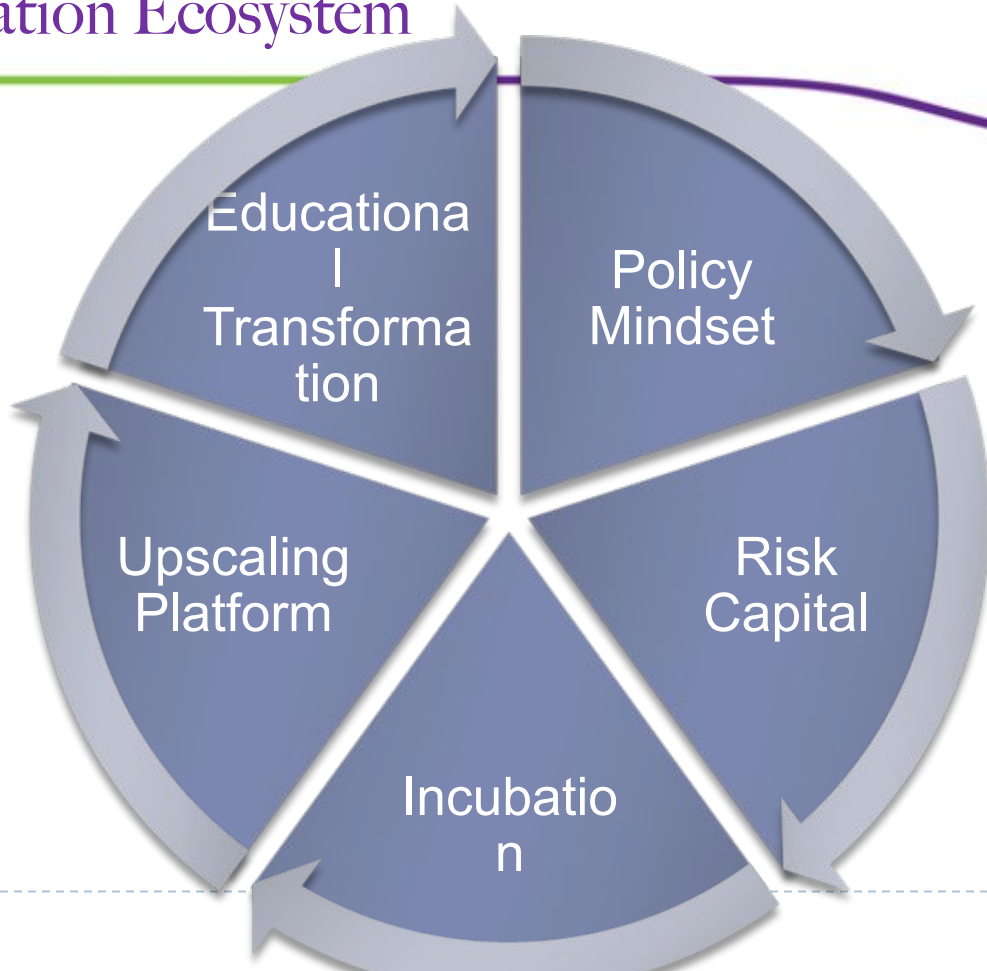জনগণের দোরগোড়ায় সেবা
Service @ Doorsteps

From Policy to Start-ups: Guiding Innovation Dynamics

Anir Chowdhury, Policy Advisor
a2i, Prime Minister's Office

WSIS Innovation Thematic Workshop, ITU, Geneva
June 12, 2017

Govt's Biggest Contribution to Nurturing an Innovation Ecosystem

Shaping Policy Mindset for Innovation

- Context
  - Innovation can reduce TCV of services, promote jobs and accelerate growth
  - Need not only new skills but also new approaches, new thinking

- 6 paradigm shifts for inclusive innovation
  1. <u>Role-reversal:</u> Services go to citizens
  2. <u>No big-bang</u>: Bottom-up and iterative development
  3. <u>Death to silo</u>: Whole-of-government and whole-of-society
  4. <u>End of subsidies</u>: Business model and PPP
  5. <u>Govpreneurship</u>: Failure is OK
  6. <u>Leverage instinct</u>: Compete for excellence

TCV Studies Show Significant TCV Reduction by Mostly Underserved Communities

Health	Utilities	Education
Agriculture	Livestock	Licenses
Land	Safety Nets	Tickets

Saved in 2016

1 B Man days

US$ 1.51 B

400 M visit

Projection for 2021
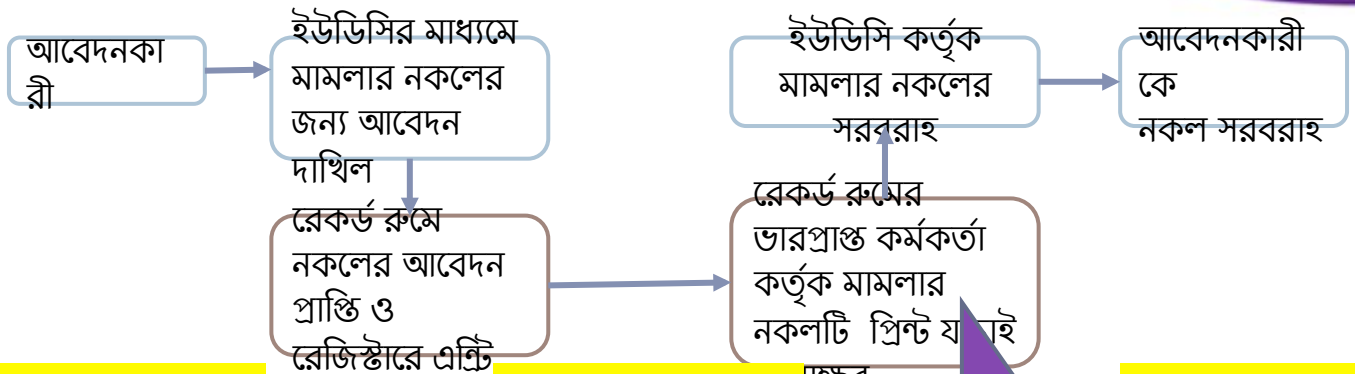
8 B Man days

US$ 11.51 B

3 B visit

Power of Simplification:
Previous Process for Getting Land Records

T = 7+ days
C = USD 63
V = 40 km x 2-3 times

Power of Simplification:
Process AFTER Access from Digital Centre: Reducing TCV and Reducing Corruption

আবেদনকারী → ইউডিসির মাধ্যমে মামলার নকলের জন্য আবেদন দাখিল → রেকর্ড রুমে নকলের আবেদন প্রাপ্তি ও রেজিস্টারে এন্ট্রি → রেকর্ড রুমের ভারপ্রাপ্ত কর্মকর্তা কর্তৃক মামলার নকলটি প্রিন্ট যাচাই স্বাক্ষর → ইউডিসি কর্তৃক মামলার নকলের সরবরাহ → আবেদনকারী কে নকল সরবরাহ

T = 7+ days
C = USD 63
V = 40 km x 2-3 times

→ Digitize →

T = 10 hours
C = USD 19
V = 40 km x 1 time

→ Simplify & Decentralize To 5,000 Digital Centres →

T = 1 hour
C = USD 4
V = Walking distance

- SPS and TCV Toolkits
- Empathy Training
- Simplification Policy

Startup Challenges

1. IP valuation poorly done or not done
2. Different types of investors don't exist
   ▸ Angel, VC, scale-up
3. Technologists don't understand markets and branding
4. Investors can't mentor
5. Ease of doing business is low
6. Education system doesn't promote entrepreneurship
7. Most importantly, ecosystem is poorly understood let alone built

▸

Improving Ease of Doing Business through G2B Portal

Encourage Failures for Breakthrough Thinking: Risk Capital through Service Innovation Fund

Farmer's Window helping agri extension workers more quickly & accurately diagnose crop diseases

Locally Created low-cost 3D Printer printing prosthetic limbs. Eva picking up something first

iLab Providing Incubation

- ▸ Remote ECG
- ▸ Centralized Nebulizer
- ▸ Fuel from Plastics
- ▸ Solar-powered mobile shop for self-employment
- ▸ Low-cost ambulance for rural patients
- ▸ Tele-diagnostics device

Private Sector Incubators/Accelerators

- Co-working space/ Accelerators Used:

Tech Startups 24%

Non-tech Startups 15%

- Top 2 reasons for incubation
  - *Networking with potential Investors/ clients*
  - *Access to mentors*

Service Upscaling Platform:
5,000+ Digital Centres through PPP

10,000+ entrepreneurs

110+ services

5 million+ citizens/

- Government services
- Innovative Financial Products
- 'Assisted' Rural e-Commerce

2014

- Whole-of-government
- Micro-entrepreneurship

21st Century Skills

Empowering Teachers
Through online STEM content and peer-learning

Model Content focusing science, social Science and Math to engage more in project-based learning

Communication : Collaboration : Co-creation hub

171,500+ teachers learning from each other
120,000+ content (60% content by rural teachers)
Organic growth of interactive learning for millions of students

Konnect – Engage Students: Learning by Doing and Learning through Fun

- Solve scientific problems with low-cost materials
- STEM books, movies and documentaries
- Comics: full of scientific knowledge, Mathematics, project ideas and fun

STEM Kit Box

পাঠ্যবইয়ে উল্লেখিত অধিকাংশ পরীক্ষণের প্রয়োজনীয় সরঞ্জামাদি।

20,000 Schools; 6 M Students
Ensure access to materials and tools for STEM practice in classroom

STEM Festivals:
Popularizing Science, Math and Innovation

Intl. Math Olympiad

4 Silver Medals
17 Bronze Medals
Target Gold by 2018

Intl. Science Olympiad

3 Silver Medals
4 Bronze Medals

Solve problems for your country

Solve-a-Thon

5000+ Proposals
192 Mentored
11 Winners

Emerging as 'Knowledge Contributor' in Public Service Innovation through South-South Cooperation

Prime Minster convened side-event during 2016 UNGA in NYC

a2i co-organized Side Event at Global South-South Development Expo 2016 in Dubai

Thanks

"If at first an idea does not sound absurd, then there is no hope for it."

- Albert Einstein