

Proposal establishing on AU

# Asian Disaster Response Cooperation Programs

(ADRCC, Asian Disaster Response Control Centre)

**Team: Coming Soon**

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## **. Introduction**

### **A. Definition of the range of Disasters**

In the past, disasters meant various damages caused by earthquakes, droughts, floods, typhoons, epidemics which are incurred by the factors of the nature and out of control of human. However, in the recent, the meaning of disasters covers not only the natural disasters but also the social disasters including fires, oil spills and leaks of gas and radiation which are incurred by people in the world. Furthermore, dramatic changes in the weather like Global warming and pollutions in air, soil and water are also considered as kinds of social disasters, Federal emergency management agency(FEMA), also agreed with the expansion of the range of disasters. They defined disasters as accidents that bring about human and material damages but cannot be controlled through usual management procedure and resources of government.<sup>1</sup>

Disasters can't be divided respectively. Natural disasters are definitely followed by social disasters. The cases of the great east Japan earthquake (2011) and Hurricane Katrina (2005) brought massive oil spill and even massive radiation leak. Furthermore, accumulation of various social disasters eventually affects global environmental changes.<sup>2</sup> In short, disasters have complexity and this complex disasters influence not only the countries directly involved but also nearby countries crossing the border.

### **B. Distinct characteristics of Asia disaster**

The complex disasters mostly have occurred in Asia and the frequency of the disasters has been increasing.<sup>3</sup> This is because Circum-pacific seismic zone and Alps-Himalaya seismic zone, which are the locations that earthquakes and volcanic activities have been happening consistently, affects the most Asian countries. However, except for the natural risky factor, Asia also has potential risky factors that can bring disasters in the end. In Asia, there are various chemical and nuclear plants next to in Asian shore area and environmental pollutions are getting worse due to the rapid industrialization in Southeast Asia. Also, China is one of the main causes that bring sharp increase of disaster in Asia. We can say that these factors are characteristics of Asia disaster.

As you know, Ulsan earthquake(2016) and Gyeongju earthquake(2016) indicate that disasters in Asia are ongoing, and areas that were regarded as safe areas from disasters are not safe anymore. At this point, we should be aware of the seriousness of the cases and take actions to develop the existing organizations for disasters in various Asian countries to more progressive and united organizations which have abilities to deal with the upcoming disaster problems.

### **I. Details of the program**

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<sup>1</sup> 추상민 외, 2014, 「동북아 환경재난 대응 지역협력 방안 연구」 한국환경정책·평가연구원. p.11

<sup>2</sup> 추상민 외(2014) p.33

<sup>3</sup> 추상민 외(2014) p.20

## **A. The Necessity of Asia Disaster Response Program**

As we mentioned in introduction, the disasters which occurred after 90's in Asia have characteristics that they could cause damages to other countries: radioactive effluent, oil spill, etc. For these reasons, we propose the establishment of 'Asia Disaster Response Control Centre (ADRCC)' for preventing catastrophe and response to damages quickly.

## **B. Partners range of ADRCC**

Preferentially, the countries in Northeast Asia and ASEAN mainly participate to ADRCC. Because these areas have relatively severe incidents of disasters and there are nuclear power plants and industrial bases which could cause 'Complex disasters'. But we are aiming that all Asian countries participate to ADRCC when the system of ADRCC is organized stably in the future.

## **C. Specific operational programs of ADRCC**

### **1. Regularly hold conference 'Asia environment monitoring'**

ADRCC will hold conference 'Asia environment monitoring' every 2 years. In the meeting, the members will report unordinary environmental phenomenon observed in their countries and discuss about the environmental policies in order to prevent disasters. The conference place will be selected in order, and representative of member country where the meeting will be held would be the chairman of conference in the year.

### **2. Unify Information sharing system**

Member countries should submit annual report to ADRCC, which covers the information of environmental phenomenon in each country

### **3. Real-time disaster response system based on SNS**

ADRCC will build the 'Real-time disaster response system based on SNS'. When disaster occurs, it will help quickly notify the situations of the disasters to people through SNS (Facebook, twitter, etc.). Furthermore, ADRCC have to connect this system with messenger application utilized most in each country in Asia (LINE, Kakaotalk, etc.) for more efficient response.

### **4. Incentive structure to participate enterprise into ADRCC's system**

Because there are many countries that don't have elaborate technology about disasters, our organization will activate exchanges between enterprises in developed countries in technology about disaster, and others. When we see the example of earthquake, many of countries in Asia, under the risk of earthquake, do not have superior seismic structure systems. In the result, we expect the demand for buildings that have proper seismic structure system will be increased, which will be incentive that activate enterprises at the same time. Our organization will utilize this incentive structure to activate enterprises and simultaneously regulate enterprises' activity to make them follow original purpose of organization. As a result, we expect it will increase investment in Asia, and will be foundation for Asia economic community.

### **5. Military aid and Establishment of relative institution for emergency**

It is important to secure manpower for actual disaster response. The army is superior labor pool that already

has discipline, chain of command. If we can enhance the military aid through relaxation of institution, it will be possible to be faster and more efficient for disaster response.

## II. Conclusion

Why do we need more strong Asia union organization for prevention, preparation and response of disasters, not northeast Asia union organization and ASEAN union organization? Here, we suggest three reasons.

First, this is because of humanitarian reason. In Asia, there are some advanced countries, but there are many of Asia countries which are still poor and developing their secondary industry. In this situation, complex disasters (some natural disasters and human factors) are increasing each country's social disasters with increasing their weight of secondary industry. But efficient knowledge and technology about social disaster are concentrated in abundant countries economically, relatively poor countries economically are insufficient in these knowledge and technology, and capital for prevention of disaster. Because it is obvious that these insufficiencies bring about massive damage to human and economics, we need more united organization that embraces most of Asia, not just particular countries.

Second, due to disaster's characteristic of crossing the border. As I wrote, social disasters are frequent in Asia because rapid industrialization is ongoing in many of Asia countries. These disasters do not finish just in the countries directly involved, and affect nearby countries. Actually, if radiation leak occur in nuclear plants, the west coast of Korea will be affected in two days.<sup>4</sup> Due to these factors, disasters in Asia are not phenomena in that countries, but phenomena in Asia, and these will be become incentive that relatively abundant countries economically want to establish more strong Asia union organization for disaster.

Third, because establish of Asia union organization for disaster can be first step for Asia community. Due to cultural difference, historical background, difference of language, difference of positions about security, although each countries in Asia have had close relation territorially, and historically, and despite enormous economic profit if they cooperate with themselves, they could not cooperate with themselves, and now also situation is same. But, because the topic of prevention and action about disaster is the thing that each Asia countries can cooperate and agree despite susceptibility between Asia, now we have to consider Asia union organization for disaster that can be solutions about many things.

There are many countries they don't have elaborate technology about disaster. Our organization has to activate exchanges between enterprises in developed countries in technology about disaster, and others.

If we see example of earthquake, because many of countries in Asia they are in earthquake risk do not have superior seismic structure system, demand for buildings that have proper seismic structure system will be increased, that will be incentive that activate enterprises. Our organization has to utilize this incentive structure to activate enterprises and simultaneously, has to regulate enterprises's activity to make them follow original purpose of organization. It will increase investment in Asia, and will be foundation for Asia economic community.

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<sup>4</sup> 추상민 외(2014) p.33

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