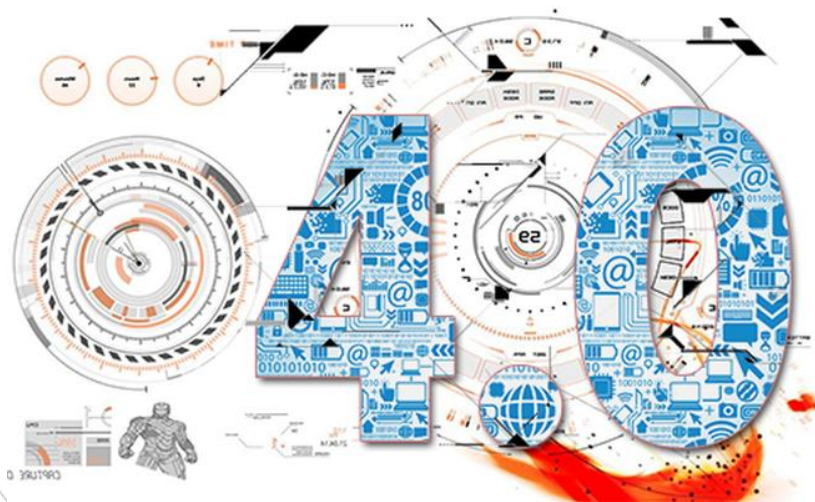
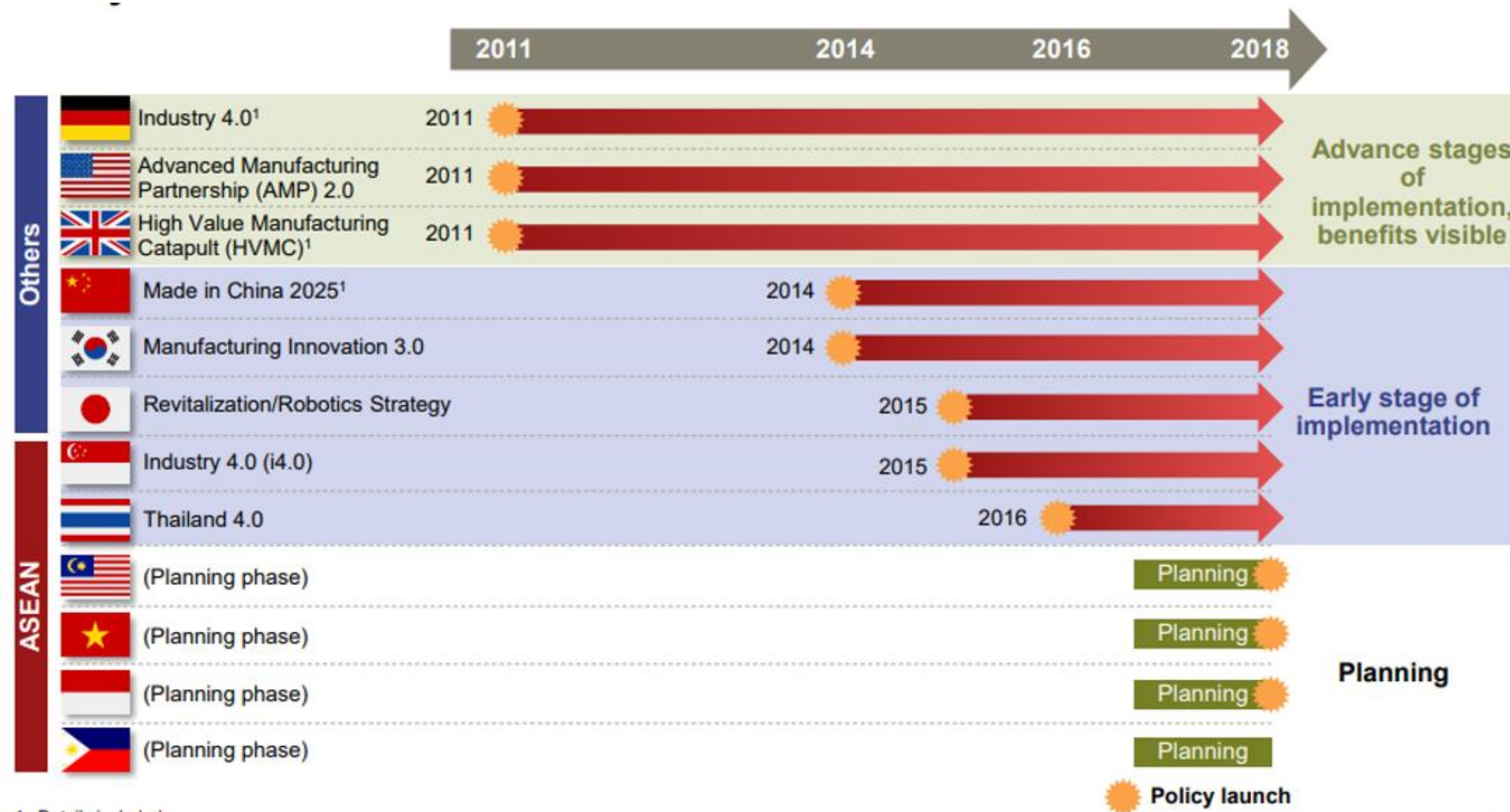


EVALUATION ON VIETNAM'S READINESS FOR THE FOURTH INDUSTRIAL REVOLUTION



Chu Ngoc Anh
Minister of Science and Technology



1. Details included
 Source: A.T. Kearney, press research

Japan's Growth Strategy

Comprehensive Strategy on Science, Technology and Innovation 2016 (May)

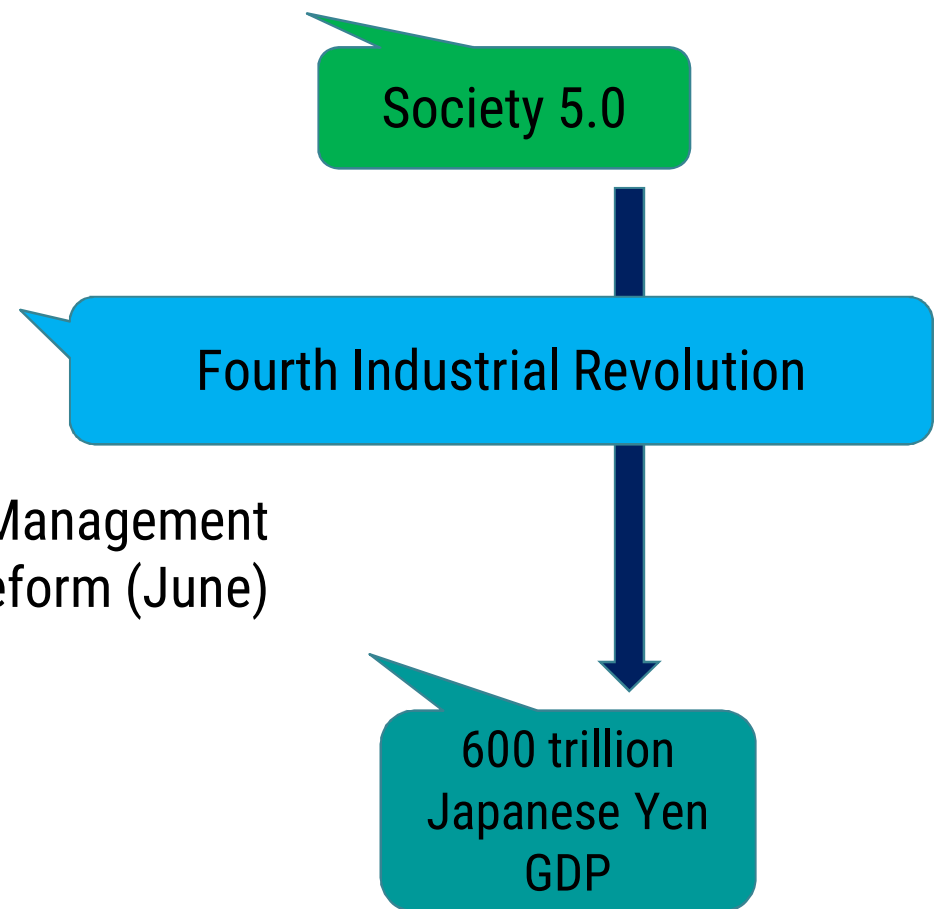
- The Council for Science, Technology and Innovation

Japan Revitalization Strategy 2016 (June)

- Council for Industrial Competitiveness

Basic Policy on Economic and Fiscal Management and Reform (June)

- Council on Economic and Fiscal Policy





Industry 4.0
Technology
Showcase



INDUSTRY 4.0 TESTLABS
Australia



Transformation Catalyst



Innovation Platform

THAILAND 10 Year Goals

1. Competitiveness

Thailand will place in the top 15 of the World Competitiveness Scoreboard

Thailand will place in the top 40 of the ICT Development Index (IDI)

Digital sectors will make at least 25% contribution to GDP.

2. Equal Opportunities

All Thais will have access to broadband Internet, as a basic utility.

3. Human Capital

All Thais will be digitally literate.

Digital Thailand

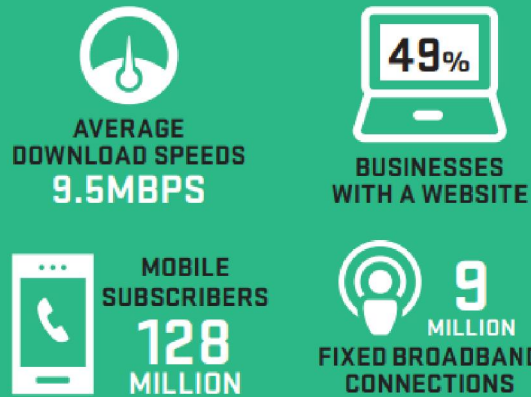
4. Government Reform

Thailand will place in the top 50 of the UN e-Government rankings

Where is Vietnam?



VIETNAM'S DIGITAL ECONOMY AT A GLANCE



BUSINESSES IN THE ICT SECTOR
24,501

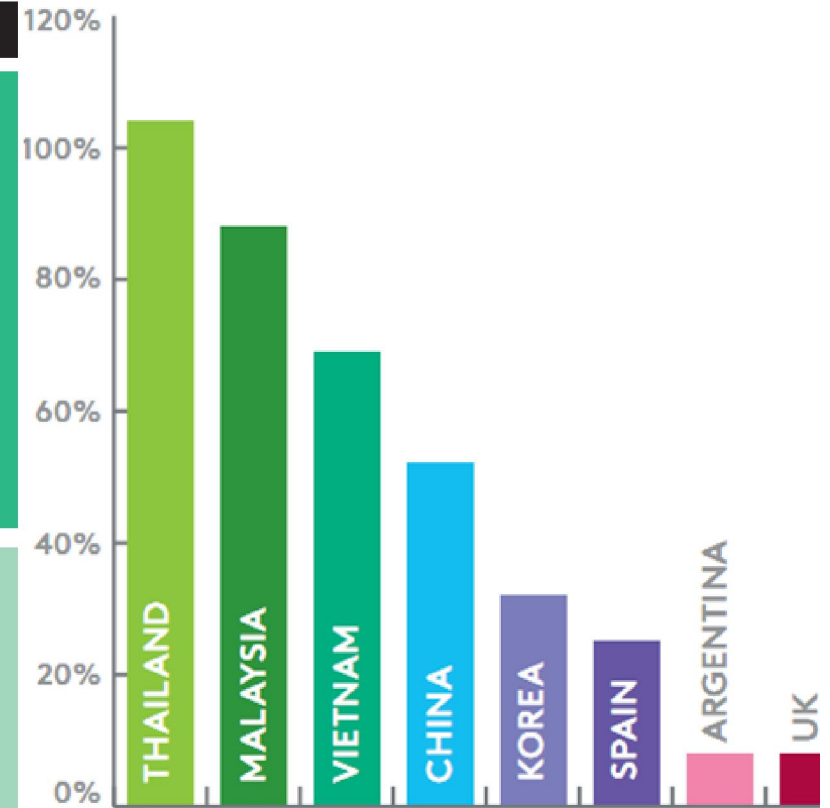
EMPLOYED IN IT
780,925

IT GRADUATES
305,601

IT INDUSTRY REVENUES
\$US 67.6 BILLION

TOTAL IT EXPORTS
\$US60.8 BILLION

TELECOMMUNICATIONS INDUSTRY TURNOVER
\$US 6.2 BILLION



Nguồn : Kantar Worldpanel—52 weeks ending March 2017

Vietnam is in the top 3 fastest growing e-commerce market in the world with a growth rate of 69%

Evaluation of
readiness for
Industrial 4.0



Documents and Resolutions of the Party: Documents of the Party Congress XII, Resolution No. 05 on renewal of growth model, etc

Resolution
No. 36a
E-Gov

Resolution
No. 19
Improvement
of business
environment

S&T Strategy

Industry
Strategy

ICT Strategy

High Tech
based
Agriculture
Policies

Renewable
Energy
strategy

(...)

Directive No.16/CT-TTg on Enhancing the Access Capacity to the Fourth Industrial Revolution

IT Infrastructure

Business environment

S & T and Innovation

Startup Ecosystem

Human Resource

- Politburo Resolution on I.R. 4.0
- Government Resolution on Implementing Politburo Resolution on I.R. 4.0
- Report on foresighted scenario of 4.0 on digital economy development
- Vietnam 2035 Innovation Report
- 4.0 S&T program
- iTrithucViet
- National 4.0 strategy

Information – Communications Technology Infrastructure



Hãy nói theo cách của bạn



40.000 4G broadcast station



90% Population coverage



9.5 Mbps - average download speed



128 million mobile subscribers



6.2 billion USD Telecommunication revenues



24.501 IT business



780.925 IT manpower



305.601



67.6 billion USD IT revenues

91%

Group 2 goods under the authority of the Ministry of Science and Technology are transferred to post-inspection



58.3%

Products to be checked before customs clearance



Government streamline

12 days

Clearance time



2 days



50%

Business investment conditions



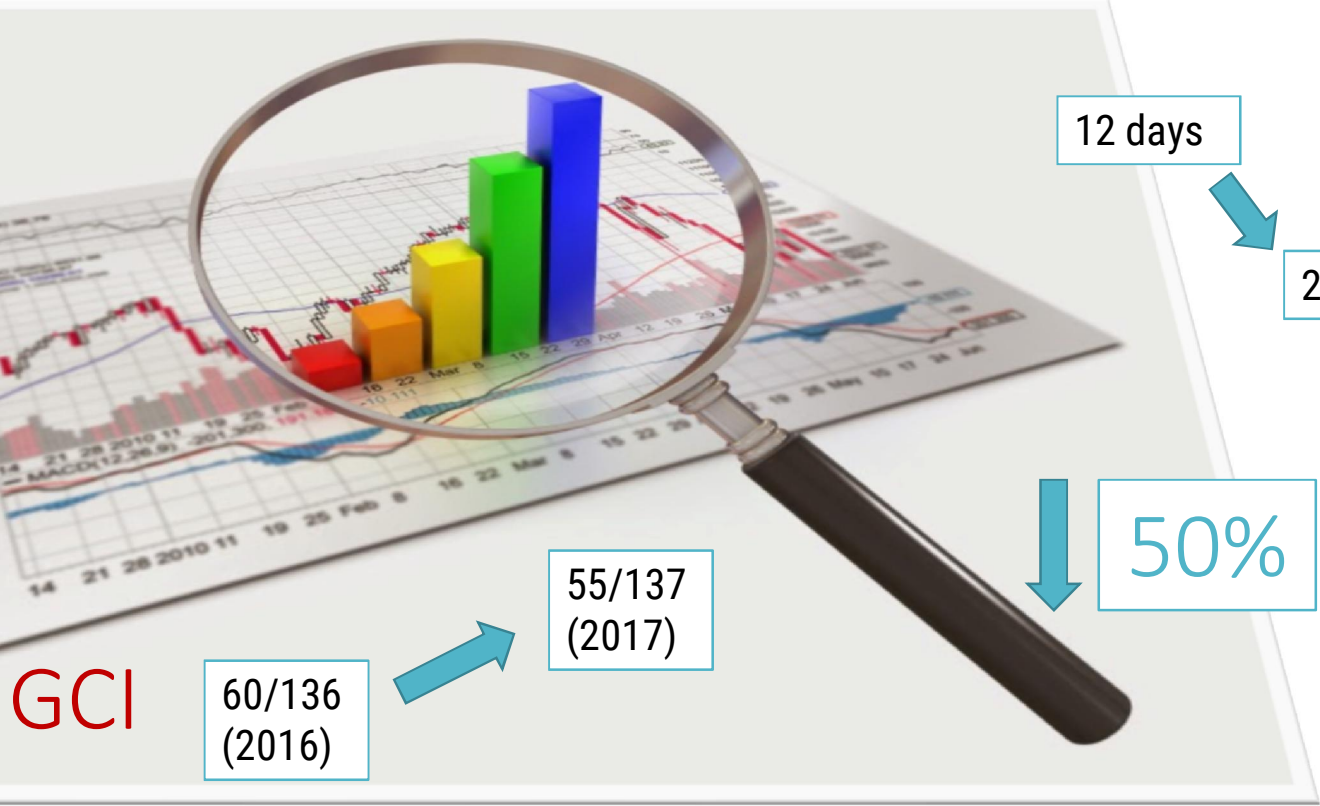
Development of E-Government

GCI

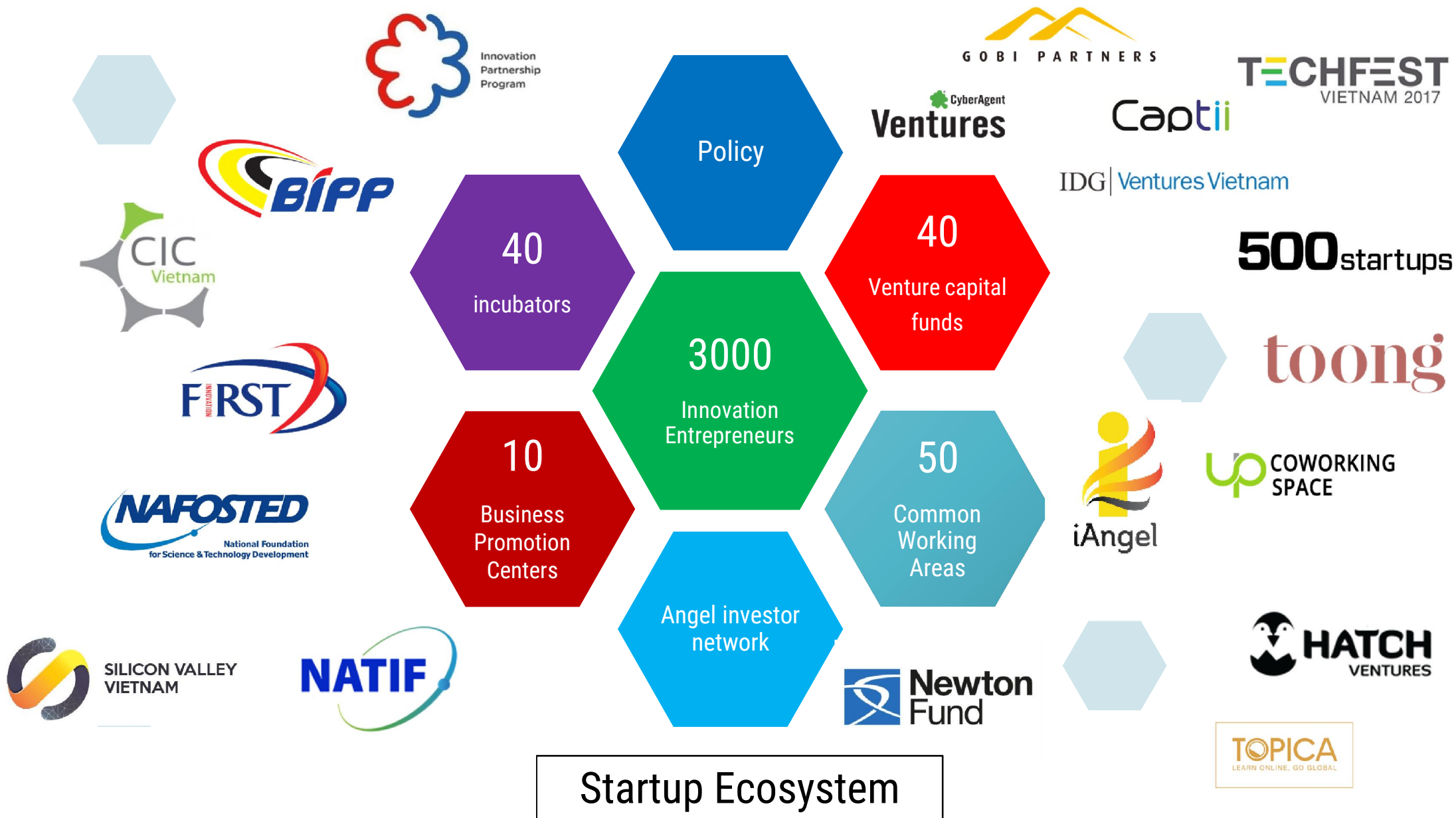
60/136 (2016)



55/137 (2017)



Improvement of business environment

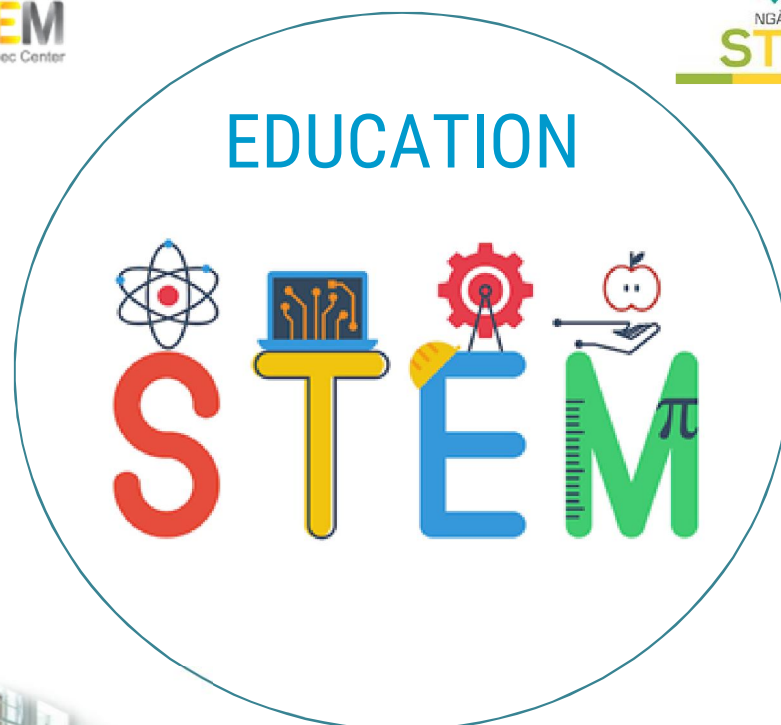




63 cities, provinces



Yearly



Vocational education aims to create human resources capable of accessing new production technology trends



Human Resource Training





cash2vn



123pay™

F88
TÀI CHÍNH CÁ NHÂN

Zalo Pay

OnePAY

timo
ĐẾN TỪ VPBank



Banks' Preparation for I.R. 4.0



76% IT labor attration



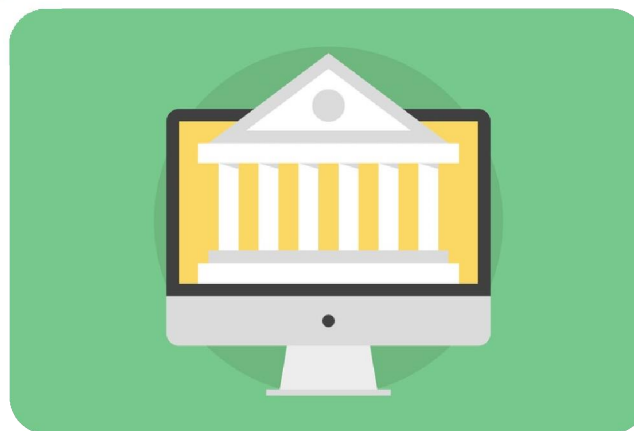
92% investment in technology innovation



92% development of sales through digital channels



44% rearrangement of branches , transaction offices



78

Fintech companies
operating in Viet Nam



8

billion USD – Vietnam's
market size in 2020



100%

Banks with intention
of cooperating with
Fintech



Vietcombank



NGÂN HÀNG TMCP ĐẦU TƯ VÀ PHÁT TRIỂN VIỆT NAM



TPBank



Agricultural Hi-tech Parks



2017: 36 billion USD
2018: 41 billion USD
(estimated)



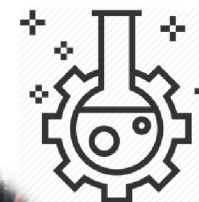
3D printing



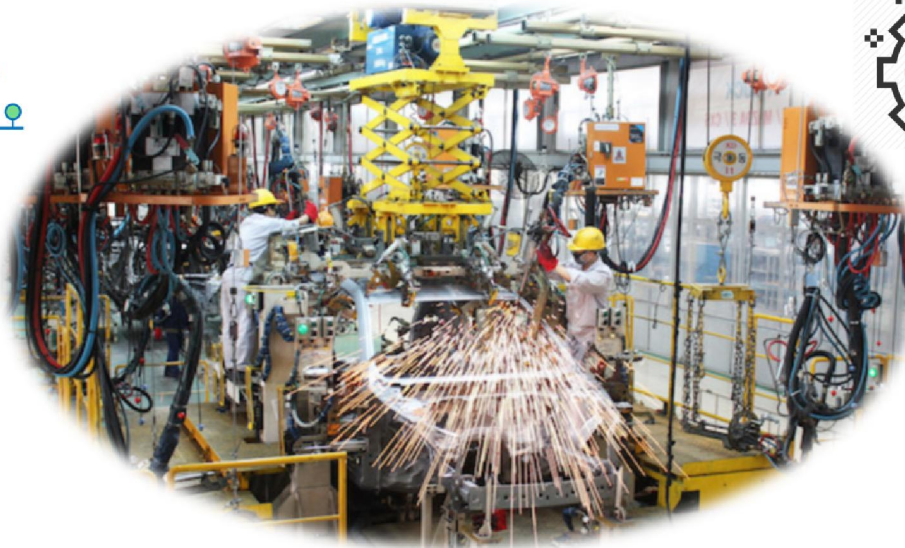
Robot



SAMSUNG

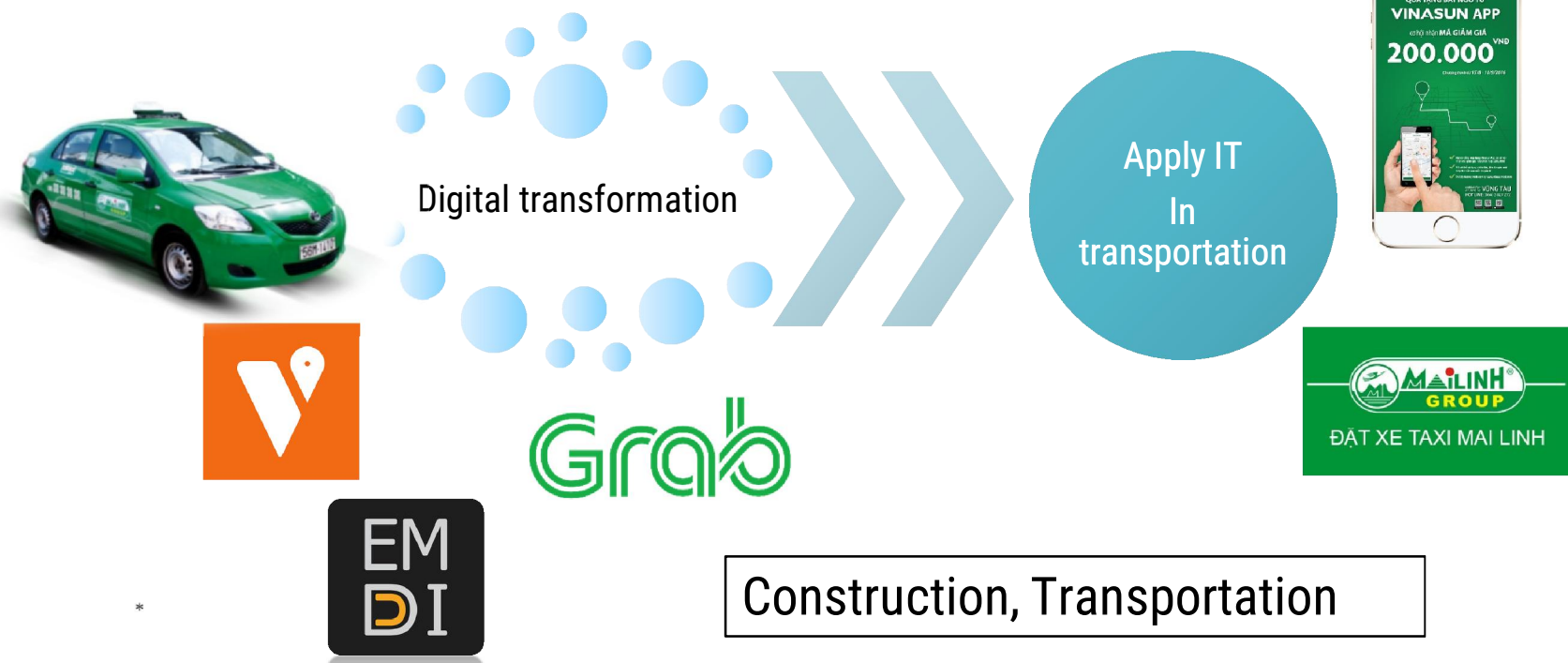


Research, apply new technologies



Hightech parks





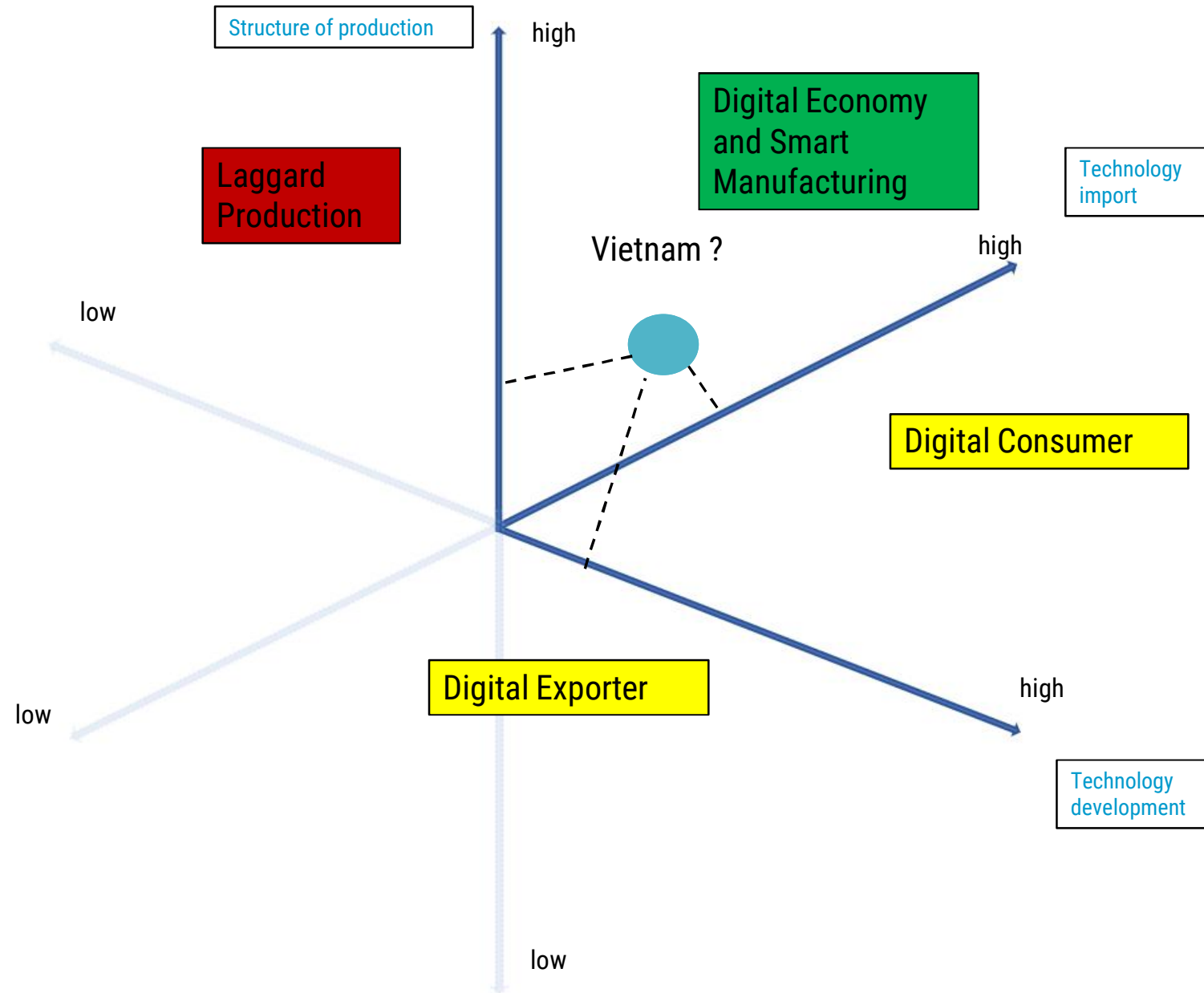


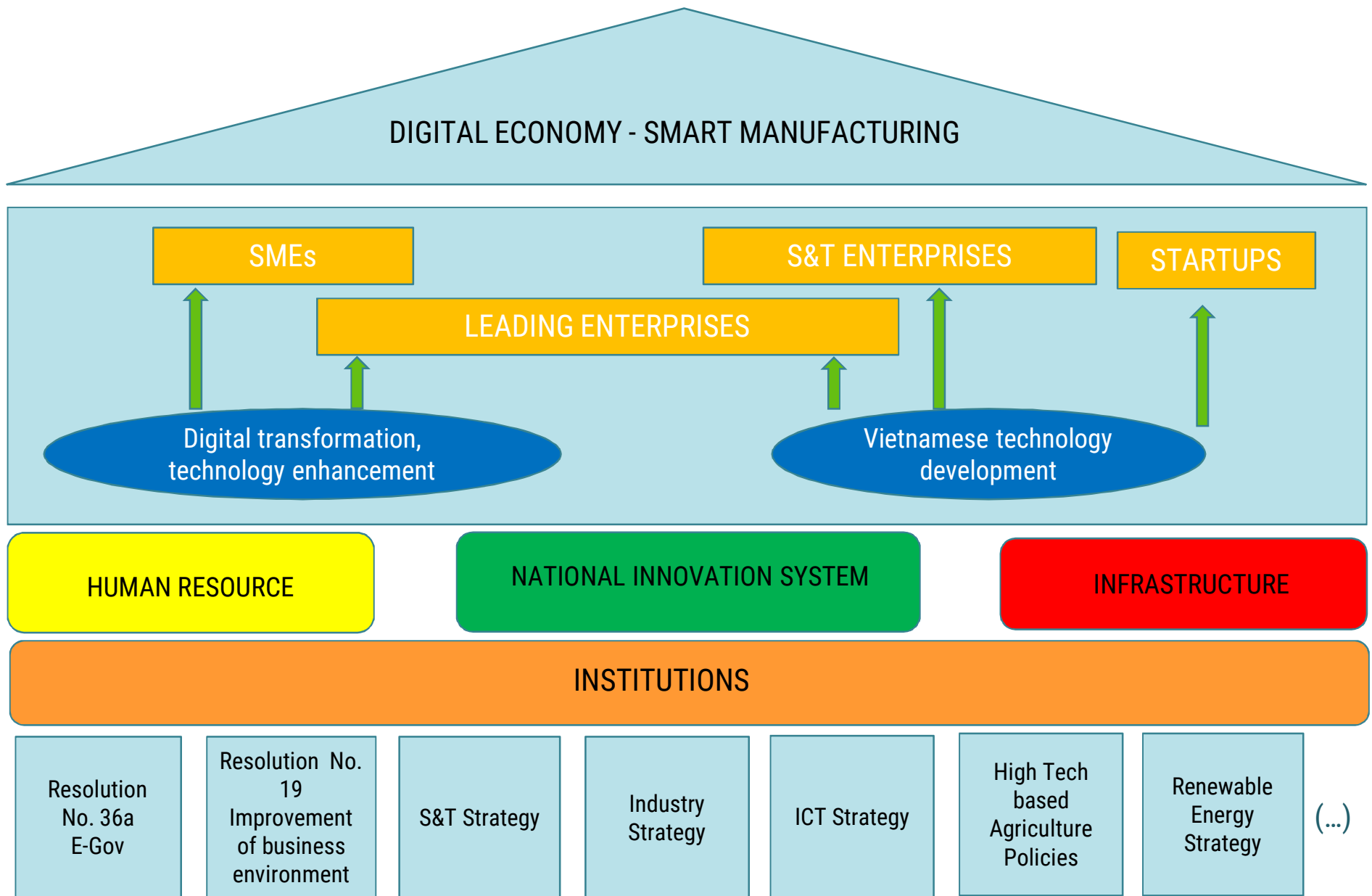
Health, Tourism



Development scenarios

Vietnam has many advantages to utilize the opportunities of the Fourth I.R. such as young population, information - communication technology development, favorable geographic location





Proposal

1. Institutions

- Continue to improve the competitive business environment.
- Implement the Regulatory Sandbox.

2. Human resources

- Improve educational policies and content.

3. Infrastructure

- Promote the development of IT in the country, with the main pillars of IT infrastructure.
- Promote the development of IT, telecommunication technologies.
- Promote the development of data centers national wide.

4. National Innovation System

- Encourage enterprises to invest on science, technology and innovation.
- Specific solutions to raise the enterprises capability to absorb and develop technology.
- Develop test labs.
- Improve venture capital investment and divestment policies.

THANK YOU!