

Go Digital for Atmanirbhar Bharat

(India ranks No.1 in Data Usage Globally)

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Disclaimer: Views presented herein are personal views of the speaker.



*“...and this crisis is, I believe one that carries a message, that we have to move forward not just to combat the crisis but to prevail. That can happen when **WE are self-reliant.**”*



Hon'ble PM SH. Narendra Modi

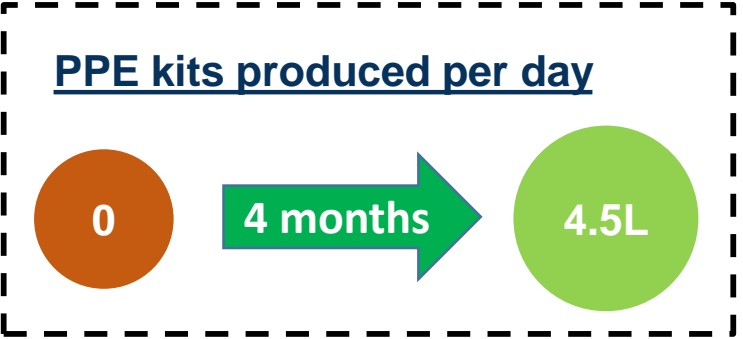
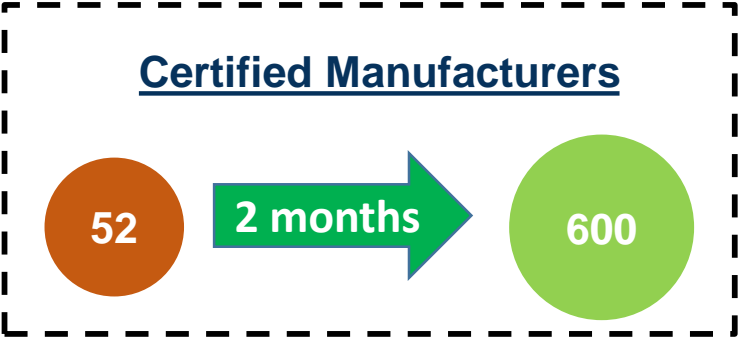
*“Local production helped us in this crisis, and when you look at several global brands, they began as local but were marketed and raised to a global level. We have to do the same with our produce. We need to be **VOCAL about local,**”*

- From **Make in India** to **Make for the World**
- Encouraging local capacity building
- Promoting Startups/Entrepreneurship
- Increasing Value addition in India
- Bringing down the import bill by producing and adopting quality local products



“..if India faces lakhs of challenges, it also has 130 crore solutions..” – Hon’ble PM Sh. Narendra Modi

Atmanirbhar in Crisis – PPE Kits



Self-Reliance

From importing kits in January for local demand, **India** in July **exported 23L kits to 5 nations**

Whole new line of business that can be grown, sustained and exported.



Billion Dollar Opportunity

US\$ 52 billion: Global PPE kits market size

US\$1 billion India alone is a Rs 7,000-crore market presently.

US\$ 92 billion: Expected global size by 2025.

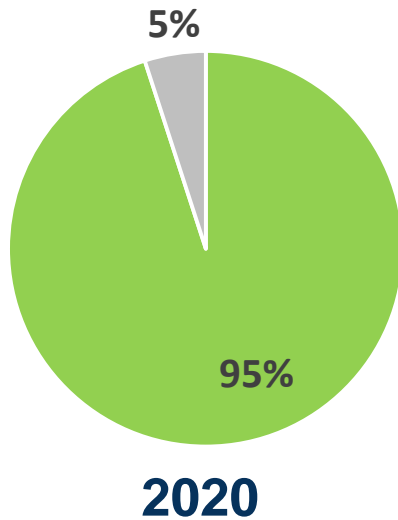
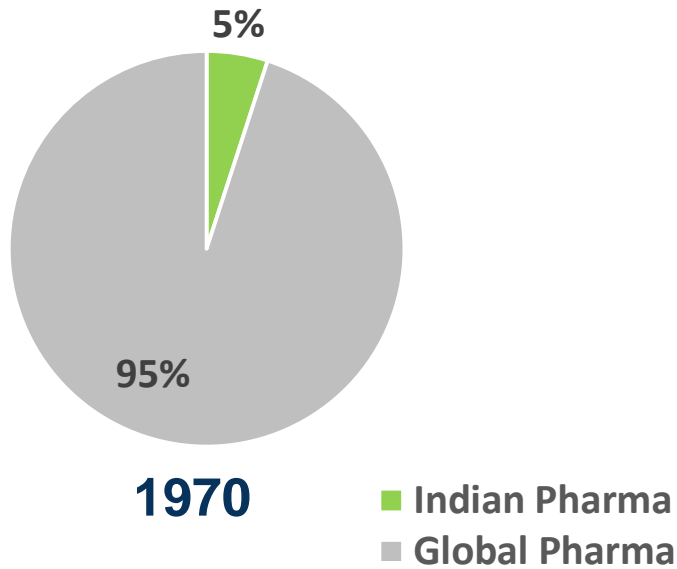
“..turning crisis into opportunity- is going to prove equally effective for our resolve of self-reliant India.”



India: Pharmacy of the World

- Pharma in India was non-existent in 1970
- Initiatives at Policy and Business Level helped spur the production
- Today, India's contributes ~20% to the global generics market, by value

Indian Pharma Market



60%
India's share of Vaccines supplied to the world

30%
Contribution to UNICEF's global supply annually

40%
Indian products contribution in US market, by volume

25%
Indian products contribution in UK market, by volume

India has demonstrated that it can execute large-scale turnarounds; becoming self-reliant and making a mark on the Global economy.



Aarogya Setu

में सुरक्षित | हम सुरक्षित | भारत सुरक्षित

- Government-owned application is being posed as the primary contact tracing tool in India.
- Acts as a one-stop solution

● Spreading awareness about COVID 19

● Helping in self-diagnosing users

● Store and display e-pass

● Trace contacts

Downloads



150 million +

Within 4 months of launch

1

Most downloaded contact-tracing app in the world

1

Top downloaded app in the health and fitness category since launch

“India leads the way in contact tracing for Covid-19: privacy first by design, secure, robust and scalable to billion users. Glad to see Apple and Google joining hands to develop contact tracing on the lines of Aarogya Setu,”
– Amitabh Kant, CEO, NITI Aayog



*“I’m glad your government is fully utilising its exceptional digital capabilities in its COVID-19 response and has launched the Aarogya Setu digital app for coronavirus tracking, contact tracing, and to connect people to health services,” – **Bill Gates***



WORLD BANK

***World Bank** also quoted and praised Aarogya App in its report as an effective effort to track and manage COVID*



Enabling Digitization through Data Revolution

Digitization: Key Enabler for a Self-Reliant India



While Government Policies and Tariffs are expected to provide fillip to Manufacturing Sector, **Digitization and Innovation** can prove to be the differentiator in creating a **technology-driven Atmanirbhar Bharat**.

The present ban on 224 Chinese serves as a great opportunity for India to develop indigenous apps that are relevant from an Indian context.

Indian Government recently added Drones, robotics and electric vehicle components in its atmanirbharta plan

Digitization to develop solution across multiple industry verticals and ecosystems



Financial Services



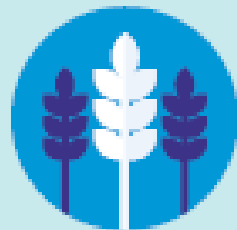
Healthcare



Commerce



Education



Agriculture



**Smart City,
Govt-to-Citizen**



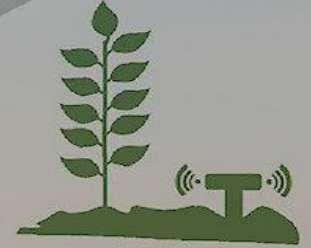
Manufacturing



Hospitality

“Digitization across these 8 industries can lay foundation of an Atmanirbhar Bharat”

AtmaNirbhar Krishi





Reforms announced by the Government under Atmanirbhar Bharat

Ending mandi monopoly & enabling inter-state trade

Allow farmers to directly sell their produce to buyers of their choice, and even undertake inter-state trade.

Amending Essential Commodities Act

Amendments to exclude commodities like cereals, edible oil, onions, potatoes etc. from price controls and the imposition of stock limits.

Sensors and IOT

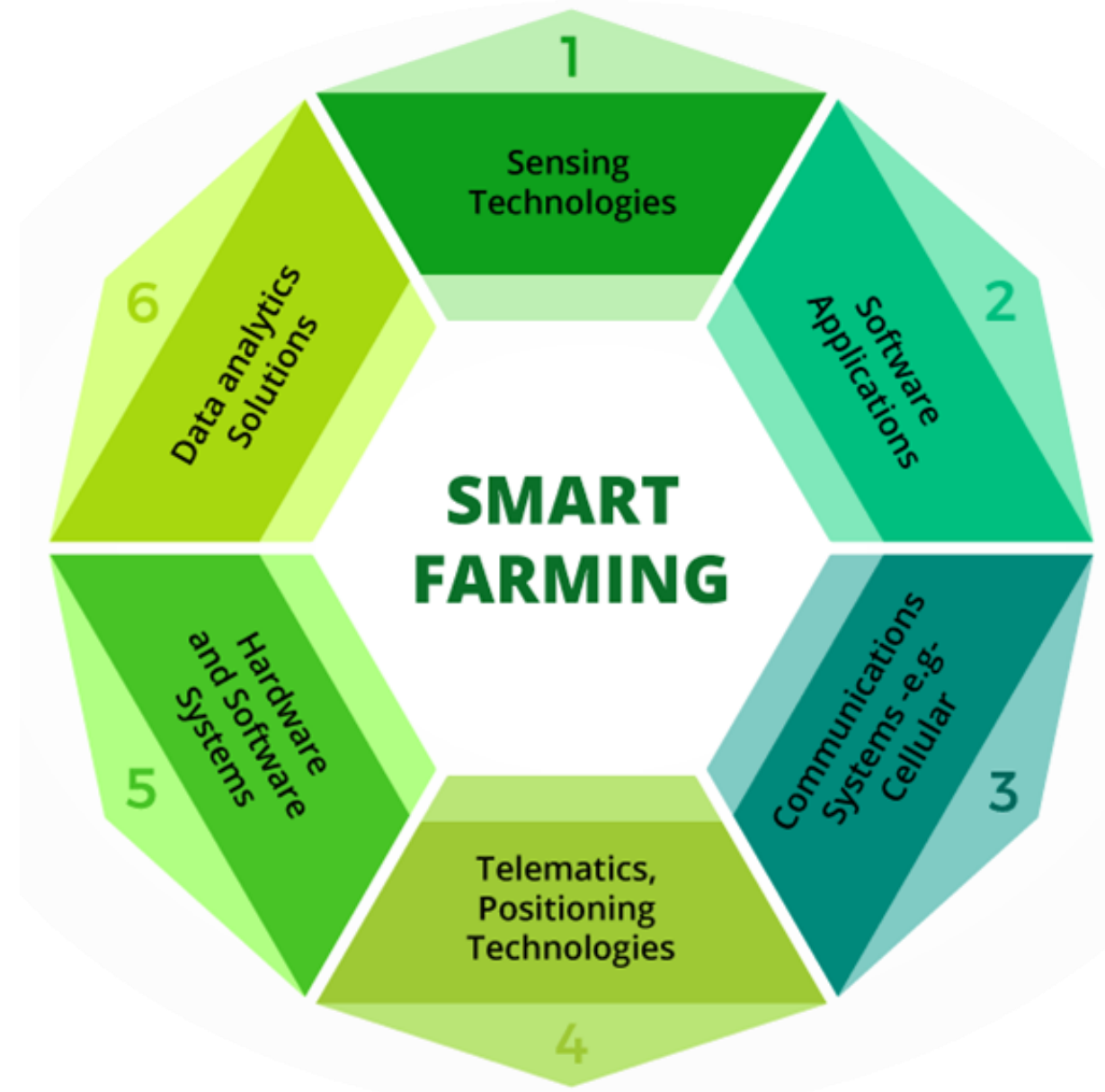
- Real time insights
- Data driven farming processes

Analytics and Machine Learning

- Informed decisions for farm and animal management
- Improved planning for seeding and harvesting

Robotics and AI

- Drones for inspections and monitoring
- Autonomous tractors etc.





Mobile App providing farmers access to range of agri-solutions and products



stellapps
Smart Systems, Stellar Applications.

E2E dairy tech solutions



Platform helping farmers directly connect with businesses



Offers farm equipment services on a pay-per-day basis



Sources fresh produce from farmers and sells them to offline and online retailers



Aarav Unmanned Systems Pvt. Ltd.

- Drone technology
- Commercial applications of drones to enterprises

FUTURE FARMS small and smart



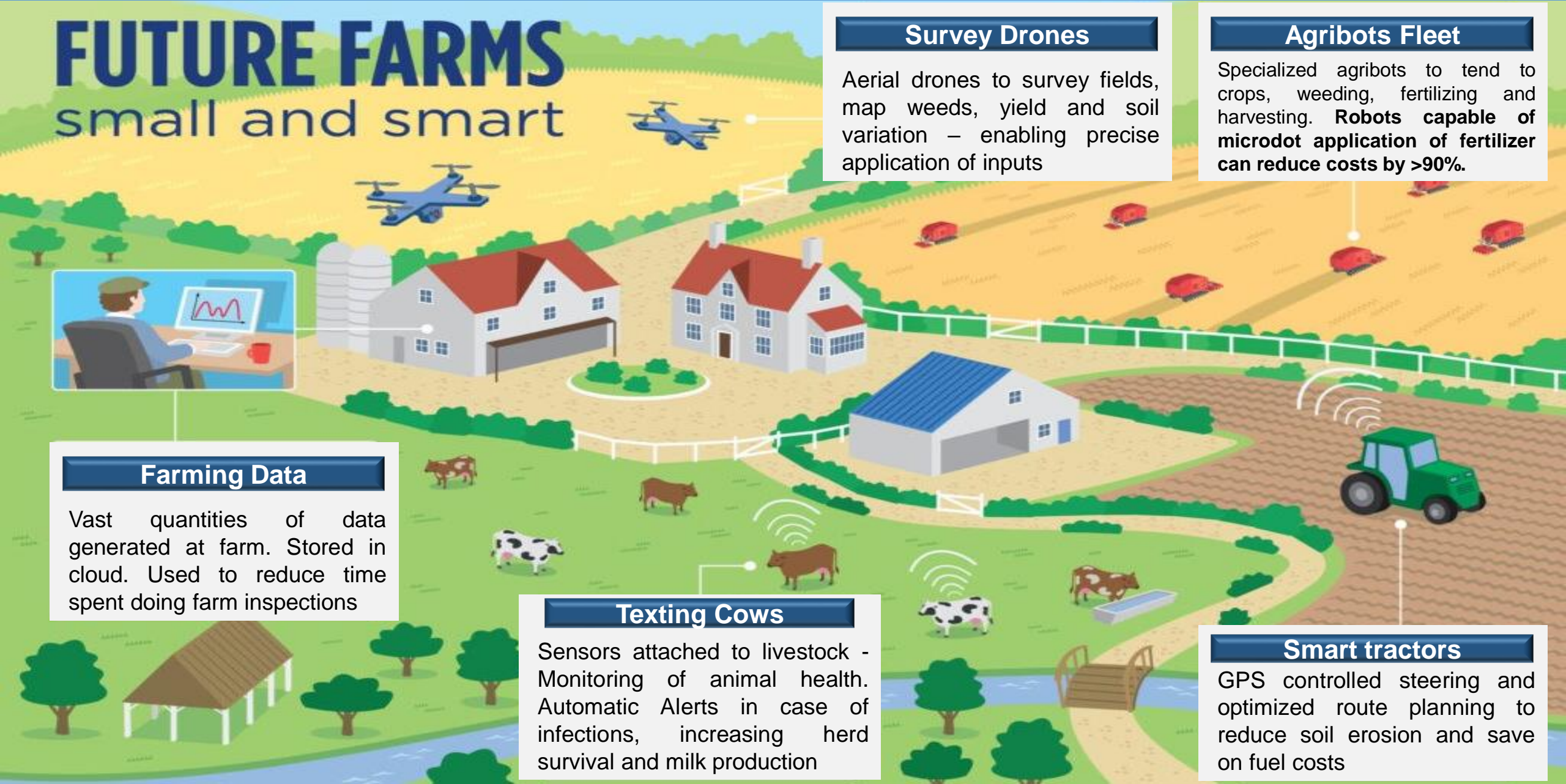
Farming Data
Vast quantities of data generated at farm. Stored in cloud. Used to reduce time spent doing farm inspections

Survey Drones
Aerial drones to survey fields, map weeds, yield and soil variation – enabling precise application of inputs

Agribots Fleet
Specialized agribots to tend to crops, weeding, fertilizing and harvesting. **Robots capable of microdot application of fertilizer can reduce costs by >90%.**

Texting Cows
Sensors attached to livestock - Monitoring of animal health. Automatic Alerts in case of infections, increasing herd survival and milk production

Smart tractors
GPS controlled steering and optimized route planning to reduce soil erosion and save on fuel costs



Digitization providing the extra hand to Farmers



#Odisha 's farmer Subhendra used #RF 's helpline & #Jio Chat for expert advice on fertilizer & pest management. This helped him save his paddy crop from pest attacks & boost his paddy output during Kharif & Rabi by 46.5 quintals, earning him Rs.72,075 extra. #RFEEnhancingLives



#RF 's Toll Free Helpline Services, Jio Chat Virtual Camps & A/V conferences helped Dhirendra take proper care of his cows, resulting in increased milk yield as well as income. The birth of 2 new calves further added to his flock. #RFTechForProgress



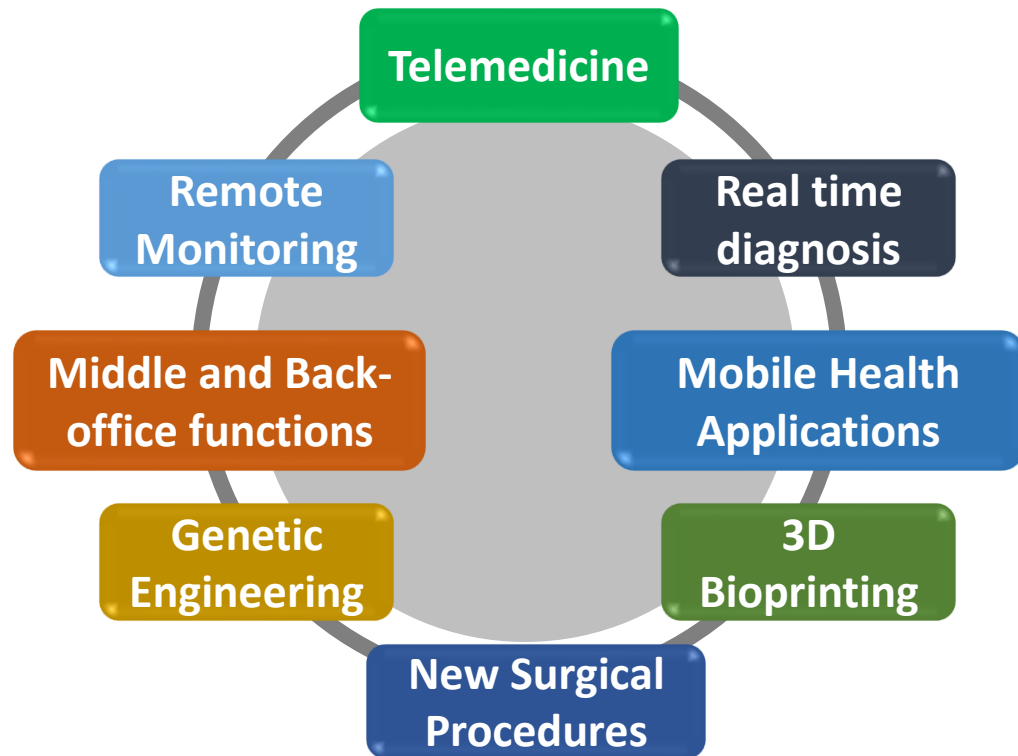
Interactions with agricultural experts through #RF 's 4G Jio Chat Service helped Kabilan take remedial measures to save his cotton cultivation, resulting in a significant increase of Rs. 30400 in his net income. #GoGreenWithRF #Sustainable



AtmaNirbhar Swasth Bharat



Digitization in Healthcare has enormous opportunities across



Advanced Use Cases

- ✓ Use of DR (Digital Reality) to help physicians in advanced diagnosis
- ✓ Use of AI and Robotics in for remote surgeries
- ✓ Use of VR in Therapy and Training

The What

- Foundation of a Digital health ecosystem
- Creation of unique health IDs, digitised health records with identifiers for doctors and health facilities.

The Why

- Efficiency and transparency in healthcare services
- Can even help to understand health risks and impact of different treatments.
- Enable pre-emptive medical care

The How

IoT and Big Data Analytics will be crucial to measure, store, manage and analyze the huge volumes of medical data.





- ✓ Develops and distributes medical information systems.
- ✓ Online software platform that provides automated appointment scheduling, billing solutions, and storage of medical records.



Aggregates offline pharmacies and diagnostic labs.



Digitises personal health records and provides patients with single-point, easy-to-use access to their medical data through a mobile app.



Using predictive analytics and ML, provides portfolio of diagnostic tools in the form of classifiers and analytical tools. Help in improved diagnoses.

The Tribune

VOICE OF THE PEOPLE

Gujarat doctor performs 'world's first' telerobotic coronary intervention



An Ahmedabad based cardiologist Dr Tejal Patel performed the first ever telerobotic operation on a middle-aged woman. He performed the intervention by operating robotically controlled instruments from a distance of 32 kms.

Dr Patel used Jio Band 100 MBPS internet connection to perform this surgery that lasted for about 15 minutes

AtmaNirbhar Shiksha



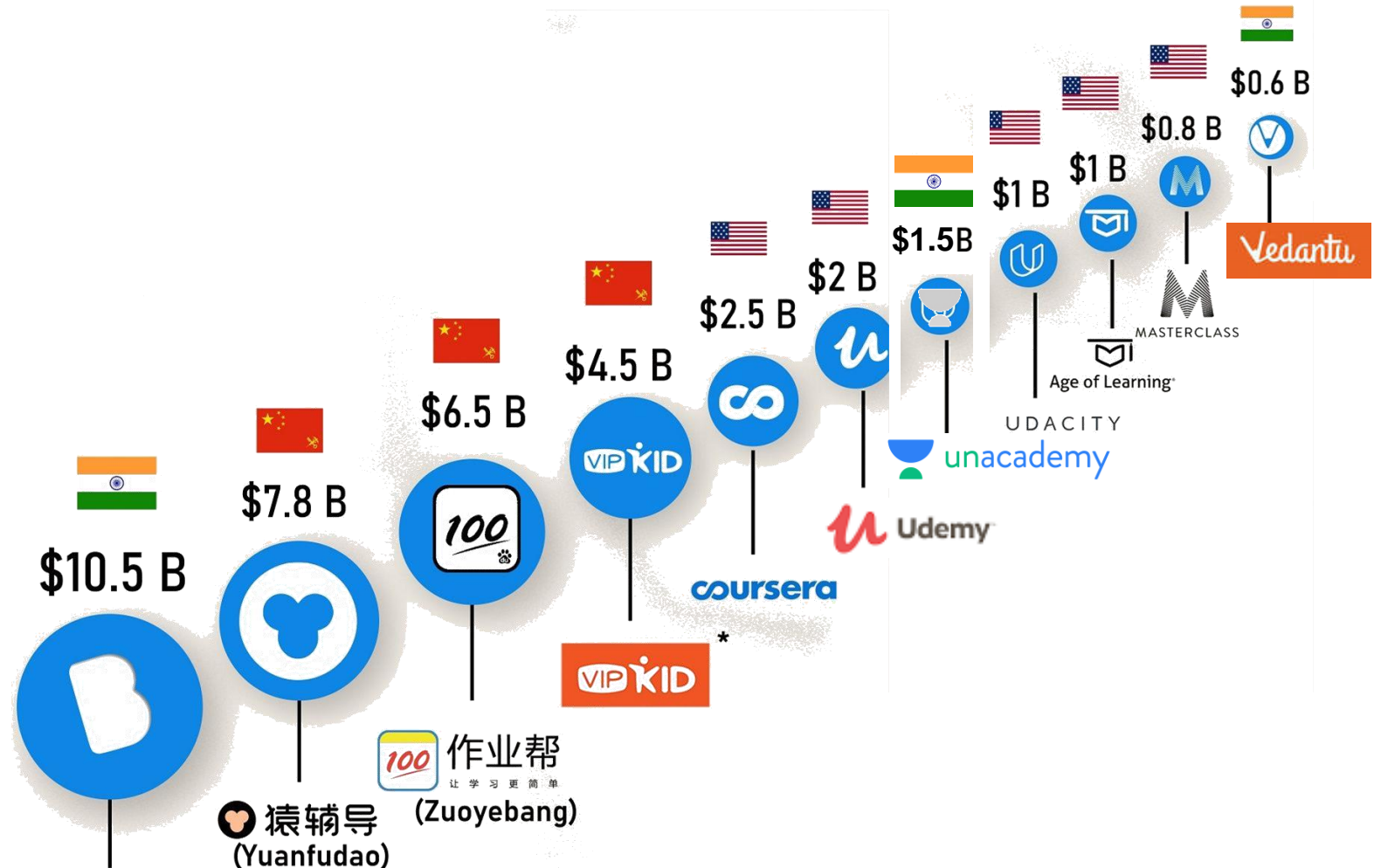
Leading the EdTech Revolution: India



India is home to the World's most valued EdTech Startups



EdTech has become the most funded sector in India in 2020



Source: Finshots.in / Crunchbase



- Move to Virtual Classes helping schools and colleges to ensure learning is not interrupted – no matter what

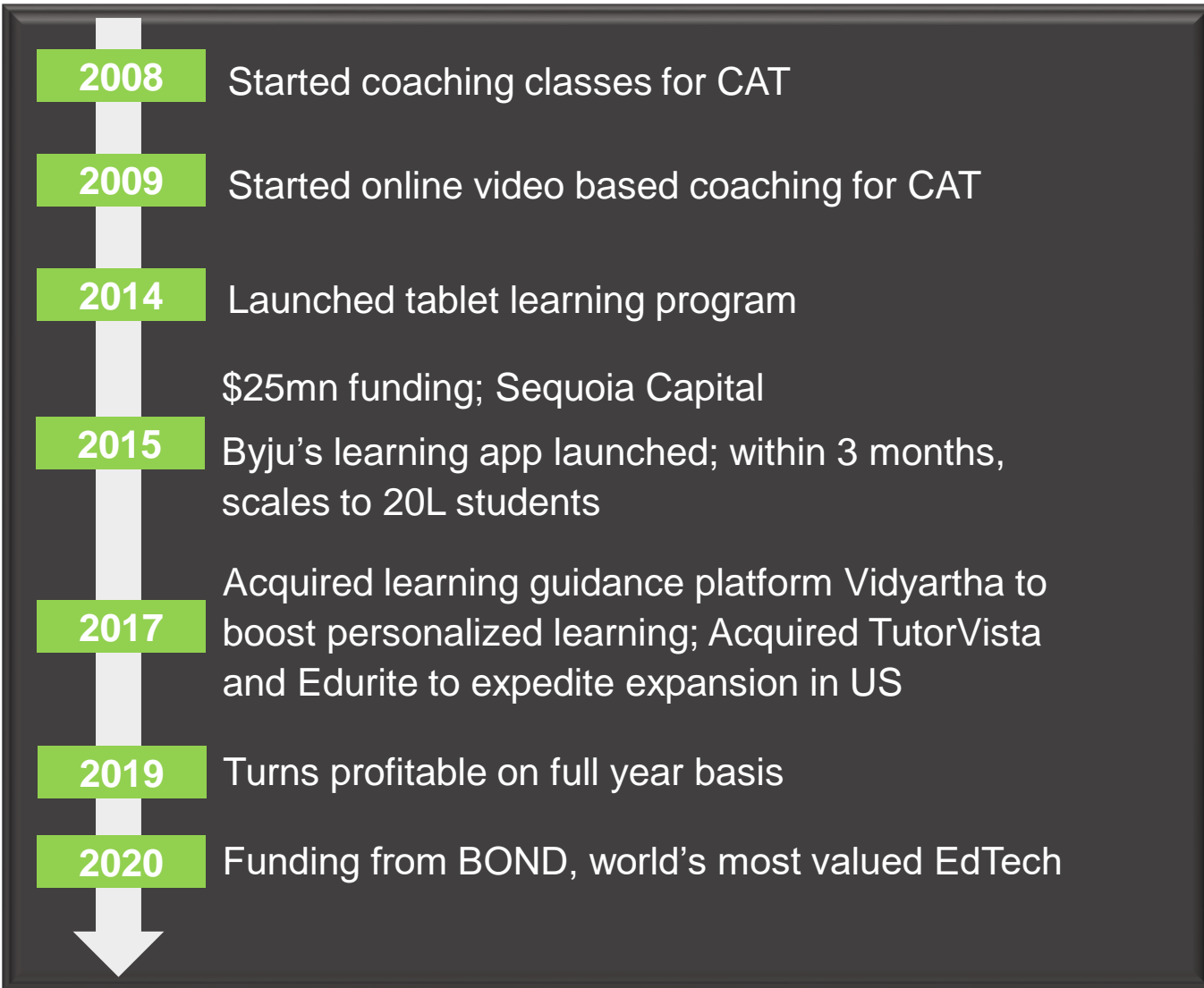


Penetration into Bharat

- Gained ground beyond India's top 10 cities.
- Adoption increased in smaller cities – for educational institutes
- Edtech startups from non-metro locations like Bhopal, Kochi, Surat, Chandigarh, and Ahmedabad scaled up and secured funding in H1 2020.



“..Learning never stops”



~ US\$ 10.5 bn

Last reported valuation of Byju's



INR 2,800 Crs.

Revenue FY19-20



13.5 million

New users added in March and April'20



50 million

Total users on the platform

“The real fun is not in creating a multibillion-dollar company but in changing the way millions think and learn.” – Byju Raveendran, Co-Founder BYJU'S

Demonetization → **Fintech**

COVID → **eCommerce**



US\$ 200 bn

Expected size of eCommerce in India by 2026.

Ecommerce has spread across categories, with, and most of the players cutting across categories.



Everything, everywhere at anytime!



Groceries

Fashion

Foodtech

Furniture

Medicine

Travel



~ **US\$ 3.6 bn**

Last reported
valuation of Swiggy

**45-49million
order deliveries**

December 2019
delivery volumes

450 cities

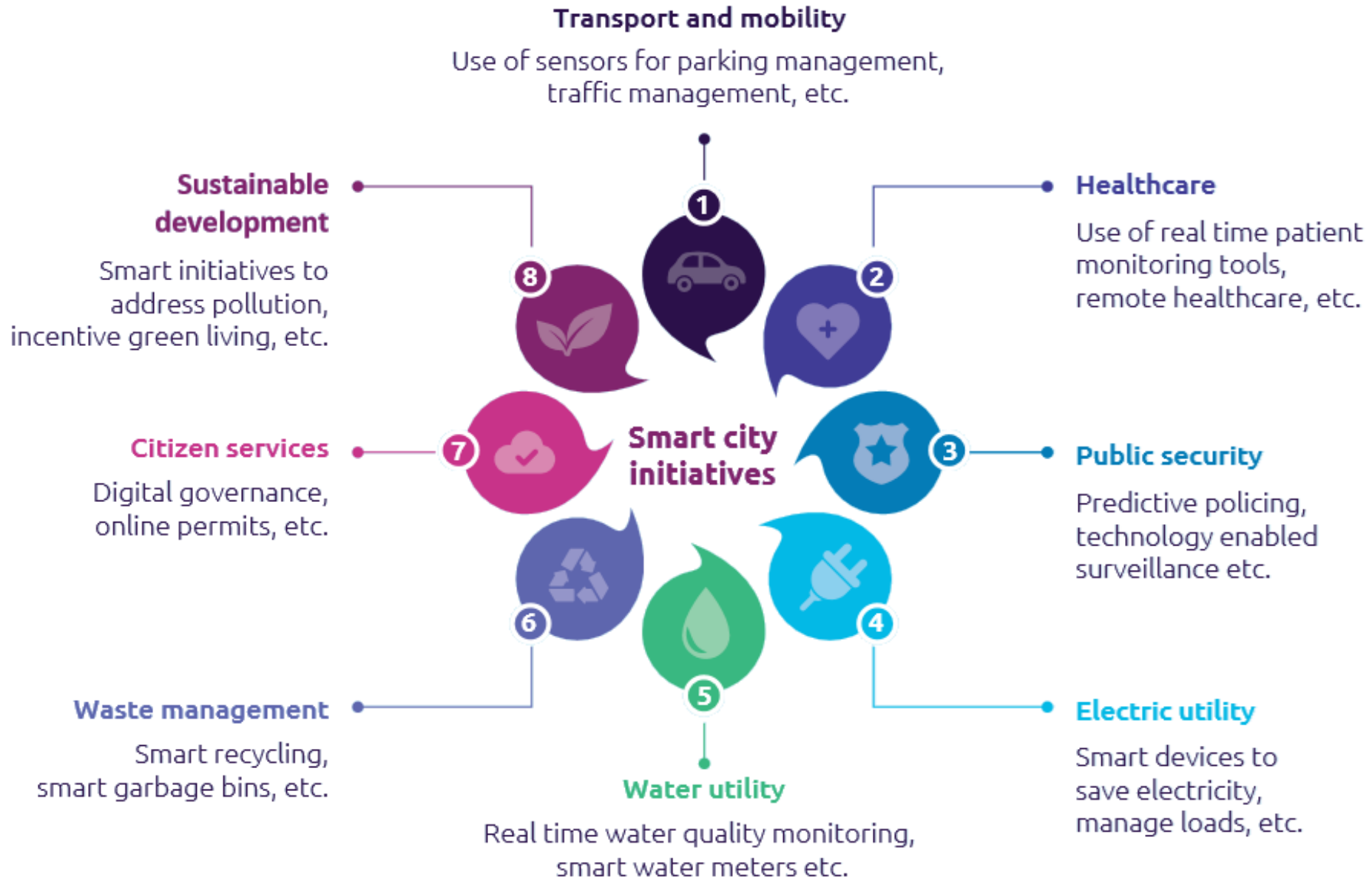
More than 450 cities
served

Dealing with Covid – Innovative solutions

- ✓ Partnered with ~100 hotels and premium restaurants – increased order value
- ✓ Average order value rose 25-30%

Lifeline to Restaurants and small businesses

- ✓ With covid lockdown, restaurants, especially small eateries faced shutdown
- ✓ These small players can not afford their own delivery solutions
- ✓ Swiggy (FoodTech) ensured business sustained for such players



Digital India: Government leading by Example



To improve e-governance by help from citizen engagement



~126.18 Crore Aadhar Cards generated so far

To target ~6 Cr households in rural India to bridge the digital divide



Storing soft copies of Govt. IDs for identification

Mudra Loans: Supporting development of micro enterprise sector using Digital Banking



Jan Dhan: To handhold citizens in adopting digital payments and bank accounts

40 Crs.

Accounts opened under JanDhan Scheme

INR 1.3L Crs.

Total deposits in JanDhan Bank Accounts

>50%

Holders of the JanDhan Accounts are Women

INR 20k Crs.

Amount received by 20Cr women JanDhan Account holders under COVID Relief Package

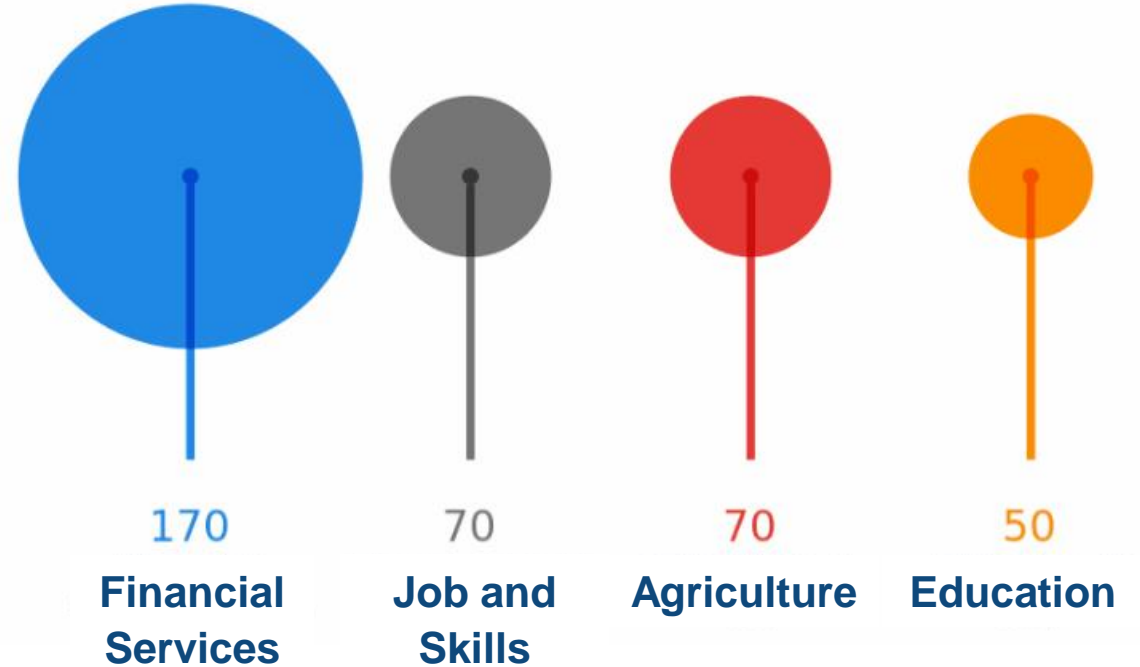
Newly Digitizing Sectors to see significant value creation

**\$435
Bn**

Potential growth opportunity
in Digital Space for Indian
Economy

**65
Mn**

Potential new jobs, created from the
direct and indirect impact of
productivity-boosting digital
applications



“In this Digital Age, we have an opportunity to transform lives of people in ways that was hard to imagine just a couple of decades ago” – Hon’ble PM Sh Narendra Modi

Innovation needs to be utilized with Responsibility

Nuclear Energy



???

Every innovation can have negative repercussions, it's important to use them responsibly to create a sustainable society in a long term.



Electronic gadgets access to kids

???



New age transportation / vehicles

???

Thank You

“All times are good times for those who know how to work and have the tools to do so.”

– Mr. Mukesh D. Ambani