FTC PrivacyCon January 14, 2016 Segment 1 Transcript

>> -- EXCUSE ME --

COULD YOU TAKE YOUR SEATS

PLEASE?

I THINK WE'RE STARTING.

>> GOOD MORNING AND WELCOME TO

PrivacyCon.

I AM CHRISTINA YOUNG, A

PARALEGAL IN FTC'S OFFICE OF

RESEARCH AND INVESTIGATION OR

OTEC.

BEFORE WE COMMENCE I HAVE BRIEF

HOUSEKEEPING DETAILS TO RUN

THROUGH WITH YOU.

FIRST, IF YOU COULD PLEASE SAY

HELPS ANY MOBILE PHONES AND

OTHER ELECTRONIC DEVICES.

SECOND, IF YOU LEAVE THE

BUILDING DURING THE EVENT, YOU

WILL HAVE TO COME BACK THROUGH

SECURITY.

PLEASE BARE THIS IN MIND,

ESPECIALLY IF YOU'RE

PARTICIPATING ON A PANEL SO YOU

DON'T MISS IT.

MOST OF YOU RECEIVED AN FTC CARD

AT REGISTRATION.

WE REUSE THESE SO PLEASE RETURN

THESE HAD TO OUR EVENT STAFF

WHEN YOU LEAVE TODAY.

IF AN EMERGENCY OCCURS THAT

REQUIRES YOU TO LEAVE THE

CONFERENCE CENTER BUT REMAIN IN

THE BUILDING, FOLLOW THE

INSTRUCTIONS PROVIDED OVER THE

P.A. SYSTEM.

IF AN EMERGENCY OCCURS THAT

REQUIRES THE EVACUATION OF THE

BUILDING, AN ALARM WILL SOUND.

EVERYONE SHOULD LEAVE THE

BUILDING THROUGH THE MAIN 7th

STREET EXIT, TURN LEFT AND

ASSEMBLE ACROSS E STREET E

PLEASE REMAIN IN THE ASSEMBLY

AREA UNTIL FURTHER INSTRUCTION

IS GIVEN.

IF YOU NOTICE ANY SUSPICIOUS

ACTIVITY PLEASE LETTER BILLSAL

BUILDING SECURITY.

WE'RE ALMOST DONE.

JUST A FEW MORE ITEMS.

THE BUILDING CAFETERIA IS NOT

OPEN TO THE PUBLIC TODAY.

HOWEVER, BOX LUNCHES WILL BE

AVAILABLE FOR PURCHASE IN THE

HALLWAY OUTSIDE OF THE

AUDITORIUM AND OVERFLOW ROOMS.

YOU MAY USE THE OVERFLOW ROOMS

TO EAT LUNCH NO.

FOOD OR DRINK OTHER THAN WATER

IS LOW IN THE AUDITORIUM.

THE RESTROOMS ARE IN THE HALLWAY

OUTSIDE OF THE AUDITORIUM.

THIS IS A PUBLIC EVENT WHICH IS

BEING WEBCAST AND RECORDED.

WELCOME TO EVERYONE WATCHING THE

LIVE WEB OKAY AN ARCHIVE WEBCAST

AND THE CONFERENCE MATERIALS

WILL BE AVAILABLE VIA FTC.GOV

AFTER IT ENDS.

AND WE ARE USING #privacyCon

FOR TODAY. THANK YOU.

NOW OVER TO DAN!

THANK YOU.

I'M DAN SALZBURG, THE ACTING

CHIEF IN THE FTC OFFICE OF

RESEARCH AND INVESTIGATION AND

MEMBER OF THE PrivacyCon TEAM.

WE KNOW PRIVACY AND DATA

SECURITY ARE FORTUNE ALL OF YOU

GATHERED HERE TODAY AND THAT

MANY OF YOU ARE NOW SEEING IN

PERSON PEOPLE THAT YOU KNEW HAD

PREREGISTERED FOR THIS EVENT.

WE'RE SORRY FOR SHARING THAT

INFORMATION WITH YOU LAST WEEK

AND ARE ADDRESS OUR BULK

DISTRIBUTION SETUP TO PREVENT

SUCH A RELEASE FROM HAPPENING

AGAIN.

I HOPE YOU HAVE HAD A CHANCE TO

REVIEW TODAY'S AGENDA.

WE HAVE A GREAT AND DIVERSE

ROSTER OF PRESENTERS AND

PARTICIPANTS AND LOOK FORWARD TO

AN INFORMATIVE DAY OF NONSTOP

CUTTING-EDGE PRESENTATIONS

COVERING THE LATEST PRIVACY AND

DATA SECURITY RESEARCH.

NOW LET'S KICK OFF PrivacyCon

WITH REMARKS FROM FIREFIGHT

CHAIRWOMAN EDITH RAMIREZ WHO LED

THE AGENCY'S EFFORTS TO PROTECT

FROM UNFAIR DATA AAND SECURITY

PRACTICES.

CHAIRWOMAN RAMIREZ.

[APPLAUSE]

>> THANK YOU, DAN.

I'M DELIGHTED TO BE HERE WITH

YOU SO GOOD MORNING EVERYBODY

AND WELCOME TO PrivacyCon, A

FIRST-OF-ITS-KIND CONFERENCE AT

COMMISSION BRINGING TOGETHER

LEADING EXPERTS WITH ORIGINAL

RESEARCH ON PRIVACY AND DATA

SECURITY.

TODAY COMPANIES IN ALMOST EVERY

SECTOR ARE EAGER TO SCOOP UP THE

DIGITAL PRINTS THAT WE LEAVE

BEHIND WHEN WE POST, SHOP AND

BROWSE ONLINE.

THE NEW GENERATION OF PRODUCTS

THAT WE SEE IN THE MARKETPLACE,

FROM SMART APPLIANCES TO

CONNECTED MEDICAL DEVICES TO

SEMI AUTONOMOUS CARS, ALL OF

THESE MEAN THE CONSUMERS MUST

NAVIGATE AN INCREASINGLY COMPLEX

AND DYNAMIC DIGITAL ECOSYSTEM.

IN SHORT, THE INNER PLAY BETWEEN

TECHNOLOGY AND DATA IS A

RADICALLY TRANSFORMING HOW WE

INTERACT WITH EVERYTHING AROUND

US.

THESE TRENDS WILL NOT ONLY

CONTINUE; THEY WILL MULTIPLE.

AT THE FTC WE'RE CONSTANTLY

SEEKING TO EXPAND OUR

UNDERSTANDING OF EMERGING

TECHNOLOGIES AND THEIR IMPACT ON

CONSUMERS AS WE WORK TO ENSURE

THAT CONSUMERS ENJOY THE BURNS

OF INNOVATION CONFIDENT THEIR

PERSONAL INFORMATION IS BEING

HANDLED RESPONSIBLY.

WE KNOW THAT ENFORCEMENT IN

POLICY NEEDS TO BE GUIDED BY

RESEARCH AND DATA.

WE DO A GREAT DEAL OF RESEARCH

AND ANALYSIS INTERNALLY BUT WITH

THE INCREASINGLY RAPID PACE OF

TECHNOLOGICAL EXCHANGE

COMPLEXITY OF THE CHALLENGES

CONSUMERS FACE, MORE THAN EVER

WE NEED TO TAP INTO THE

EXPERTISE AND INSIGHTS OF THE

RESEARCH COMMUNITY TO HELP US

FULFILL OUR CONSUMER PROTECTION

MANDATE.

TODAY'S CONFERENCE PROVIDES A

UNIQUE OPPORTUNITY TO DO JUST

THAT.

>> WITH PrivacyCon OUR AIM IS

TO BRIDGE THE GAP BETWEEN THE

ACADEMIC, TECH, AND POLICY

WORLDS.

OUR AMBITION AGENDA IS FILLED

WITH CUTTING-EDGE AND

PROVOCATIVE PRESERVE.

SOME OF THE PRESENTATIONS WILL

LEND SUPPORT FOR CURRENT PRIVACY

AND DATA SECURITY POLICIES.

OTHERS MAY LEAD US TO RETHINK

OUR ASSUMPTIONS.

EITHER WAY, WE HOPE TO SPUR A

RICHER DIALOGUE ABOUT PRIVACY

AND DATA SECURITY.

AND WE HOPE THIS DIALOGUE WILL

BE A TWO-WAY STREET AS WE SEEK

VALUABLE INPUT FROM THE ACADEMIC

AND TECH COMMUNITIES WE ALSO AIM

TO PROVIDE USEFUL FEEDBACK TO

RESEARCHERS ABOUT THE TYPE OF

WORK THAT WOULD BE MOST RELEVANT

TO HELPING US AND OTHER POLICY

MAKERS MAKE INFORMED POLICY

DECISIONS.

SO THIS MORNING TO SET THE STAGE

FOR OUR PROGRAM AND TO HIGHLIGHT

THE IMPORTANCE OF RESEARCH AT

THE FTC, I WOULD LIKE TO SPEAK

ABOUT HOW WE INCORPORATED

PRIVACY AND DATA SECURITY

RESEARCH INTO OUR ENFORCEMENT

AND POLICY WORK.

THE XRFT WAS FOUNDED ON THE --

FTC WAS FOUNDED THAT RESEARCH

MAKES SOUND POLICY.

TODAY THE RESEARCH IS A POLICY

HUB ON A WIDE ARRAY OF FRONTLINE

AND COMPETITION ISSUES, AMONG

THEM PRIVACY AND DATA SECURITY.

AS YOU KNOW, WE HAVE HOSTED

WORKSHOPS AND ISSUED REPORTS ON

SIGNIFICANT AND CUTTING-EDGE

ISSUES SUCH AS FACIAL

RECOGNITION, THE INTERNET OF

THINGS, DATA BROKERS, MOBILE

DEVICE TRACKING, MOBILE

SECURITY, AND MOBILE PRIVACY

DISCLOSURES.

OUR WORKSHOPS HAVE BROUGHT

TOGETHER ACADEMICS, CONSUMER

ADVOCATES, INDUSTRY,

TECHNOLOGISTS AND OTHER

DESTAKEHOLDERS TO HELP INFORM

POLICY DISCUSSIONS AND OUR

REPORTS ON EMERGING TECHNOLOGIES

PROVIDE CONCRETE GUIDANCE ON HOW

TO HELP CONSUMERS IN TODAY'S

DIGITAL WORLD.

MOST RECENTLY, WE HELD A

WORKSHOP ON CROSS-DEVICE TRACK.

TO EVALUATE THE BENEFITS AND

RISKS OF CROSS DEVICE TRACKING

WE NEED TO KNOW WHAT IT IS AND

HOW IT WORKS.

OUR WORKSHOP INCLUDED A SESSION

WHERE EXPERTS EXPLAINED HOW

TRACKING TECHNIQUES FUNCTION AND

DISCUSSED WHETHER TECHNICAL

MEASURES SUCH AS HASHING MIGHT

BE USED TO PROTECT CONSUMERS

PRIVACY.

AND JUST LAST WEEK WE ISSUED OUR

BIG DATA REPORT WHICH OUTLINES A

NUMBER OF SUGGESTIONS FOR

BUSINESSES TO HELP ENSURE THAT

THEIR USE OF BIG DATA ANALYTICS

PRODUCES BENEFITS FOR CONSUMERS

WHILE AVOIDING OUTCOMES THAT

MAYBE EXCLUSIONARY OR

DISCRIMINATORY.

IN THIS REPORT WE HIGHLIGHT

POSSIBLE RISKS THAT COULD RESULT

FROM INACCURACIES OR BIASES

ABOUT CERTAIN GROUPS AND DATA

SETS INCLUDING THE RISKS THAT

CERTAIN KIERMS, ESPECIALLY LOW

INCOME OR UNDER SERVED CONSUMERS

MIGHT MISTAKENLY BE DENIED

OPPORTUNITIES OR THAT BIG DEALT

ANALYTICS MIGHT REVERSE

SOCIOECONOMIC DISAPPARENTS.

ON THE ENFORCEMENT FRONT, THE

WORK OF TECH RESEARCHERS HAS

HELPED US IDENTIFY DECEPTIVE OR

UNFAVOR PRACTICES OF COMPANIES

SUCH AS HTC, SNAPCHAT AND

FANDANGO.

LAST MONTH, WE ANNOUNCED AN

ACTION AGAINST ORACLE WHERE WE

ALLEGE THAT THE COMPANY'S

FAILURE TO DISCLOSE THAT OLDER

INSECURE VERSIONS OF JAVA WOULD

NOT BE REMOVED AS PART OF THE

SOFTWARE UPDATE PROCESS.

WE ALLEGE THAT THAT WAS A

DECEPTIVE PRACTICE.

VARIOUS RESEARCHERS HAD POINTED

OUT PROBLEMS WITH MALWARE

EXPLOITS FOR OLDER VERSIONS HAD

OF JAVA WHICH LED TO OUR

INVESTIGATION OF THE ISSUE.

THE CONSENT ORDER THAT WE

ENTERED INTO REQUIRES ORACLE TO

MAKE AN EFFECTIVE TOOL FOR

UNINSTALLING OLDER VERSIONS OF

JAVA AVAILABLE TO CONSUMERS.

IN SHORT, OUR ENFORCEMENT

ACTIONS HAVE PROVIDED IMPORTANT

PROTECTIONS FOR CONSUMERS AND

RESEARCH VERSE OFTEN PLAYED A

CRITICAL ROLE IN HELPING US

ACHIEVE THAT GOAL.

IN CERTAIN AREAS WE HAVE ALSO

ASKED TECHNOLOGISTS AND

RESEARCHERS TO HELP US COME UP

WITH TECHNICAL COUNTERMEASURES

TO HELP US ADDRESS VEXING

PROBLEMS.

ILLEGAL ROBOCALLS ARE A KEY

EXAMPLE.

VOICE OVER IP TECHNOLOGY ALLOWS

CALLERS TO SPOOF IDENTIFYING

INFORMATION SUCH AS THE CALLING

PARTY'S PHONE NUMBER.

FRAUDSTERS WITH NOW PLACE

MILLIONS OF CHEAP AUTOMATED

CALLS WITH THE CLICK OF A MOUSE

AND DO SO FROM ANYWHERE IN THE

WORLD THAT HAS AN INTERNET

CONNECTION WHILE HIDING THEIR

IDENTITIES IN THE PROCESS.

THESE DEVELOPMENTS HAVE REDUCED

THE EFFECTIVENESS OF THE FTC'S

TRADITIONAL LINE ENFORCEMENT

TOOLS.

RECOGNIZING THE NEED FOR NEW

SOLUTIONS, THE FTC HAS HELD FOUR

PUBLIC CONTESTS TO SPUR THE

CREATION OF TECHNICAL SOLUTIONS

TO THE ROBOCALL PROBLEM.

AS PART OF THESE CHALLENGES WE

SOLICITED TECHNICAL EXPERTS TO

HELP SELECT THE MOST INNOVATIVE

SUBMISSIONS.

ONE OF THE WINNING SOLUTIONS IN

OUR FIRST CHALLENGE IS IN THE

MARKETPLACE AND AVAILABLE TO

CONSUMERS.

PNEUMO ROBO REPORTS IT HAS MORE THAN 360,000 SUBSCRIBERS AND IT HAS BLOCKED MORE THAN 60 MILLION ROBOCALLS.

WE ARE ALSO CONTINUING TO BUILD OUR INTERNAL CAPACITY.

LAST YEAR WE CREATED THE OFFICE
OF TECHNOLOGY RESEARCH AND
INVESTIGATION OR OTEC AS WE CALL
IT.

OTEC WHICH 3WEU89DZ ON OUR
FORMER TECHNOLOGY UNITS GUIDES
THE DEVELOPMENT OF ENFORCEMENT
PRIORITIES AMONG OTHER IMPORTANT
WORK: THE TEAM INCLUDES LAWYERS
AND TECHNOLOGIES THAT WORK HAND
IN HAND TO HELP US STUDY NEW
TECHNOLOGIES AND DEVELOPMENT
NETS MARK PLACE. WITH OTEC
WE'RE EMBARKING ON A BROADER
ARRAY OF INVESTIGATIVE RESEARCH
ON TECHNOLOGY RELATED ISSUES
THAT WILL AID US IN ALL FACETS

OF THE FTC DULY COMPETITION

MISSION.

PrivacyCon BUILDS ON ALL OF

THESE.

OUR AIM IS TO BUILD OUR DIES IN

THE TECH COMMUNITIES AND ENSURE

THE FTC AND OTHER POLICY MAKERS

HAVE THE BENEFIT OF THE LEADING

THINKING AND PRIVACY AND DATA

SECURITY ARENAS.

OUR PROGRAM TODAY WILL FEATURE

FIVE MAIN TOPICS.

AS TO EACH WE WILL HAVE THREE OR

FOUR SHORT RESEARCH

PRESENTATIONS FOLLOWED BY A

PERIOD OF DISCUSSION FEATURING

TOP EXPERTS: WE WILL START THE

SESSIONS ADDRESS THE CURRENT

STATE -- WE WILL START WITH

SESSIONS ADDRESSING THE CURRENT

STATE OF ONLINE PRIVACY

QUESTIONS.

THERE'S NO QUESTION THAT WE NEED

TO BETTER UNDERSTAND CONSUMER

EXPECTATIONS AND THE DEGREE TO

WHICH CONSUMER PERCEPTIONS OF

COMPANY'S DATA PRACTICES ALIGN

WITH WHAT IS ACTUALLY HAPPENING

IN THE MARKETPLACE.

JUST THIS MORNING THE PEW

RESEARCH CENTER RELEASED A STUDY

BINDING AMERICANS SEE THE ISSUES

AS DEPEND.

A MAJORITY OF AMERICANS ARE

WILLING TO SHARE THEIR

INFORMATION IF THEY PERCEIVE

THEY'RE GETTING VALUE IN A

RETURN AND THAT THEIR

INFORMATION IS BEING PROTECTED.

FOR INSTANCE HALF OF THOSE

SURVEYED SAID THAT THE BASIC

BARGAIN OFFERED BY LOYALTY CARDS

IS ACCEPTABLE TO THEM.

WHILE A THIRD VIEWED THAT AS

UNACCEPTABLE.

THE STUDY ALSO FOUND THAT

CONSUMERS ARE OFTEN CAUTIOUS

ABOUT DISCLOSING THEIR

INFORMATION AND FREQUENTLY

UNHAPPY ABOUT WHAT HAPPENS TO

THAT INFORMATION ONCE COMPANIES

HAVE COLLECTED IT.

WE WILL SEE WHAT OUR SPEAKERS

HAVE TO SAY ABOUT THIS AND OTHER

TOPICS.

OUR OTHER SESSIONS WILL ADDRESS

BIG DATA IN ALGORITHMS, THE

ECONOMICS OF PRIVACY AND DATA

SECURITY, AND SECURITY AND

USABILITY.

AMONG THE ISSUES ADDRESSED WILL

BE BIG DISPEAT BIAS, THE

ECONOMIC INCENTIVES UNDERLYING

COMPANIES DATA PRACTICES, THE

COSTS OF CYBER INCIDENTS AND

AVAILABLE OPTIONS FOR CONSUMERS

TO AVOID UNWANTED TRACKING.

YOU WILL ALSO HEAR FROM MY

COLLEAGUE, COMMISSIONER JULIE

BRILL AND CHIEFOLOGIST LAURIE

KRAMER, AND THIS IS JUST TO GIVE

YOU A FLAVOR OF WHAT YOU WILL

HEAR TODAY.

WE'RE JUST NOW SCRATCHING THE

SURFACE OF WHAT IS TO COME AS A

RESULT OF TECHNOLOGICAL

ADVANCEMENT.

IF WE WANT TO ENSURE CONTINUED

PROGRESS WE MUST CRAFT POLICIES

BUILT ON INNOVATIVE THINKING AND

BREAKTHROUGHS THAT WE MAKE

THROUGH RESEARCH.

AND AT THE SAME TIME, WE WANT TO

ENCOURAGE RESEARCH THAT WILL AID

THE COMPLEX AND PRACTICAL

QUESTIONS THAT POLICY MAKERS ARE

EAGERLY SEEKING TO ANSWER.

SO THANK YOU FOR BEING HERE

TODAY. YOUR PRESENCE MOVES US

ONE STEP CLOSER TO THAT GOAL.

NOW, TO CLOSE, LET ME JUST TAKE

THIS OPPORTUNITY TO EXPRESS MY

GRATITUDE TO ALL OF THE

PARTICIPANTS IN TODAY'S

CONFERENCE.

WE HAVE AN INCREDIBLY IMPRESSIVE

GROUP OF THE TOP THINKERS IN

PRIVACY AND DATA SECURITY.

I'D ALSO LIKE TO THANK THE

ORGANIZERS IN OTEC AND OUR

DIVISION PRIVACY DIVISION AND

CHRISTIAN ANDERSON AND DAN

SALZBURG FOR THEIR HARD WORK IN

PUTTING THIS EVENT TOGETHER SO

THANK YOU VERY MUCH.

>> GOOD MORNING. THANK YOU VERY

MUCH.

THANK YOU ALL FOR COMING OUT TO

OUR FIRST PrivacyCon.

I'M POLICY DIRECTOR OF THE

OFFICE OF TECHNOLOGY RESEARCH

AND INVESTIGATION.

WE ARE CO-PRESENTING THIS

WORKSHOP ALONG WITH THE DIVISION

OF PRIVACY AND IDENTITY

PROTECTION.

AND I'M ALSO THE CHAIR OF OUR

FIRST PANEL, THE CURRENT STATE

OF ONLINE PRIVACY.

IF MY CO-PANELISTS COULD MAKE

THEIR WAY TO THE STAGE.

SO WE PUT OUT A CALL FOR

RESEARCHERS AND WEREN'T SURE

WHAT TO EXPECT AND WE GOT NEARLY

90 FASCINATING PROPOSALS SO WE

WERE GOING TO TRY TO DO 12 OR SO

AND DECIDED TO PACK THE SCHEDULE

TO HAVE AT LEAST 19 PEOPLE

PRESENTING WHICH WE HONESTLY

COULD HAVE DONE MORE.

SO WE TRIED TO MAXIMIZE THE

SCHEDULE TO LET THEM PRESENT

THEIR RESEARCH TO YOU.

THEY'RE EACH GOING TO PRESENT

FOR ABOUT 15 MINUTES.

WE'RE GOING TO TRY TO KEEP THEM

AGGRESSIVELY TO THAT.

AND THEY HAVE HAD A CLOCK RIGHT

THERE THAT SHOWS WHEN THEY'RE

OVER TIME AND A CHIME WILL MAY.

THEY WILL KNOW THEY'RE OVER.

YOU KNOW THEY'RE OVER.

THEY WILL KNOW THAT YOU KNOW

THAT THEY'RE OVER.

WE WILL TRY TO STAY ON SCHEDULE.

AFTER THAT, A SHORT DISCUSSION

PERIOD OF TIME AND OMER TENE AND

ELANA ZEIDE WILL NYU WILL GIVE A

FEW THOUGHTS, ASKING A FEW

QUESTIONS AND THAT WILL BE IT.

THIS IS OUR FIRST TIME DOG THIS

AND I WOULD LOVE YOUR FEEDBACK

IF YOU WANT TO DO THIS IN THE

FUTURE.

APPARENTLY WE HAVE A LOT OF

INTEREST IN THIS AND THAT IS

GREAT.

I WILL START BY INTRODUCING

IBRAHIM ALTAWEEL FROM BERKELEY

TO PRESENT ON WEB PRIVACY CENSUS

3.0.

>> HELLO, MY NAME IS IBRAHIM

ALTAWEEL.

I'M THE COAUTHOR OF WEB PRIVACY

CENSUS.

MOST PEOPLE MAY BELIEVE THAT

ONLINE ACTIVITIES ARE TRACKED

MORE PERVASIVELY THAN IN THE

PAST.

AS EARLY AS 1999, THE PRIVACY

RIGHTS CLEARING HOUSE SUGGESTED

THAT FEDERAL AGENCIES CREATE

BENCHMARK FOR ONLINE PRIVACY.

OF THE CENSUS IS ONE SUCH

BENCHMARK AND I WILL DISCUSS

TODAY HOW THE LITERATURE SHOWS

THE DRAMATIC INCREASE IN THE USE

OF COOKIES.

THE FIRST ATTEMPTS AT WEB

MEASUREMENT FOUND RELATIVELY

LITTLE TRACKING ONLINE IN 1997.

ONLY 2369 MOST POPULAR WEB SITES

USE COOKIES ON THEIR HOME PAGES.

BUT WITHIN A FEW YEARS TRACKING

FOR ADVERTISING APPEARED ON MANY

WENT.

BY 2011 ALMOST ALL OF THE

POPULAR WEB SITES EMPLOYED

COOKIES.

IN 2011 WE START OF THE

SURVEYING THE ONLINE MECHANISM

TO TRACK PEOPLE ONLINE.

WE CALLED THEY SAY THE WEB

PRIVACY CENSUS AND WE REPEATED

THE STUDY IN 2012 AND 2015.

THE MAIN GOAL THE CENSUS IS TO

SELECT AND ANALYZE KEY METRICS

AND MEASURES FOR THE STATE OF

ONLINE PRIVACY AND USE THAT TO

ANSWER THE FOLLOWING QUESTIONS:

HOW MANY ENTITIES ARE TRACK

USERS ONLINE?

WHAT TECHNOLOGIES ARE MOST

POPULAR FOR TRACKING USERS?

IS THERE A SHIFT FROM ONE

TRACKING TECHNOLOGY TO ANOTHER

IN TRACKING PRACTICES?

IS THERE A GREATER CONCENTRATION

OF TRACK COMPANIES ONLINE?

WHAT ENTITIES HAVE THE GREATEST

POTENTIAL TO ONLINE TRACKING AND

WHY?

I WILL DIVE INTO DETAIL ON THE

DATA COLLECTION METHODS.

WE COLLECTED COOKIES, AND FLASH

COOKIES ON A QUANTITY CAST TOP

1 MILLION WEB SITES USING OWPM,

THE PLATFORM PRESENTED BY ONLINE

UNIVERSITY.

WE RAN A SHALLOW CRAWL AND A

DEEP CRAWL MEANING THAT WE

VISITED THE HOME PAGES AND TWO

LINKS ON THE WEB SITES.

>> THE DATA COLLECTION METHODS

HAVE LIMITATIONS.

FOR EXAMPLE, WE USE A FIREFOX

BROWSER SO WE DON'T HAVE

FORMATION WITH DIFFERENT

BROWSERS.

ANOTHER EXAMPLE THE CRAWLER DID

NOT LOG INTO WEB SITES WHICH

COULD RESULT IN MORE COOKIES TO

BE SENT.

OVERALL THESE LIMITATIONS MEAN

THAT THE PRIVACY CENSUS IS A

CONSERVATIVE MEASURE OF THE

AMOUNT OF TRACKING ONLINE.

SO HOW MUCH TRACKING IS GOING

ON?

WE FOUND THAT USERS WHO MERELY

VISIT THE HOME PAGES OF THE TOP

100 MOST POPULAR SITES WOULD

COLLECT 6,000 COOKIES, TWICE AS

MANY AS WE DETECTED IN 2012.

SOME POPULAR WEB SITES USE A LOT

OF COOKIES N JUST VISITING

APPROXIMATE THE HOME PAGE OF

POPULAR SITES WE FOUND THAT 24

WEB SITES PLACED OVER-100

COOKIES.

SIX WEB SITES PLACED OVER 200

COOKIES.

AND THREE WEB SITES PLACED OVER

300 COOKIES.

WHAT TECHNOLOGIES ARE MOST

POPULAR TORE TRACKING USERS?

ONE OBVIOUS OBSERVATION IS THAT

THERE WERE SIGNIFICANTLY MORE

HTML5 AND FLASH COOKIES.

5 IS A NEW FORM OF TECHNOLOGY

THAT BECAME POPULAR IN RECENT

YEARS FOR ITS LARGE STORAGE

CAPABILITY, ROUGHLY ONE THOUSAND

TIME OF FLASH COOKS.

AND HTML 5 DOES NOT INCREASE

WITH TRACKING AS AN OM CAN HOLD

ANY INFORMATION THAT IT NEEDS TO

STORE LOCALLY HOWEVER THIS

INFORMATION CAN POTENTIALLY

CONTAIN INFORMATION USED TO

TRACK USERS AND IT CAN PERSIST.

>> IS THERE A SHIFT FROM ONE

TRACKING TECHNOLOGY TO ANOTHER

TRACKING PRACTICES?

IT IS VERY INTERESTING TO SEE

THAT THE TOTAL COUNT OF COOKIES

HAS INCREASED AND THERE ARE MORE

AND MORE THIRD-PARTY COOKIES

BEING USED.

83% OF HTTP COOKIES ARE SENT BY

THIRD PARTY HOST AND JUST

VISITING THE HOME PAGE OF

POPULAR SITES USERS WOULD HAVE

COOKIES PLACED BY 275

THIRD-PARTY HOSTS.

IF THE USER BROWSED JUST TWO

MORE LINKS, THE NUMBER OF HTTP

COOKIES WOULD DOUBLE.

IS THERE A GREATER CONCENTRATION

OF TRACKING COMPANIES ONLINE?

GOOGLE'S PRESENCE ON THE TOP 100

WEB SITES INCREASED FROM 74 IN

2012 TO 92 IN 2015.

PERCENTAGE OF COOKIES SET BY 30

PARTY HOST HAS INCREASED FROM

84.7% TO 93.5%.

SO WHAT ENTITIES HAVE THE

GREATEST POTENTIAL FOR ONLINE

TRACKING AND WHY?

THE MOST PROMINENT IS GOOGLE.

WE FOUND THAT GOOGLE'S TRACKING

INFRASTRUCTURE IS ON 92 OF THE

TOP 100 MOST POPULAR WEB SITES

AND ON 923 OF THE TOP ONE

THOUSAND WEB SITES PROVIDING

GOOGLE WITH A SIGNIFICANT

SURVEILLANCE INFRASTRUCTURE

ONLINE.

GOOGLE'S ABILITY OF TRACKING IS

UNPARALLELED.

MOST THIRD PARTY COOKIES ARE SET

BY DOUBLE-CLICK.

FACEBOOK HAD PRESENCE ON 57 OF

THE TOP 100 WEB SITES AND 548 OF

THE TOP ONE THOUSAND WEB SITES.

THIS IS IMPORTANT.

BECAUSE COMPANIES LIKE GOOGLE

CAN TRACK USERS ALMOST AS MUCH

AS AN INTERNET SERVICE PROVIDER

SUCH AS VERIZON OR COMCAST.

IN CONCLUSION, THIS PROJT WILL

PRODUCE DATA ON HOW MUCH

TRACKING IS ON THE WHEN.

WE HAVE FOUND OVER A SERIES OF

SURVEYS COVERING THREE YEARS

THAT THERE'S A CONSISTENT UPWARD

TREND IN COOKIE USABLE AND THAT

A SMALL GROUP OF COMPANIES HAVE

TRACK COOKIES ALMOST EVERY ON

THE WEB.

IN THE FUTURE WE HAD CONTINUE TO

COLLECT AND ANALYZE KEY METRICS

AND MEASURES TO MONITOR THE

STATE OF ONLINE PRIVACY.

THANK YOU VERY MUCH.

AND THANKS TO MY CO-AUTHOR

NATHAN.

THANK YOU.

[APPLAUSE]

>> IS AND THE NEXT PRESENTER IS

STEVEN ENGLEHARDT ON "THE WEB

NEVER FORGETS."

>> HELLO EVERYONE.

I'M STEVEN ENGLEHARDT FROM

PRINCETON UNIVERSITY AND TODAY

I'M GOING TO BE TALKING TO YOU

ABOUT HOW THE WEB PRIVACY

PROBLEM IS A TRANSPARENCY

PROBLEM AND SHOW YOU THE WORK

WE'RE DOING TO IMPROVE THAT.

WHEN YOU'RE BROWSING THE WEB AND

VISIT A SITE, SAY "THE NEW YORK

TIMES," YOUR ME NOT JUST

VISITING THAT FIRST PARTY SITE

BUT YOU'RE VISITING ALL OF THE

INCLUDED THIRD PARTIES ON THAT

SITE AND THIS MIGHT BE PEOPLE

THAT YOU RECOGNIZE, LIKE

FACEBOOK PROVIDES SOCIAL BUTTONS

OR YOU WENT WITH HAVE TO BUT

WHAT ABOUT THE ADVERTISING

COMPANIES AND ANALYTICS

COMPANIES THAT ARE NOT OBVIOUS

WHO THEY ARE TO THE CONSUMER.

WELL, THEY COULD BE, YOU KNOW,

ANYONE FROM THIS GRAPH, RIGHT?

IT COULD BE, USERS MIGHT BE ABLE

TO FIGURE OUT WHO A THEY ARE IF

THEY USE AN EXTENSION LIKE GO

STREAM BUT WHAT ARE THE

PRIVACYTRAS AND WHICH

TECHNOLOGIES DO THEY USE?

IT'S NOT REALLY OBVIOUSLY

BECAUSE THE WEB LACKS

TRANSPARENCY BUT WHAT I'M GOING

TO SHOW YOU TODAY IS HOW WE'RE

CHANGING THAT AND HOW WE ALREADY

HAVE.

SO THROUGH THE THIS TALK I'M

GOING TO TALK ABOUT REFERENCE

BACK TO OUR PAPER FROM 2014

CALLED THE WEB NEVER FORGETS.

IT'S A PAPER THAT LOOKED AT

PERSISTENT TRACKING MECHANISMS

BUT IN PARTICULAR I WILL FOCUS

ON CANVAS FINGERPRINTING.

IF YOU'RE NOT FAMILIAR WITH THAT

TYPE OF TRACKING MEMBERNISM,

INSTEAD OF SETTING A STATE INTO

THE BROWSER OR COOKIES ON THE

BROWSER YOU CAN LOOK AT THE

BROWSER'S PROPERTIES AND USE

THAT TO UNIQUELY IDENTIFY

SOMEONE ACROSS DIFFERENT WEB

SITES, IF YOUR HE A TRACKER.

SO IN 2012 THERE WAS A PAPER

CALLED PIXEL PERFECT WHICH

CALLED ABOUT CANVAS

FINGERPRINTINGAND LIGAT US AND OTHER COMPANIES

STARTED USING THIS TO TRACK

COMPANIES.

IN 2014 WE DID OUR OWN MEASURE.

WE WANTED TO SEE WHO WAS DOING

THIS, WHERE THEY WERE DOING IT

AND HOW THE TECHNOLOGY WORKED

AND SO ON.

AND THEN AFTER RELEASING OUR

PAPER, WE SAW A BUNCH OF NEWS

COVERAGE AND THIS REALLY

SURPRISED US.

WE DIDN'T EXPECT SUCH A RESPONSE

FROM THE NEWS AND SUCH A

RESPONSE FROM USERS, LIKE PRO

PUBLISHA, BBC AND SO ON.

AND THEN JUST TWO DAYS AFTER ALL

OF THAT NEWS COVERAGE HAPPENED,

THEY PROVIDED LIKE

FINGERPRINTING ON 95 PERCENT OF

SITES AND THEY STOPPED DOING IT

AS WELL AS LIGATATUS, THE THIRD

LARGEST PROVIDING.

AND CANVAS FINGERPRINTING WAS A

KNOWN TECHNIQUE FOR TWO YEARS

BUT IN JUST TWO MONTHS FOLLOWING

OUR MEASUREMENT WORK PEOPLE

STOPPED USING IT.

WHY WAS THAT?

WHAT WAS DIFFERENT ABOUT OUR

WORK VERSUS CANVAS

FINGERPRINTING BEING KNOWN AND

BEING KNOWING WHAT IT WAS?

THE KEY POINT IS THAT OUR WORK

REMOVED THE ASYMMETRY BETWEEN

THE TRACKERS AND THE REST OF THE

WEB.

SO LIKE I SAID WE GOT A BUNCH OF

NEWS COVERAGE FROM THAT FROM

DIFFERENT COMPANIES.

AND THEN WE SAW USERS TAKE TO

TWITTER TO COMPLAIN ABOUT IT, AS

YOU CAN IMAGINE AND WE SAW

PEOPLE SAYING YOU SHOULD REMOVE

THIS FROM YOUR SITE, THIS IS A

WAY OF STALKING, THIS IS IS --

THE FIRST PARTIES HERE ARE

VIOLATING MY PRIVACY.

WE SAW PEOPLE JUST COMPLAINING

ABOUT IT AND THEN WE ALSO SAW

SOMEONE SAY, YOU KNOW, I FEEL

GROSS BECAUSE I HAD TO ADD THIS

TO SHARE THIS BUT EVERYONE

SHOULD KNOW ABOUT CANVAS

FINGERPRINTING AND THERE WAS A

BIG RESPONSE ON TWITTER AND NOT

JUST TWITTER BUT WE SAW PEOPLE

COMPLAIN TO MOZILLA AND SAY WHY

DOESN'T FIREFOX PROTECT ME FROM

THIS TECHNIQUE.

AND WE EVEN SAW IT WAS BEYOND

JUST USERS.

IT WAS ALSO BETWEEN TRACKERS AND THE SITES THAT THEY TRACK ON.

SO PRO PUBLICA FOCUSED OM YOU PORN.

AND THEN YOUPOR NSAID WE DIDN'T
KNOW ADD WAS DOING THIS, CAN YOU
LET THEM KNOW WE REMOVED THIS
FROM OUR SITE.

WE SEE THAT TRANCE SIGN, SEE IS
EFFECTIVE AT RETURNING CONTROL
TO USERS AND PUBLISHERS.

THE USERS CAN SEE WHAT TRACKING
TECHNOLOGY IS USED ON THEIR SITE
AND THEY CAN MAKE DECISIONS AND
COMPLAIN OR SEE WHAT KIND OF
TRACKING TECHNOLOGY AROUND THE
SITE THAT THEY VISIT AND THEN
THEY CAN COMPLAIN TO THE FIRST

VISITING AND CHOOSE NOT TO GO
THERE, AND THEY HAVE CAN HAVE
CONTROL THEY DIDN'T HAVE BEFORE
WHEN THEY DIDN'T HAVE THAT

PARTY OR SITE THAT THEY'RE

KNOWLEDGE.

AND AUTOMATED LARGE SCALE

MEASUREMENTS LIKE THE ONE WE DID

CAN HELP PROVIDE THIS

TRANSPARENCY.

SO AT PRINCETON I'M GOING TO

TALK ABOUT WHAT WE DID TO MAKE

THIS HAPPEN.

WE DEVELOPED OPEN WPM, LIKE THE

FIRST INFRASTRUCTURE TO RUN A

REAL BROWSER ACROSS A LARGE

NUMBER OF SITES.

AND WE'RE USING IT TO PRUN OUR

OWN MONTHLY MILLION SITE

MEASUREMENTS OF THIS TYPE OF

THING.

SO WE WILL ALSO BUILD SOME

ANALYSIS ON TOP OF THAT TO LOOK

AT, YOU KNOW, WHOSE FINGERPRINTS

ON THIS SITE AND YOU I WILL GO

INTO OPEN WPM AND HOW IT WORKS

AND THEN I WILL SHOW YOU HOW WE

CAN SCALE THIS UP TO ALL

DIFFERENT KINDS OF TECHNOLOGIES.

OPEN WPM RUNS FIREFOX.

WE DO SOMETHING USING SELENIUM

AND WHICH TELLS THE BROWSESSER

GO TO THIS WENT AND DO CERTAIN

THINGS WHEN YOU'RE OWN THE WEB

SITE AND WE RUN EVERYTHING FROM

A PROXY THAT LETS US CONTROL ALL

OF THE TRAFFIC AND COMMUNICATION

BETWEEN THE BROWSER AND THE

SITES WE'RE VISITING AND THEN WE

HAVE THE FIREFOX EXTENSION BASED

OFF OF FOURTH PARTY.

IF IF YOU'RE NOT FAMILIAR WITH

THAT IT'S ANOTHER MEASUREMENT

FRAMEWORK PROBABLY THE MOST WELL

USED PRIOR TO US BUILDING OUR

INFRASTRUCTURE AND WE TOOK ALL

OF THE FEATURES THAT THAT HAD,

ADDED SOME MORE TO IT AND BUILT

IT RIGHT INTO THE PLATFORM AS

WELL.

SO WE GIVE A RESEARCHER ACCESS

TO THE DIFFERENT LOCATION NEPTS

BROWSER AND THEN WE WRAP THAT UP

IN SOMETHING CALLED THE BROWSER

INSTANCE.

AND AS YOU CAN SEE HERE, WE'RE

BASICALLY ABLE TO RUN MULTIPLE

INSTANCES OF FIREFOX OR MULTIPLE

BROWSER INSTANCES AT THE SAME

TIME.

SO WHEN WE DO OUR OWN CRAWLS WE

RUN IT OVER, SAY, 20 BROWSERS

AND EACH ONE HAS THEIR OWN

INSTRUMENTATION SO YOU CAN EASY

APPLY SCALES UP TO DO

MEASUREMENT ON A LOT OF SITES

AND THERE'S A COUPLE OF THINGS

THIS LET'S US DO.

WE CAN KEEP A PROFILE CONSISTENT

THROUGH CRASHES OR FREEZES AND

KEEP THE SAME COOKIES AS WE

BROWSE THROUGH DIFFERENT SITES

JUST HIKE A REAL USER WOULD.

WE CAN RUN THIS WITH EXTENSIONS

OR PRIVACY FEATURES, SEE HOW

WELL THEY WORK, SEE IF THEY'RE

ACTUALLY PROTECTING USERS AND

WHERE THEY'RE FALLING SHORT AND

IF THERE'S ANY NEW WEB ELSE TO

USED FOR TRACKING LIKE WEBRTC OR

AUDIO AND SO ON WE CAN TAKE A

LOOK AT THAT.

WE JUST HEARD A GREAT

PRESENTATION BY THE WEB PRIVACY

CENTER GUYS THAT DO IT AND IT'S

USED BEYOND ACADEMIA FROM

JOURNALIST AND I SEE PREGHTTORS.

SO I WILL TALK A LITTLE BIT

ABOUT THE MEASUREMENTS WE'RE

DOING.

WE'RE GOING ON MONTHLY CRAWLS OF

A MILLION SITES AND CHECKING

THINGS LIKE ALL OF THE

JAVASCRIPT CALLS USED FOR

FINGERPRINTING OR ALL OF THE

JAVASCRIPT S. FILES ON ALL OF

THOSE SITES SO WE CAN GO AND

CHECK ON WHAT IS GOING ON LATER.

AND WE'RE ALSO LOOKING AT THE

REQUESTS AND RESPONSES AND

DIFFERENT STORAGE LOCATIONS IN

THE BROWSER.

AND THIS LET'S US DO A BUNCH OF

THINGS LIKE SEE HOW EFFECTIVE

PRIVACY SCHOOLS ARE, LIKE

GHOSTERR OR ADD BLOCK PLUS AND

SEE HOW JAVASCRIPT MIGHT BE USED

FOR TRACKING AND ALSO LOOK AT

TRACKING PRACTICES.

NOW I'M GOING TO GIVE YOU TWO

QUICK CASE STUDIES.

I WILL GO THROUGH CANVAS

FINGERPRINTING AND GO THROUGH

WEB RTC AFTER.

CANVAS LIKE I SAID BEFORE IS

JUST A SITE GOES AND DRAWS TEXT

TO THE CANVAS AND THAT TEXT

LOOKS DIFFERENT ON THE DIFFERENT

MACHINE BUT SAME ON THE SAME

MACHINE SO IT'S USEFUL IF YOU

WANT TO DIFFERENTIATE BETWEEN
DIFFERENT USERS BUT KNOW WHO THE
SAME USER IS.

AS YOU CAN SEE HERE, THE
DIFFERENCES CAN BE QUITE LARGE.
THIS IS JUST A ZICIALATION OF
DIFFERENT MACHINES CARE TO EACH
OTHER AND I WANT TO GIVE CREDIT
TO ALL OF THE COAUTHORS ON THIS

I WAS JUST ONE PART OF IT AND WE
WORKED WITH PEOPLE AND AUTHORS
AT PRINCETON.

CONSTITUTE.

THE WAY THAT THIS WORKS IS A WEB
SITE WILL DRAW A BUNCH OF TEXT
TO THE CANVAS AND MAKE IT
OVERLAPPING AND MAXIMIZE THE
CHANCE IT'S UNIQUE AND THAT'S
WHAT YOU SAY TRADITIONALIZED UP
HERE.

IF WE WANT TO MEASURE THIS WE FIRST HAD TO WRITE A FIREFOX PATCH TO LOOK FOR WHEN THESE

METHODS WERE CALLED, YOU KNOW,

WHEN WRITE TEXT OR WHEN PULLING

BACK THE CANVAS AS A STRING,

WHEN THIS HAPPENS.

WE HAD TO WRITE AUTOMATION WITH

SELENIUM TO GO AND RUN THIS

ACROSS A BUNCH OF SITES AND

BUILD THAT FROM THE GROUND UP

AND THEN, OF COURSE, WE HAD TO

WRITE ANALYSIS CODE ON TOP OF

THAT.

AND NOW I'M GOING TO SHOW YOU

ALLOW THINGS WERE EASIER TO

MEASURE ANOTHER TECHNIQUE THAT

COULD BE HELPFUL FOR TRACKING.

IF YOU'RE NOT FAMILIAR WITH

WEBRTC, USING IT FOR LOCAL IP

DISCOVERY, IT ADDS NETWORKING

CAPABILITY IN THE BROWSER THAT

YOU CAN ACCESS FROM JAVASCRIPT

AND BASICALLY YOU'RE ABLE TO GET

THE USER'S LOCAL I PI. IF YOU'RE

BEHIND A MAP.

IT MIGHT BE SOMETHING LIKE

192.68.192 BUT IT CAN BE USUAL

FOR TRACKING.

SO I SAW A TWEET THAT THIS WAS

HAPPENING AND I SAID OH, WE CAN

MEASURE THAT AND TO LOOK AT

THAT.

THIS WON'T BE THAT HARD.

I WAS ABLE TO ADD A SINGLE LINE

OF JAVASCRIPT INTO THE NEXT

CRAWL TO DO THIS.

SO THIS IS THE SAME THING

THAT -- I HAVE A METHOD HERE

THAT ALLOWS KNEE LOOK AT ANY

TYPE ANYONE ACCESSES WEBRTC I

CAN SEE WHERE THEY'RE SETTING

AND WHAT THEY'RE DOING WITH IT,

THE SAME METHOD I CAN LOOK AT

WHO IS DOING WHAT WITH CANVAS.

IT'S JUST ONE ADDED LINE OF CODE

TO RUN OUR CRAWLS.

I HAD TO WRITE ANALYSIS CODE ON

TOP OF THAT, SIMILAR TO CANVAS.

WITH CANVAS I WANTED TO KNOW WHO

WROTE TEXT AND WHO READ BACK AND

HERE I DID SIMILAR THING TO SEE

WHEN TEXT IS BEING USED.

I FOUND THIS HAPPENING ON A

BUNCH OF SITES BEYOND "THE NEW

YORK TIMES."

"THE NEW YORK TIMES" ACTUALLY

STOPPED DOING IT.

SO 1212 FIRST-PARTY SITES AND 24

OF THOSE WERE UNIQUE ONLY ONE OF

WHICH IS BLOCKED BY ADD BLOCK

PLUS OR OTHER SIMILAR PRIVACY

TOOLS SO EVEN IF YOU'RE USING

PRIVACY TOOLS THIS TECHNIQUE MAY

STILL BE ABLE TO RUN ON YOUR

MACHINE.

AND I GUESS THE POINT I WANT TO

MAKE IS MURT IS EASIER WITH

WMENT PM.

AND INSTEAD OF WRITING

INFORMATION TWH SELENIUM WE CAN

USE OPEN WPM AND WE STILL NEED

TO WRITE THE ANALYSIS CODE.

YOU HAVE ALWAYS NEED SOME EXTRA

HUMAN COMPONENT IN THERE BUT THE

FIRST TWO STEPS GOT A LOT

EASIER.

SO WHERE DO WE WANT TO GO WITH

IT?

WE THINK WE CAN USE THIS TO

INFORM THE PUBLIC, RIGHT, LET

PEOPLE KNOW, HEY, HERE IS WHAT

IS HAPPENING ON THE SITES THAT

YOU'RE VISITING AND WHO IS DOING

THIS AND IT WILL HELP PEOPLE

UNDERSTAND WHAT IS GOING ON WHEN

THEY'RE BROWSING THE WEB.

WE WANT TO PROVIDE DATA FOR

PRIVACY TOOLS, AND DISCONNECT

WHICH IS LIKED A BLOCK TRUST OR

GHOSTRY, THEY TOOK INTO ACCOUNT

DISTRICTS FROM OUR CANVAS STUDY

AND WILLED IT IN THEIR TOOL.

SO WE WANT TO PROVIDE THAT SAME

DATA FOR OTHER PRIVACY TOOLS

WITH OUR FUTURE STUDIES AND WE

ALSO WANT TO MAKE THE DATA

ACCESSIBLE TO LESS TECHNICAL

INVESTIGATORS WHO MAY WANT TO

DIG THROUGH IT THEMSELVES BUT

NOT WITH THE SAME SKILL LEVEL

SOMEONE THAT WRITES THE CODE

WOULD DO.

AND WE WOULD ALSO LOVE TO

COLLABORATE WITH PEOPLE SO YOU

CAN -- THE INFRASTRUCTURE IS

OPEN SOURCE AND YOU CAN GET HUB

AND I WILL HAVE A LINK ON THE

NEXT SLIDE TO USE IT.

YOU CAN DOWNLOAD IT AND IF YOU

SEE ANYTHING WRONG WITH IT OR IF

YOU SEE NEW FEATURES YOU'RE

WELCOME TO SUBMIT BACK TO IT.

WE ALSO ENVISION PEOPLE USING IT

TO RUN THEIR OWN MEASUREMENTS

LIKE WEB PRIVACY CENSUS AND

THAT'S AN AWESOME USE CASE AND

WE HOPE THAT PEOPLE START DOING

THAT.

AND LASTLY NOT FUTURE WE HOPE

THAT YOU WILL BE ABLE TO BUILD

OUR DATA AND BUILD ANALYSIS OF

YOUR ONTARIO ON TOP OF IT.

WE WILL BE COMING FURTHER WITH

THAT IN THE COMING MONTHS.

SO IF YOU WANT TO HELP US MAKE

THE WEB MORE TRANSPARENCY YOU

CAN CHECK OUT OUR HUBBLE OR

RESEARCH PAGE.

THANK YOU.

[APPLAUSE]

>> THANK YOU VERY MUCH STEVEN.

NOW WE'RE GOING TO HEAR WITH A

CRITIQUE OF HOMO ECONOMICUS.

>> GOOD MORNING, EVERYONE.

I WANTED TO START BY THANKING

THE FEDERAL TRADE COMMISSION IN

FISHING THE STAFF FOR PUTTING

TOGETHER THIS EVENT.

THE DIFFERENT PRESENTERS ARE

VERY SUBSTANTIVE, AND I'M PROUD

TO BE AMONG THEM AND I THINK YOU

HAVE DONE A FANTASTIC JOB.

YOU SHOULD BE PROUD.

MY TEAM AS BERKELEY OVER THE

YEARS HAS SHOWN DIFFERENT WAYS

WEB SITES AND OTHER WEB SERVICES

TRACK PEOPLE.

FOR INSTANCE MY TEAM PUBLISHED

THE FIRST BIG PAPER ABOUT FLASH

COOKIES EXPLAINING HOW FLASH

COOKIES COULD BE USED TO

OVERRIDE USERS' COOKIE DELETION

AND SHOWED HOW HTML5 COULD BE

USED AND THE THEME OF HOW THAT

WORKED WAS A CONFLICT BETWEEN

THE RHETORIC ONE HEARS HERE IN

WASHINGTON ABOUT USERS BEING IN

CONTROL AND USERS BEING ABLE TO

MAKE CHOICES ABOUT HOW THEY

ATTRACT ONLINE AND THE TECHNICAL

REALTY, THE TECHNICAL REALTY

THAT EVEN MAINSTREAM COMPANIES

TO USE FLASH AND JAVASCRIPT TO

OVERRIDE DELETED COOKIES.

IT WAS AN ATTACK THAT LOOKED

SOMEWHAT LIKE A COMPUTER CRIME.

MY PRESENTATION TODAY IS IN A

SIMILAR VEIN.

IT'S ABOUT THE CONFLICT BETWEEN

THEORY AND RHETORIC AND HOW

CONSUMERS ACTUALLY OPERATE IN

THE MARKETPLACE.

THE FTC'S NOTICE TO CONSUMER

INFORMATION PRIVACY IS BASED ON

THE IDEA THAT CONSUMERS FOLLOW A

RATIONAL CHOICE MODEL OF MAKING

DECISIONS ONLINE.

NOW THE PROBLEM WITH NOTICE AND

CHOICE THEN BECOMES IS IT THE

MODEL OF A HOMO ECONOMICUS, THE

MODEL OF THE RATIONAL CONSUMER

WHO IS MAKING CHOICES IN THE

MARKETPLACE HAS TO BE RELIABLE

AS A MODEL.

SO MUCH OF MY TALK TODAY IS

ABOUT THE TRADEOFF TALK, THE

IDEA THAT PEOPLE ARE MAKING

TRADEOFFS IN THE MARKETPLACE ON

PRIVACY.

THE THEORETICAL BACKGROUND IS

ABOUT RATIONAL CHOICE THEORY AND

I'M GOING TO SKIP OVER A BUNCH

OF SLIDES TO STAY ON TIME TODAY

BUT THE KEY POINT OF MY PAPER IS

THAT ALAN WESTIN'S THEORY WAS

BASED ON RATIONAL CHOICE THEORY

AND HIS MAIN THESIS WAS THAT

PUBLIC POLICY SHOULD SERVE THE

PRIVACY PRAGMATIST, THOSE WHO

WEIGH THE CHOICES IN THE

MARKETPLACE AND MAKE DECISIONS

ACCORDING TO THEIR PRIVACY

PREFERENCES.

SO WE'RE FAMILIAR WITH THESE

DIFFERENT DEFINITIONS, THE

PRIVACY FUND MENTALIST, AND THE

MAGMA ACTIVITY AND UNCONCERNED

BUT LET ME DRAW YOUR ATTENTION

TO SOME OF THE VERBS WESTIN USED

TO DESCRIBE THE PRIVACY

PRAGMATIST.

IF YOU LOOK AT THE VERBS

HIGHLIGHTED IN BOLD HERE THESE

ARE ALL ACTIVE CHARACTERISTICS

OF CONSUMERS, THE PRIVACY

PRAGMATISTS ARE PEOPLE WHO WEIGH

EVIDENCE, WHO EXAMINE EVIDENCE,

WHO LOOK TO SEE WHETHER FAIR

INFORMATION PRACTICES ARE BEING

WIDELY OBSERVED.

THIS IS AN ACTIVE, ENGAGED

CONSUMER.

I FRANKLY DON'T KNOW MANY PEOPLE

WHO ARE LIKE THIS.

I'M NOT EVEN SURE THAT I'M LIKE

THIS.

BUT THIS IS THE BASIS FOR MUCH

OF U.S. POLICY ON CONSUMER

DECISION-MAKING AND PRIVACY.

AND, OF COURSE, WESTIN FAMOUS I

HAD SAID IN THE PATEL FOR

PRIVACY, THIS IS IN THE HEARTS

AND MIND OF THE PRIVACY

PRAGMATIST AND THESE ARE THE

PEOPLE THAT POLICY SHOULD BE

DESIGNED FOR.

WELL, HOW DID WESTIN COME TO THE

SEGMENTATION OF AMERICANS?

THE WAY HE DID IT WAS BY ASKING

THIS SET OF QUESTIONS.

>> ONE HAD TO DEAL WITH CONSUMER

CONTROL.

ONE HAD TO DO WITH WHETHER DATA

IT WERE TREATED CONFIDENTIALLY

AND THE LAST QUESTION IS A

ATTITUDINAL QUESTION ABOUT

WHETHER LAW IN SELF REGULATION

IS SUFFICIENT FOR PRIVACY.

SO MY FIRST CRITIQUE FOCUSES ON

THIS TEGHT.

ON THE MOST BASIC LEVEL, THE

PROBLEM WITH WESTIN IS THAT HE

SEGMENTED IT SUCH SO PEOPLE WERE

PRAGMATIST BY DEFAULT AND THIS

SEMANTICALLY DOESN'T MAKE SENSE

BECAUSE WE'RE NOT PRAGMATIST BY

DEFAULT.

PRAGMATIST REQUIRES A CERTAIN

ACTION AND OUT LOOK OPEN LIFE

AND I WOULD ARGUE PRAGMATISM IS

CONTROVERSIAL.

MANY AMERICANS FIND PRAGMATISM

DISTASTEFUL BUT YET HE DECODED

IT AS THE BEST RESULT, AND THERE

ARE OTHER PROBLEMS HERE.

WESTIN'S QUESTIONS, THE

SCREENING QUESTIONS USED REALLY

HAD NOTHING TO DO WITH

PRAGMATISM.

NOTHING IN THERE ASKING DO YOU

READ PRIVACY POLICIES, HOW MUCH

TIME DO YOU SPEND RESEARCHING

PRODUCTS AND THE LIKE.

IT'S NOT IN THERE.

AND A NUMBER OF CONSUMERS SIMPLY

WON'T ANSWER ONE OF THE

QUESTIONS.

OUR STUDY WE FOUND BETWEEN TWO

AND FIVE PERCENT OF CONSUMERS

WOULDN'T ANSWER ONE OF THE THREE

QUESTIONS, WHAT DO YOU DO WITH

PEOPLE THAT DON'T ANSWER

QUESTIONS AND WESTIN'S METHODS

YOU MAKE THEM PRIVACY PRAGMATIST

AND THAT IS PROBLEMATIC AND IT

EXPLAINS ANOTHER CRITIQUE THAT

WESTIN NEVER PUBLISHED HIS WORK

IN PART BECAUSE I DON'T THINK IT

WAS PUBLISHABLE, THIS

WORK -- EXCUSE ME -- THIS WORK

I DON'T THINK WAS PUBLISHABLE.

ANOTHER WAY TO LOOK AT DATA

IS -- THIS IS WHERE I'M STANDING

ON THE SHOULDERS OF PEOPLE SUCH

AS PROFESSOR TUROW AND HE

POINTED OUT WHEN YOU ASK PEOPLE

ABOUT RULES OF PRIVACY MOST OF

THEM DON'T GET THE BASIC ANSWERS

RIGHT.

HE SHOWS ESSENTIALLY THAT

CONSUMERS THINK THAT PRIVACY

POLICY IS A SEAL.

MOST CONSUMERS THINK IF A

PRIVACY POLICY IS MERELY PRESENT

THAT WEB SITE CANNOT SELL

PERSONAL INFORMATION TO THIRD

PARTIES: FOR THIS REASON WE

SHOULD BE SKEPTICAL OF TRADEOFF

TALK.

PEOPLE DON'T UNDERSTAND THE

TRADE TO BEGIN WITH.

AND I'M GOING TO GET TO A SECOND

REASON WHY WE SHOULD BE

SKEPTICAL OF IT.

TUROW WAS STANDING ON THE

SHOULDERS OF OTHER PEOPLE IN THE

PRIVACY FIELD INCLUDING OSCAR

GRANDE AND IN HIS VIEW OF DATA

HE VIEWED KNOWLEDGE OF PRIVACY

AS A POWERFUL EXPLANATORY FACTOR

OF WHY PEOPLE CARE ABOUT PRIVACY

AND HOW THEY MAKE DECISIONS AND

THIS IS WHERE A LOT OF MY WORK

PICKED UHM AND I WROTE A NUMBER

OF STUDIES THAT -- ACTUALLY, THE

FUN COVERS STARTED WHEN I

STOPPED WRITING WITH JOE.

THE JOE COVERS ARE BORING BUT MY

COVERS ARE I THINK MORE

EXCITING.

YOU WILL SEE THE PARTHENON MARCH

FELLS IN MY STUDIES BECAUSE I

THINK THEY'RE QUITE BEAUTIFUL.

AND.

>> NOT ONLY THAT, PEOPLE WHO

SHOPPED ONLINE WERE LESS

KNOWLEDGEABLE OF RULES AND

PRACTICES THAN PEOPLE WHO DIDN'T

SHOP ONLINE.

STRANGE.

YOU THINK PEOPLE SHOPPING I

DON'T MEAN WOULD READ PRIVACY

POLICY.

SO WE DID A WHOLE BUNCH OF

SURVEYS OVER THE YEARS WHERE WE

PRESENTED PEOPLE WITH QUIZZES

ASKING THEM QUESTIONS THAT TUROW

INVESTIGATORS USED AND WE FOUND
OVER AND OVER THAT THE BASICS,
PEOPLE FAILED THE BASIC QUIZZES
AND JUST PASS AN EXAMPLE, IN OUR
2009 SURVEY, 75% ANSWERED TWO OR
FEWER QUESTIONS CORRECT LIMIT
30% GOT NONE OF THEM CORRECTLY
AND PEOPLE SAY THE DIGITAL
NATIVES ARE GOING TO SAVE US.
THIS IS A GENERATIONAL PROBLEM.
THE DIGITAL NATIVES ARE GOING TO

NO.

FIGURE THIS OUT.

THEY'RE THE WORST PERFORMERS IN
OF THE GROUP, ONLINE AND OFF,
WHEN WE ASK ABOUT ONLINE PRIVACY
SO WE REPLICATE THE STUDY AGAIN
IN 2012, AND WE FIND AGAIN THAT
THERE'S -- THAT OUR SUBSTANTIAL
MISCONCEPTIONS ABOUT PEOPLE'S
RIGHTS AND ABOUT WHAT PRACTICES
ARE AND WE FIND OVER AND OVER

AGAIN AND THE THREE STARS MEAN A

P-VALUE OF .001, THAT THE

PRIVACY FUNNEL MENTALISTS ARE

MORE KNOWLEDGEABLE OF OTHER

GROUPS, THE OTHER GROUPS THAT

ARE SO-CALLED WHO APPARENTLY

DON'T CARE OR WHO ARE MAKING

TRADEOFFS.

SO THE MAIN POINT OF OUR PAPER

IS THAT WESTIN'S SEGMENTATION

HAS CONFUSED PRAGMATISM WITH

ORDINARY CONSUMER

DECISION-MAKING.

AND THAT MOST -- MANY CONSUMER

NETS MARKETPLACE ARE SIMPLY

UNINFORMED.

THEIR VIEWING PRIVACY POLICIES.

ANOTHER MAJOR PART THIS PAPER,

IS IT THE IDEA ABOUT WHETHER

PEOPLE -- WHETHER AMERICANS ARE

MORE CONCERNED ABOUT GOVERNMENT

COLLECTION OF PERSONAL

INFORMATION OR PRIVATE SECTOR

PERSONAL INFORMATION COLLECTION

AND WHAT WE HAVE FOUND OVER AND

OVER IN OUR SURVEYS IS THAT

AMERICANS ARE CONCERNED ABOUT

BOTH.

AND THIS IS NOT JUST OUR

FINDINGS.

IF YOU LOOK AT THE MAJOR

LITERATURE REVIEWS IN PUBLIC

OPINION QUARTERLY AND THESE ARE

THE COMPLETE COMPEL SCIENTISTS

THAT STUDY POLICY AND THEY LOOK

AT ALL OF THE STUDIES OVER

DECADES, THEY FIND GOING BACK TO

THE 1980s, AMERICANS SAY

THEY'RE JUST AS CONCERNED ABOUT

THE PRIVATE SECTOR AS THEY ARE

WITH THE GOVERNMENT SECTOR.

SO WE ARGUE BASICALLY THAT RCT

AS A MODEL FAILS IN THIS FIELD

BECAUSE PEOPLE ARE LABORING WITH

SUBSTANTIAL MISCONCEPTIONS ABOUT

THEIR RIGHTS AND THEY DO CARE

ABOUT THOSE RIGHTS.

LET ME SAY SOMETHING ABOUT

WESTIN.

HE WAS A FANTASTIC ACADEMIC AND

HIS WORK, HIS ACADEMIC WORK WAS

GROUP.

AND HE IS TRULY A PROGENITOR OF

AMERICAN GENERALRATION PRIVACY.

IN HIS BOOK "PRIVACY AND

FREEDOM" AS YOU HAVE PROBABLY

HER, OMER'S GROUP REPUBLISHED IT

AND ITS WORTH A READ.

HE WAS AGAINST TECHNOLOGY

DETERMINISM WHICH IS A

PHILOSOPHY ONE HEARS A LOT OF IN

D.C. AND HE ALSO SAW PRIVACY AS

A LIBERAL VALUE.

SO HIS SURVEY WORK I CRITIQUE

TODAY IS NOT HIS ACADEMIC WORK

AND I HAVE A LOT OF RESPECT FOR

THAT ACADEMIC WORK.

SO WHAT DO WE DO?

WHAT ARE THE IMPLICATIONS FOR

FTC PRACTICE?

WE COULD VIEW PRIVACY POLICIES

AS SEALS.

WHEN YOU GO TO THE MARKETPLACE

AND BUY THE ORGANIC VEGETABLE

YOU DON'T LOOK FOR AN ORGANIC

POLICY.

YOU ASSUME THAT ORGANIC MEANS

CERTAIN THINGS.

WE COULD START SAYING PRIVACY

MEANS CERTAIN THINGS.

NOW, THE FTC HAS ALREADY STARTED

TO DO THIS IN SECURITY.

IF YOUR PRIVACY POLICY SAYS

ANYTHING ABOUT SECURITY, IT

REQUIRES SOME TYPE OF REASONABLE

CONTROL OVER PERSONAL

INFORMATION.

ANOTHER APPROACH COMES FROM THE

HISTORY OF THE FEDERAL TRADE

COMMISSION.

IN THE 1970S THE FEDERAL TRADE

COMMISSION STARTED RECRUITING

MARKETING ACADEMICS TO COME IN

HOUSE AND THIS GREATLY PUNCHED

UP THE FEDERAL TRADE

COMMISSION'S UNDERSTANDING OF

HOW CONSUMERS WERE MISLED BY

FALSE ADVERTISING AND IF YOU

LOOK AT TODAY'S COMMISSION

ACTIONS, THEIR FALSE ADVERTISING

THEORIES ARE MUCH MORE IN LINE

WITH HOW CONSUMERS REALLY

UNDERSTAND ADS AND HOW CONSUMERS

REALLY ACT, AND THAT HAS NOT

COME OVER TO THE PRIVACY SIDE.

SO WE COULD REPLICATE THAT, AND

THEN FINALLY I DO THINK THAT WE

NEED TO LOOK AT UNFAIRNESS MORE

AS A REMEDY FOR PRIVACY

PROBLEMS.

NOW WHY IS THIS?

NOTICE AND CHOICE MIGHT WORK IN

A WORLD WHERE YOU'RE SELLING

PHYSICAL PRODUCTS BUT WE ARE NOT

DOING THAT IN THIS WORLD.

THESE ARE PERSONAL INFORMATION

PRODUCTS AND THE TRANSACTIONS

ARE NOT DISCREET.

THE TRANSACTIONS ARE CONTINUOUS.

THAT MEANS THAT LOCK IN,

SHIFTING PRACTICES, NETWORK

EFFECTS ARE ALL WAYS IN WHICH

COMPANIES CAN SHAPE CHOICES AND

IN EFFECT REMOVE CHOICE FROM THE

CONSUMER.

AND I WRITE ABOUT THIS IN A MUCH

GREATER DETAIL IN THIS PAPER

WITH JAN WHITTINGTON.

FINAL LET ME SAY THANK YOU AND I

CAN'T AVOID MAKING A PITCH FOR

MY BOOK WHICH DISCUSSES THESE

ISSUES IN MUCH GREATER DETAIL

AND I KNOW THE AD PRACTICES

DIVISION IS NOT IN ATTENDANCE

TODAY SO WHAT I WILL SAY ABOUT

IT IS, IF YOU READ THIS BOOK

INSTEAD OF EATING CHOCOLATES AND

OTHER THINGS YOU'RE GUARANTEED

TO LOSE WEIGHT, WITHOUT

EXERCISE.

[LAUGHTER]

THANK YOU.

>> THANKS CHRIS.

FINALLY FROM PROFESSOR JOE TUROW

ON THE TRADEOFF FALLACY.

>> THANK YOU.

I'M GOING TO GO THROUGH THIS

FAIRLY QUICKLY.

IT'S A LOT TO TALK ABOUT BUT I

WANT TO GIVE YOU A SENSE OF THE

ARC.

THE IDEA IS THAT MARKETERS

JUSTIFY THEIR WORK WITH THE

ASSUMPTION THAT AMERICANS

UNDERSTAND THE BENEFIT OF THE

DATA TRADEOFFS.

WE CHALLENGED WITH THIS WITH A

NATIONAL TELEPHONE SURVEY AND

FURTHER WE PRESENT EVIDENCE THAT

WHAT OBSERVERS INTERPRET AS

TRADEOFF BEHAVIOR IS WIDESPREAD

RESIGNATION AMONG AMERICANS

MARKET USE OF DATA.

WHAT WE SOMETIMES INTERPRET AS

TRADEOFFS AND CAN BE LOOKED AT

WHEN PEOPLE DO THINGS AS GEE

THEY'RE DOING TRADEOFFS IS

REALLY REFLECTIVE OF RESIGNATION

OF LARGE PROPORTION OF THE

POPULATION.

SO WHAT'S THE ISSUE?

POLLS REPEATEDLY FIND THAT

CONSUMERS ARE CONCERNED ABOUT

WAYS MARKETERS ACCESS AND USE

THEIR DATA ONLINE.

AND THERE ARE STUDIES FROM PEW.

FROM BAIN AND COMPANY AND

ANNENBERG REFLECTING THAT.

AT THE SAME TIME OBSERVE HERS

CONCUR THAT PEOPLE OFTEN RELEASE

DEALT ABOUT THEMSELVES THAT

SUGGEST MUCH LESS CONCERN.

THAT'S CALLED THE PRIVACY

PARADOX, THE NOTION THAT PEOPLE

SAY THEY LOVE PRIVACY BUT IN

EVERYDAY LIFE, IT'S DIFFERENT,

THEY DON'T, THEY GIVE IT UP,

THEY GIVE UP DATA FOR ANYTHING.

SOME MARKETERS READ THIS PARADOX

AS EVIDENCE THAT PEOPLE PLACE

OTHER THINGS ABOVE PRIVACY,

WHICH LEADS TO THE NOTION OF

TRADEOFFS THAT CHRIS WAS TALKING

ABOUT.

FOR EXAMPLE YAHOO SAYS THAT

ONLINE AMERICANS "DEMONSTRATE A

WILLINGNESS TO SHARE INFORMATION

AS MORE CONSUMERS BEGIN TO

RECOGNIZE THE VALUE AND THE

BENEFIT OF ALLOWING ADVERTISERS

TO USE DATA IN THE RIGHT WAY."

AND PRESIDENT MOBIQUITY SAID THE

AVERAGE PERSON IS MORE THAN

WILLING TO SHARE THEIR

INFORMATION WITH COMPANIES IF

THE ORGANIZATIONS SEE THE

OVERALL GAIN FOR END USERS AS A

GOAL NOT JUST FOR THEMSELVES.

THIS REFLECTS SOME OF THE

RATIONAL A CHOICE THINKING THAT

CHRIS WAS ALLUDING TO.

A FEW CORPORATE VOICES IN THE

PAPERS, BY ACCENTURE, BAIN,

BRAND BOND LOYALTY, HAVE PUT

CAUTIONS AROUND SUCH

GENERALLYSATIONS HAD.

BAIN SAYS CUSTOMERS TRUST CANNOT

BE BOUGHT BY COMPANIES OFFERING

COMPENSATION IN EXCHANGE FOR

SELLING OR SHARING PERSONAL DATA

AND OTHERS HAVE URGED

TRANSPARENCY AND NOT SAYING WHAT

TRANSPARENCY MEANS.

THEY USE THE WORD THOUGH.

GENERALLY THOUGH FIRMS ARGUE

THAT CONSUMERS' UNDERSTANDING OF

TRADEOFF ALONG WITH INCREASING

CONSUMER POWER JUSTIFIES

CONSUMER DATA COLLECTION AND

USE.

THE BIG DEAL TODAY IS THAT

CONSUMERS HAVE THIS HUGE POWER

WITH THE USE OF THE MOBILE

PHONE, THE USE OF THE INTERNET

IN OTHER WAYS AND AS A RESULT

COMPANIES HAVE TO PUSH BACK

SOMETIMES IN ORDER TO MAINTAIN

SOME KIND OF PROFITABLE

RELATIONSHIP.

AND MARKETERS INCREASINGLY SEE

PERSONALIZATION RESULTING FROM

PRE-DECORATIVE ANALYTICS AS A

SAVIOR IN AN AGE OF HIGHWAY

COMPETITION.

THIS IS A GREAT QUOTE FROM

YAHOO: THIS CONCEPT OF VALUE

CHANGE FOR PERSONALLY DATA IS

STARTING TO COME DO LIFE THROUGH

PERSONALIZATION THAT IT'S A

PATHWAY TO ADVERTISING NIRVANA.

THE TRADEOFF LOGIC JUSTIFIES

360° TRACKING.

AND I WANTED TO CITE GARTNER, A

CONSULTING FIRM AND THEY TALK

ABOUT FOUR STABLES BEHALF THAT

CALL COGNIZANT COMPUTING THAT

UNROLL OVER THE NEXT TWO TO FIVE

YEARS.

THIS WAS WRITTEN I THINK TWO

YEARS AGO.

WITH THE FIRST TWO WELL

UNDERWAY.

THEY CALL THEM SYNCH ME, SEE ME,

KNOW ME, BE ME.

IT'S THE IDEA OF REALLY GETTING

TO KNOW PEOPLE AS MUCH AS YOU

CAN DATA-WISE IN ALMOST AN

ORGANIC WAY TO FIGURE OUT WHAT

IS GOING ON AND HOW TO MAKE

MONEY OFF OF THEM.

ALL RIGHT.

BUT THERE ARE ALTERNATIVES

EXPLANATIONS TO TRADEOFFS.

ONE IS THE PUBLIC'S LACK OF

KNOWLEDGE OF WHAT MARKETERS ARE

DOING WITH THEIR DATA BEHIND THE

SECURITY SCREEN.

CHRIS TALKED ABOUT SOME OF THAT.

A LOT OF SURVEYS SHOW THAT LACK

OF KNOWLEDGE.

AND CRANO AND McDONALD FOUND

THAT PEOPLE DON'T UNDERSTAND

PRIVACY POLICIES.

ALEXANDRA ACQUISTI AND OTHERS

TALK ABOUT THE DIFFICULTY OF

UNDERSTANDING DOGCAL AND

INSTITUTIONAL SYSTEMS.

THIS KNOWLEDGE FAILURE RESEARCH

EXPLAINS THE EASE WITH WHICH

DATA RETAILERS AND ADVERTISERS

RETRIEVE INFORMATION FROM

INDIVIDUALS, THOUGH THE

PROPOSITION HASN'T BEEN DIRECTLY

TESTED.

BUT IT MIGHT GET MARKETERS OFF

THE HOOK TOO EASILY SO WE SAY,

PEOPLE HAVE LACK OF KNOWLEDGE.

IT'S BECAUSE OF THE SCHOOLS

DON'T TEACH THEM ENOUGH OR LET'S

FIGURE OUT AN EDUCATIONAL

PROGRAM.

AND ADD CHOICES, THE LITTLE

ICONS THAT YOU'RE SUPPOSED TO

SEED.

I GAVE A TALK AT THE PEN LAW

SCHOOL SHOWING A SLIDE AND

NOBODY SAW IT.

OK? BUT THEY CAN POINT TO THIS.

AND TO SOUND MORE OPTIMISTIC

ABOUT THE PUBLIC -- WHAT THE

PUBLIC IS THAN PEOPLE LIKE ME OR

POLICY MAKERS AIVETS THIS.

SO WE DID A SURVEY TO TRY TO

LOOK AT SOME HYPOTHESIS RELATE

TODAY THIS.

A 20 MINUTE INTERVIEW TAKING

PLACE FEBRUARY-MARCH 2015,

ENGLISH OR SPANISH SPEAKING

SAMPLE OF 750 LANDLINE, WIRELESS

756 CONDUCTED BY PRINCETON

SURVEY RESEARCH ASSOCIATES, MORE

DATA ABOUT THAT IS IN THE PAPER.

OF WE LOOK FIRST AT THE PEOPLE'S

PHILOSOPHY OF TRADEOFFS, NOT THE

PARTICULARS BUT WHAT TO THEY

KNOW ABOUT, WHAT DO THEY THINK

ABOUT THE IDEA OF TRADEOFF?

AND YOU CAN SEE IT TEZ --

SORRY -- IF COMPANIES GIVE ME PA

DISCOUNT IT'S A FAIR EXCHANGE

FOR THEM TO COLLECT INFORMATION

WITHOUT MY KNOWING OF IT.

91% SAID NO.

IT'S FAIR FOR AN ONLINE OR

PHYSICAL STORE TO MONITOR WHAT

I'M DOING ONLINE WHEN I'M THERE

IN EXCHANGE FOR LETTING ME USE

THE STORE'S WIRELESS INTERNET

OR WiFi WITHOUT CHARGE.

71% SAID NO.

IT'S OK IF A STORE WHERE I SHOP

USES INFORMATION IT HAS ABOUT ME

TO CREATE A PICTURE OF ME THAT

MINNEAPOLIS THE SERVICE THEY

PROVIDE ANT ME?

55% SAID NO.

NOW, ODDLY IF WE LOOK AT HOW

MANY PEOPLE AGREE WITH ALL THREE

PROPOSITIONS ONLY 4% AGREE WITH

ALL THREE PROPOSITIONS.

WE TOOK A BROADER DEGREE AND

GAVE NUMBERS TO EACH, LIKE AGREE

STRONGLY, DISGREE DISAGREE

STRONGLY AND IN THAT BROADER

INTERPRETATION WE FOUND STILL

SMALL PROPORTION, 21% BELIEVES

THAT COMMON TRADEOFFS WITH

MARKETERS AMOUNT TO A FAIR DEAL.

PUT WE WANTED TO LOOK AT THE

PRIVACY POLICY IN TERMS OF A

SCENARIO OF REAL LIFE.

SO WE SAID FOR THE NEXT FEW

QUESTIONS THINK ABOUT THE

SUPERMARKET YOU GO TO MOST

OFTEN.

SAY THE SUPERMARKET SAYS IT WILL

GIVE YOU DISCOUNTS IN CHANGE FOR

ITS COLLECTING INFORMATION ABOUT

ALL OF YOU GROCERY PURCHASES.

WOULD YOU ACCEPT THE OFFER OR

NOT?

52% SAID NO.

43% SAID YES.

WHICH IS INTERESTING BECAUSE

IT'S CLOSE TO THAT OTHER -- OF

THE THREE STATEMENTS WE SAID

IT'S OK IF A STORE WHERE I SHOP

USES INFORMATION IT HAS ABOUT ME

TOO CREATE A PICTURE.

YOU SAY WELL THAT'S THOSE 43%.

TURNS OUT IT'S NOT.

>> BECAUSE WHEN WE LOOKED AT IT

WE FOUND ONLY 40% OF THE PEOPLE

WHO ACCEPT THAT AGREED WITH THE

SUPERMARKET THING.

NOTICE PEOPLE ARE VERY IN

SQUINT.

THE LACK MUCH CORRESPONDENCE

UNDER SCORES THAT A SMALL

PERCENTAGE CONSISTENTLY ACCEPTS

THE IDEA OF TRADEOFF.

WE WANTED TO KNOW WHETHER PEOPLE

WHO SAY THEY WILL ACCEPT A

SUPERMARKET DISCOUNT WILL STILL

TO IT WHEN PRESENTED WITH

SPECIFIC ASSUMPTIONS A

SUPERMARKET MAY MAKE.

SO FOR EXAMPLE YOU MIGHT SAY I

WILL TAKE IT DISCOUNT BUT WHAT

IF YOU KNOW THE SUPERMARKET IS

DOING WITH YOUR DATA.

THIS IS KNOWLEDGE AMERICANS

ALMOST NEVER RECEIVE DIRECTLY

BUT MAY INTUIT FROM ADS AND

COUPONS THEY THINK ARE TARGETED

TOWARD THEM.

SO WE HAVE A VARIETY OF THINGS

WE ASK THEM.

WE SAID, WILL YOU ACCEPT -- THE

PEOPLE WHO SAID THEY WOULD

ACCEPT THE DISCOUNT IN THE FIRST

PLACE, WE SAID WOULD YOU ACCEPT

IT IF THEY IF THE SUPERMARKET

MAKES ASSUMPTIONS BASED ON YOUR

PURCHASES ABOUT WHETHER YOU BUY

LOW-FAT FOODS.

IT WENT DOWN TO 33%.

THE MORE WE ASKED PARTICULAR

QUESTIONS ABOUT INDIVIDUAL'S

LIVES, THE LESS THEY SAID THEY

WOULD DO IT.

SO SO IN THE END WHEN WE ASKED

ABOUT SOCIAL ETHNIC BACKGROUND,

INFERENCE ONLY 19% SAID THEY

WOULD ACCEPT IT.

THE TABLE SHOWS THE LIMITS OF

COST BENEFIT ANALYSES AS A

RATIONALE FOR MARKERS' CLAIMS

THAT MOST PEOPLE WILL PROVIDE

PERSONAL DATA IN EXCHANGE FOR

STORE DEALS.

THE DECLINE IN ACCEPTANCE FROM

43% TO AROUND 20% IS NOT

CONSISTENT WITH MARKETERS'

ASSERTIONS THAT PEOPLE ARE

GIVING UP THEIR PERSONAL

INFORMATION BECAUSE OF

COST-BENEFIT ANALYSIS.

IN THE SUPERMARKET SCENARIO

THEY'RE DOING JUST THE OPPOSITE.

RESISTING THE IDEA OF GIVING

DATA FOR DISCOUNTS BASED ON SOME

KIND OF ANALYSIS.

THEN WE WENT AHEAD AND OUR

HYPOTHETICAL SIS CAME OUT OF AN

EVERY DAY REALIZATION WHEN WE

MET PEOPLE THEY WOULD SAY THINGS

LIKE GEE I HAVE TO GIVE UP THE

DATA, I WANT TO BE ONLINE, I

HAVE TO BE ON FACE BOOB, I DO

THIS STUFF AND I DON'T KNOW WHAT

IS GOING ON BUT I HAVE TO DO IT

ANYWAY.

SO WE GAVE THE STATEMENTS

SEPARATED BY OTHER STATEMENTS SO

THEY WERE NOT FOLKS TO EACH

OTHER: I WANT TO HAVE CONTROL

OVER WHAT MARKETERS CAN LEARN

ABOUT ME.

I HAVE COME TO ACCEPT THAT I

HAVE LITTLE CONTROL OVER WHAT

MARKETERS CAN LEARN ABOUT ME.

IT TURNS OUT 58% OF PEOPLE AGREE

WITH THOSE WHICH INDICATES

RESIGNATION.

RESIGNATION MEANS THE ACCEPTANCE

OF SOMETHING UNDESIRABLE BUT

INEVITABLE.

GOT THAT FROM GOOGLE, GOOGLE

DICTIONARY.

WE FIND THERE'S A STRONG

POSITIVE STATISTICAL

RELATIONSHIP BETWEEN LEAVING IN

TRADEOFFS AND ACCEPTING OR

REJECTING VARIOUS KINDS OF

SUPERMARKETS USE OF DISCOUNTS.

YOU WOULD EXPECT THAT.

BY CONTRAST THERE'S NO

STATISTICAL RELATIONSHIP BETWEEN

BEING RESIGNED TO MARKETERS USE

OF DATA AND ACCEPTING OR REJECT

BEING THE SUPERMARKET TRADEOFF.

PEOPLE WHO ARE RESIGNED,

SOMETIMES THEY DO, SOMETIMES

THEY DON'T.

THEY TRY TO NAVIGATE A WORLD

THAT THEY DON'T UNDERSTAND OR

ARE ANNOYED ABOUT POSSIBLY AND

THEY SOMETIMES WILL DO IT.

THEY MAY LOOK LIKE THEY'RE

ACCEPTING TRADEOFFS BUT IN THEIR

HEADS THEY'RE SAYING, GEE, I'M

RESIGNED TO IT.

BUT ANOTHER WAY, PEOPLE WHO

BELIEVE IN TRADEOFFS GIVE UP

THEIR DATA PREDICTABLY AND

PEOPLE WHO ARE RESIGNED DON'T DO

IT IN A PREDICTABLE MATTER.

THEY DO GIVE UP DAWN.

WE FOUND 57 OF THOSE WHO TOOK

THE SUPERMARKET DEAL WERE

RESIGNED, A MUCH SMALLER 32%

WERE TRADEOFF SUPPORTERS USING

THE BROADER MEASURE OF TRADEOFF

SUPPORT THAT I SUGGESTED.

THE LARGER PERCENTAGE OF PEOPLE

IN THE POPULATION WHO ARE

RESIGNED COMPARED TO THOSE WHO

BELIEVE IN TRADEOFFS INDICATE

THAT IN THE REAL WORLD PEOPLE

WHO EXCHANGED THEIR DATA FOR

BENEFITS ARE MORE LIKELY TO DO

IT WHILE RESIGNED RATHER THAN AS

A RESULT OF COST BENEFIT

ANALYSIS.

MORE OVER WE FOUND THAT

REGULATION NATION IS WIDESPREAD

ACROSS THE U.S. POPULATION,

REGARDLESS OF AGE, GENDER,

EDUCATION, OR RACE.

THERE WERE NO STATISTICAL

DIFFERENCES BETWEEN AGE AND

GENDER.

THERE WERE BETWEEN EDUCATION AND

RACE.

BUT STILL THE LARGE PERSONAL OF

PEOPLE RESIGNED ANYWAY.

WE FOUND THAT MOST AMERICANS

DON'T HAVE BASIC KNOWLEDGE TO

MAKE INFORMED COST BENEFIT

CHOICES.

THIS IS SOME OF THE STUFF CHRIS

WAS TALKING ABOUT.

>> 51% CANNOT RECOGNIZE

PHISHING AND LARGE PERSONALS

BELIEVE INCORRECTLY THAT

GOVERNMENT LAWS PROTECT THEM

FROM PRICE DISCRIMINATION AND

CERTAIN FORMS OF DATA

COLLECTION.

AND IT SUGGESTS WHEN AMERICANS

DO WEIGH THE COST AND BENEFIT OF

GIVING UP THEIR DATA THEY BASE

THOSE CHOICES ON INCORRECT

INFORMATION.

BUT WE ALSO FOUND -- THIS WAS

SURPRISING TO ME -- THAT THOSE

WHO KNOW MORE ABOUT MARKETING

LAWS AND PRACTICES ARE MORE

LIKELY TO BE RESIGNED.

WE FOUND, TOO, THAT RESIGNED

PEOPLE WHO ACCEPT SEURK MARKET

DISCOUNTS EVEN AS THE

SUPERMARKET COLLECTS

INCREASINGLY PERSONAL DATA HAVE

MORE KNOWLEDGE THAN OTHERS.

SO HAVING MORE KNOWLEDGE IS NOT

PROTECTIVE AS A PROTECTIVE

FEATURE AS SOME ACADEMICS HAVE

SUGGESTED.

SO WHAT DO WE DO ABOUT IT?

THE RATIONALE OF TRADEOFF SAYS A

FIGURE LEAF -- A FIG LEAF USED

BY MARKETERS TO JUSTIFY A WORLD

OF TRACKING AND INCREASINGLY

PERSONALIZED PROFILING THAT

PEOPLE KNOW IS THERE, DON'T

UNDERSTAND, AND SHEA THEY DON'T

WANT.

WE HAVEN'T BEGUN TO CONSIDER THE

SOCIAL IMPLICATIONS OF HAVING A

LARGE POPULATION THAT IS

RESIGNED ABOUT A KEY ASPECT OF

ITS EVERYDAY ENVIRONMENT.

NOW THIS MAY SOUND REALLY DARK.

AND YOU KNOW, WHAT DO YOU DO

ABOUT IT?

BUT I THINK IT'S IMPORTANT TO

CONFRONT WHAT I SEE IN EVERYDAY

LIFE WHEN I TALK TO PEOPLE --

THAT PEOPLE DO THESE THINGS

ONLINE, IN STORES WITH APPS, NOT

BECAUSE THEY'RE THINKING IN A

COST BENEFIT WAY RATIONALLY BUT

BECAUSE THEY FEEL THEY HAVE NO

OTHER CHOICE IF THEY WANT TO

LIVE IN THIS WORLD.

WE'RE ONLY AT THE BEGINNING OF

KEY ASPECTS OF THIS ERA.

THIS IS THE BEGINNING OF A NEW

ERA, NOT EVEN THE MIDDLE.

AND THERE MAY BE TIME FOR

CONCERNED PARTIES TO GUIDE ID.

ACADEMY MIX, JOURNALISTS AND

ADVOCATES HAVE 240 TRANSLATE THE

KEY ISSUES FOR THE PUBLIC.

THERE ARE A LOT OF ISSUES

OBFUSCATE AND ON FEW CASE AND

DECEPTION.

THE PUBLIC INTEREST, CONVENIENCE

AND NECESSITY.

THE IMPORTANT THAT PEOPLE HAVE

ALLUDED TO TO PRAISING AND

NAMING GROUPS THAT DO RIGHT

THINGS AND NOT SO RIGHT THING.

THANKS FOR LISTENING.

>> THANKS TO ALL OF OUR

PRESENTERS AND NOW WE'RE GOING

TO MOVE INTO A BRIEF PERIOD OF

DISCUSSION.

>> ONE CAVEAT, JOE MAY HAVE TO

LEAVE EARLY.

HE IS TEACHING TWO CLASSES TODAY

AT PENN SO IF YOU SEE HIM SHRINK

OFF HE IS NOT IN TROUBLE, HE IS

NOT ANGRY AT US, WE'RE NOT MAD

AT HIM.

SO I'M GOING TO START, YOU KNOW,

SOME OF TREPPEDZ I SAW FROM THE

PRESENTATIONS.

ONE, THE PROLIFERATION AND

GROWING PARTICIPATION AND

COMPLEXITY OF ONLINE TRACKING

REFLECTED IN STEVEN AND

IBRAHIM'S WORK AND I LOVE THE

REVISED CHART WITH THE HUNDREDS

OF THOUSANDS OF COMPANIES AND

YOU CAN SEE THEM ON THE BIG

SCREEN, AND MORE TECHNOLOGY,

TOO, NOT JUST COOKIES BUT HTTP 5

AND ALL OF THIS.

AND LODGECALLY AND NOT

SURPRISINGLY, THE THEORY OF JOE

AND CHRIS' ARGUMENT IS THAT

THERE'S AN INCREASING INABILITY

TO CONSUMERS TO MANAGE OR

CONTROL THEIR PRIVACY, GETTING

ALL OF THESE -- GIVEN ALL OF

THESE ADVANCES SO THE IDEA THAT

A CONSUMER GOES TO THE WEB SITE

AND MAKES A CHOICE THAT I'M

SATISFIED HOW E TAGS ARE USED IN

ON SITE AND I WILL EXCHANGE ANY

CONTENT FOR THAT IS FLAWED AND

THIS BUILDS ON LORI CRANER'S

WORK THAT IF YOU HAD TO READ

EVERY PRIVACY POLICY IT WOULD

TAKE A MONTH OF YOUR LIFE.

SO INSTEAD OF THAT, IT SOUNDS

LIKE THAT THERE'S THIS

RESIGNATION, RIGHT, INSTEAD OF

PRIVACY PRAGMATISM THERE'S

RESIGNATION, AND THIS IS WHAT

JOE'S WORK WAS TALKING ABOUT.

THIS HIT HOME WITH ME THIS

WEEKEND B I WENT SKIING WITH PA

FRIEND OF MINE AND WE WERE

TALKING AND HE SENT A LINK TO

HIS DAD OF NEWS 74 AND THE DAD

SAID I'M NOT OPENING THAT, DO

YOU KNOW HOW MANY COOKIES ARE IN

THERE?

AND HE SATISFIED YEAH I KNOW.

HE IS NOT A PRIVACY GUY, NEITHER

OF THEM.

HE IS LIKE YEAH I KNOW WHAT BUT

WHAT ROUGH GOING TO ADD?

YOU CAN GO THROUGH INSTALLING

ADD BLOCK OR DELETING COOKIES

AND WE DON'T HAVE TIME TO THINK

ABOUT THESE QUESTIONS AND WE ALL

TALKED TO PEOPLE WITH SIMILAR

EXPERIENCES AND WE HAVE HAD

SIMILAR EXPERIENCES OURSELVES

LIKE I DON'T KNOW WHAT IS GOING

ON HERE AND I DON'T HAVE THE

TIME TO FIGURE IT OUT.

AND IT'S NOT JUST THE WEB.

IT'S THE INTERNET OF THINGS.

>> WE HAD OUR CROSS DEVICE

TRACKING WORKSHOP WHERE TV'S AND

TOASTERS COLLECT INFORMATION

ABOUT US IN PHYSICAL SPACE WITH

THE AUTOMATIC LICENSE PLATE

READERS AND ARE WE MAKING AN

INFORMED CHOICE WHEN WE GO

OUTSIDE ABOUT FACIAL

RECOGNITION.

SO ONE THING IN I WOULD LIKE TO

HEAR FROM THE FOLKS ABOUT AND

I'M GOING TO TURN IT OVER TO MY

OTHER DISCUSSION FIRST IS, SO

WHAT DOES THE SOLUTION LOOK

LIKE?

DO WE JUST RIDE IT OUT?

HAD A LOT OF FOLKS SAY THAT?

BRANDEIS WAS CONCERNED ABOUT

CAMERAS AND DO WE WANT

GOVERNMENT MAKING RULES ABOUT

HOW MUCH TRACKING CAN HAPPEN IF

CONSUMERS CAN'T MAKE THE CHOICES

THEMSELVES, SAY 15 COOKIES AND

THAT IS IT?

SO THE POINT OF PRIVACY, AND WE

CAN HEAR 42 SMART PEOPLE

THINKING ABOUT THIS TO HELP THEM

INFLUENCE POLICY DECISIONS SO I

WOULD LOVE TO HEAR YOUR THOUGHTS

ABOUT SOLUTIONS LATER.

AND I WILL ASK A QUESTION BUT

FIRST I WILL TURN IT OVER TO

ELANA ZEIDE.

>> ONE INTERESTING THEME I'M

NOTICING IS A SHIFT AWAY FROM

INFORMED NOTICE NOR INDIVIDUALS

BUT MORE TRANSPARENCY FOR THE

POP LAS ,INCLUDING CONSUMERS AND

MORE IMPORTANTLY SORT OF

EXPERTS, ADVOCATES, POLICY MAKE

HERS, ACADEMICS.

AND WHERE THAT SEEMS TO ALSO BE

A SHIFT FROM THE IDEA OF

QUESTIONING

CONSUMERS-DECISION-MAKING

CAPABILITIES TO WHETHER IN FACT

THEY'RE ACTIVELY NEONATALLING IN

A CHOICE AT ALL OR EITHER

RESIGNED BECAUSE THEY SEE NO

AGENCY AND NO REASONABLE

ALTERNATIVES TO OPTING OUT OF

THE MAINSTREAM OR BECAUSE THEY

HAVE TRUST IN THE DEFAULT

SYSTEM.

IF YOU LOOK AT THE IDEA OF

WHETHER ATLANTIC PAIRNS SEE IS A

MEANS TO SOLVE THOSE ISSUES AND

ACCOMPLISH THAT I THINK THERE

ARE SEVERAL IMPLICATIONS BASED

ON THIS RESEARCH.

ONE IS: HOW DO YOU USE

TRANSPARENCY AS A WAY TO

GALVANIZE CONSUMERS TO

ARTICULATE THEIR PREFERENCES OR

ENGAGE IN PRIVACY SELF

MANAGEMENT IF IN FACT IT MAY

LEAD TO THEM BEING MORE RESIGNED

BECAUSE THEY HAVE A FEELING OF

HELPLESSNESS?

ALSO HOW DO YOU ENSURE OR

PREDICT WHEN COMPANIES WILL

ACTUALLY BE PROMPTED BY PUBLIC

OPINION TO MAKE A CHANGE AND

WHETHER THOSE CHANGES WILL

ACTUALLY OCCUR WITHOUT

REGULATION OR OTHER ENFORCEMENTS

MECHANISMS FOR THE MOST

MEANINGFUL POTENTIAL PRIVACY

ABUSES WHICH MIGHT ALSO BE MOST

LIKELY TONIGHT MOST PROFIT

GENERATING CORE OF MANY

COMPANIES BUSINESSES.

THERE'S ALSO QUESTION OF WHETHER

TRANSPARENCY CAN OPERATE AS A

MECHANISM TO ENSURE CONSUMER

TRUST IN A WORLD WHERE THERE ARE

UNKNOWABLE UNKNOWNS.

YEARS AGO PEOPLE WOULD ALLOW

THEIR FRIENDS TO POST PICTURES

ON FACEBOOK WITHOUT THINKING

THAT THEIR PICTURE WOULD REMAIN

IN OBSCURE TEE BECAUSE THEY

WEREN'T BEING TAGGED N A AGE OF

FACIAL RECOGNITION THAT IS NO

LONGER TRUE.

I THINK THE SHIFTS REALLY UNDER

MINE CONSUMERS' SENSE OF WHAT

THEY CAN PREDICT AND HOW THEIR

CHOICES, SENSE OF HELPLESSNESS

IN THE UNKNOWN AND WHAT MAY

HAPPEN IN THE FUTURE.

FINALLY I'M INTERESTED IN THE

IDEA OF WHETHER A MOVE TOWARD

TRANSPARENCY OR SHAMING AND

BLAMING CREATES A SYSTEM WHERE

WE MAY BE ABLE TO GET SOME

CLARITY ABOUT CONSUMER ENORMOUS

AND WHAT STANDARDS THEY PREFER.

IT MAY ALSO CREATE A SITUATION

WHERE SENSATION WITH MEDIA

STORIES OR SMALL VOCAL SUBSETS

WHO RESIST CERTAIN PRACTICES END

UP CONTROLLING THE CONVERSATION

AND GIVE A FALSE SENSE OF CLEAR

CONSENSUS AND THE LAST POINT

WOULD BE, IS DPRK DOES THIS

ENTAIL A SYSTEM WHERE WE MUST

WAIT FOR HARMS AND ABUSES TO

OCCUR BEFORE WE CREATE SYSTEMS

TO CORRECT THEM?

IF SO DOES THAT IMPLY ALONG WITH

TRANSPARENCY MECHANISMS WE ALSO

NEED MECHANISMS THAT CONSUMERS

CAN SEE FOR DUE PROCESS AND

REDRESS?

SO I THINK ALL FOUR

PRESENTATIONS HERE DREW A SORT

OF GRIM AND SOMBER PICTURE OF

THE STATE OF PLAY TODAY WITH

CONSUMERS BEING MISLED OR

RESIGNED AND KIND OF BEING

DRAGGED ALONG FOR THE RIDE IN

TECHNOLOGY OR BY BUSINESS.

GIVEN THAT THE STARS SEEM

ALIGNED ON THIS, I FEEL AN TO

YOUR KNOWLEDGE PLAY DEVIL'S

ADVOCATE AND IN THAT ROLE I'M

GOING TO SUGGEST DIFFERENT

ADJECTIVES TO DESCRIBE HOW

CONSUMERS ARE ACTING OR FEELING

OR FAIRING, AND INSTEAD OF BEING

RESIGNED I SUGGESTED THEY'RE

ACTUAL THRILLED OR MAYBE EVEN

EXHILARATED, THEY'RE DELIRIOUS

ABOUT NEW TECHNOLOGIES ABOUT THE

FACT THAT YOU KNOW THEY CAN HAIL

AN UBER AND RATE THE DRIVER AND

GET LIKE THE NEWEST iPHONE OR

ANDROID PHONE AND YOU KNOW EVEN

TAKE A SELFIE AND POST IT ON

THEIR SNAPCHAT STORY OR USE A

FIT BY THE AND SORT OF GIVE

UP -- OR FITNESS AND HEALTH

INFORMATION AND I THINK WE

CLEARLY SEE THAT IN THE

MARKETPLACE WE ALSO SEE GOOGLE

AND FACEBOOK AND APPLE AS THREE

OF THE MICROSOFT -- THREE OR

FOUR OF THE STRONGEST BRANDS IN

TERMS OF BRAND RECOGNITION IN

THE MARKET AND YOU KNOW NOT TO

MENTION THE NUMBER OF PEOPLE

FLOCKING TO WORK AND THESE

PLACES INCLUDING PEOPLE WHO ARE

NOW IN GOVERNMENT AND EVEN

REGULATORY AGENCIES.

SO THE POINT IS THAT THERE SEEMS

TO BE SOMETHING MORE COMPLEX AT

PLAY HERE.

AND I THINK WE SEE IT IN OTHER

CONTEXT SO I CARE ABOUT HEALTH

BUT I STILL EAT A CHEESEBURGER

AND I CARE ABOUT THE ENVIRONMENT

AND A FOUR-WHEEL DRIVE, AND I

THINK PART OF YOUR RESPONSE,

YOUR RETORT WILL BE YES BUT

CONSUMERS ARE IGNORANT.

THEY JUST DON'T KNOW.

AND RESEARCH SHOWS THAT THE MORE

INFORMED -- THEY BECOME MORE

RESIGNED SO MAYBE MORE -- YOU

KNOW MAYBE IT'S BETTER TO JUST

BE BLISS FLEE IGNORANT SO WITH

ALL OF THAT I WANT TO TURN BACK

TO YOU AND YOU KNOW HEAR YOUR

REACTION.

>> THESE ARE REALLY IMPORTANT

INSIGHTS.

I THINK THAT IT'S A COMPLICATED

WORLD.

IT'S VERY HARD NOT TO BE EXCITED

ABOUT THE ABILITY TO WALK

THROUGH A STORE AND COMPARE

PRICES IN YOUR HAND. THERE ARE

LEVELS OF EXCITEMENT ABOUT BEING

ABLE TO SHOW A KID A SNIPPET

FROM THE WIZARD OF OZ ON A PHONE

ON A BUS WHEN A KID IS STARTING

TO GET ANTSY.

THERE ARE A LOT OF TERRIFIC

THINGS ABOUT THIS.

I COULDN'T LIVE WITHOUT GOOGLE.

BUT WHERE I'M COMING FROM IS

THAT I THINK PART OF MY JOB IS

TO SAY -- I MEAN THERE ARE A LOT

OF COMPANIES SAYING ALL OF THESE

GREAT THINGS BUT UNDERLYING IT

THERE ARE REAL PROBLEMS THAT WE

HAVE TO FACE.

AND I THINK PART OF BEING A

CITIZEN IN A SOCIETY IS TO SAY,

YEAH, THERE ARE TERRIFIC THINGS

ABOUT THIS BUT ALSO THINGS THAT

IN THE LONG-TERM MIGHT -- AND I

DO BELIEVE THIS -- MIGHT HARM

OUR DEMOCRACY.

MIGHT HARM OUR RELATIONSHIP WITH

OTHERS.

WHEN YOU WALK THROUGH A STORE NOW AND YOU'RE NOT SURE WHAT PROFILE THE STORE HAS ABOUT YOU, WHEN NOT FAR FROM NOW YOU CAN GET ON YOUR PHONE AND GET DIFFERENT PRICES BASED ON WHO YOU ARE, THAT'S A SCARY THING TO ME IN TERMS OF HOW ARE PEOPLE GEUNS THE PUBLIC'S FEAR RELATION TO OTHERS AND THE PROCESS WHEN THEY THINK THEY'RE GETTING INFORMATION THAT IS DEVELOPED PERSONALLY FOR THEM THAT ARE PERSONAL ADS SO IN WHILE I AGREE THERE ARE MANY TERRIFIC THINGS ABOUT THIS, I THINK THAT THERE HAVE TO BE SEGMENTS OF SOCIETY THAT THEY HAVE TO SAY, STOP, WE CAN FIX THE REALLY DIFFICULT THINGS THAT RELATE. >> LET ME UNRAVEL SOME OF THE

AND I -- WHAT I WOULD SAY IS,

ISSUES.

FIRST, THAT ONE CAN LOOK AT OUR

WORK AND SAY IT'S ANTITECHNOLOGY

BUT I WOULD ARGUE STRONGLY THAT

IT IS NOT.

>> I PERSONALLY LOVE TECHNOLOGY

AND I'M A EARLY ADOPTER OF MANY,

MANY THINGS.

I'M ALSO A PRACTITIONER AND I DO

KNOW MUCH OF WHAT WE CALL

INNOVATION DOES NOT DEPEND ON

PERSONAL INFORMATION.

AND IT IS FUND EMMANUEL

COMPATIBLE WITH WHAT --

FUNDAMENTALLY APPLICABLE WITH

WHAT ALAN WESTIN CALLED -- LAW.

WE'RE GOING TO KEEP THIS FOR SIX

MONTHS OR DELETE IT AFTER A

YEAR.

SO I THINK ONE OF THE RHETORICAL -- IT'S IN A WAY A

STRAW MAN THAT WE HAVE TO

RECOGNIZE AND DEAL WITH, IS THE

IDEA THAT WE CAN'T HAVE PRIVACY

AND THESE TECHNOLOGIES.

WE CAN HAVE UBER.

UBER IS ACTUALLY NOT THAT

INNOVATIVE.

LONG BEFORE UBER TAXICAB

COMPANIES HAD HAIL APPS.

DON'T NEED PERSONAL INFORMATION

FOR A LOT OF THAT.

WHERE YOU DO NEED PERSONAL

INFORMATION YOU HAVE RULES

AROUND IT AND I SEE IT FROM

PRACTICE ALL THE TIME.

THERE ARE SITUATIONS WHERE WE DO -- WHERE WE DO INTERESTING

FORMS MUCH PERSONALIZATION WITH

DEIDENTIFIED DATA WHERE WE AGREE

THAT DATA WILL DISAPPEAR AFTER A

CERTAIN AMOUNT OF TIME, WHERE WE

AGREE THAT CERTAIN THINGS WON'T

BE THE BASIS OF SELECTION AND

THE LIKE.

SO I THINK WE SHOULDN'T FALL

UNDER THE FALSE DILEMMA THAT

PRIVACY MEANS WE CANNOT HAVE A

SPECTACULAR CONVENIENCE IN OUR

LIFE.

>> I WANTED TO COMMENT OWN THE FEAR OF USERS BECOMING RESIGNED BY GETTING MORE INFORMATION ABOUT WHAT TRACKING WHAT WAS GOING ON OR THE NOTION THAT, YOU KNOW, WE CAN'T HAVE THE SERVICES WITHOUT HAVING THE TRACKING. BECAUSE I THINK THERE'S A CHANCE IF EVERYONE STARTS FINGERPRINTING, USERS MR. SEE OH, THIS SITE IS FINGERPRINTING ME AND I JUST HAVE TO DEAL WITH IT. BUT I THINK WE CAN PREVENT THAT FROM HAPPENING WITH THE RIGHT POLICIES AND THE RIGHT TOOLS WHERE CONSUMERS COULD PROTECT THEMSELVES BY RELEASING THAT DATA NOT JUST TO CONSUMERS BUT FOR EVERYONE. AND THEN THE NOTION THAT

CONSUMERS MIGHT, YOU KNOW, SEE

OR CONSUMERS JUST HAVE TO BE

TRACKED.

I DON'T THINK THAT IS TRUE

EITHER BECAUSE YOU KNOW A LOT OF -- AT LEAST FOR ADVERTISERS

THEY SPORT OPT OUTS AND YOU

SHOULD BE ABLE TO SET AN OPT OUT

COOKIE AND NOT BE TRACKED BUT WE

STILL SEE THAT FINGERPRINTING

GOES ON WHEN THE OPT-OUT COOKIE

IS SET SO PERHAPS THERE SHOULD

BE ENFORCEMENT IF YOU'RE GOING

TO SELF TELL IETIONERS YOU HAVE

OPTED OUT OF TRACKING YOU CAN

SAY THINGS THAT YOU ARE NOT NOT

GOING TO DO GOING TO DO

FINGERPRINTING AND THE USER HAS

TO TRUST THAT WON'T HAPPEN.

>> I'M GOING TO ASK ONE MORE

QUESTION.

AND LOOKING AT THE PROUDER

SOLUTION AND POLICY ALTERNATIVE

BECAUSE I TALK TO A LOT OF

COMPANIES AND THEY TELL THE SAME

STORY, OF COURSE CONSUMERS CAN'T

CONTROL THIS SO THERE NEEDS TO

BE AN ACCOUNTABILITY MODEL AND

COMPANIES SHOULD BE RESPONSIBLE

STEWARDS OF THE DATA, CONSUMERS

CAN'T MAKE CONTROL, COMPANIES

SHOULD MAKE SMART INFORMED

DECISIONS ABOUT HOW THE

INFORMATION IS USED.

BECAUSE WHAT ARE THE ALTERNATIVE

TO THAT?

THAT'S ONE OPTION.

AND THEN THERE'S THE FTC WHERE

THE GOVERNMENT CAN BE MAKING

CHOICES ON BEHALF OF PEOPLE AND

THAT HAS PROBLEMS AS WELL, AND

ONE THAT WE HEARD A FEW TIMES

TODAY IS THE IDEA OF XRED

TRANSPARENCY AND FILTERED

THROUGH ELITES OR INSTITUTIONS.

AND THE NAME AND SHAME APPROACH

THAT JOE AND STEVEN TALKED ABOUT

AND I GUESS MY QUESTION IS, IS

THAT SCALAGE?

"THE WALL STREET JOURNAL" DID

WHAT THEY -- A SERIES STARTING

IN 2010 AND SHOWED THAT THE

TRACKING THEY'RE CONCERNED ABOUT

IS STILL INCREASING, JOE AND

CHRIS HAVE BEEN DOING THIS EVEN

LONGER SO WHAT IS THE POLICY

SOLUTION, CONSUMING THAT THIS IS

A PROBLEM TO BE ADDRESSED, YOU

KNOW, WHAT IS THE RIGHT

APPROACH?

>> CAN I JUMP IN AND SAY THAT --

THANK YOU.

THAT I THINK THAT, YOU KNOW, AND

ALSO REACTING TO WHAT CHRIS AND

JOE SAID, I THINK THERE'S

CONSENSUS THAT WE NEED TO DEAL

WITH DATA ACCESS AND HAVE, LIKE,

THE IDENTIFICATION AND CLEARLY

STRONG DATA SECURITY BUT I THINK

TO A LARGE EXTENT, INDUSTRY GETS

IT.

AND CERTAINLY INDUSTRY GETS A

BIG IMPACT THAT PRIVACY FAILS

CAN HAVE ON BRANDS AND CONSUMER

EXPECTATIONS AND I THINK ONE

THING THAT ATTESTS TO THIS IS,

YOU KNOW, THE FACT THAT WE'RE

HAVING THIS CONFERENCE AND THE

EXISTENCE OF THE PRIVACY

PROFESSION THAT HAS BLOSSOMED SO

THE IPP NOW HAS 25,000 MEMBERS

WORLDWIDE.

IT HAD LESS THAN 10,000 JUST TWO

AND A HALF YEARS AGO.

I THINK YOU KNOW THE RIGHT

PROCESSES ARE IN PLACE AND IT'S

REALLY THE EXCESS THAT WE NEED

TO DEAL WITH AND I THINK YOU

ILLUSTRATED SOME OF THIS IN

TECHNOLOGICAL RESEARCH.

>> THE ACCESS AND ACCOUNTABILITY

ISSUES HAVE TO BE DEALT WITH AND

VERY INTERESTING PROPOSALS TO

FOCUS MAINLY ON USE OF DATA BUT

I THINK ONE WEAKNESS OF THIS

PROPOSAL IS THAT THEY DON'T TAKE

INTO ACCOUNT E. TAKE INTO

ACCOUNT THE ATTACKS OF ON

ACCOUNTABILITY OCCURRING SUCH AS

THE SPOKEO CASE.

IF YOU READ THAT AND READ THE

BRIEFS, A LARGE PART OF THIS

SAYS THAT THEY SHOULD BE ABLE TO

WILFULLY VIOLATE THE LAW.

THAT MEANS THEY KNOW WHAT THE

LAW IS AND THEY VIOLATE IT

ANYWAY AND THAT THEY SHOULDN'T

BE ABLE TO BE SUED.

WINDHAM WAS IN A WAY AN ATTACK

ON ACCOUNTABILITY.

A CLASS ACTION -- WE DON'T LIKE

CLASS ACTIONS.

WE DON'T LIKE THE FTC DOING

ANYTHING.

WEEP DON'T WANT CONGRESS TO DO

ANYTHING.

SO WHERE EXACTLY DOES THE

ACCOUNTABILITY COME FROM?

I THINK WHEN YOU LOOK AT USE

MODELS, THE FIRST DEFENSE, THE

FIRST TIME SOMEONE GETS CAUGHT

IN A USE VIOLATION THEY'RE GOING

TO MAKE AN IMS HEALTH ARGUMENT.

SO I THINK IF WE'RE GOING TO USE -- MOVE TO A USE MODEL THE

ACCOUNTABILITY IS GOING TO HAVE

TO INCLUDE A CONTRACTUAL WAIVER

OF FIRST AMENDMENT DEFENSES AND

AN AGREEMENT THAT THERE IS

INJURY, IN FACT, THAT SUPPORTS

STANDING.

OTHERWISE, YOU WILL NEVER BE

ABLE TO SUE, NOT EVEN YOU,

JUSTIN.

IF YOU TAKE THE POSITION

SERIOUSLY NOT EVEN THE FTC WOULD

BE ABLE TO SUE.

>> I THINK -- YOU KNOW SOME

COMPANIES HAVE STAKED RADICAL

POSITIONS AND FRANKLY I THINK

DONE THEMSELVES A DISSERVICE,

WHICH IS SOMETHING THAT I THINK

IS PRONE TO OCCUR IN LITIGATION.

ON THE WHOLE, YOU KNOW, THE FTC

HAS BEEN SUCCESSFUL AND I'M NOT

SURE HOW, YOU KNOW, HOW MUCH

TRACTION THE FIRST AMENDMENT

ARGUMENT AGAINST PRIVACY

ACCOUNTABILITY WILL HAVE.

WE WILL SEE.

>> SO ONE QUESTION I HAVE

FOLLOWING UP ON THAT IS: WHEN

YOU TALK ABOUT USE AND THE

ASSUMPTION OF HARM, ARE YOU

LOOKING AT -- IT SEEMS THAT USE

IS ALMOST, IN THIS CASE, A

PROUDER WORD TO REALLY TALK AUNT

DATA-DRIVEN DECISION-MAKING.

AND IS THAT, I THINK, WHERE YOU

SEE THE TROUBLES LIE?

>> I WOULD LIKE TO DEFER TO

SOMEONE ELSE BECAUSE IT'S NOT MY

EXPERTISE.

>> CAN YOU REPEAT?

>> IN THIS CASE WE'RE TALKING

ABOUT WHAT ABUSES ARE AND THE

HARM.

IS IT REALLY ABOUT THE ABUSES IN

TERMS OF THE TRACKING AND WHAT

PEOPLE ARE THEORETICALLY DOING

WITH INFORMATION OR ABSTRACTLY

OR DOES IT REALLY BECOME AN

ISSUE WHEN THERE'S DATA DRIVEN

DECISION-MAKING?

>> SO I THINK -- I GUESS THAT

HERE I WOULD SAY IT'S MORE OF

DATA USE, IT'S THE FEAR IF THIS

DATA IS BEING COLLECTED HOW IS

IT BEING USED AND THE CONSUMER

HAS NO ABILITY TO GO IN AND

PREVENT THAT COLLECTION OR NO

ABILITY TO CONTROL THAT

COLLECTION BEYOND, LIKE

PREVENTING IT FROM HAPPENING.

SO ONCE THE DATA GETS PUT INTO

THE COMPANY'S DATABASES, THAT

KIND OF IS UP TO TRUST.

>> SO I GUESS IT GOES TO THE

POINT, SHOULD WE BE CONCERNED

ABOUT THE COLLECTION ITSELF,

RIGHTLY, YOU BOTH HAVE YOUR

STUDIES LIKE -- A LOT MORE

COLLECTION GOING ON AND I'M SURE

A LOT OF PEOPLE THAT ROOM ARE

LIKE IT'S NOT BAD COLLECTION.

IT'S NOT MALICIOUS COLLECTION.

IT'S BEING DONE TO SUPPORT THE

AD ECOSOME AND THERE'S NOTHING

NOTHING INHERENTLY WRONG IN THAT

AND OTHERS SAY THE FTC SHOULD BE

FOCUSED ON -- WELL THERE'S HARM

DOWN THE ROAD.

OTHERS HAVE WRITTEN ABOUT THIS

AND THERE HAS BEEN A LOT OF

FOCUS ON THE USE OF DATA FOR

DISCRIMINATION, RIGHT, WE HAVE A

PANEL ON THAT LATER TODAY.

AND SO SHOULD WE BE FOCUSED --

TO SEE YOUR POLICY IN GENERAL,

BE CONCERNED ABOUT THE RAW

COLLECTION IN THE FIRST PLACE OR

IS IT JUST THE FACT THAT WE

SHOULD BE WORRIED ABOUT HOW IT

COULD BE ABUSED DOWN THE ROAD?

>> I HAVE WRITTEN PRETTY

EXTENSIVELY ABOUT THE NEED TO

FOCUS OWN COLLECTION BECAUSE THE

INABILITY TO POLICE USES.

AND I THINK TO GET TO A POINT TO

POLICE USE WE NEED TO HAVE A SEE

CHANGE AND A FORM OF

ACCOUNTABILITY THAT DOESN'T

CURRENTLY EXIST.

WHAT MY TEAM HAS FOUND OVER AND

OVER, WHEN WE DISCOVER THINGS

LIKE HTML 5, WE GO TO THE

COMPANIES AND SAY WE THINK

YOU'RE DOING THIS AND THEY SAY

WE ARE NOT DOING IT AND THEY

DON'T ACTUALLY KNOW WHAT THEY'RE

DOING.

>> ANY CLOSING THAT?

>> WE THOUGHT WE ARE OVER TIME.

WE WILL HAVE A QUICK TEN-MINUTE

BREAK AND COME BACK FOR THE

SECOND SESSION AT 10:456789.

WE WILL COME BACK AT 10:45.

>> BREAK.