



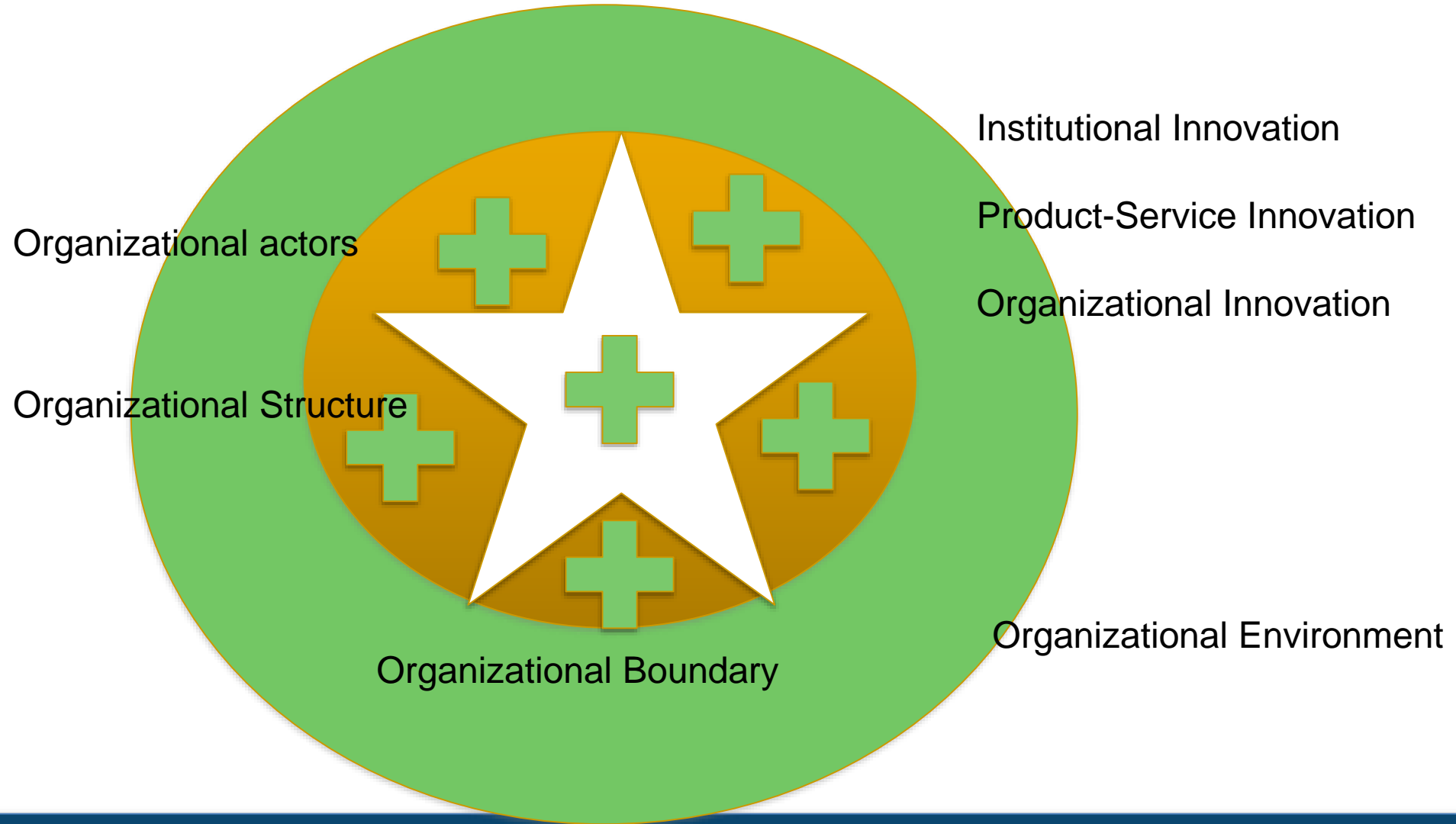
FLAME
UNIVERSITY

Open Innovation

Anirudh Agrawal
Associate Professor
FLAME UNIVERSITY

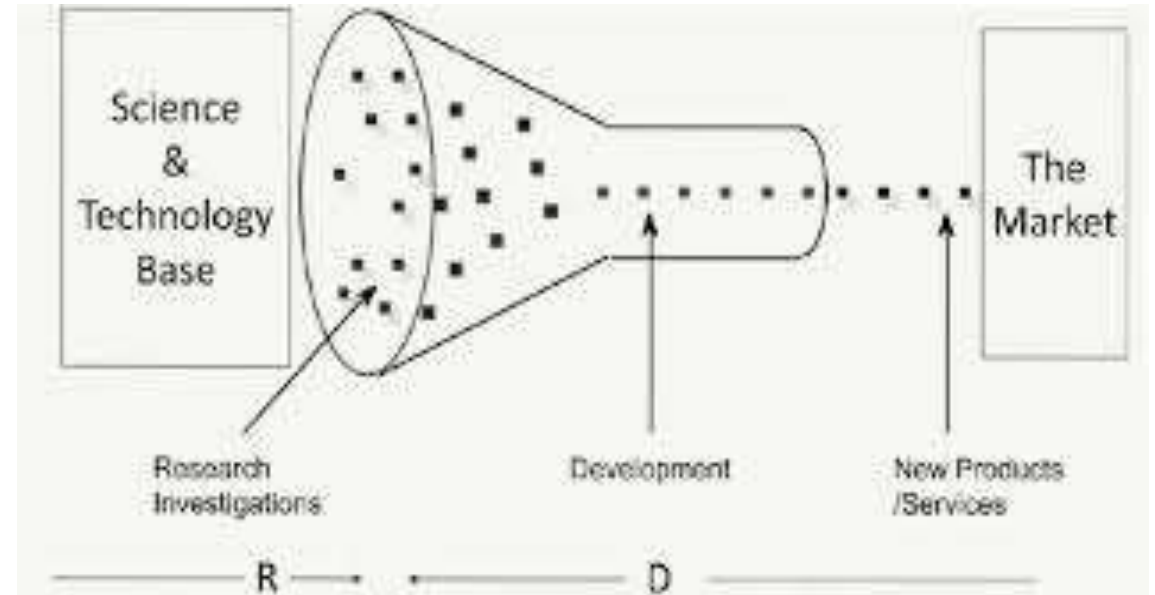
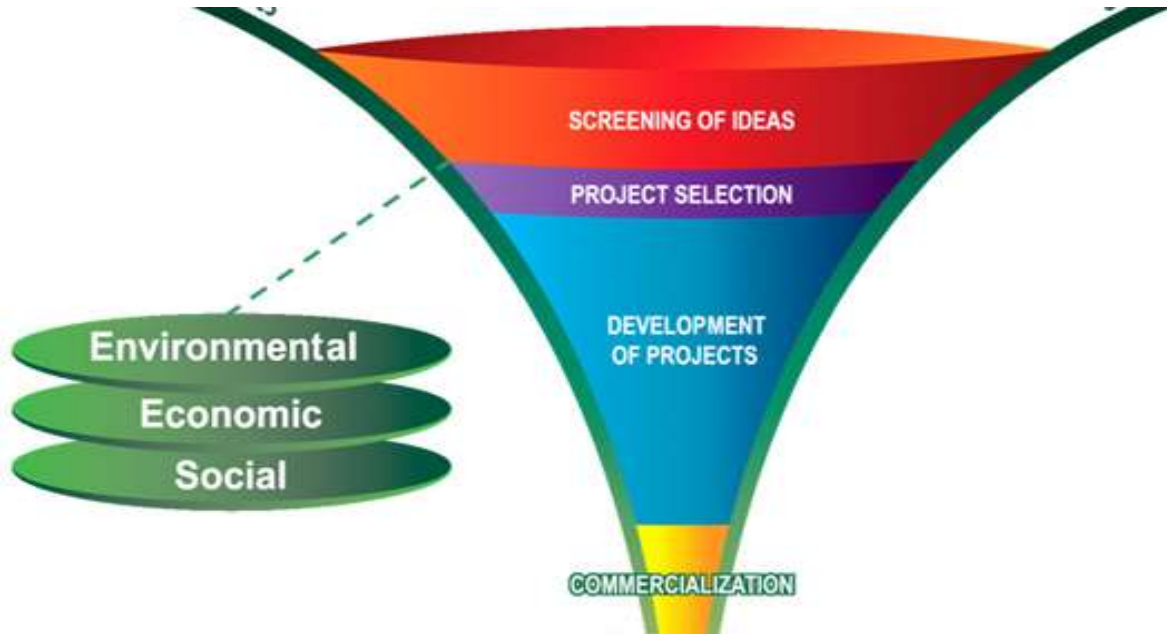
Igniting Minds.

What is Innovation?

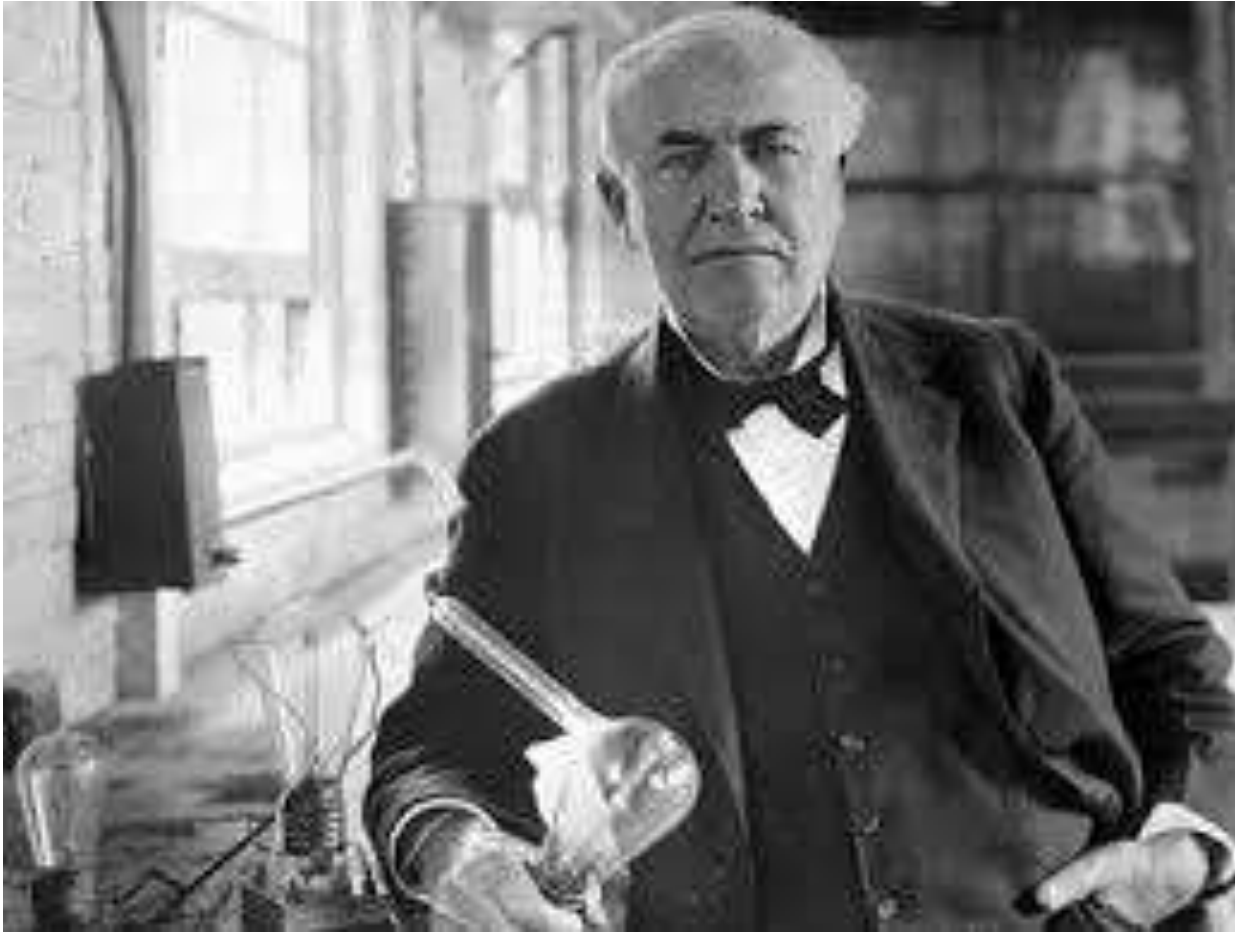


What is closed Innovation?

- Elitist Activity, Entitled Activity
- Schumperters' view
 - Systems or architects of Production houses hold the keys of Innovation



From the Presentation of Prof Henry Chesbrough UC Berkeley, Open Innovation: Renewing Growth from Industrial R&D, 10th Annual Innovation Convergence, Minneapolis Sept 27, 2004



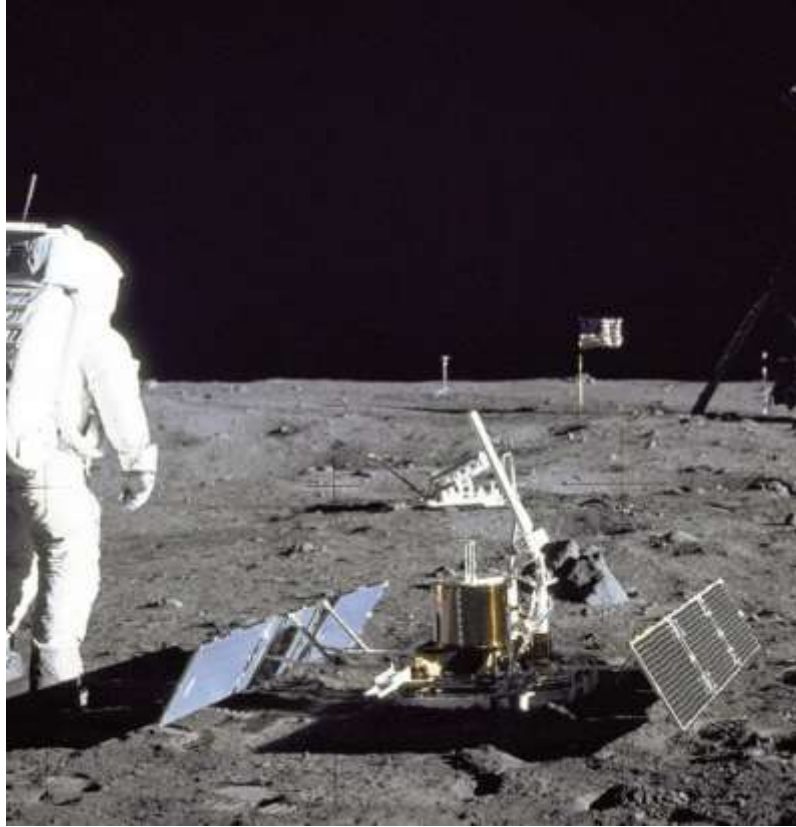
Source: Edison; Biography.com;



Source: Richard StallMan; Wikipedia

Boeing 747 vs Wright Brothers





Apollo Moon Missions vs Amateurs

Why only NASA can create space-craft?



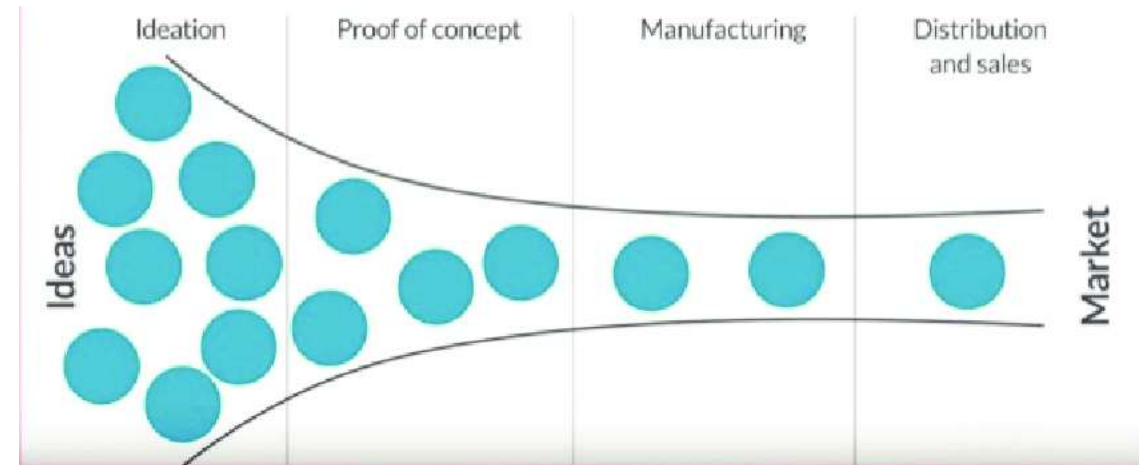
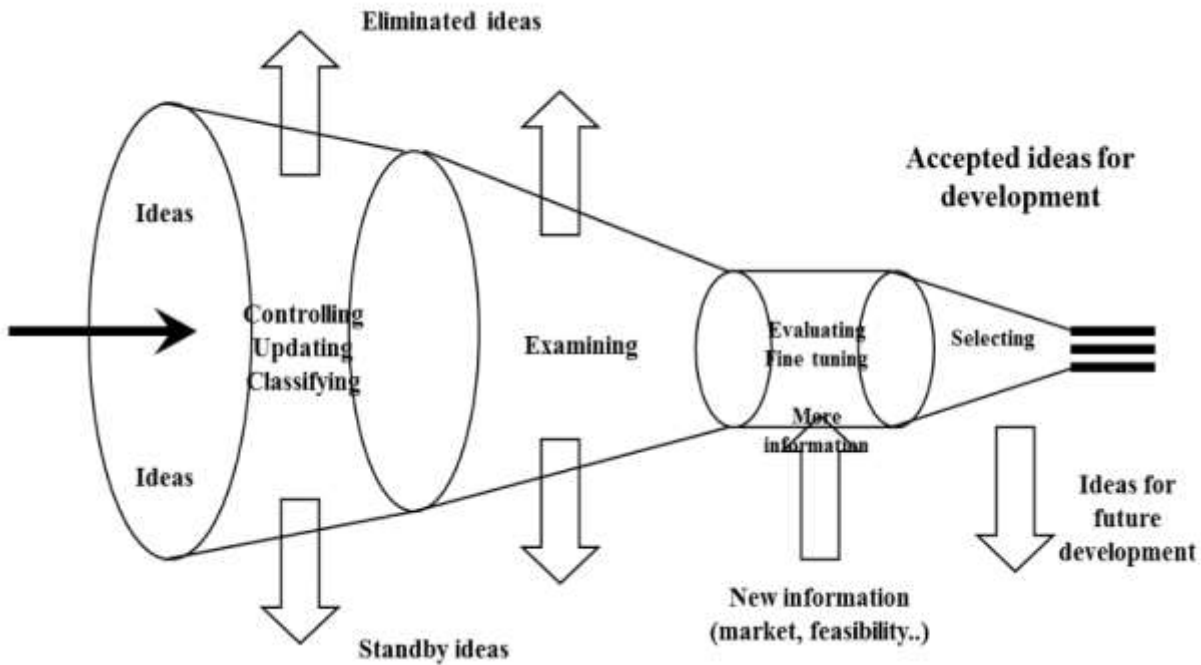
Ivory Tower Vs Youtube/Udemy/Coursera



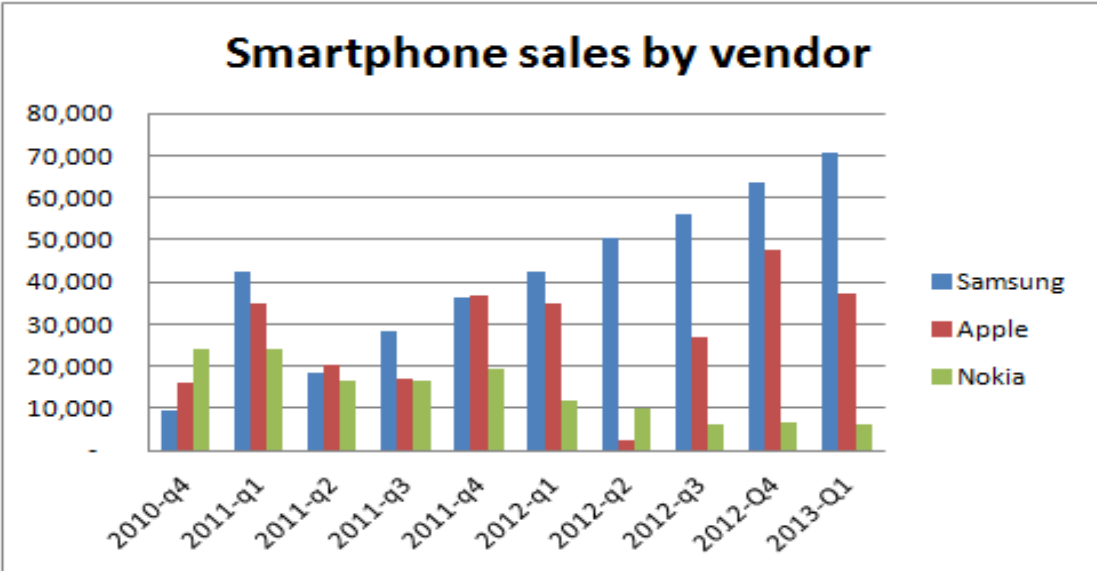
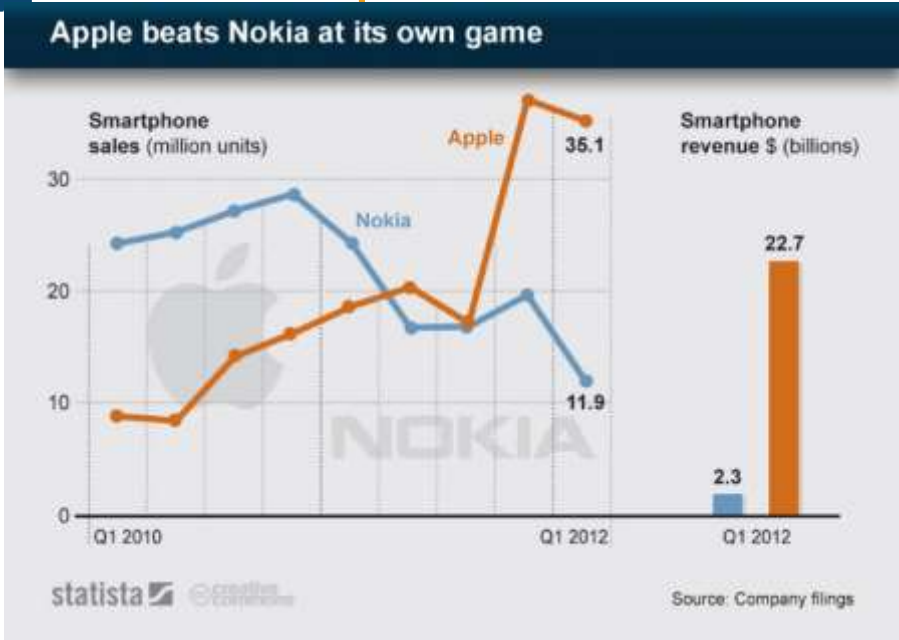
What is Open Innovation?

- “Paradigm that assumes that firms can and should use external ideas as well as internal ideas, and internal and external paths to market, as the firms look to advance their technology” (Wikipedia-Open Innovation)
- “Maximizing return on investment through actively exploiting external ideas and knowledge and internal ideas and knowledge” (Henry Chesbrough)
- “Economically important innovations are developed by users and other agents who divide up the tasks and costs of innovation development and then freely reveal their results to the public” (Eric Von Hippel)

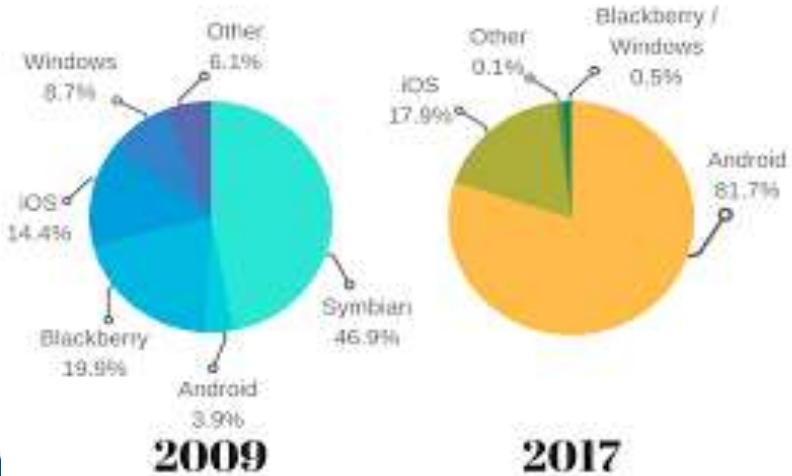
Open Innovation



Nokia Vs APPLE Vs ANDROID



<https://appinstitute.com/android-vs-iphone/>



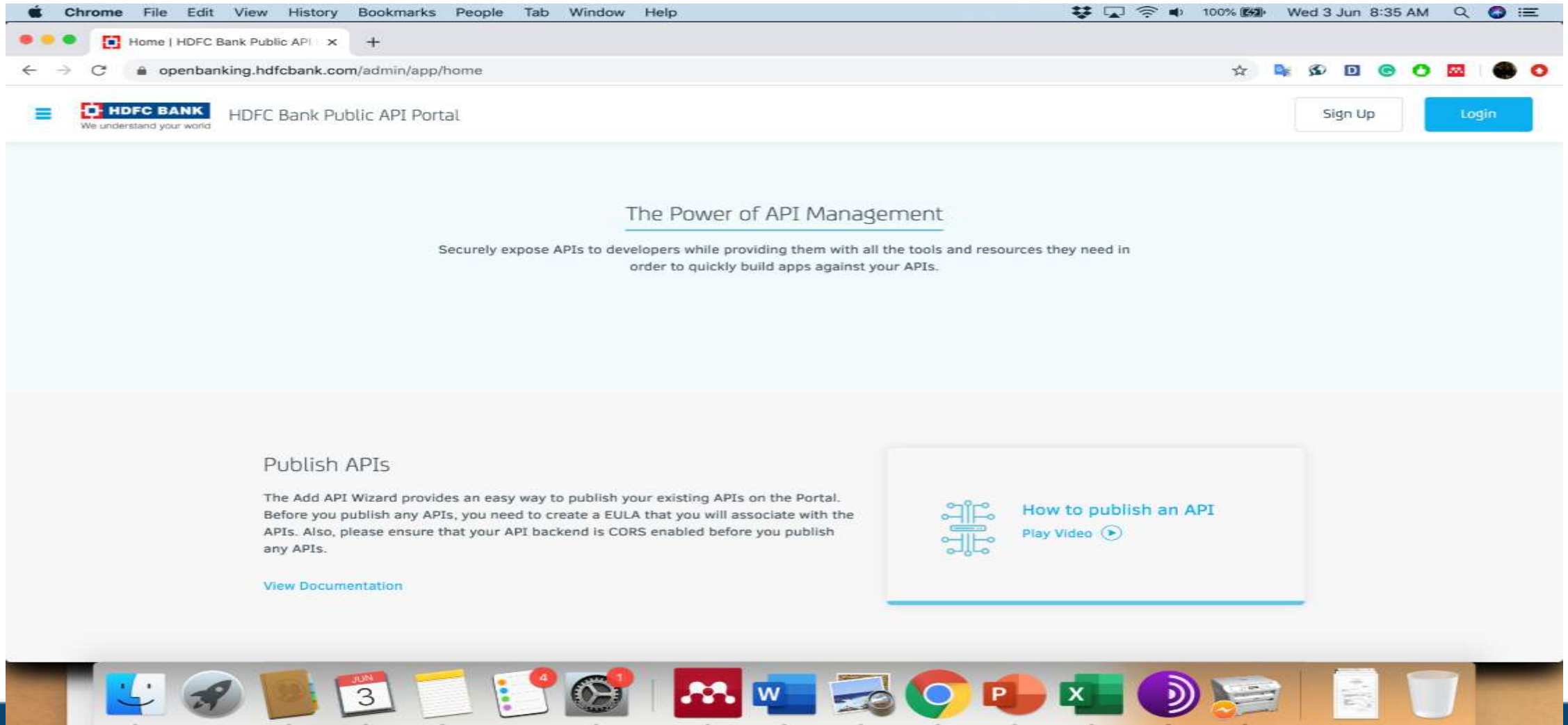
INDIA STACK

| | What is it? | What is in it? | Who is the owner? | |
|-------------|----------------------------|--|---------------------------------------|--|
| India Stack | Consent layer | A modern privacy data sharing framework | Open personal data store | Reserve Bank of India |
| | Cashless layer | An electronic interoperable payment network | IMPS, AEPS, APB, UPI | National Payments Corporation of India |
| | Paperless layer | Easily store and retrieve information digitally | Aadhaar e-KYC, e-Sign, Digital Locker | Department of Electronics and Information Technology |
| | Presence-less layer | Unique digital biometric identity with open API access | Aadhaar card, mobile Aadhaar | Unique Identification Authority of India |



Source: India Stack

Open Innovation in Banking Sector



The screenshot shows a web browser window displaying the HDFC Bank Public API Portal. The browser's address bar shows the URL `openbanking.hdfcbank.com/admin/app/home`. The page header includes the HDFC Bank logo and the text "HDFC Bank Public API Portal", along with "Sign Up" and "Login" buttons. The main content area features the heading "The Power of API Management" and a sub-heading "Securely expose APIs to developers while providing them with all the tools and resources they need in order to quickly build apps against your APIs." Below this, there is a section titled "Publish APIs" with a paragraph explaining the "Add API Wizard" and a link to "View Documentation". To the right, there is a video player titled "How to publish an API" with a "Play Video" button.

Chrome File Edit View History Bookmarks People Tab Window Help Wed 3 Jun 8:35 AM

Home | HDFC Bank Public API | x +

openbanking.hdfcbank.com/admin/app/home

HDFC BANK We understand your world HDFC Bank Public API Portal Sign Up Login


The Power of API Management

Securely expose APIs to developers while providing them with all the tools and resources they need in order to quickly build apps against your APIs.

Publish APIs

The Add API Wizard provides an easy way to publish your existing APIs on the Portal. Before you publish any APIs, you need to create a EULA that you will associate with the APIs. Also, please ensure that your API backend is CORS enabled before you publish any APIs.

[View Documentation](#)

 **How to publish an API**
[Play Video](#)

Leaders using Open Innovation Strategy

Help us to help you

my GOV मेरी सरकार

Govt Launches 'Aarogya Setu App'

a Bluetooth-based COVID-19 Tracker

The app will alert users if they come in proximity to an infected person

Inform users about best practices & relevant medical advisories

The App is privacy-first by design & available in Android & iOS

The App has highly scalable architecture & is available in 11 languages

With Aarogya Setu, you can protect yourself, your family and friends, and help our country in the effort to fight COVID-19

If we are safe, India is safe.

Register Now

Narendra Modi

NEWS

PM review Vidyalaya

June 09th, 2015

PM: Adop to augme

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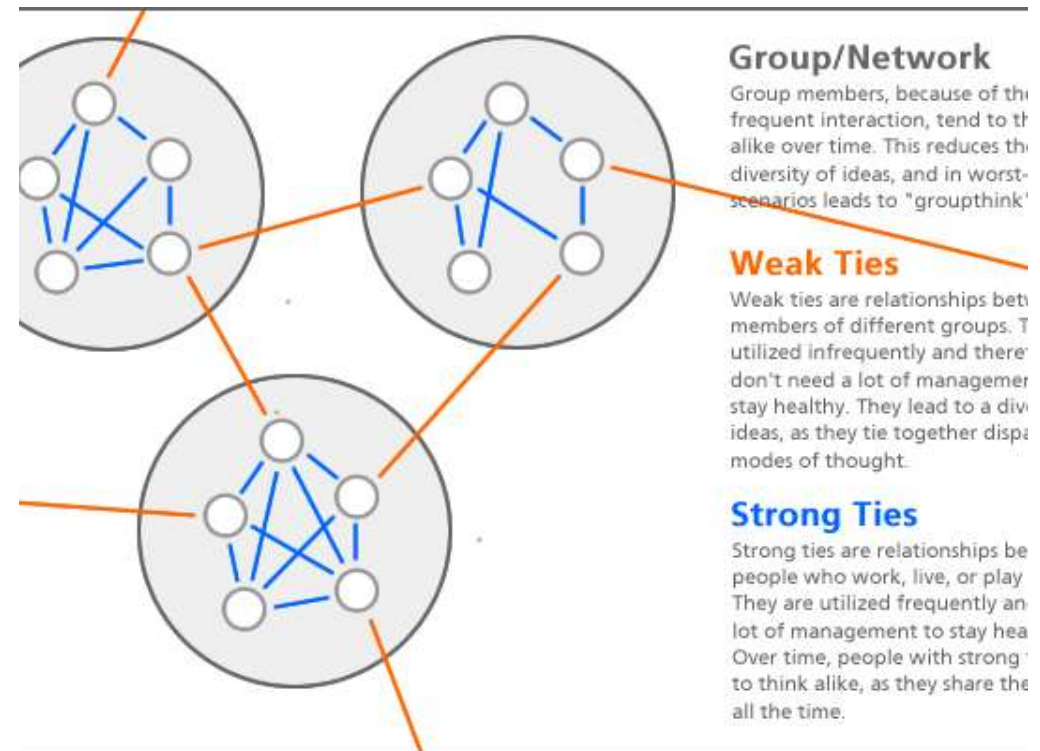
BLO

SPEECH

INTERVIEW

What is the justification? > Theory of Weak Ties

- What is it? And Who proposed it?
- “**Weak tie theory** is the proposition that acquaintances are likely to be more influential than close friends, particularly in social networks. **Weak tie theory** derives from Nick **Granovetter's 1973 article** "The Strength of **Weak Ties**," which was about the spread of information through social networks”
- Its application in Innovation and Open Innovation Example:
 - Wikipedia
 - X-Prize foundation
 - Android



Open Innovation for India

- Focus on Developing Greater Research programs between Industries and Universities
- Focus on developing market towards accepting newer innovations
- Greater autonomy at the district and state level for procurement
- Developing open platforms for ensuring that best and most innovative idea gets the funding
- Opening Military innovation (very important)
- Opening Healthcare Innovation, specially on the product side
- NIF by Prof. Anil Gupta
- More Innovation competitions at the school and college level, inviting newer ideas and setting higher stakes (through platforms)
- Hackathons

INDIA UP 5 SLOTS IN GLOBAL INNOVATION INDEX



Outlook of Open Innovation

