

Key Note Speech:

The 4<sup>TH</sup> Industrial Revolution and Capacity Development  
through Digital Government

by

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1.

Good Morning!

Participants, distinguished guests, respectable Minister of the Interior and Safety Mr. Kim Boo Kyum, Undersecretary General for Economic and Social Affairs Mr. Liu Zhenmin, Head of UNPOG Mr. Chung Jae Gun, and ladies and gentlemen, it is my great pleasure to have this opportunity to share my view on capacity development in the age of the 4<sup>th</sup> Industrial Revolution.

My name is Ahn Moon Suk, professor emeritus of Korea University. Currently I am co-chairing (with Minister Kim) the Korean e-government promotion committee for the Ministry of the Interior and Safety.

At this moment, I'd like to congratulate Mr. Chung Jae Gun, Head of UNPOG for his excellent preparation and management of this symposium.

2.

As a scholar, I was fortunate to live in Korea.  
I experienced agricultural society, industrial society, and information society all together in my life time.  
It was a blessing to scholar like me.

Korea was a loser in industrial society because we neglected the wave that front technologies created.  
But Korea became the winner in information society because we prepared well in advance.

3.

Now front technologies such AI, Big Data, IoT, Blockchain, Mobile and etc. are creating new wave called the 4<sup>th</sup> Industrial Revolution.

New empathy society called 'Clonism Society (I named it), in which one person's pains or happiness become all other persons's pains or happiness was born.

4.

Frontier technologies are blessings to human beings.  
But at the same time, they create complex and difficult problems.

It is said that problems should be solved by the creator of

problems.

Since most problems have been created by the frontier tech. the frontier tech. should be used for solving the problems.

It is apparent that the problems of the 4<sup>th</sup> Industrial Revolution age are inherited from Information Society of the 3<sup>rd</sup> Wave.

And the 4<sup>th</sup> Industrial Revolution has unique problems also. For example, Artificial Intelligent Machine is rapidly replacing the traditional human jobs.

In the 4<sup>th</sup> Industrial Revolution age, data become source of wealth.

In the new world, nations that manage well data will lead the world. But monopoly of data becomes problems.

5.

However, technologies alone cannot solve the problems.

We need new governance, new regulation, and new government.

Without proper governance and new government, the frontier tech. cannot be the solution.

Without proper preparation of new governance, the frontier tech. only will be the burden to nation.

6.

What kind of new governance should we build?

New governance for the 4<sup>th</sup> Industrial Revolution should be the governance of Maximization of Happiness.

New governance should be 'the Empathy Governance' in which 'one lost lamb' be cared.

And the new governance should be competent governance that has capability to solve problems smartly.

The new governance should be the governance that reduces pains of people.

The new governance should be the open-data governance.

Sooner or later, Artificial General Intelligence tool will be developed. And the new governance should be 'AI governance'.

7.

The new governance can take root in Smart Digital Government.

Korean government initiated new Digital Government under the leadership of the Interior and Safety Minister Kim Boo Kyum.

It is my great pleasure to introduce some of the features here. Korean Digital Government has many names.

First, it is the Mind–Caring Digital Government.

It will realize the philosophy of Clonism Society in which one person's pains or happiness become all other persons' pains or happiness.

It will realize empathy society in which Government care 'one-lost lamb'.

Second, it is Innovative Problem–Solving Digital Gov.

Government will have problem-solving capability. Government will use Artificial Intelligence for solving problems. And the digital government will use Big Data for finding solution.

Third, it is Sustainable Value–Sharing digital Gov.

Citizens are encouraged to actively participate in creating government services.

Citizens are encouraged to sell those digital services to government.

Government will use citizen-made digital services.

Fourth, it is Reliable Digital Gov.

Government will use Blockchain technology to build transparent and reliable government.

Fifth, it is Enhanced Safety-Keeping Digital Gov.

Big Data, IoT, and AI will be used to prevent natural and human-created disasters.

Sixth, it is Open Data Government.

Public data will be open to public by law.  
In the digital government, government will make it easier for citizens to use public data.  
Use of big data is encouraged.

8.

Smart Digital Government is expected to solve some of the problems of the 4<sup>th</sup> Industrial Revolution.

However, rough roads expect us.

The gap between reality and law should be narrowed, but it is widening.

Frontier technologies should be encouraged in creating new jobs, but interest groups resist fiercely.

Policy making should be made in time, but decision is delayed or swing.

Somehow, we have to find new way to overcome those barriers.

9.

Furthermore, nations should pay attention on more imminent earthly problems like global warming.

Frontier tech. should be encouraged to be used for solving the global problems.

10.

The 4<sup>th</sup> wave, if we prepare well in advance, it will be blessings to us.

However, if we ignore the wave, the wave will become tsunami that will destroy us.

We are here to avoid the disasters.  
We are here to derive human group intelligence to get the benefits of the frontier tech, of the 4<sup>th</sup> wave.

I am sure the smart digital government will provide us the capacity to solve the problems.

Thank you.