

**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** Brandeis Data Privacy  
**Date:** Thursday, January 08, 2015 5:03:03 PM  
**Attachments:** [Brandeis 150108.pptx](#)

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**From:** (b)(6)  
**To:**  
**Subject:** Brandeis Privacy Slides  
**Date:** Friday, January 09, 2015 3:39:11 PM  
**Attachments:** [Brandeis 150109.pptx](#)

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For 4pm review...

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**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** Privacy  
**Date:** Friday, December 12, 2014 9:41:57 AM  
**Attachments:** [Privacy.pptx](#)

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(b)(6) et al,

Here's the current slide deck for the privacy program for your 10.00 conversation.

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**From:** (b)(6)  
**To:**  
**Subject:** RE: Privacy slides  
**Date:** Wednesday, January 07, 2015 9:51:21 AM

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Thanks

-----Original Message-----

**From:** (b)(6)  
**Sent:** Wednesday, January 7, 2015 9:29 AM  
**To:** (b)(6)  
**Cc:** Dyson, Michael (contr-i2o); Gerr, Neil (contr-i2o)  
**Subject:** Privacy slides

(b)(6)

Here's the current draft of the Brandeis privacy slides for our 11am meeting today.

(b)(6)

From: (b)(6)  
To: (b)(6)  
Subject: Re: Followup from NPRS (National Privacy Research Strategy) Workshop  
Date: Wednesday, March 11, 2015 10:37:12 AM

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Thanks.

(b)(6)

On Mar 11, 2015, at 10:36 AM (b)(6) wrote:

> It will be on FedBiz Opps.

>

> I think you can register on the site to be notified when specific items are posted and you may be able to do that from the Special Notice page:

>

> [https://www.fbo.gov/index?](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)

[s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)

>

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> -----Original Message-----

> From: (b)(6)

> Sent: Wednesday, March 11, 2015 10:34 AM

> To: (b)(6)

> Subject: Re: Followup from NPRS (National Privacy Research Strategy) Workshop

>

>

> Yes, it does. Thanks. Do you know what the URL will be for the BAA?

>

> Good luck tomorrow!

>

(b)(6)

>

>

> On Mar 11, 2015, at 10:28 AM (b)(6) wrote:

>

>

> Thanks for the followup. Yes, tomorrow is our Proposers' Day, and we anticipate the BAA being released tomorrow. What a day!

>

> The transcript of (b)(6) presentation will be available on a teaming site we have established - we will release that address tomorrow and it is included in the BAA.

>

> Hope this helps!

>

> v/r

> (b)(6)

>

> -----Original Message-----

> From: (b)(6)

> Sent: Wednesday, March 11, 2015 9:50 AM

> To: (b)(6)

> Subject: Followup from NPRS (National Privacy Research Strategy) Workshop



**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** DARPA Privacy  
**Date:** Tuesday, January 27, 2015 2:02:18 PM  
**Attachments:** [Brandeis Tech Council.pptx](#)

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Hi (b)(6)

Following our discussion over tea a few months ago, I thought I would give you an update on what's happening at DARPA with privacy. Yesterday the director approved funding for a 4.5 year \$75M program in Data Privacy. The focus of the program is to develop tools and techniques that enable us to build systems that provide technological guarantees that shared data will be used only for the intended purpose and no other. I've attached the briefing in case you'd like to dig in further.

Best regards,

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From: (b)(6)  
To: [NPRE](#)  
Cc: [csia](#)  
Subject: DARPA privacy research announcement  
Date: Monday, March 02, 2015 12:52:51 PM

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DARPA will hold a Proposers' Day to provide information to potential proposers on the objectives of the anticipated Brandeis Broad Agency Announcement (BAA).

[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)

The Proposers' Day will be held on March 12, 2015, at the Holiday Inn, located at 4610 N Fairfax Drive, Arlington, Virginia, 22203. Check-in begins at 9:00 AM (ET). The meeting will begin at 10:00 AM (ET). Please register at: <https://www.schafertmd.com/darpa/i2o/brandeis/2015/mar/pd/> no later than 8:00 AM (ET) on March 9, 2015.

The Brandeis program seeks to develop the technical means to protect the private and proprietary information of individuals and enterprises.

(b)(6)

(b)(6)

National Coordination Office for

Networking and Information Technology R&D

4201 Wilson Blvd., Suite (b)(6) Arlington, VA 22203

Phone (b)(6)

(b)(6)

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All e-mails to and from this account are for NITRD official use only and subject to certain disclosure requirements. If you have received this e-mail in error, we ask that you notify the sender and delete it immediately.

**From:** (b)(6)  
**To:** [BRANDEIS](#)  
**Subject:** Improving Internet Privacy  
**Date:** Wednesday, April 29, 2015 2:04:47 PM  
**Importance:** High

---

We discovered the Brandeis grant a few weeks ago. Agingo is a very good fit for the problems you guys are trying to solve. Unfortunately a few weeks was not enough time to get us through SAM/other processes and also give us time for a quality proposal.

We are now setup in SAM, Grants.gov, etc... If there are any other opportunities to work together on our shared interest in improving Internet privacy - let me know.

Whether we collaborate or not.. we are going to help solve the problem.

Best Regards,

(b)(6)

9201 University City Blvd

Charlotte, NC 28223

Search my view on Agingo:

(b)(6)

From: (b)(6)  
To: [BRANDEIS](#)  
Subject: Individual Private Citizen's Privacy  
Date: Monday, March 09, 2015 1:09:25 PM

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Brandeis,

How can an individual U.S. citizen trust that this government program will not have back doors and other requirements to allow the government to invade an individual's meta data or their private AND legal communications without court oversight? With the NSA and FBI using warrantless gathering of innocent U.S. citizen's data and communications without Congressional or a Court's permission or oversight, what assurances will this program provide that you cannot or will not use the mandatory backdoor intrusion to our encrypted data or collect our communications?

All without a court order, thereby taking away our 3rd Amendment rights?

And, what are you going to do to protect our privacy from Commerce or Business that gather our information and sell it without our permission? Once they have it, they claim it isn't our information, but their proprietary data that they can do anything they want with, because it is theirs!

Your program is going to protect their "proprietary" data, but how are you going to protect our personal information while letting them have it protected as their "proprietary" data? I see a conflict here. Hopefully, the individual U.S. citizen will have priority to their personal information instead of having only protected as commercial "proprietary" data beyond the reach of the individual whose information it is.

Just a couple of concerns from the individual's side.

(b)(6)

From: (b)(6)  
To:  
Cc:  
Subject: MIT-LL Project Approval Package for Project 2697 - Brandeis Study - User Privacy on iOS & Android Platforms  
Date: Wednesday, May 06, 2015 12:38:58 PM

(b)(6)

We have received the package from MIT-LL requesting to put Project 2697, Brandeis Study – User Privacy on iOS & Android Platforms, on our Air Force contract. We found a few items in the package that we either need more information on or clarifications, as follows (please switch to HTML viewing):

\* Period of Performance

(b)(4)

\* Total Estimated Cost

(b)(4)

\* Breakout of Costs

(b)(4)

\* Outside Procurement (OP)

(b)(4)

Please let us know if you would like to discuss or have any questions.

Regards,

(b)(6)

(b)(6)



**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** Privacy program at DARPA  
**Date:** Wednesday, February 18, 2015 9:04:01 AM  
**Attachments:** [Brandeis BAA.docx](#)  
[Brandeis Proposers Day.pptx](#)

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Hi (b)(6)

Good to talk with you this morning. Here's the draft of the BAA as well as a high level brief. These are government only at this point, and not for distribution.

I'll be interested to see your abstract and/or BAA.

Thanks,

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From: (b)(6)  
To: (b)(6)  
Cc: (b)(6)  
Subject: Proposal for Enhancing Privacy of HADR Systems  
Date: Wednesday, April 29, 2015 10:38:50 AM  
Attachments: [DARPABrandeis\\_iOSvsAndroidStudyProposal.pdf](#)  
[DARPABrandeis\\_HADRPrivacyProposal.pdf](#)

---

Hi (b)(6)

As discussed, here is our detailed proposal for adding privacy to existing Humanitarian Assistance and Disaster Response (HADR) and Next-Generation Incident Command System (NICS) systems. These are systems that are actively used today in government and non-government disaster relief scenarios and that Lincoln has extensive experience with through having assisted in these missions and having developed early versions or predecessors of the production software. We hope that you find these applications and the work proposed of interest to the Brandeis program.

Additionally, I am forwarding the proposal for the iOS vs. Android study that we sent you about three weeks ago. We have already lined up several experts to work on this study and would really like to get started so that we can deliver a good product by the Brandeis kick-off meeting.

We think that this is a very exciting program and hope that we will be able to participate to help make this program a success. We look forward to working with you on this.

Let us know if you have any questions or comments on either of the proposals.

Thanks,

(b)(6)

From: (b)(6)  
Date: Friday, April 10, 2015 at 11:54 AM  
To: (b)(6)  
Cc: (b)(6)  
Subject: Proposal for iOS vs. Android Privacy Study

Hi (b)(6)

As discussed, here is our detailed proposal for the study comparing privacy on iOS and Android devices. We have worked with (b)(4) to prepare independent but connected proposals to address this and hope that we will be able to work together to prepare an excellent presentation and report for you.

We are additionally (b)(4)

We think that Brandeis is a very exciting program and hope that we will be able to participate at the beginning and

throughout the program. We look forward to working with you on this.

Let us know if you have any questions or comments on the proposal.

Thanks,

































**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** FW: Brandeis program on data privacy  
**Date:** Monday, March 02, 2015 8:38:52 AM  
**Attachments:** [Brandeis Tech Council Updated.pptx](#)

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New BRANDEIS slides.

(b)(6)

-----Original Message-----

**From:** (b)(6)  
**Sent:** Sunday, March 1, 2015 1:52 PM  
**To:** Tech Council  
**Subject:** RE: Brandeis program on data privacy

Please find attached the updated slide deck for (b)(6) Brandeis program on data privacy.

**From:** (b)(6)  
**To:**  
**Subject:** FW: Brandeis program on data privacy  
**Date:** Monday, March 02, 2015 9:05:54 AM  
**Attachments:** [Brandeis Tech Council Updated.pptx](#)

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For our Tech Council folder.

-----Original Message-----

**From:** (b)(6)  
**Sent:** Sunday, March 01, 2015 1:52 PM  
**To:** Tech Council  
**Subject:** RE: Brandeis program on data privacy

Please find attached the updated slide deck for (b)(6) Brandeis program on data privacy.

**From:** (b)(6)  
**To:** [Tech Council](#)  
**Subject:** RE: Brandeis program on data privacy  
**Date:** Sunday, March 01, 2015 1:51:47 PM  
**Attachments:** [Brandeis Tech Council Updated.pptx](#)

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Please find attached the updated slide deck for (b)(6) Brandeis program on data privacy.

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From: [BRANDEIS](#)  
To: (b)(6) [BRANDEIS](#)  
Subject: RE: On line privacy POC  
Date: Monday, March 30, 2015 11:50:04 AM

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Sir,

Please submit any questions you may have to this email address and we will answer them.

Thank you.

-----Original Message-----

From: (b)(6)  
Sent: Monday, March 30, 2015 9:04 AM  
To: BRANDEIS  
Subject: On line privacy POC

Hello,

I am looking for a point of contact for this program. Can you please provide me a name, email address, and phone number so that I may ask some questions to see if we are in position to bid on this program. Thank you very much.

Very Respectfully

//signed//

(b)(6)

Sent from my iPhone

Sent from my iPhone

From: (b)(6)  
To: (b)(6)  
Subject: Re: privacy debrief and Brandeis  
Date: Tuesday, April 14, 2015 7:45:07 AM

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Good morning (b)(6) I sent (b)(6) a follow up but I have not heard back. I suggested I could chat with him for a few minutes either today or tomorrow (I leave around noon Wednesday).

(b)(6)

On Fri, Apr 10, 2015 at 8:53 PM (b)(6)  
(b)(6) > wrote:

Let me know if you don't hear from him.

Look forward to catching up. See you Mon.

(b)(6)

From (b)(6)  
Sent: Friday, April 10, 2015 04:26 PM  
To (b)(6)  
Subject: Re: privacy debrief and Brandeis

Quick note that I sent (b)(6) a quick email on privacy/Brandeis.

See you Monday.

(b)(6)

On Wednesday, April 8, 2015, (b)(6) wrote:

Hi (b)(6)

(b)(6) Shall we debrief on privacy next week during QPR? Also, I'd like to see if I can connect with (b)(6) about Brandeis when I'm in town. Would you happen to have his email address or possibly introduce us?

Thanks and looking forward to seeing you next week.

(b)(6)

From: (b)(6)  
To: [BRANDEIS](#)  
Subject: Brandeis and Privacy Risk Research  
Date: Tuesday, April 28, 2015 1:24:38 AM

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(b)(6)

As a privacy risk researcher and advisor for academia, industry and the government, I was quite heartened to learn of the DARPA Brandeis program.

Among other efforts, I've spent the last several years working on a Disclosure Control Framework (references enclosed below), which is a risk-based methodology and conceptual model for balancing utility needs and privacy risks in the context of any type of data sharing. For the next phase, the design goal of operationalizing the framework in an automated software virtual machine would appear to be a nice fit for the Brandeis TA3.

Unfortunately I will be unable to meet the proposal deadline but wanted to inquire about other programs related or similar to Brandeis that support interdisciplinary law, technology, ethics and innovation R&D. In addition to the Disclosure Control work, another emergent area of my work is building algorithm transparency and accountability to manage legal and ethical risk for automated systems and predictive analytics.

I appreciate your thoughts in this regard.

(b)(6)

(b)(6)

(b)(6)

From: (b)(6)  
To:  
Subject: RE: catching up and link to proposer's day info - privacy program  
Date: Tuesday, March 10, 2015 8:49:04 AM

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12?

Sent with Good (www.good.com)

-----Original Message-----

From: (b)(6)  
Sent: Tuesday, March 10, 2015 07:49 AM Eastern Standard Time  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

Sure. What time for you?

-----Original Message-----

From: (b)(6)  
Sent: Monday, March 09, 2015 5:38 PM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

Going back to work. So Pentagon City. Do you know where to meet?

How about near the entrance to the Ritz in the food court area on the 2nd floor

(b)(6)

V/R,

(b)(6)

-----Original Message-----

From: (b)(6)  
Sent: Monday, March 09, 2015 2:16 PM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

If you drive would you then just continue on home or would you have to go back to work?

If the latter, let's shoot for Pentagon City.

-----Original Message-----

From: (b)(6)  
Sent: Monday, March 09, 2015 11:16 AM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

What about Pentagon City? I can take the Metro over there from L'Enfant.

Or, I can drive over to Ballston if that is easier and park on the street.



Whatever is easier for you. I'm flexible

(b)(6)

V/R,

(b)(6)

-----Original Message-----

From: (b)(6)  
Sent: Monday, March 09, 2015 10:11 AM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

I'm up in Ballston. Is there an in-between spot?

-----Original Message-----

From: (b)(6)  
Sent: Friday, March 06, 2015 5:21 PM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

18th is perfect, where are you located?

We would love to help, but we only have 4 people in the technology group. The FCC IT group is all run by contractors

(b)(6)

V/R,

(b)(6)

-----Original Message-----

From: (b)(6)  
Sent: Wednesday, March 04, 2015 1:47 PM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

I already have (b)(6) down as a reviewer; I'll reach out to (b)(6). I really think FCC could benefit so someone from their side would be great. At least make them aware of what is going on in the field.

The 18th is perfect. I'm available from 1200 onward. Let me know where you'll be.

-----Original Message-----

From: (b)(6)  
Sent: Wednesday, March 04, 2015 12:10 PM  
To: (b)(6)  
Subject: RE: catching up and link to proposer's day info - privacy program

See notes below.

V/R,

(b)(6)

-----Original Message-----

From: (b)(6)

Sent: Wednesday, March 04, 2015 11:44 AM

To: (b)(6)

Subject: RE: catching up and link to proposer's day info - privacy program

First, work stuff:

25 pages tech proposals. We want to keep it short and focused. If not you, any recommendations?

I can't commit to that, and we don't have anyone here, we are so short staffed – most of our staff are contractors

What about (b)(6) or (b)(6) from DHS. Do you want me to ask them?

Good deal on retirement paperwork.

Yeah, excited!!!

(b)(6)

And, proposers' day is 12 March so I can't do lunch but maybe the next week for lunch?

Sure what about March 18?

-----Original Message-----

From: (b)(6)

Sent: Wednesday, March 04, 2015 11:40 AM

To: (b)(6)

Subject: FW: catching up and link to proposer's day info - privacy program

(b)(6) - hope you are doing great at DARPA!

Not sure I can commit to review proposals – are these 40 page proposals?

I'm punching out the end of May – filling out my retirement paperwork, woo-hoo!

(b)(6)

(b)(6)

Let's do lunch soon – March 12? Are you in DC?

(b)(6)

V/R,

(b)(6)

From (b)(6)

Sent: Wednesday, March 04, 2015 11:28 AM

To (b)(6)

Subject: Fw: catching up and link to proposer's day info - privacy program

Sent from Blackberry

(b)(6)

From (b)(6)

Sent: Wednesday, March 04, 2015 11:15 AM Eastern Standard Time

To: (b)(6)

Subject: catching up and link to proposer's day info - privacy program

(b)(6)

You have been on my mind a lot recently. Hope you're well and getting closer to leaving govt. and moving on to bigger and better.

A couple things I wanted to ask:

1. Would you be interested in being a reviewer on the new privacy project we are launching next week? It's called Brandeis and a link to our proposers' day registration site is here: <https://www.schafertmd.com/darpa/i2o/brandeis/2015/mar/pd/>  
<<https://www.schafertmd.com/darpa/i2o/brandeis/2015/mar/pd/>>

A special notice with a slightly expanded description is here: [https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0) <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> <[https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&\\_cview=0](https://www.fbo.gov/index?s=opportunity&mode=form&id=3c42e0a2e2ae9774171cdf405f22ea3&tab=core&_cview=0)> > >

I think FCC would be interested and if you aren't able to do it, perhaps you can recommend someone.

(b)(6)

I'm settling in to work now and would love to plan a time to get together for coffee and a catch up.

Let me know what works.

Thanks.

(b)(6)

A rectangular area that has been redacted, appearing as a solid gray block. The text "(b)(6)" is located in the top-left corner of this area.

Defense Advanced Research Projects Agency (DARPA)

(b)(6)

A large rectangular area that has been redacted, appearing as a solid gray block. The text "(b)(6)" is located in the top-left corner of this area.

From: (b)(6)  
To: (b)(6)  
Cc:  
Subject: Brandeis Phone Privacy Study: Response Needed Soon  
Date: Wednesday, May 06, 2015 12:42:28 PM

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(b)(6)

(b)(4)

Would it be possible to get a joint conference call with you in the next week or two, so we can address any questions you might have and get started on this work as soon as possible?

Thank you,  
(b)(6) and the joint Lincoln (b)(4) team

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(b)(6)

MIT Lincoln Laboratory                      fax: (b)(6)  
244 Wood Street                              e-mail: (b)(6)  
Lexington, MA 02420-9108                  www: <<http://www.ll.mit.edu/CST>>

From: (b)(6)  
To: (b)(6)  
Cc: (b)(6)  
Subject: Re: More articles related to data privacy  
Date: Friday, January 30, 2015 9:16:29 AM

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(b)(6)

I think it's valuable to distinguish between at least two different kinds of privacy. The first could be called Presence Privacy, when we are being watched and analyzed in person. That's had to deal with without legislation or Anonymous-style masks. The "unmasks emotions" story is an example of this first kind.. The second is Data Privacy, which is what Brandeis is aiming at. It is still challenging to deal with, but we have a technological prayer. The MIT story is just another case that shows redaction doesn't work in accomplishing data privacy. It's interesting that, like the European study on re-identifying mobile phone uses, only four approximate data points were needed.

There are some places where the two kinds of privacy cross over. For example, there are ways to take images and adjust the faces of people in the image so that they still could be analyzed for race, gender, height etc., but they cannot be recognized as individuals. I don't plan to have people work on this in Brandeis, but I think there's a great opportunity for human-anonymization research (voice, video etc) to be done in the context of what we now know about re-identification.

(b)(6)

On Jan 30, 2015, at 8:51 AM,  
wrote:

(b)(6)

Please find attached a Word file with three relevant articles from yesterday's and today's WSJ (b)(6) noted the first article.

-> The Technology that Unmasks Your Hidden Emotions

Using Psychology and Data Mining to Discern Emotions as People Shop, Watch Ads; Breeding Privacy Concerns

Companies are amassing an enormous database of human emotions using technology that relies on algorithms to analyze people's faces and potentially discover their deepest feelings. While the evolving technology has many potential benefits, it's also raising privacy concerns.

The technologies in this article are based largely on work by Dr. Paul Ekman ([http://en.wikipedia.org/wiki/Paul\\_Ekman](http://en.wikipedia.org/wiki/Paul_Ekman)).

-> Metadata Can Expose Person's Identity Even Without Name

New Analytic Formula Identifies People Without Names, Account Numbers

...Researchers at the Massachusetts Institute of Technology, writing Thursday in the journal Science, analyzed anonymous credit-card transactions by 1.1 million people. Using a new analytic formula, they needed only four bits of secondary information—metadata such as location or timing—to identify the unique individual purchasing patterns of 90% of the people involved, even when the data were scrubbed of any names, account numbers or other obvious identifiers....

...The MIT research has shown "it is very, very, very difficult to remove any ability to identify people in these data sets, especially financial data," said Joseph Hall, chief technologist at the Center for Democracy & Technology, a nonprofit that studies privacy and data issues. He wasn't involved in the project. "Data brokers who buy and collect very large quantities of information like this have the ability to take thousands of data points and pin those on individuals."



The finding also will add to debates over the bulk collection of personal data by government surveillance programs, which cross-match cellphone metadata and electronic databases, including credit-card information, several data-privacy experts said.

-> Sharing Some Clinical Trial Data Remains a Problem for Pharma

Many Drug Makers Cite Trade Secrets, Patient Privacy

...One IOM committee member, Ida Sim, a University of California, San Francisco, professor, says the report does suggest sharing retrospective data, but on a case-by-case basis and for studies that may influence care. Why? Informed consent must be obtained from people who participated years earlier. Often, researchers have scattered. "We have to be pragmatic and realistic," she says.

Some say convenience and liability are factors. "Obviously, it's less burdensome for companies to only have to do so going forward, especially if there's a product on the market that's raising concerns," says Diana Zuckerman of the National Center for Health Research, a nonprofit think tank. "I see it as a way to protect companies from disclosing embarrassing and expensive information."

<WSJ - Privacy 2015-01-30.docx>

From: (b)(6)  
To: (b)(6)  
Subject: Re: Privacy Research - Memex - Brandeis  
Date: Tuesday, April 14, 2015 9:17:58 AM

---

H (b)(6)

I'm sorry, I have been TDY this week, at NSA and then at ISAT.

(b)(6)

On Apr 13, 2015, at 12:46 PM (b)(6) wrote:

(b)(6)

Following up on this note and to see if you have a few minutes to speak - perhaps tomorrow.

(b)(6)

On Fri, Apr 10, 2015 at 2:21 PM (b)(6) wrote:

(b)(6)

My name is (b)(6)

I am a performer on the Memex project and have been researching the privacy concerns around Memex and the intersection of data and privacy more broadly. I recently produced the privacy analytic framework/guidelines for Memex and was working on identifying a potential panel of privacy experts, which I understand will now be executed by the Brandeis initiative.

I wanted to reach out to see if any of our work could be helpful for you/Brandeis going forward. I will be in Arlington for the Memex QPR this upcoming Monday, Tuesday, and Wednesday. If you could spare a few minutes I would happy to come by and discuss.

Regards,

(b)(6)

From: (b)(6)  
To: (b)(6)  
Cc: (b)(6)  
Subject: Re: Proposal for iOS vs. Android Privacy Study  
Date: Monday, April 13, 2015 2:28:37 AM

---

(b)(6) proposal for our portion of this effort is in internal coordination. I should be able to send it officially early in the week. We are eager to collaborate with (b)(6) and (b)(6) on this effort.  
Sincerely,  
(b)(6)

(b)(6)

From: (b)(6)  
Date: Friday, April 10, 2015 at 11:54 AM  
To: (b)(6)  
Cc: (b)(6)  
Subject: Proposal for iOS vs. Android Privacy Study

H (b)(6)

As discussed, here is our detailed proposal for the study comparing privacy on iOS and Android devices. We have worked with (b)(4) to prepare independent but connected proposals to address this and hope that we will be able to work together to prepare an excellent presentation and report for you.

We are additionally (b)(4)

We think that Brandeis is a very exciting program and hope that we will be able to participate at the beginning and throughout the program. We look forward to working with you on this.

Let us know if you have any questions or comments on the proposal.

Thanks,

(b)(6)



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**From:** (b)(6)  
**To:** (b)(6)  
**Subject:** Emailing: With "Brandeis" Project, Darpa Seeks to Advance Privacy Technology - The New York Times.htm  
**Date:** Tuesday, September 15, 2015 4:14:01 PM  
**Attachments:** [With "Brandeis" Project, Darpa Seeks to Advance Privacy Technology - The New York Times.htm](#)

---

(b)(6)

See attached, a picture in the NY Times of Launchbury giving credits to Sun who took the picture! :)

Like the real thing. :)

Thanks,

(b)(6)

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[Privacy](#)

## With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology

By [Steve Lohr](#)

September 14, 2015 9:00 am September 14, 2015 9:00 am

The Pentagon's advanced research arm is pursuing privacy technology. And this time, it is technology intended to protect individual privacy rather than compromise it.

The new emphasis is a very different path from the one taken after the Sept. 11 attacks, when the Defense Advanced Research Projects Agency, or Darpa, embarked on the Total Information Awareness program. It was to be an all-seeing digital surveillance system to hunt for terrorists. The outcry from privacy advocates prompted Congress to shut it down. But the technologies developed by Darpa made their way into the intelligence agencies and the electronic-spying program that so disturbed Edward J. Snowden, who leaked tens of thousands of documents.

The new Darpa program is called Brandeis, a nod to the guiding principle of the research initiative. Louis

Brandeis, a progressive lawyer who became a Supreme Court justice, was the co-author with Samuel D. Warren of an influential essay, [“The Right to Privacy.”](#) Published in Harvard Law Review in 1890, it forcefully made the case that safeguarding privacy was essential to individual freedom.

The Brandeis manifesto was published two years after the introduction of the Kodak film camera, a privacy-threatening technology of its day. It could quickly capture images, recording people in normal poses and spontaneous moments. The previous wet-plate, lithographic cameras required their subjects to present themselves in frozen stillness. But with a hand-held Kodak camera, photo snappers were suddenly taking pictures of people in public places — downtowns, ballrooms and beaches. The “camera fiends” were seen as a menace, and banned from beaches and from the Washington Monument for a while.

But while the times and the technology have changed, the fundamentals have not, according to John Launchbury, the Darpa program director for Brandeis. Privacy, he said, is a value at the heart of a free society, and an engine of progress.

Photo



John Launchbury, the director of Darpa’s Brandeis program. Credit Sun Vega

“Privacy is a key enabler to things we care desperately about, like democracy and innovation,” Dr. Launchbury, a computer scientist and cryptographer, said in an interview on Friday.

Brandeis was one of several emerging-technology programs highlighted at a three-day conference last week in St. Louis, where Darpa invited 1,200 scientists and technologists from academia, large companies and start-ups. The event was part of the agency’s drive in recent years to woo leading researchers and entrepreneurs to collaborate with Darpa. That effort has been a hallmark of [the tenure of Arati Prabhakar](#), a trained physicist and former Silicon Valley venture capitalist, who became the head of Darpa in 2012.

Brandeis is just getting underway. The companies and universities joining the program have been selected. But most are still negotiating contract terms, with only a few announced, including SRI International and Stealth Software. The kickoff meeting for the participants will be in October. The program will run for four and a half years, and its budget will be “tens of millions of dollars,” Dr. Launchbury said.

Many companies and university researchers are working on privacy-protecting technologies. Yet Darpa will support early stage research in areas like advanced cryptography, a field known as multiparty differential privacy, and machine-learning software that can learn and predict a person’s privacy preferences — a clever



digital assistant for privacy protection. The latter would be a big change from the complex privacy settings on search engines and websites now, which is a major reason much of the online population just accepts the default settings.

The free flow of data, Dr. Launchbury noted, should be enormously valuable across every industry and scientific discipline. But that will only happen in an environment of trust, where, he said, the prevailing attitude is that “you feel so in control of your data that you enable greater sharing at your discretion.”

Today, the data world is pretty much wide open, and entire industries rely on mining and marketing people’s data. If people have the ability to limit which of their digital footprints can be seen or tracked, doesn’t that undermine the business model of many ad-based Internet companies, including Google and Facebook?

Not necessarily, Dr. Launchbury replied. “It would be a matter of, You can use this data for these purposes in exchange for a set of free services,” he said. “At least then it’s a negotiation.”

Naming the program Brandeis suggests a recognition that technology will be only a part of the answer to privacy challenges. So will an evolving legal framework and public attitudes.

“Privacy is such a huge space,” Dr. Launchbury said. “What we’re working on here is not a solution. But we’re hoping to develop a new technical capability and society can decide whether it wants to use it.”

[Privacy, Brandeis, Louis D, Defense Advanced Research Projects Agency, Privacy, Snowden, Edward J](#)  
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From: (b)(6)  
To: (b)(6)  
Subject: FW: NYT: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology  
Date: Monday, September 14, 2015 12:33:01 PM

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Fyi..

-----Original Message-----

From: (b)(6)  
Sent: Monday, September 14, 2015 11:17 AM  
To: (b)(6)  
(b)(6)  
Subject: NYT: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology

Below is Lohr's piece on Brandeis, which he forwarded and is now up on the NYT Bits blog (b)(5)

(b)(5)

<http://bits.blogs.nytimes.com/2015/09/14/with-brandeis-project-darpa-seeks-to-advance-privacy-technology/?emc=eta1&r=0>

(b)(6)

[Redacted content]

**From:** (b)(6)  
**To:**  
**Subject:** Infoworld on FTC privacy thing  
**Date:** Monday, August 31, 2015 10:16:50 AM

---

(b)(6)

I hadn't heard about this before, but assume you have, and also assume that the FTC has looped in Brandeis on their strategizing...but in case not:

<http://www.networkworld.com/article/2977443/security/attention-whitehats-the-ftc-wants-you-to-lead-new-privacy-security-push.html>

cheers,

(b)(6)

From: (b)(6)  
To: (b)(6)  
Subject: NYTimes.com: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology  
Date: Monday, September 14, 2015 10:54:25 AM

(b)(6) Just passing along a link to the piece we posted on the web today. Thanks again for the help. Best (b)(6)

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(b)(6)

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The Pentagon's advanced research arm is supporting research in privacy technology. Strong privacy protection, it says, is essential for the data economy to flourish.

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From: (b)(6)  
To: (b)(6)  
Subject: NYTimes.com: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology  
Date: Monday, September 14, 2015 10:58:25 AM

(b)(6) am just passing along a link to the web piece on Brandeis that we posted today. And I also wanted to say thanks for inviting me out to St. Louis. A good bunch of folks on the panel, and the exercise forced me to think more deeply about AI and its implications. Best,  
(b)(6)

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The Pentagon's advanced research arm is supporting research in privacy technology. Strong privacy protection, it says, is essential for the data economy to flourish.

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From: (b)(6)  
To:  
Subject: RE: Emailing: With "Brandeis" Project, Darpa Seeks to Advance Privacy Technology - The New York Times.htm  
Date: Tuesday, September 15, 2015 4:16:00 PM

---

Cool

-----Original Message-----

From: (b)(6)  
Sent: Tuesday, September 15, 2015 4:14 PM  
To: (b)(6)  
Subject: Emailing: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology - The New York Times.htm

(b)(6)

See attached, a picture in the NY Times of Launchbury giving credits to Sun who took the picture! :)

Like the real thing. :)

Thanks.

(b)(6)

From: (b)(6)  
To: (b)(6)  
Subject: RE: FYI- NYT Story DARPA Project Seeks to Advance Privacy Tech  
Date: Monday, September 21, 2015 12:22:16 PM

---

Ha, yes! I saw this.

Good to see the traffic on Dr. Launchbury's program. We've consulted with him a few times and it's very exciting.

Thanks!

(b)(6)

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-----Original Message-----

From: (b)(6)  
Sent: Monday, September 21, 2015 11:46 AM  
To: (b)(6)  
Subject: FYI- NYT Story DARPA Project Seeks to Advance Privacy Tech

Darpa Project Seeks to Advance Privacy Tech  
New York Times, Sept. 21, Pg. B4 | Steve Lohr

The Pentagon's advanced research arm is pursuing privacy technology. And this time, it is technology intended to protect individual privacy rather than compromise it.

The new emphasis is a very different path from the one taken after the Sept. 11 attacks, when the Defense Advanced Research Projects Agency, or Darpa, embarked on the Total Information Awareness program. It was to be an all-seeing digital surveillance system to hunt for terrorists. The outcry from privacy advocates prompted Congress to shut it down. But the technologies developed by Darpa made their way into the intelligence agencies and the electronic-spying program that so disturbed Edward J. Snowden, who leaked tens of thousands of documents.

The new Darpa program is called Brandeis, a nod to the guiding principle of the research initiative. Louis Brandeis, a progressive lawyer who became a Supreme Court justice, was the co-author with Samuel D. Warren of an influential essay, "The Right to Privacy." Published in Harvard Law Review in 1890, it forcefully made the case that safeguarding privacy was essential to individual freedom.

The Brandeis manifesto was published two years after the introduction of the Kodak film camera, a privacy-threatening technology of its day. It could quickly capture images, recording people in normal poses and spontaneous moments. The previous wet-plate, lithographic cameras required their subjects to present themselves in frozen stillness. But with a hand-held Kodak camera, photo snappers were suddenly taking pictures of people in

public places -- downtowns, ballrooms and beaches. The "camera fiends" were seen as a menace, and banned from beaches and from the Washington Monument for a while.

But while the times and the technology have changed, the fundamentals have not, according to John Launchbury, the Darpa program director for Brandeis. Privacy, he said, is a value at the heart of a free society, and an engine of progress.

"Privacy is a key enabler to things we care desperately about, like democracy and innovation," Dr. Launchbury, a computer scientist and cryptographer, said in an interview on Friday.

Brandeis was one of several emerging-technology programs highlighted at a three-day conference last week in St. Louis, where Darpa invited 1,200 scientists and technologists from academia, large companies and start-ups. The event was part of the agency's drive in recent years to woo leading researchers and entrepreneurs to collaborate with Darpa. That effort has been a hallmark of the tenure of Arati Prabhakar, a trained physicist and former Silicon Valley venture capitalist, who became the head of Darpa in 2012.

Brandeis is just getting underway. The companies and universities joining the program have been selected. But most are still negotiating contract terms, with only a few announced, including SRI International and Stealth Software. The kickoff meeting for the participants will be in October. The program will run for four and a half years, and its budget will be "tens of millions of dollars," Dr. Launchbury said.

Many companies and university researchers are working on privacy-protecting technologies. Yet Darpa will support early stage research in areas like advanced cryptography, a field known as multiparty differential privacy, and machine-learning software that can learn and predict a person's privacy preferences -- a clever digital assistant for privacy protection. The latter would be a big change from the complex privacy settings on search engines and websites now, which is a major reason much of the online population just accepts the default settings.

The free flow of data, Dr. Launchbury noted, should be enormously valuable across every industry and scientific discipline. But that will only happen in an environment of trust, where, he said, the prevailing attitude is that "you feel so in control of your data that you enable greater sharing at your discretion."

Today, the data world is pretty much wide open, and entire industries rely on mining and marketing people's data. If people have the ability to limit which of their digital footprints can be seen or tracked, doesn't that undermine the business model of many ad-based Internet companies, including Google and Facebook?

Not necessarily, Dr. Launchbury replied. "It would be a matter of, You can use this data for these purposes in exchange for a set of free services," he said. "At least then it's a negotiation."

Naming the program Brandeis suggests a recognition that technology will be only a part of the answer to privacy challenges. So will an evolving legal framework and public attitudes.

"Privacy is such a huge space," Dr. Launchbury said. "What we're working on here is not a solution. But we're hoping to develop a new technical capability and society can decide whether it wants to use it."  
RETURN TO TOP

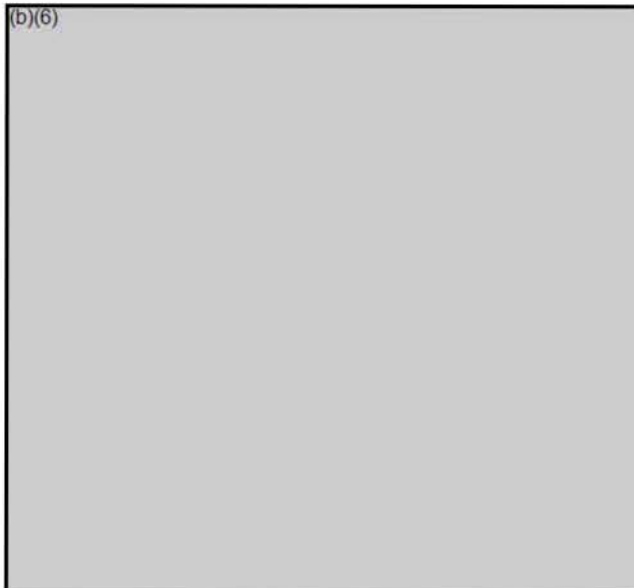
-----Original Message-----

From: Research Support Center  
Sent: Monday, September 21, 2015 10:25 AM  
Subject: OSD Morning News Updates 19-21 September

Good morning,

Attached are the OSD Morning News Updates for 9/19/15 - 9/21/15. Please let us know if we may provide any assistance to your research.

Kind regards,



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From: (b)(6)  
To: (b)(6)  
Subject: Re: NYTimes.com: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology  
Date: Monday, September 14, 2015 11:15:32 AM

Thank YOU (b)(6) for helping and, as always, for paying attention!

(b)(6)

-----Original Message-----

From: (b)(6)  
Sent: Monday, September 14, 2015 10:58 AM  
To: (b)(6)  
Reply: (b)(6)  
Subject: NYTimes.com: With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology

(b)(6) am just passing along a link to the web piece on Brandeis that we posted today. And I also wanted to say thanks for inviting me out to St. Louis. A good bunch of folks on the panel, and the exercise forced me to think more deeply about AI and its implications. Best (b)(6)

Sent by (b)(6) <[http://1.nytimes.com/images/misc/nylogo194x27.pdf](mailto:mailto:nytimes.com/images/misc/nylogo194x27.pdf)>  
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(b)(6)

The Pentagon's advanced research arm is supporting research in privacy technology. Strong privacy protection, it says, is essential for the data economy to flourish.

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From: (b)(6)  
To: (b)(6)  
Subject: RE: NYTimes.com With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology  
Date: Monday, September 14, 2015 11:12:52 AM

Thank (b)(6)

(b)(6)

From: (b)(6)  
Sent: Monday, September 14, 2015 10:54 AM  
To: (b)(6)  
Subject: NYTimes.com With 'Brandeis' Project, Darpa Seeks to Advance Privacy Technology

(b)(6) Just passing along a link to the piece we posted on the web today. Thanks again for the help. Best (b)(6)

Sent by (b)(6)

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(b)(6)

The Pentagon's advanced research arm is supporting research in privacy technology. Strong privacy protection, it says, is essential for the data economy to flourish.

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From: (b)(6)  
To: (b)(6)  
Subject: Wired article on DNA data privacy  
Date: Saturday, October 03, 2015 10:01:13 AM

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(b)(6)

This might be useful anecdote for Brandeis...

In the October print edition of Wired (p. 35), there's an article on a filmmaker named Michael Usry who was interrogated by police and FBI about a trip he'd taken in 1998 to Rexburg Idaho to visit two of his sisters. The police were trying to solve the 1996 murder of teenager Angie Dodge. Several years earlier, Michael's father had donated a DNA sample to his Mormon church. That database was later purchased by Ancestry, which made it publicly searchable. (They have since shut down this access).

The police had DNA evidence from the crime scene, which they ran through all publicly available DNA databases, including Ancestry, in a so-called familial search, and Michael's name came up. During the interrogation they took a DNA sample (for which they had a warrant). After 33 days, Michael was cleared when his DNA sample didn't match the evidence.

The DNA search technology has a high rate of false positives, and there are no standards for data quality in these non-government DNA databases. This creates a situation in which many innocent people have their reputations damaged due to a lack of adequate data privacy and handling safeguards.

The argument for privacy is often couched in vague terms; "I just don't feel comfortable that advertisers/insurance companies/government agencies/etc are able to access my web surfing/geolocation/workout history/etc." This story provides a concrete example of the unintended consequences of having one's data available on the Internet.

(b)(6)

(b)(6)