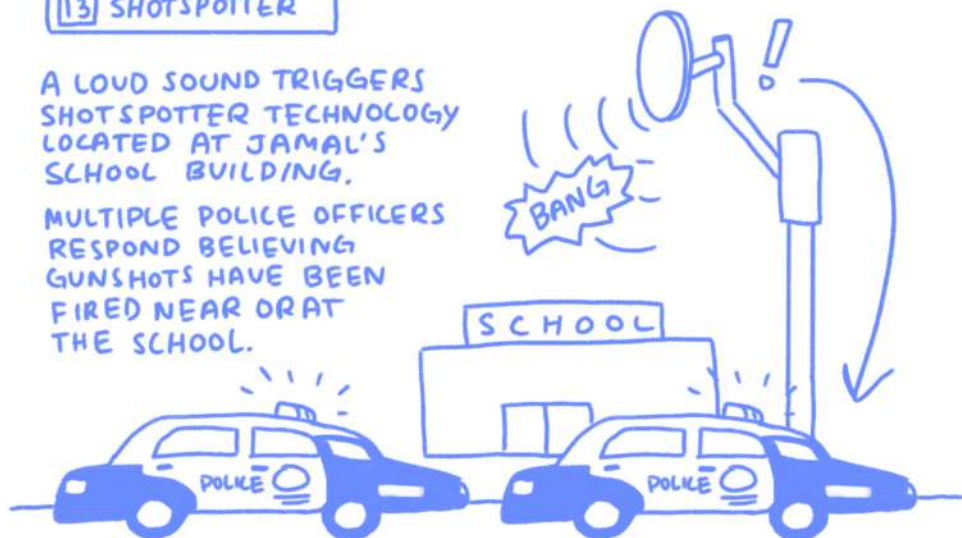
SHOTSPOTTER HAS LITTLE EVIDENCE, IF ANY, THAT THE PRESENCE OF THE COMPANY'S MICROPHONES PREVENTS GUN VIOLENCE, SOLVES GUN CRIMES, SAVES LIVES, OR MAKES SCHOOLS AND COMMUNITIES SAFER.

WHAT THE USE OF THESE MICROPHONES ENABLES IS INCREASED INTERACTIONS BETWEEN BLACK AND BROWN COMMUNITY MEMBERS AND POLICE, SOMETHING WHICH RESEARCH SHOWS MAKES BLACK AND BROWN COMMUNITY MEMBERS LESS SAFE.

13 SHOTSPOTTER

A LOUD SOUND TRIGGERS SHOTSPOTTER TECHNOLOGY LOCATED AT JAMAL'S SCHOOL BUILDING.

MULTIPLE POLICE OFFICERS RESPOND BELIEVING GUNSHOTS HAVE BEEN FIRED NEAR OR AT THE SCHOOL.



AT THE TIME, JAMAL WAS IN THE SCHOOLYARD FOR RECESS.



HE NOTICED THE POLICE CARS AS THEY PULLED UP AND FELT FEAR- HE DIDN'T KNOW WHY THE POLICE WERE THERE. THE POLICE LOOKED AROUND THE SCHOOLYARD AND BUILDING, INVESTIGATING TO SEE WHERE THE "GUNSHOTS" HAD COME FROM.

THE POLICE REQUESTED TO INTERVIEW JAMAL AND A FEW OF HIS FRIENDS TO SEE IF THEY KNEW ABOUT ANY GUNSHOTS. JAMAL WAS UNCOMFORTABLE TALKING WITH THE POLICE, HE DIDN'T KNOW WHAT WAS GOING ON AND WAS AFRAID THAT THEY WOULD THINK HE DID SOMETHING WRONG.

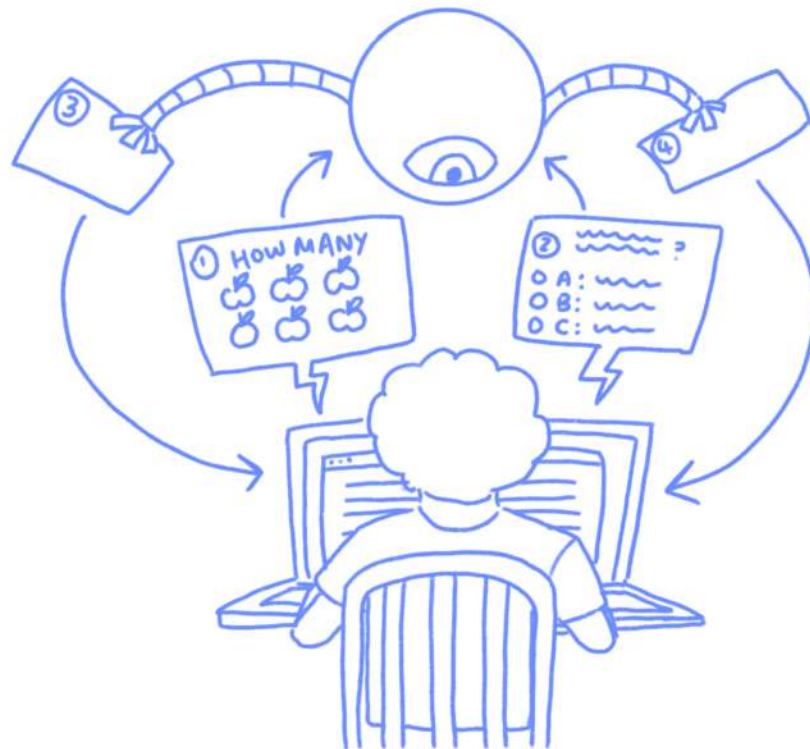
THIS WAS THE FIRST TIME JAMAL HAD EVER INTERACTED WITH THE POLICE.

HE SHARED THAT HE HAD NOT HEARD GUNSHOTS BUT THAT A CAR HAD DRIVEN BY, AND THE CAR HAD BACKFIRED.



9 DATA MINING

AT HOME AND SCHOOL, JAMAL RECEIVES "PERSONALIZED LEARNING" LESSONS ONLINE. WHETHER HE'S SOLVING MATH PROBLEMS VIA A VIDEO GAME OR TAKING QUIZZES AFTER READING A STORY, FOR-PROFIT TECHNOLOGY COMPANIES- NOT HIS TEACHERS- DETERMINE THE CONTENT AND DIFFICULTY LEVEL OF THE ACTIVITY BY COLLECTING DATA AND USING PROPRIETARY ALGORITHMS TO ANALYZE HIS ABILITIES, PROFILE HIS INTERESTS, AND PREDICT OUTCOMES.



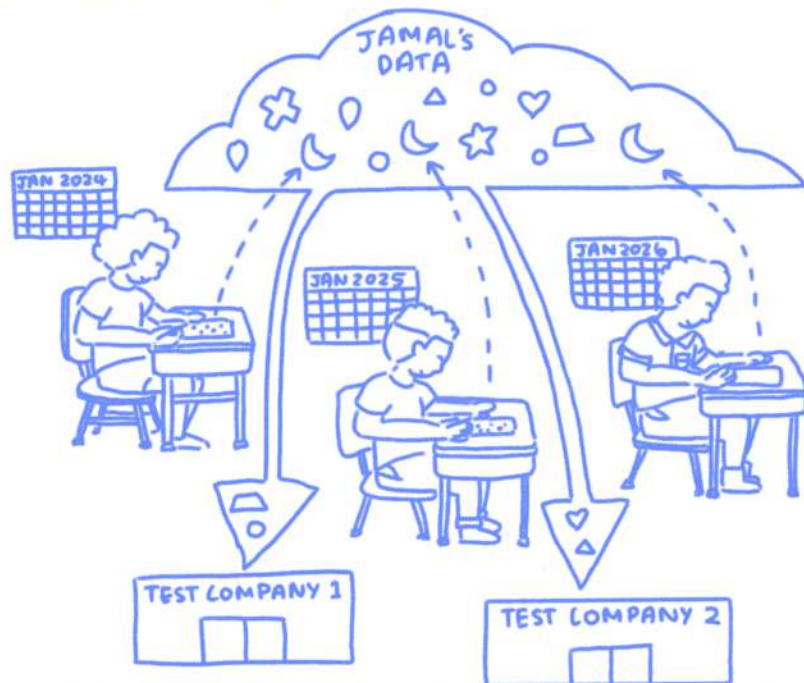
THIS PROCESS IS KNOWN AS DATA MINING.

10 STANDARDIZED EXAM DATA

STARTING AS EARLY AS KINDERGARTEN, JAMAL IS ASSIGNED INTERIM ASSESSMENTS OR TEST PREP TO MEET DISTRICT AND STATE REQUIREMENTS.

IN GRADES 3-8, HE TAKES ANNUAL STANDARDIZED EXAMS IN MATH AND ENGLISH LANGUAGE ARTS (ELA) AS REQUIRED BY FEDERAL LAW.

HE MAY ALSO BE SUBJECTED TO VARIOUS LOCAL AND PERIODIC STANDARDIZED ASSESSMENTS IN THESE AND OTHER SUBJECTS.



COMPANIES ADMINISTERING THESE TESTS OFTEN COLLECT AN ARRAY OF SENSITIVE PERSONAL INFORMATION FROM STUDENTS, AS WELL AS METADATA LIKE THE AMOUNT OF TIME THEY SPEND ANSWERING A SPECIFIC QUESTION.

ESSAYS ARE OFTEN SCORED BY MACHINES RATHER THAN PEOPLE.

11 SCHOOL CLIMATE SURVEY DATA



SOMETIME DURING ELEMENTARY SCHOOL, JAMAL MAY BE ASKED TO COMPLETE "SCHOOL CLIMATE" AND OTHER SURVEYS MEASURING HIS PERSONAL BELIEFS, POLITICAL VIEWS, OR SOCIAL AND EMOTIONAL SKILLS, OFTEN USING AN ONLINE ACCOUNT WITH HIS NAME OR OTHER PERSONAL INFORMATION ATTACHED TO IT.

12 EDUCATION RECORDS

AS JAMAL PROGRESSES THROUGH HIS ELEMENTARY AND MIDDLE SCHOOL YEARS, HIS EDUCATION RECORD GROWS TO INCLUDE :

