

How India is going to make itself Self-Reliant wrt growing IoT demand? 18 June, 2020 | Arpit Chhabra

Outline

IoT Building Blocks

IoT Market in India

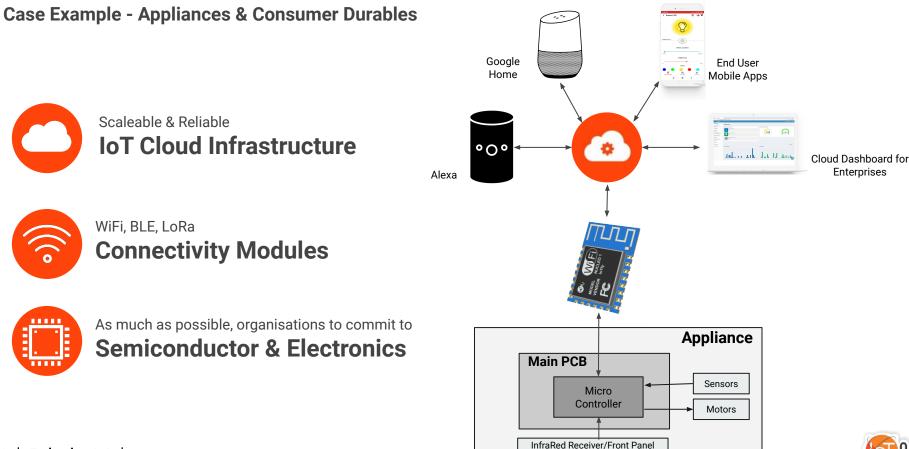
Semiconductors & Components

Cloud Infrastructure

Connectivity Modules

Summary

IoT Building Blocks



Buttons



IoT Market in India

Massive Opportunity

loT in India now is not a thing of the future, it is growing and thriving right in front of our eyes.

From Smart appliances to Smart Energy metering, from Industry 4.0 to Smart vehicles, IoT powered products are touching our lives on a daily basis.

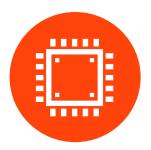
Estimated market size of IoT is set to reach **USD 20 Billion** by 2024.





Semiconductors and Electronics components

Present Day Landscape & Road to Self Reliance



India**Technology**Week

Home 2020

- Industry that has more or less accepted the status quo, regarding their reliance on imports from countries such as China, Taiwan, Korea, etc
- The dependence is so massive that our entire supply chain crippled and disrupted during the COVID-19 lockdowns
- Challenge that India faces is that there are no domestic alternatives to manufacturing semiconductors and such electronics components
- In the last decade, two failed attempts to set up semiconductor fabrication units (HSMC & Jaiprakash Associates backed)

Right Policy Framework from Gol

Encourage Capital Investment & create

Collaboration for Tech Transfer



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More funds for existing schemes

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Cloud Infrastructure

Present Day Landscape & Road to Self Reliance



ndia**Technology**Week

India's cloud infrastructure market is highly fragmented

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- Global players like Amazon, Google, Microsoft and IBM left a very limited space for domestic players
- Most Indian IoT companies are relying upon Amazon Web Services, Google Cloud Platform or Microsoft Azure for the cloud infrastructure part.
- Moreover, with the duopoly of Amazon Alexa and Google Home in the Voice Assistant market, the IoT developers anyways develop an inclination towards their parent companies.

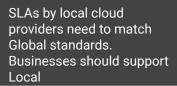
Policy for Domestic Cloud Players

Can take certain cues from China, and create a level playing field policy

Focus on Data Localization

Cloud Infra and Data Localization paradigms need to seen together

Support Local Cloud Players





Connectivity Modules

Present Day Landscape & Road to Self Reliance



- Connectivity modules for WiFi, BLE, LoRa, UWB, GSM, etc are essential for IoT solution - Majorly imported
- Challenge is that the factories of the world have already achieved economies of scale
- Dometic alternative from India may succumb to the cost-competitiveness offered by the foreign manufacturers. Support for Local is required.
- loTfy is an example. We developed first #MadeInIndia WiFi Modules

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Rationalization of Custom Duty

Gol needs to make necessary changes to Duty structure to create level playing field

Assurance to Buy Local

Economies of Scale can only be achieved if companies commit to buy LOCAL

Focus on RF Test Facilities

RF Testing and Certification facilities needs to be developed

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Summary

Making IoT industry in India "AtmaNirbhar" is a huge opportunity and challenge at the same time and we should start treading the path today.



Right Policy Framework & Incentives **Government Support**



Major Focus On Building & Nurturing Local Ecosystem



As much as possible, organisations to commit to **Domestic Purchases**







Thank You

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