

# Reviving Countryside by Developing All Domain Organic Agriculture

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## 全域有机农业的乡村复兴之路

贺建增/文 武瞳宇/编译

Hello everyone, today I am here to share the path of my personal growth and how to explore the path of rural rejuvenation based on all-for-one organic agriculture. It is the topic as the process that has accompanied me over the past 40 years.

I was born and raised in Yuanping, Shanxi Province. I graduated from Fanting Middle School in 1989. As a result, I was enrolled in the Department of Chemistry and the Department of Physics of Lanzhou University.

Because I liked physics, I transferred to the Department of Physics in my sophomore year. Thus, I studied two subjects-chemistry and physics in my four years of university.

After graduation, my first work was in the 798th factory in Beijing. I worked for more than a year during the era when state-owned enterprises were gradually declining, and then I resigned from factory and entered the IT communications industry. I started working in a foreign company in Beijing for 3 years, and then after the Spring Festival in 1998, I was employed by Shenzhen Huawei.

In this process, I have traveled all over the country, and every time I return to my hometown in Shanxi, I always feel a strong sense of loss. I want to help farmers develop agricultural production.

At that time, I was thinking about how I could go back to my hometown to help the local farmers, but at that time, I had neither the ability nor the strength, so it was just an idea.

In 2004, my classmates and I shut down the company in Shenzhen, and returned to do a survey for more than half a year. In 2004 we visited more than 40 counties and more than 200 villages in Shanxi Province. We really understood the current situation of the countryside.

At the same time, I also talked to teachers from Shanxi Agricultural University, China Agricultural University, Beijing Forestry University, Chinese Academy of Agricultural Sciences, and Institute of Botany, Chinese Academy of Sciences, to see what things can help the villages and farmers.

In this process, I first came to know the term "organic agriculture".

After learning about it, I found that organic agriculture guarantees food safety. Such huge market potential for people's health makes me think that this thing can be done, that is, we can solve this social problem through "a more sustained effort from self-motivation".

Secondly, I learned that the greater value of organic agriculture is to protect the environment. I born with an environmental protection plot. I have been using handkerchiefs since the beginning of primary school, and wherever I encourage people use the handkerchief again. In fact, the handkerchief hasn't left my body for more than 40 years.

Just now, think about how much paper would be saved if we could use two handkerchiefs a year instead of paper towels?

Although paper can be degraded after being used, the raw materials consume trees and forests. The process of making paper expends a lot of energy and emits a lot of pollution.

Even after use, the paper has been bleached and added with fluorescent agents. It will still leave harmful substances after degradation, which is also a burden on the environment.

In 2004, I learned about two characteristics of organic agriculture, and then after the Spring Festival in 2005, I returned to my hometown to farm.

In the first year, I rented a dozen acres of land, and then I invited my classmates and friends with me to plant the land without chemical fertilizers, pesticides and herbicides.

The result is relatively good. At the beginning, many people were concerned about the land could not be planted without chemical fertilizers and pesticides, but this phenomenon didn't appear which increased our confidence.

And in the next few years, through continuous efforts, in 2008, 2009, and 2010, most of the technical problems at each node in the organic ecological industry chain were gradually solved, so that organic agricultural production did not decrease, that is, the output did not decrease without chemical fertilizers and pesticides.

After this state is achieved, the income of the farmers will gradually increase.

In 2010, our first household in a village in Shuozhou had an annual income of more than 50,000 yuan, compare with the average household's annual income was only more than 10,000 yuan at that time.

In this case, it has been a great pleasure, because my first goal that provide farmers with the opportunity to work hard and get rich hopefully could be achieved. Farmers can increase their income through organic production.

So in this process, we have started a new round of exploration, how to make farmers in the village not only earn money through organic agriculture, but also make sure the farmers have a good life.

In this way, we have to rethink the "three rural" issues that we have been exploring in the mainstream society for more than 30 years.

Agriculture is the umbilical cord that connects human beings with mother earth, and it is the basis for people to survive. Agricultural production itself is quite different from our conventional industries.

While with cars, the society will go faster and more convenient, but at the same time it will bring about resource consumption and environmental pollution.

For instance, I used to work in the communications industry, during the thousands of years without mobile phones, the development of human society did not any problems. Today's mobile phones do bring convenience to everyone, but at the same time, the era of smart phones has brought social problems. It's obvious to all.

And agriculture which is different from our conventional industry, cannot be viewed with predictable business logic.

As we know, in a conventional industry the more important products tend to have higher prices and can earn more money, but in the agricultural sector, the opposite is true.

For example, the most important things in agricultural products are grains, white flour, and rice, but if you plant one mu of rice or one mu of wheat, you can't even earn 1,000 yuan. I mean pure profit.

But if we want to grow ordinary vegetables and fruits. They are less important than grain, but it is still possible to earn 10,000 yuan for one mu after planting.

If you plant an unusual food that people can or may not eat, such as the hot blueberries and black wolfberries that were hyped in the past few years, if it is planted well, it is really possible earn in 50,000 to 60,000 yuan, even 100,000 yuan per mu of

land a year. This fully shows that we cannot use conventional thinking to treat agriculture.

If enterprises and capital want to intervene in agriculture, they must go to the links that farmers can't do well or can't do, such as technology research and development, system integration, product processing, and marketing.

In this way, it forms a complementary and symbiotic relationship with farmers, thus farmers can live a good life with the enterprise, and the survival and development of the enterprise will have a foundation.

We put forward the "rural vitalization" at the 19th National Congress of the Communist Party of China, the keychain was opened, which. Agriculture, rural areas, and farmers are originally a complete and indivisible whole. When we take it as one thing to study, a solution was found.

It is the rural revival model based on the all-for-one organic agriculture, which is to realize the all-for-one organic production, ecological rural construction, and humanistic social return in the village. Focus on the county, and the village to the trinity of simultaneous landing. This is a matter of course.

What is the state of all-for-one organic production? It is the first goal to realize that genetically modified fertilizers, pesticides and herbicides do not enter the village. The whole village's agricultural production methods are carried out in an organic manner, forming a whole system that includes plants, animals and microorganism's Organic ecological industry recycling system, so that the products of the whole village are all organic products.

And the processing of our agricultural products needs to be localized. In the past few decades, farmers have sold agricultural products as raw materials.

In fact, the added value in the processing of agricultural products is greater than that of planting and breeding. Therefore, it is the second fulcrum for increasing farmers' income that makes the organized farmers' cooperatives to complete the processing of agricultural products.

Speaking of the third fulcrum, our rural service industry. What is the situation of the rural service industry? In today's mainstream society, the rural service industry is more about the development of rural tourism.

What's going on in tourism? It is to toss for a few days from the place where we are tired of living to the place where others are tired of living.

If there is Mount Tai in front of your house and the Great Wall in front of his house,

it is possible to start a tourism industry, but most of our villages do not have such attractions. What should we do? Then we will talk about it later.

Compared with the organic agriculture that we usually understand now, there are some obvious advantages in the all-for-one organic production.

First of all, the all-for-one organic production overcomes the island phenomenon of organic agriculture. That is to say, those organic farms in today's society, whether they are small farms of tens of acres and hundreds of acres, or large farms of thousands of acres and tens of thousands of acres, are all in chemical agriculture. They cannot overcome the pollution and diffusion of the surrounding pollutants, nor can it solve the problem of human nature.

Another one, the organic agriculture is to restore the balance of the biological chain in an area. Calling insects pests, the insects are not wrong.

Those bugs, birds, and weeds are actually friends of mankind. We must respect the equality of all creatures in the world and leave a reasonable living space for all creatures.

In this case, if one mu of land can produce one thousand catties of grain, we leave one hundred catties for the birds and the insects to eat. In fact, they can't eat so much. More than nine hundred catties are still human.

The balance of various organisms, biodiversity and biological chain in a whole region can be maintained well, so that this organic production can continue. Therefore, to do all-for-one agriculture, the biological chain can be balanced and the ecological balance within an area can be restored.

Judging from the chart of the all-for-one agriculture industry chain, we all can typically see that this chart is symmetrical and perfect.

When I drew this picture, I was moved. All the beautiful things in the world, when you really do it, are really so perfect.

Look at this picture, there is no asymmetry. We humans live in the world and live-in harmony with various of animals, plants, and microorganisms.

When this system is truly realized, the various wastes in our production and life will no longer be garbage or sewage, and a perfect cycle system will be formed.

What is the building of an eco-countryside? It is to guide farmers to improve their living conditions and the appearance of the village, using low-carbon and energy-saving building materials and construction methods to achieve it, which not only protects the traditional rural style, but also allows farmers to enjoy the comfort and convenience of modern life in the village.

We first look at our garbage, collect it in the community, and then the garbage truck will transport it to the transfer station for packing and compression, and the nit will be transport to the suburban landfill or incineration plant for disposal. This process wastes resources and pollutes the environment.

Those counties with relatively high fiscal revenues and good economic conditions have realized the village collection, township transfer, and county treatment.

The county treatment is also landfill or incineration. Such a treatment method actually wastes our precious social resources, but also leaves behind hundreds of years of degraded and unclean pollution sources for future generations.

Today, when we are building in the village, it is not difficult to realize the all-for-one garbage classification in the village.

In these villages that we have done over the years, as long as one village has undergone serious organization and mobilization training, within three months to six months, most villages can sort garbage without having to settle down.

Besides the sewage. People have eaten food from the land and returned their metabolites to the land. The toilet in our village has been the place of reincarnation of grains for thousands of years. Our land grows more and more fertile, and it has nurtured more and more people. The Chinese nation which the most populous nation in the world was born.

But today the urban sewage treatment system has artificially cut this point. The metabolites, face water, bath water, and laundry water in that bathroom are mixed together through a sewer pipe and sent to the sewage treatment plant. Dirty sewage will not be treated carefully, and the metabolites will never be returned to the fields.

So, what should we do in the process of rural construction today? No matter how the toilet is remodeled, we must remember one point: the bottom line is to collect excrement and urine separately. Just follow this principle, we have a low-cost solution. Turn it into fertilizer and return it to the land.

The rest of domestic sewage is called gray water in environmental engineering. Face wash water, bath water, and laundry water. The reason why they become sewage is the use of daily chemical products, washing spirits, and shower gel, shampoo, washing powder, liquid detergent.

Today we can completely replace these daily chemical products through environmentally friendly enzymes, such as soapberry, tea seed powder, and Saponaria products.

You could see the clothes I wear now. In fact, most of them have been worn for more than ten years. In the past, they have been washed with enzymes, which can be washed very clean. Just soak for a while. There is no problem with washing pots and dishes.

Once these biological products are used to replace our daily chemical products, our domestic wastewater is no longer sewage, and can be used directly to irrigate the ground, not only water, but also fertility.

In this way, all the wastes in our villages, after being classified and separated from the source, can finally be systematically harmlessly treated and used as resources. The picture you just saw is naturally realized.

And for on-site treatment, the biogas station can play a complete role in boosting the cycle. All our organic wastes can pass through the biogas station to provide energy for our lives.

Then, the remaining biogas residue and biogas leaves are treated with post-oxygen to be the best solid fertilizer and liquid fertilizer, which are then used for our organic agricultural production. Such a complete cycle of life and production is formed.

Looking at the return of humanistic community, to do a good job in the all-for-one organic production and ecological rural construction, one of the most difficult points is the popular support.

The key to letting people come back is education. If it can come back, the two previous issues can be achieved.

However, the last straw that really wiped out the countryside was the gradual withdrawal of schools. Once a village has no schools, it will disappear sooner or later, and decay is inevitable.

Today if we want to rejuvenate the countryside, the restoration of rural education is our top priority. But what kind of education should be restored? If we simply restore the test-oriented education in our current system, what will be the result?

It is certain that the schools in Beijing are better than those in Taiyuan, and the schools in Taiyuan must be better than those in the village. This unfair and unbalanced education will further widen the gap between urban and rural areas, and the rural vitalization still hopeless.

If we want to revitalize the countryside, when we restore rural education, we must achieve the goal in one step, so that the education level of the village is higher than that of the city.

This may sound difficult at first, and it seems impossible to realize it, but if we look back at modern education and the characteristics of our villages, it is actually not that difficult.

We can't help but recall that Foxconn has had more than a dozen consecutive jumps. People might assume that Foxconn's work is stressful but is this the real reason?

Two or three thousand years ago, our ancestors taught us that Your physical person with its hair and skin are received from your parents. Vigilance in not allowing anything to do injury to your person is where family reverence begins.

If our children can receive this kind of education since childhood, they can return to their original intentions, and know that everything they do today, they don't think about themselves, but they have to think about their parents, knowing that Filial piety is the most important of all virtues, then such suicides will be reduced a lot.

Therefore, based on the traditional Chinese culture, the education model that integrates the achievements of the civilization of all mankind is landed in the countryside, and our countryside can become a paradise for children's education and growth.

The three-parent education model, after more than five years of practice, has not only landed in more than a dozen villages, but also many urban residents have taken their children to live in the villages to school.

When our traditional culture takes root in children's education, it is no longer so difficult to rejuvenate rural traditional culture. In this way, farmers' schools and moral lecture halls can be gradually run, and rural cohesion can become stronger and stronger.

After the rural cohesion is strong, there is one more thing we can do, called built-in finance

Our built-in finance is that when our rural cohesion is restored, farmers' surplus money no longer needs to deposit in the bank, but to invest in our farmers' own cooperatives.

When the surplus money of the whole village is put in their own cooperatives for the whole village to use, the village will not be short of money since then. There is a source of funds for the processing of some agricultural products, and for the rural service industry. Even if someone's family had a patient or a child who needs some money to go to school is no longer a problem

And this kind of credit relationship formed by generations of ancestors is completely different from the current bank credit system. In recent years, there have



been almost no bad debts in built-in financial villages.

In this way, our villages are organized to form a comprehensive peasant cooperative organization integrating the village and community, and the cohesion of the village is restored.

As a result of this economic organization system, we call it an organized small-scale peasant economy, or a collective economy that fully respects individual rights and interests, and our village has returned to life.

Think back to what I just said, in our village all the production supplies that may pollute the environment are no longer used, and genetically modified fertilizers, pesticides, herbicides and herbicides will no longer enter the village. All the products are clean and safe organic agricultural.

There is no garbage, no sewage, no waste, no pollution, the villagers live comfortably, the children can receive the best education in the village, and the relationship between the villagers has improved. In this environment, what we have built is actually a home for a better life that all the people in China yearn for.

In this way, we can see that the simple urbanization process of rural people entering the city in the past few decades, it will gradually become such a process of interaction between urban and rural human resources.

For thousands of years, some people have rushed to expeditions in starry night, and some have resigned and returned to their hometowns. This kind of human resource interaction model has gradually returned. When people come, the village will live, and the revitalization of our village is expected.

In fact, we understand the overall goal of rural revitalization, which is to enable farmers to live and work in peace and contentment and live a dignified life without leaving their homeland.

In order to do these things, this system cultivates talents. Over the years, we have gathered a group of like-minded fellow partner from all over the country and jointly founded a farming university.

It is a model of education based on Chinese traditional culture and integrating the achievements of all human civilizations, establishing a mind for heaven and earth, establishes a destiny for the living people, inherits learning for the past saints, and promotes peace for all ages.

This is a joint school that is moving towards the future and is a cradle for cultivating talents in ecological civilization construction. Here we are now a three-year

full-time learning model.

Attract young people who are interested in organic agriculture, ecological environment protection, rural construction, rural culture, rural education, rural governance, and urban-rural integration to grow together here

The teachers who work in universities come from several categories. One category is professors and doctoral tutors from universities. In total, we have more than 60 teachers and almost half of them are such teachers.

The other half are front-line practitioners, and a team of teachers composed of village leaders, agricultural experts and grassroots experts who have been in the village.

Everyone is here to train talents for the rural vitalization and the rejuvenation of the Chinese nation. It is a platform for young people who are interested in organic agriculture, rural construction, ecological environmental protection, rural culture, rural education, rural governance, urban-rural integration, and the growth of young people.

In farming university, our goal is to be able to discover the problems in the countryside, solve the problems in the countryside, and be able to overcome the difficulties, and finally achieve the integrated urban-rural development.

After the entire system is completed, we will realize such social values.

The first is to completely solve the food safety problem. Because organic food can avoid the damage of harmful residues to the human body, and can continue to ensure food security.

How do we realize the rural vitalization and the great rejuvenation of the Chinese nation? It depends on the wisdom of our Chinese people. This is the most important proposition in each of our countries.

It implements all-for-one organic agriculture through the magic weapon of the technology and production system that organic agriculture does not reduce production, and then through the organized small-scale peasant economy, or the collective economic model that fully respects the rights and interests of individuals, such an organizational form to ensure.

In this way, our all-for-one organic agriculture can feed the Chinese, and promote rural vitalization.

The third value is that agricultural pollution can be completely eliminated. Today, the pollution sources on the earth include industrial pollution, urban pollution and agricultural pollution.

Industrial pollution and urban pollution are obvious to all of us. In fact, the number

of agricultural pollutions is large but the area is not wide. However, the total amount is the largest. It has exceeded half of the total pollution on the earth. Through this model, more than half of the pollution sources can be completely cut off from the source.

Our land itself is a huge environmental container, think about it, why we are in the north, and in winter the smog will be continuous.

It is because in summer, our trees, weeds, and dealers can absorb particulate pollutants from the air.

And in winter, when the soil micro-ecosystem was still relatively good decades ago, the soil can adsorb these pollutants in winter.

But now our soil is compacted and degraded, and the micro-ecological system is poor. Our soil, the environmental container, has become smaller and cannot contain too many pollutants. As a result, smog erupts continuously.

When we use this method to repair all of our arable land. It not only cut off the pollution at the source, but also gives us a certain amount of room to absorb industrial pollution and urban pollution.

The fourth value is to protect biogeographic security. It is the balance of our biological chain that I mentioned at the beginning, respecting the equality of all creatures in the world, and human beings and nature can live in harmony.

The fifth value is that this way can protect the countryside to the utmost extent. Today we can see that of the four major original civilizations of mankind, our Chinese civilization has only survived, and it is passed on endlessly.

Today, when we protect the countryside, we are inheriting the Chinese civilization. Through such a model, we have rejuvenated the countryside, and if we realize the integrated urban-rural development, the great rejuvenation of the Chinese nation is expected.

In the first 50 years of the 21st century, we have achieved the great rejuvenation of the Chinese nation, and based on the traditional Chinese culture, the cultural paradigm and education model that integrate the achievements of the civilization of all mankind are used to influence people, and keep pursuing a community with a shared future for mankind.

It is a reality for China to play a leading role in the process of human ecological civilization.

Here, I will share these with you today, thank you very much.

(Tran. by Tongyu Wu, Tianjing Foreign Language University)