

'The biggest privacy risk that you have is your smartphone'

he last few weeks and months have winessed a steady stream of negative mews surrounding Aadhaar, the government's mews surrounding Aadhaar, the government departments and the potential leakage of Aadhaar numbers by government departments. The government departments The government also received flak for making Aadhaar mandatory for fling income tax returns. Then there are issues with the technology itself—the Aadhaar hiometric authentication failure rate in the ruraljob guarantos echeme was ashiph as 50% in Telangana, as reported by Minti in April. In an interview, Infosys co-founder and former Unique Identification Authority of India concerns surrounding Aadhaar, especially around the security of the system, but conceded that there are areas where it can improve, while calling for the creation of adala-protection and privacy jaw. Edited excerpts.

How big a problem is the current

ccerps: How big a problem is the current situation with the lack of a privacy

situation with the lack of a privacy law?

I'm very clear that India needs a very modern privacy and data-protection law. And I've been saying this far longer than most people. Sometime in May of 2015, that we should have a privacy law. And I followed that up. 1 asked I thanh Matthan (partner at Trilegal and a Mort columnist) and he helped. He worked with the department of administrative reforms and came out with a draft law and subsequently there was a committee under Justice A. P. Shah, and one of my colleagues (at UIDAD Ashok Pal Singh was a member of that committee. They contributed to of that committee. They contributed to the framing of the principles. The only issue I have with the current narrative is, why should Aadhaar be sin-

gled out as a reason for he law? The big-gest privacy risk that you have is your smartphones. A billion people will have smartphones as we go forward, their con-versations will be recorded, their messa-ges will be read, their location can be limited with the CPS or the triangulation of the towers on a real-time basis. So, for 24-hours a day, you know where a person is. Using all the accelerometers and gyrome-ters on the phone, you can actually make out if someone is drunk or not. The kind of intrusion of privacy that the smartphone intrusion of privacy that the smartphone does is order of magnitudes higher. Aad-haar is a sporadic thing—it is episodic, for instance, when I go and open an account,

There's a realization.

that we have this

extraordinary

transformation in

governance

platform—so, there is

the willingness to use

this platform to

achieve more

instance, when I go and open an account, etc.

The second big privacy risk that we have are CCTV cameras—there doesn't seem to be a law on these things. Every ognition technol-

ognition technology.

Thirdly, we have the Internet companies and data collection. Indians are essentially giving data to companies that are essentially unaccommable to Indian law and that Indian law and that

incum naw and that data is often shared with foreign govern-ments as we have seen, time and again. There is more risk of Indians sharing data with foreign governments, than their own

Inere is more risk of indians sharing data with foreign government, than their own government. Them there are drones, or the Internet of Things with sensors everywhere collecting data on you. So, when you look at it, there is a data issuisant that is completed the to a variety of things—(it has brothing todo with Asdhasar as such. Given that, which looks should have a data-protection and privacy law which is an umbrella law, which looks at all these phenomers and certainly such barra and the use of Asdhasar should be part of that.

That's perfectly fine—but people are acting as If Asdhasar is the only reason why we should have a privacy law. That's where I have a groblem. We have a farbigger risk today from a cell-phone than Asdhasar.

gerrisk today from a complete from the fact of the government in



work around Audhaar?
We need to have an internal champion in the system who will take it forward. It cuts across everything. There are also to stakeholder interests inside the government—so, it requires someone to champion it and leadth. In any case, we need a very modern data-protection law-data generation has become so huge now, all the current constructs of data laws were designed to 15 years ago, if you this know were designed to 15 years ago, if you this know were working perior in the current constructs of the know were working perior in the current constructs of the know we consign the privacy law but all toperates in this sunsaive data which is coming out of sensors, phones, etc? We need to rethink the entire concept.

These (current)

oncept.
These (current) These (current) laws were designed for a different era. Concerns have been raised around how Aadhaur's facilitating the creation of an Orwellian sort of surveillan net state... Again, this is another attempt to criticize and (create) this notion that Aadhaur is an Instru-

this notion that Aadhaar is an Instru-ment of mass sur-veillance. It's com-plete nonsense. Your smartphone is a much better tool

war smartphone is a much better tool for the government to do surveillance than Andhara Recause Andhara by nature is episodie. I open a bank account once in a while. If I use it for payments, I'lluse for low-value payments, I'lluse than trail userveillance. By definition, a surveillance by definition a surveillance by definition a surveillance was the content of the surveillance was t

on that ore, so that ore the control of the control

pens when data is accumulated which is what is happening in many organizations and that data is a black box. Nobody knows what's happening with that data. And on top of that, you have black-box algorithms

top of that you have black-box algorithms operating, which what is lappring. We have no idea what algorithms are being used today to feed you news or whatever. That is where the risks are.
What happens in the event of a data breach? Unlike a credit card, one cannot block the Aadhaar card.
Ithink the Aadhaar system is extremely well-designed. It's not an online system that is exposed to the Internet. When the enrolment happens, the packet is encrypted at source and sent, so that there card the a man-in-the-middle strack and when the authentication happens, that is abovency pack-not compared to the original data, but to a digital minutiae. The point is that the system is very very secure. So, if the objection is to centralized. Lowerphing though the system is very very secure. So, if the objection is to centralized though the system is very very secure. So, if the objection is to centralized though the object of th

do when they do an eKYC (electronic Knew Your Customer, a process of verifying the identity of customers) with the Asdhaar number. That Isw has to be rigor outly enforced. The Adhara Isw has to be rigor outly enforced. The Adhara Isw has more privacy kind of details than most laws have. But I agree we need an overall data-protection and privacy law which coverseverything, including foreign companies collecting data in India, including drones, internet of Things, people reading your enails, smartphones, etc.

But doesn't the system need to be held accountable in the event of a breach of data? That doesn't seem to be happening—for instance, alot of things are being done in the name of national security. Everywhere in the world national security exceptions are there. Everywhere in the world, the tension lishelvers privacy and security because the securify gays feel that if there is a criminal action, they have determined to the control of t

tion than any other law that I can think of and it has a lot of checks and halances. That's one part. Then there's the use of Aadhaar which is done by other laws. For example, in the Finance Bill, they say Aadhara should be mandatory for PAN (permanent account number) Card. That's got nothing to do with Aadhaar, that's alegal provision in another law. There are broadly four purposes to the use of Aadhaar. First, the feature of Aadhaar, which is unique only to Aadhaar and no other system, is that it gives a unique II across a billion people—you can be sure that somebody does not have more than one II); second, Aadhaar is used to do direct benefit transfer by sending money to the Aadhaar number which in turn is linked to a bank where your account is; third, Aadhaar is as an electronic KYC where I give permission to the Aadhaar system to release it is as an electronic KYC where I give permission to the Aadhaar system to release is as an electronic ATL where 1 give po-mission to the Aadhaar system to release my name and address to the bank and I get an instant bank account or an instant SIM rd. So, four very different uses of one

card. So, four very unimplatform.

The first use has a used case in both and a superfixed comments. In benefits, and a superfixed case in both superfixed case. card. So, four very different uses of one platform.

The first use has a used case in both benefits as well as documents in benefits, you want to eliminate ghosts and duplicates. You want to eliminate ghosts and duplicates you want to eliminate ghosts and duplicate has you want to every ment has said that the savings that the government has said that the savings is somewher a found RS-90-9 Ood crore. The impact is there to be seen, a warstood that the saddings is somewher a found RS-90-9 Ood crore. The impact is there to be seen, a warstood was done in the pop of the card. And only 40 million thalians are paying taxes. Why should there be 250 million PAN (cards.) And only 40 million thalians are paying taxes. Why should there be 250 million PAN (cards.) And only 40 million thalians are paying taxes. Why should there be 250 million PAN (cards.) And only 40 million thalians are paying taxes. Why should there be 250 million PAN (cards.) And only 40 million taxpayers? May people who want to eve taken PAN for ID, therearestill many duplicate PAN (cards.) And Adchaar mumber de-duplicate PAN (cards.) And Adchaar mumber de-duplicate PAN numbers you're actually making sure that a guy has only one PAN number and that will help in eliminating taxevasion, so that's a good social pur-

that will help in eliminating taxevasion, so that's a good social purgood social purpuse.
Similarly, the mobile phone using Aadhaar exYC actually came out of a
Supreme Court decision. Now, in the old
days, you used to submit a cony of your
pussport or an ID proof, toget as SiM card.
Now, that's even more unsafer-because
that fellow now has all your data. Secondly, IO other people will get a SIM using,
your details—you don't know.
Even though we have a billion phones,
when we about 800 million unloque users,
is my estimate. And even in that, how
many of them have given a genuine ID to
get a phone? I don't know. The same story
splaying out with driving licences.
But there is still concern around all
this data being centralized.
No the data is not in one system—that's
have below the procedure.

Institute and a being centralized.

No, the data is not in one system—that's the whole point. The data is in respective systems. The Aadhaar number is in the PAN database. The PAN number is not in the Aadhaar database. That is the point. The Aadhaar database does not have any data. This is a conscious design choice, which is why to say that the system is for

surveillance makes no sense. The nature of surveillance requires you to collect data. This does not collect data. But then why has Aadhaar become all-pervasive? Why is Aadhaar

all-pervasive? Why is Audhar being made mandatory for every-one?

No, there's a realization that we have this extraordinary transformation in governance platform—so, there is the willing-asset one shie platform to achieve more. All the goals that they eve identified are all the goals that they eve identified are all the goals that they eve identified are all the contractions of the state of t

if the concern is of privacy. I've made my position clear.

In everything in life, there's always and convenience. There's no absolute privacy. In there's no absolute privacy. There's no absolute privacy where is no absolute convenience. In our view, the benefits of the Aadhaar system to midividuals and outlety for cultweigh the inconvenience or the risk. Everything in life is a risk. You always see how you halance those out. But the benefits here are so how it is a work to have it is a work to apply the privacy in the privacy and coloring the privacy and the privacy and coloring the privacy and the privacy and coloring the privacy and the privac ance has ent of the darkers are so huge. It's worth anything—and obviously the obligation of the Addhasr system is to ensure that things are done properly and nobody is dealed benefits. As technology evolves, you make things better and safer. Within seven years of Istalunch, the Addhasr system has made a remarkable leapin the terms of its security and privacy and it will keep improving. Technology does not come through immaculate conception. It has to evolve.

Speaking of evolution, what are some of fitnings that still need to be fixed in the system?

One, Lagree we need a privacy law, covering everything, Secondly, we need to implement (the concept of registered devices as soon as possible. The first launch is by June., Also, the Aadhaar law

already provides that anyone who uses the Aadhaar number cannot display the number or publish it, so talax enforcement has to happen. We have to make sure that any user of this, whether it's tale government or the private sector, follows the law for the protection of the Aadhaar number. Protection of numbers and pre-

venting leakages have been a m sive issue...

I know the government has sent a office to everyone. If some body has done, they ought not to have done it—there's

swiorinal.
Even with these kind of checks and balances, why are so many concerns being raised on the security of the system?

It's very safe.
Security is an ongoing thing. You have
to keep improving
and getting better.
You have to keep
doing that and I'm
sure-the guys (at
UIDAI) are aware of
that.

that. The methods followed here, the architecture, the encryption, the use of HSM (hardware

of get the gwp assed, and get the gwp assed, and get the gwp assed, and gwp assed, and the gwp assed, and th



Instead of attacking Aadhaar which is a negative activity. everyone should get together and get the (privacy) law passed, which is a positive



