## **Digitising Transactions**

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#### Think of society through the lens of transactions

- ... the experience is usually painful
- there is friction, ...
- which costs money, wastes time, human error, ...

How can we go from digitization, to automation, to innovation, to create "value" from transactions?

## Some examples of transactions

– financial

- taxes

voting

- demarcation of physical assets, like land

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## An example: mobile payments

Mobile Payment Forum of India

Academia (IIT Madras), Industry & Regulators came together

- created the standards (interoperability, security) for mobile payments in India
- standards gave rise to two products
  - IMPS Immediate Payment Service
  - UPI Unified Payments Interface

## **Impact of UPI**

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February 2020 to February 2022

Transaction volume (in Cr)132 to 452Transaction value (L Cr INR)2.22 to 8.25

In 2022, UPI is expected to cross 1 trillion USD worth of transactions! Currently, approx 300m monthly active users

### **Innovation is needed at 3 levels**

– Adoption

Technology

– Policy

## Adoption

Users

better understanding of human behavior, technology and use cases

Merchants
– setting the MDR (merchant discount rate)



Use voice as a means of authentication and conduct transactions across multiple local languages



Government has a rare opportunity to develop a data-centric understanding of how the economy conducts itself and uses money, and can set taxes accordingly

### **Value addition**

Human level

- payments usage data & patterns to help customise financial services at scale
- make it easier / beneficial for paying taxes

Government level

– widen the tax base

– better resource allocation, given spending patterns

With technologies like AI and blockchain, the opportunities for value addition are enormous!

# UPI is just one service ... Google: the US FED should adopt a UPI-like system

Google	upi global X 🎍 Q
	Q All 📧 News 🗔 Images 🛇 Maps 🕞 Videos 🗄 More Tools
	About 1,68,000 results (0.27 seconds)
	<ul> <li>Inc42</li> <li>Nepal To Be The First Country To Deploy India's UPI System</li> <li>To deploy Unified Payments Interface (UPI) services in Nepal, NPCI International Payments Ltd (NIPL), the international arm of NPCI,</li> <li>1 week ago</li> </ul>
	Times of India Nepal to be first foreign country to deploy UPI of India's global arm NPCI International Payments (NIPL) will help enable the Unified Payments Interface (UPI) platform in Nepal. 1 week ago
	Trak.in UPI Goes Global! Nepal Becomes 1st Country To Deploy UPI Payments After India

1 The Companies Bringing UPI To Nepal - 2 Helping Digitise Cash Transactions - 3 Enabling Cross-Border Remittances - 4 Proof Of UPI's Global...

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1 week ago

#### **Greater engagement with democracy**

Mobile Voting

If we are now comfortable making financial transactions on a mobile, why not vote?

- greater participation
- lower cost

#### How to systematically create *value* from transactions?

Academia, Industry and Government to come together

- develop standards & technology
- go to market
- set policy

and this ecosystem should work in tandem for an end-to-end perspective