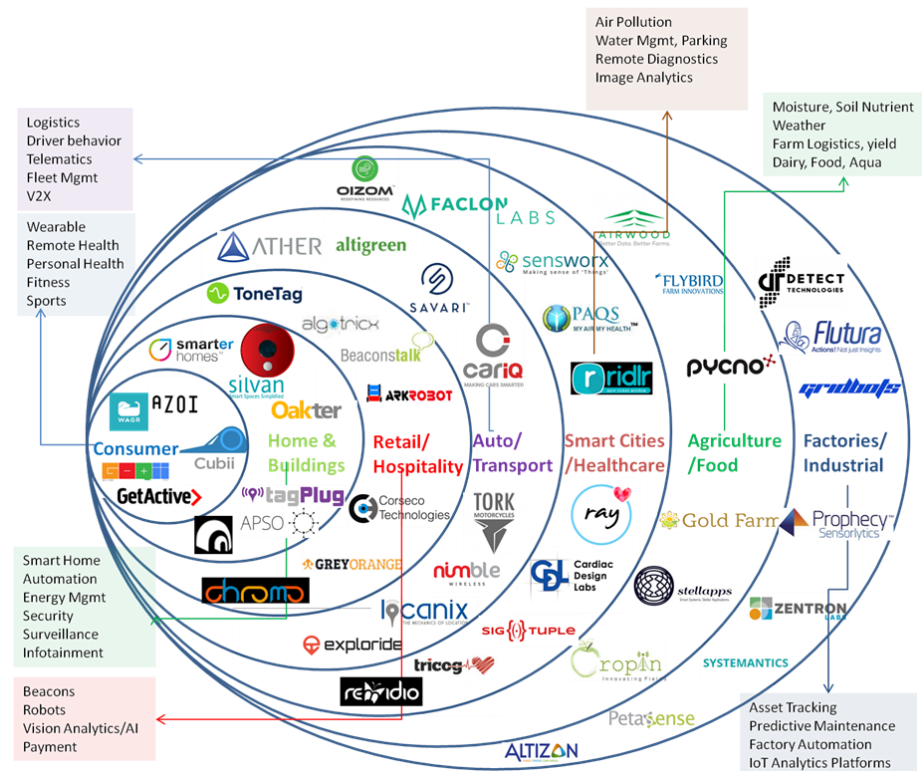




Arvind Tiwary
Chair IoTForum





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K-tech

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KARNATAKA

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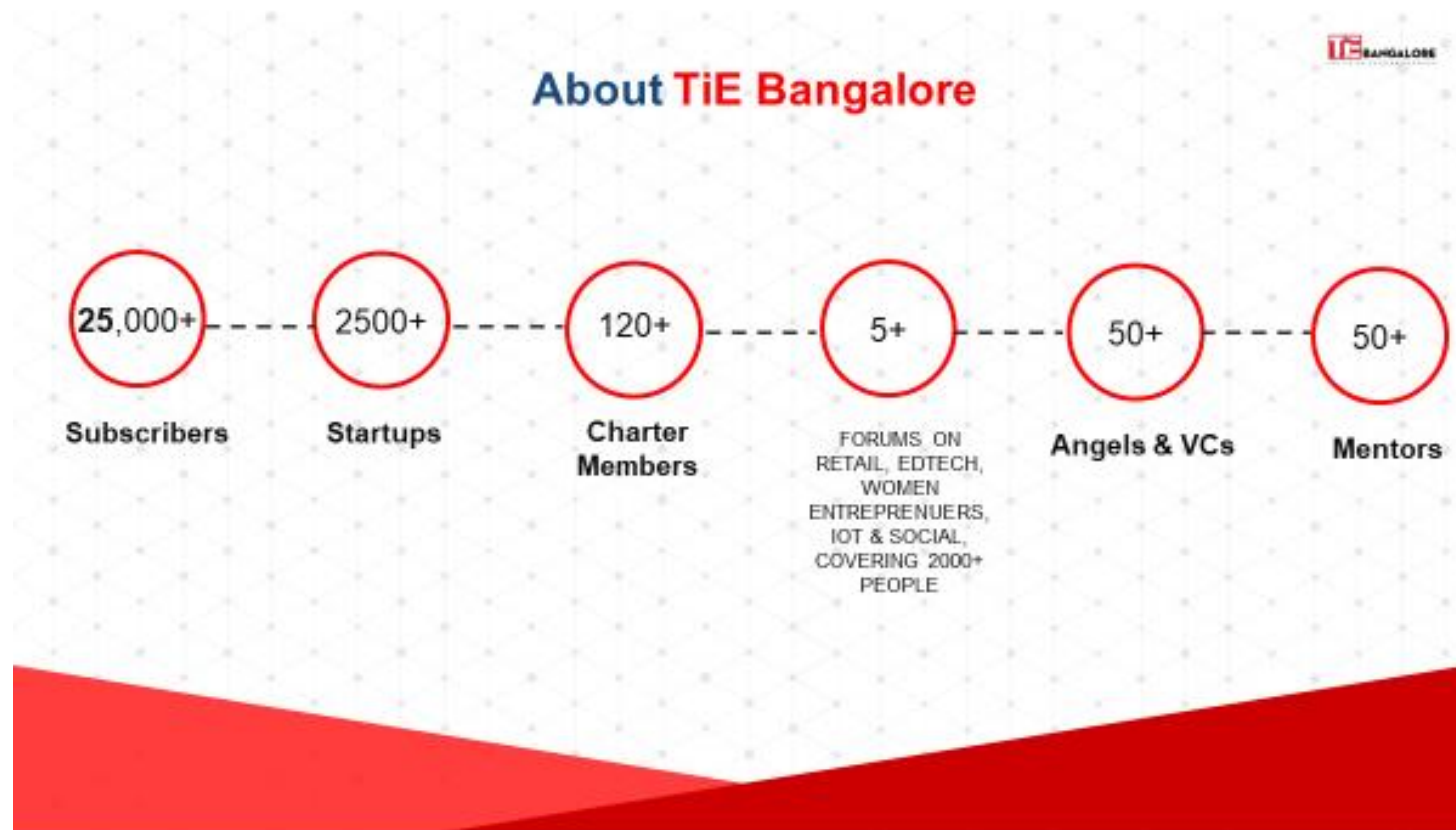


TECHNOLOGY PARTNER

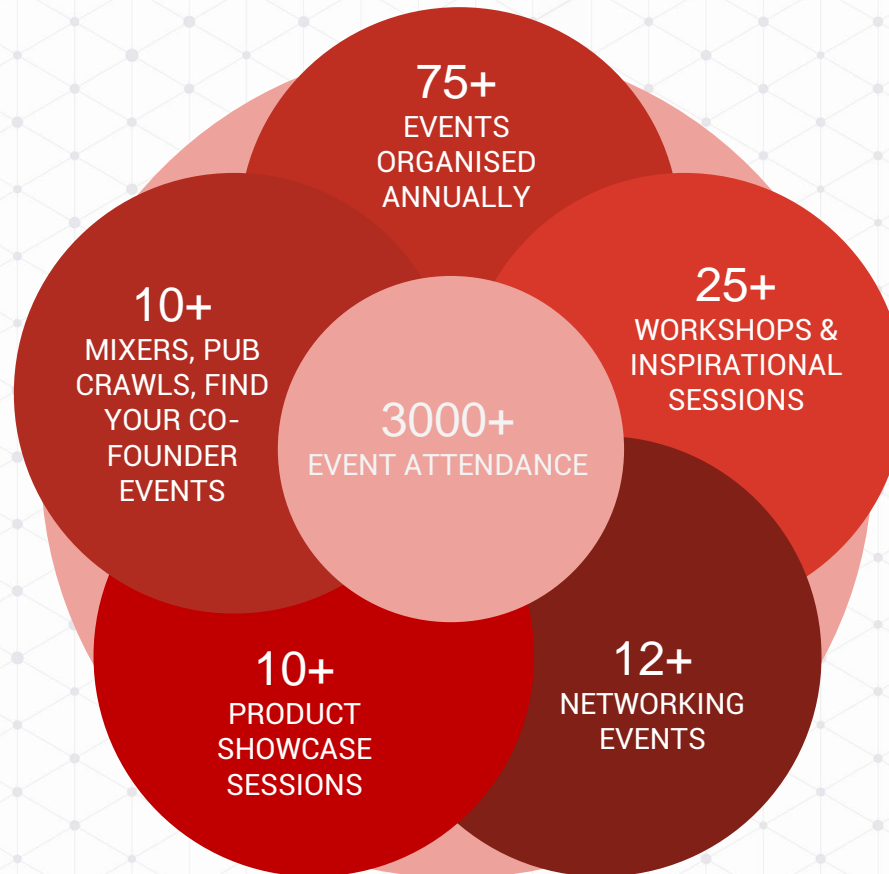
aws activate

Agenda

- TiE
- IESA
- IoT Forum
- Participation



Building Capabilities through **Programs and Events**



Successful Ventures



RedBus

Exit of INR 800 crores



OncoStem

Funded in 2010 by Artiman Ventures



JustEat

Raised VC round and PE funding, Acquired by FoodPanda.



RapidValue

Funded in early 2014 by Helion Advisors



Shotang

Funded by Bitchemy Ventures in mid-2014; raised Series A in December 2015. Funded by Exfinity Ventures.



Headout

Got accelerated at 500startups 11th batch in US; funded \$1.8Mn by Arena, 500 Startups, Nexus Ventures etc. in April 2015.



LabiApp

Seed funded in June 2015 by Sylvant Advisors and Unitus Seed Fund



Events High

Seed funded by Axilor Ventures. Acquired by Treebo Hotels.

India Electronics & Semiconductor Association (IESA)

Established in 2004 - The voice of the electronics, semiconductor and embedded systems industry in India, with over 260+ members including Indian and international companies

- Diversified membership base comprising of companies (Indian and MNCs) and across the ESDM value chain and ecosystem – (Start-ups, Design Companies, Manufacturers, Academia, Suppliers Of Equipment, Tools And Components, VCs, Training Providers)
- Credible Knowledge Partner to the Govt and States
- Supporting in policy framework and its implementation
- Build Brand India through International Alliances: Bilateral business growth and sharing best practices

260+ Strong IESA Member Base

IESA'S MEMBER BASE INCLUDES A PERFECT MIX OF BOTH MNCS AND STARTUPS WITH 30% AS STARTUP STRENGTH



IOT FORUM

#RaiseIoTQuotient
@IoTForIndia
www.iotforindia.org

IoTForum Achievements

▪ Assistance Scheme

- 26 Startups, CDL, Loginext, Coeey , Retisense, 36% success rate

▪ Spectrum

- sub GHZ, 10MHZ minimum

▪ LPWAN

- 6 Smart Cities, Cut roll out by up to 75%, costs by up to 25%

▪ Agritech – Resource constrain

▪ IoT Platforms

- IoTDay 2017

▪ IoT Security –FreshThinking

- CISO Platform ,IET

▪ Indian IoT Start-ups Directory

Telegram Groups
Public
IoTForIndiaGroup
Private groups
Startups

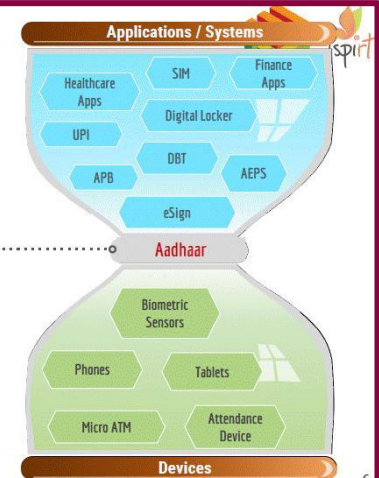
EnduringInsight HelicopterView ThoughtProvoking



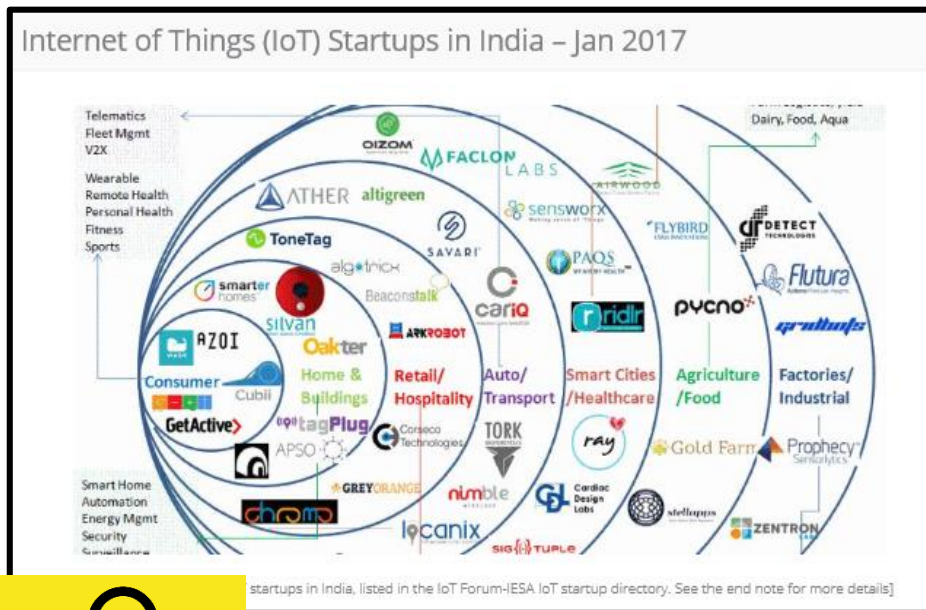
Aadhaar Hourglass Architecture

- Minimal
- Standardized
- Simple design
- Easy to execute
- Easy to write a law

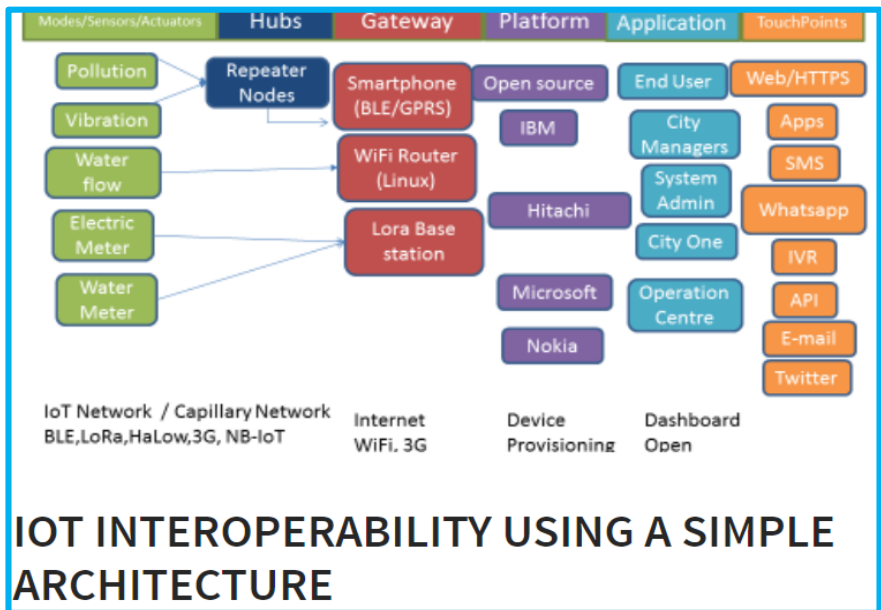
- Identity as a utility, an enabler
- Allows innovation on all sides
- Amplifies ecosystem players



6

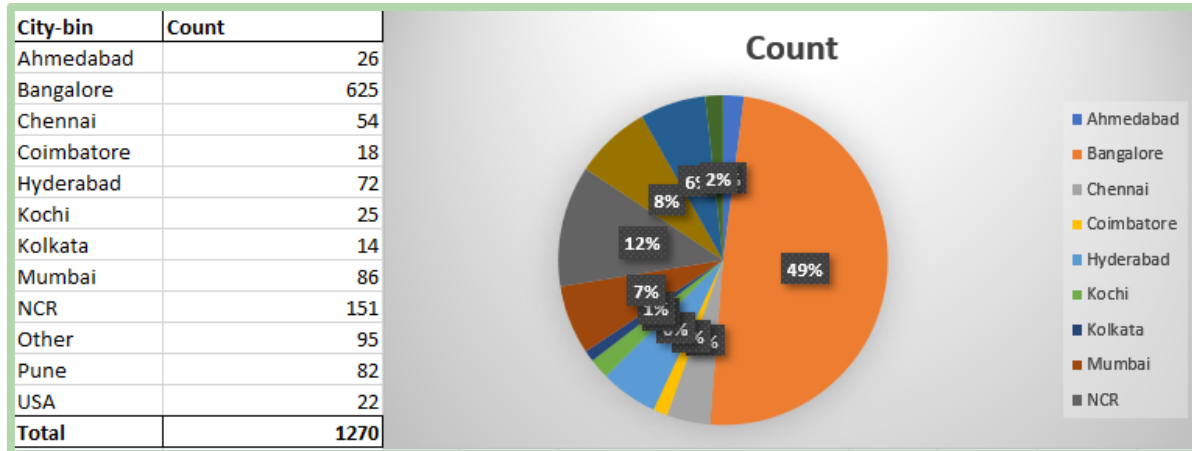


startups in India, listed in the IoT Forum-IESA IoT startup directory. See the end note for more details]



IOT INTEROPERABILITY USING A SIMPLE ARCHITECTURE

The 2018 Edition of IoT Directory



<http://www.iotforindia.org/iot-startups-directory/>

Code	Description	Count	Code	Description	Count
H2	Instrumentation	47	O4	Lights/HVAC/T&D/Solar	196
H3	FPGA,SoC	34	O5	Water	51
H4	HW tooling,3D	55	O6	Waste	34
H5	Antenna, Gateways,	67	O7	Air/Pollution	44
H6	Drones, UAV,Mobile	66	O8	Safety /Surveillance	100
H7	Robots	50	O9	Parking/Traffic	56
H8	AdTech	121	S8	Connectivity /Radio	103
H13	Analytics	217	S10	Training	60



Events

21

April
2018



IoT Day 2018

IoT day 2018 planned on April 21st 2018, serves as an opportunity to everyone involved in the industry to celebrate the evolution of IoT

[Find out more »](#)

Past Events

15

March
2018



IoTForum Monthly Meet – March 2018

At this monthly meetup, we aim to discuss on how IoT can be leveraged in reliable and effective monitoring of sustainable power generation.

[Find out more »](#)

19

January
2018



Blockchain Hackathon

Build apps and smart contracts using Blockchain and simplify various G2G, G2B and G2C services.

[Find out more »](#)

24

November
2017



Meet Up with Intel on AI / ML

Immerse yourself in Artificial Intelligence (AI) and create a bold new future. Intel offers an end-to-end AI solution, the resources to help you get started and exciting real-world examples of how AI is taking shape.

[Find out more »](#)



DAY-LONG EVENTS

- » IoTNext - 1000+ delegates, 65+ speakers, 60+ exhibitors, 25+ media houses
- » IoT Day - B'lore's IoT ecosystem coming together on International IoT Day



ADVISORY

- » IoT Security
- » IoT Platform
- » LPWAN
- » Startup Directory



ALUMNI

- » LogiNext
- » Retisense
- » SenseGiz
- » Cooey
- » Cardiac Design Labs
- » Pycno

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IoT Forum is a TiE Bangalore initiative to foster entrepreneurship and mentor start-ups in the emerging IoT arena. Started in June 2014, IoT Forum has hosted 36+ events and touched 3,300+ participants and 420+ startups.

PARTNERS



EVENTS FOR PRACTITIONERS

- » Contiki Workshop on Middleware for IoT
- » Bluetooth Technical Deep Dive Session
- » MEMS Technical Deep Dive Session



BUSINESS CONNECTS

- » Leveraging Use cases to Validate IoT Opportunities
- » Smart Vehicles - The IoT Future
- » Smart Agriculture and Smart Healthcare

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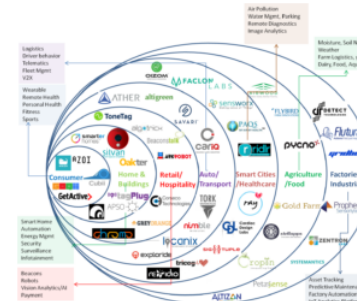
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<https://t.me/loTForIndia>

IoTForIndia

IoT Startup Directory



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Welcome



Raising the IoT Quotient of India with IoTForum an initiative of TiE Bangalore and IESA

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Raise the IoT Quotient of India.

Click Here
TO **REGISTER**

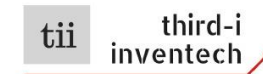
IoTForum Membership

- **New Scheme**
- **A Start-up**
 - 2 members become TiE Associate members
 - TiE events, IoTForum events
 - Partner Events (IEEE , IoTCoE, SINE)
 - Shape Workshops
 - Regulatory feedback
 - Standards (Roof...)
- **AWS activate option**
 - \$2,000 in AWS Promotional Credit, valid for 2 years,
 - -1 year of AWS Business Support (up to \$5,000)
 - - 80 credits for Self-Paced Labs (\$80 value)

Closed User Group
Access to Open Lab
Subject matter experts
Semiconductor Companies
Industrial Design
Procurement
ODM
Raising the Profile
Country Show
Industry Show
Curated Roadshows
B2B connect
IoT mentoring
IoTStack, GTM, M&A

connect@tiebangalore.org
manaswini@tiebangalore.org

Current IoTForum Members



The IoTForum Team

■ Website

■ T R Anand



■ Sufian

■ Sujata

■ Varun

■ Sandeep (BoT+)

■ IoTNext

■ Venki



■ Som

■ Community

■ Govind (Start-up)



■ Vanitha

■ Ravikiran



■ Joy



■ MM Prasad



■ Ashok Meda (AgriTech)



■ Ravi Pagar

■ Vikram Labhe



TiE Team

Kunal, Snigdha, Manaswini, Lakshmi

Usiru

THE LARGEST CROWD SOURCED CLEAN AIR PROJECT

bit.ly/UsiruBLR

Project Phasing

Phase 1

Collaborate & Involve

1. Environmental sensor organisations,
2. Open data platform partners as well as
3. Citizens,
4. Activists and
5. NGO's

Objectives:

1. Measurements for a location or neighbourhood
 - Buildings, Foliage, roads, population, construction activity
2. Determine Trends for a location or neighbourhood
3. Insights on cause and effects
4. Suggestions for better measurements and changes in experiments

I. DATA ACQUISITION SYSTEMS

Regulatory quality sensors (Gold class):

- 1. 6-20 high cost fixed location PMI + VOC) sensors.**
- 2. Use the new C-40 Air Pollution Control Command Room being commissioned by BBMP**
- 3. 80 stations of KSNDMC providing data on water precipitation and rainfall**

Enterprise class sensors: (Silver class):

- 1. 30-100 medium cost fixed location PMI + VOC Commercial / Industrial grade sensors.**
- 2. Special custom vans with high cost sensors for calibration of Bronze grade sensors in use**
- 3. 20-50 vibration and noise sensors to detect usage of Diesel gensets**
- 4. 30-60 Weather stations**

Open sensor network: (Bronze class):

- 1. 1,500-2,000 low cost fixed location PMI + VOC Commodity grade sensors.**
- 2. 300-800 low cost mobile location PMI + VOC sensors with residents or companies in car, trucks.**
- 3. 8-15 location based hourly photographs of view from road junctions, airport, metro and bus stations etc**

Methodology

- I. **Enable And Setup Data Acquisition Systems**
- II. **Provide An Open Air Quality Intelligence Platform**

www.iotforindia.org/usiru

6-12 Interventions

Small scale

(Schools, Hospitals)

Around 1-1.5 Crore

Funded 80% by users,
20% CSR

Medium Scale

(Locality)

Around 3-4 crore

Funded 25% CSR, 50%
Community Associations, 25%
Companies

Large Scale

(Ward level)

Around 5-8 crore

Funded 25% Government, 25%
CSR, 50% community and
residents

Suggest Device providers, residents using AIQ measurements to join. Collaborate form at website. Volunteer for Usiru

Outreach,
Sponsorship,
Data Science,
communities wanting to experiment

Project Usiru <https://bit.ly/UsiruBLR>

Smart Policy thru Rich Data : Largest Crowd Sourced Local Experiments

I invite you to be a part of this platform!
Join. Subscribe. Contribute.

Thank you!



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