# Organic agriculture in Syria: policy options<sup>1</sup>

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#### 1. Introduction

Over the last few years, in Syria some scientists, policy makers and producers have started being interested in organic agriculture (OA). Seminars were held at the University of Aleppo and at the Ministry of Agriculture in Damascus in 2002-2003. An FAO project started in 2006, titled "Institutional Development of Organic Agriculture in Syria", but it might still be perceived by most decision makers as a small exploratory move into a niche export market, whereas an increasing number of Syrians and expatriates working in Syria believe that OA could represent a really alternative approach to sustainable production. The purpose of this paper is consequently to remind some basic concepts related to OA and to indicate the guidelines for an integrated policy that the

Government could elaborate and then implement for a country-wide adoption.

As a matter of fact, the Ministers of Agriculture of all Mediterranean Countries, at the end of their Venice Meeting in 2003, declared that OA is a priority and that all efforts should be spent for its development. In 2004, the European Action Plan was released, after a long process of consulta-

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#### **Abstract**

The paper deals with the need for an integrated approach for organic agriculture in Syria, where the ecological and socio-economic conditions require a profound change of both present agricultural policies and technological approach. The history and evolution of organic agriculture, as well as the world consumer market are briefly illustrated in order to show the potential of organic food systems in Syria.

The motivations and goals of the governments to act for the strengthening of organic agri-food chains are explained, while the last paragraph lists the possible intervention areas and some of the actions to be taken, in the short and medium term, for a sustainable organic reform of agriculture and animal production, for both domestic food security and foreign markets.

The paper also underlines the need for a participatory approach and for the involvement of the private sector and of the Civil Society Organizations in the organic policy elaboration and implementation.

Keywords: Organic farming, policy options, Syria

#### Résumé

L'article concerne la nécessité d'une approche intégrée pour développer l'agriculture biologique en Syrie, où les conditions écologiques et socioéconomiques imposent un changement profond des politiques agricoles actuelles et de l'approche technologique aussi. L'histoire, l'évolution de l'agriculture bio et le marché mondial de consommation sont brièvement illustrés afin d'indiquer le potentiel des filières bio en Syrie.

Les motivations et les buts des gouvernements pour l'expansion des filières bio sont expliqués, avec le dernier paragraphe dédié à la liste des possibles interventions et de certaines actions, à court et moyen terme, pour une reforme biologique durable de l'agriculture, y comprises les productions animales, pour la sécurité alimentaire nationale et pour les marchés étrangers. L'article souligne aussi le besoin d'une approche participative et de l'engagement du secteur privé et des Organisations de la Société Civile dans l'élaboration et mise en œuvre d'une politique bio.

Mots clés: Agriculture biologique, options politiques, Syrie

intensive organic agrifood chains, with a holistic and territorial approach, could foster the Euro-Mediterranean integration. Syria finds itself at the very early stage of development for several organic commodities: cotton and olive oil are already produced and marketed abroad, but it could be wrong to limit the focus only on these two products and only to export to the EU market. Other markets in Europe (FAO, 2007a)

and in the Arab world

(FAO, 2007b) show inter-

est for Syrian organic

goods. Urban consumers,

in Syria as well as in many

other Countries, are scared

by the health hazards due to

tions and several South Mediterranean countries

are currently acting very

rapidly. Malorgio (2008)

underlines that an extend-

ed conversion from con-

ventional or traditional

farming into knowledge

residues and a good share of them show a relatively high willingness to pay premium prices for supposed-to-be-healthy products (NAPC, 2007). Furthermore, OA and animal husbandry, if properly adopted on a wide scale, could reduce the environmental risks and the continuous loss of fertile topsoil, which characterize present conventional production in Syria. For these reasons, a coherent policy framework is required.

# 2. Origins and present situation of organic agriculture

Lampkin & Padel (1994) defined OA as "approaches to farming, aiming at establishing sustainable production sys-

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tems, mainly based on renewable resources, on the management of the biological processes, in order to achieve acceptable animal and vegetal production levels, human nutrition, protection against diseases and pests, and a proper return to labour and other resources". More complete definitions have been recently issued by the International Federation of Organic Agriculture Movements (IFOAM) and by Codex Alimentarius (El Hage Scialabba & Hattam, 2002).

OA has been existing since 1924 (Kristiansen, Taji & Reganold, 2006) when some German producers begun to follow the ideas of Steiner, founder of the Anthroposophy. Simultaneously in Japan, Okada (Hamilton, 2007) and Fukuoka elaborated their visions for a more natural way to farming. In the UK, in the early 1940s, Howard developed his guidelines to enhance soil fertility, while Rodale in the USA was proposing OA and healthy lifestyle. During the

1950s, Rusch & Mueller in Switzerland and Lemeire & Boucher in France proposed their approaches for OA and a healthier nutrition. In Australia, in the 1970s, Mollison & Holmegren elaborated Permaculture, based on the continuous coverage of the soil, no external inputs and minimal mechanization. These examples mean that conventional agriculture, based on a massive use of external inputs, energy, water, chemical products, "improved" varieties and animal lines, was perceived to be negative quite many years ago. Unfortunately, for more than 150 years, conventional agriculture has been supported by Governments, with research and extension, training and modern-

ization plans, credits and grants, subsidies and incentives, whereas OA has very slowly expanded, over the years and across the continents, without any public support: no legislation, no subsidies, no grants or credit schemes, no public research or extension. In many cases, organic farmers, medical doctors and the few agronomists and veterinarians who supported them, were object of derision. Only in the very recent past, since the mid-1980s, due to the growing environmental concerns, health awareness and the energy costs of conventional farming, some local authorities and national governments have supported OA.

Nowadays, in several countries, such as in the EU, the USA, Japan, Argentina, Costa Rica, Tunisia, Turkey etc., a legislative framework exists, projects support producers and processors, grants and subsidies are available for the different stakeholders in the agri-food chain, public research and extension have been activated. The aggregated amount of resources available for OA is still a minimal fraction of the total public support to agriculture, but it is better than nothing and it is growing. Also the consumers' demand is growing very fast, with the conventional retail and the supermarkets chains aggressively entering this market.

To conclude this first paragraph, the past eighty years of history of the different forms of OA demonstrate that a)

very slow progress can happen even without a policy, but also that b) positive and coherent political actions can enormously speed up the diffusion of OA.

# 3. Worldwide organic farming and markets

OA extends nowadays over almost 30.4 million ha, in 138 countries (Willer, Yussefi-Menzler & Sorensen, 2008) with the highest growth in the USA, Argentina and Canada, where such expansion has been market-led and there are no subsidies. 39% of the global organic surface is in Australia (Table 1) followed by Europe (23%) and Latin America (19%). The worldwide market was quantified in 2006 at about 38.6 billion US\$, +21% if compared to the previous year, continuously growing since 2001. The biggest market is Europe (52%), followed by North America (45%). The balance (3%) is diluted in all other countries.

Table 1 - Organic area and farms in 2006.

Continent	Area			Farms			
	1999 2006		06	1999	2006		
	000ha	000ha	%	000n	000n	%	
Africa	22	417	1,4	0,0	175	0,0	
Asia	44	3.091	10,2	9	97	13,5	
Europe	3,503	7.389	24,3	130	204	28,4	
Latin America	546	4.916	16,2	10	223	31,0	
North America	118	2.225	7,3	37	12	1.7	
Oceania	5.309	12.381	40,7	2	8	1,1	
Total	9.542	30.418	100.0	188	719	100.0	

Note: Mexico in 1999 was considered in North America and in 2006 in Latin America Source: Willer, Yussefi-Menzler & Sorensen 2008

In Canada and the USA, about 12,000 farmers organically manage about 2,200,000 ha. There are very small alternative producers, selling their output at local "farmers' markets", directly to consumers, as well as large corporations supplying raw materials to processors and supermarket chains. The US and Canadian consumers demand all sorts of products (even frozen ready-to-eat pizza or pet foods) and this stimulates the expansion of both imported and domestic products.

In Africa, about 176,000 producers organically manage about 400,000 ha. Furthermore, there are millions of hectares of certified collection of wild fruits, spices, herbs. Tunisia and Egypt have leading institutions, important processors and traders. In the sub-Saharan countries, OA is less developed, but it is growing, for both food security and export. The resilience of OA in most climatic zones has been proven and it allows a more stable production, even without external inputs and under rainfed conditions. OA improves several dimensions of sustainability (Hine, Pretty & Twarog, 2008) since it improves the natural environment, the communities, the education and skills of producers, leads to better market organizations and increases the households incomes, with positive impact also on health. In most countries, proper policies are still missing and the public support is small or non existent, but several national

and international NGOs help OA and support fair trade agreements. In South Africa, there is a growing local market for certified organic products. Since 2007, the East African countries have a regional organic regulation and this has allowed a quite good expansion (Uganda: 122,000 ha, Kenya: 90,000 ha, Tanzania: 56,000 ha, South Africa: 45,000).

In Asia, about 130,000 farmers organically manage 3,100,000 ha and the most important countries are China (2.3 million ha) and India (528,000 ha). Most products are export-oriented (wild rice, tomatoes, teas, etc.), because the only large market in Asia has been Japan, but a growing demand is now recorded elsewhere. In several countries there are research projects, e-

ducation opportunities, and governments positively act to promote further growth. 11 Countries have organic regulations and eight more are working on them. India is in the EU "Third country list" because its certification system is considered trustworthy and there is no need for another EU control.

In Oceania, 8,000 farmers declare over 12.4 million ha, 99% being in Australia. Most area is used for extensive grazing, but there are also large farms, with cereals and fruits for export, as well as small farms solely producing for the domestic market. In Australia and New Zeeland there are consolidated organic standards and certification bodies. Both countries are in the EU "Third country list".

In Latin America, where OA was introduced by some German settlers during the 1930s, about 223,000 producers manage 4.9 million ha. Most products are exported towards the USA and Europe, with a small flow towards Japan. Like in Africa, many projects as well as national and international NGOs support the expansion of OA and of wild collection, supplying fair trade products (coffee, cotton, spices, cocoa beans, medicinal herbs). Other important commodities are soy beans, bananas and sugar cane. Some governments (Brazil, Bolivia, Costa Rica, Argentina, Chile) have been very positive about OA and include its growth among the targets of their agricultural policies. Research activities as well as educational opportunities are very frequent. 15 Countries already have an organic legislation, but only Argentina and Costa Rica are in the EU "Third country list".

In Europe, about 7.4 million ha were organically managed in 2006 by about 200,000 farmers. 6.8 million ha and 180,000 farmers can be found in the EU, where OA is regulated since 1991 and is supported with area subsidies since 1992. Organic production, processing and trade are also supported through a variety of channels, including rural development projects, by national and local Authorities. The largest areas are in Italy (>1.1 million ha), Spain (almost one million ha) and Germany (over 825,000 ha), but very fast growth is recorded also in the new eastern member states. In Europe, including Switzerland and Norway, organic goods can be found in almost all grocery stores (Table 2)

Table 2 - Organic consumer market in 2006.

Country	Population (million)	PPP pro capite (US\$) *	Food Share (%) on total family expenditure <sup>2</sup>	Total market (million €)	Organic Food pro capite (€)	Organic Share (%) on food expenditure	
Germany	82,5	26.980	11	4.600	56	2,7	
United Kingdom	60,0	26,580	9	2.831	47	2,5	
Italy	58,5	26.170	14	1,900	32	1,6	
France	60,6	26.160	13	1.700	27	na	
Switzerland	7,4	31.840	10	764	102	4,5	
Austria	8,2	28.910	10	530	64	5,4	
The Netherlands	16,3	28.350	10	460	28	1,9	
Denmark	5,4	30,600	11	434 80		4,5	
Sweden	9,0	25.820	12	379	42	2-3	
Spain	38,2	21.210	14	270 *	2	na	
Total	346,1	na	na	13.868	na	na	
ource: FAO 2007a	**************************************	na = not availab	le	A			

Table 3 - Organic Agriculture in the Mediterranean Basin.

Country	Area (ha) in 2005	Area (ha) in 2006	Farms (no.) in 2006		
Croatia	3.184	6.204	368		
Slovenia	23.499	26.831	1.953		
Albania	1.170	1.000	100		
Greece	288.255	302.256	23.900		
Malta	14	20	10		
Cyprus	1.698	1.979	305		
Turkey	93.133	100.275	14.256		
Syria	20.500	30.493	3.256		
Lebanon	2.465	3.470	213		
Israel	6.685	4.058	216		
Palestine	1.000	641	303		
Jordan	10	1.024	25		
Egypt	24.548	14.165	460		
Lybia	nd	na	na		
Tunisia	143.099	154.793	862		
Algeria	887	1.550	39		
Morocco	20.040	4.216	na		
Portugal	233.458	269.374	1.696		
Spain	807.569	926.390	17.214		
France	560.838	552.824	11.640		
Italy	1.067.102	1.148.162	45.115		
Total	3.299.154	3.549.725	121.931		

na: not available

Source: Willer, Yussefi-Menzler & Sorensen 2008

and several retailers have their own organic private label. To satisfy such increasing demand, the European firms are importing organic raw and processed commodities from all over the world.

Focusing on the Mediterranean Basin (Giardina, 2008), the countries with the largest organic areas belong to the EU, but Tunisia and Turkey are coming close (Table 3). In these countries, legislation has been issued and updated, supporting schemes exist, research, education and extension activities have been initiated. Monotti (2007) indicates that the

factors hampering the further development of OA in the non EU countries are the high costs of production and certification, the low educational level of farmers and the lack of advisory services, the lack of appropriate structures for production, processing and trading, and poor marketing activities (Table 4). Al Bitar and Pugliese (2008) provide useful case studies from Turkey and Tunisia and they underline the need for a holistic and integrated policy approach.

foreign donors should not be underestimated, because endogenous development still needs the support, in many cases, of some external help. In developing countries there are not resources for area subsidies, and the political support is only normative (legislation) and indirect (some research activities, some advisory projects, etc.).

# 5. Side-effects of conventional farming

		Frequencies (%)						
Factors	Total	Strongly agree (+4)	Agree (+2)	Not relevant	Disagree (-2)	Strongly disagree (-4)	No answe	
High costs of production / certification	2,2	38,2	41.2	7,4	8,8	1,5	2,9	
Low education of farmers / lack of advisory services	2,2	42,6	35,3	5,9	11,8	1,5	2,9	
Lack of structures (production, processing, distribution)	2,0	35,3	41,2	7,4	8,8	2,9	4,4	
Poor marketing activities	1,9	33,8	45,6	4,4	4,4	8,8	2,9	
Lack of subsidies and of financial supports	1,8	35,3	35,3	8,8	10,3	5.9	4,4	
Lack of consumers awareness	1,5	26,5	36,8	19,1	5,9	5,9	5,9	
Low or variable yields	1,4	27,9	36,8	14,7	7,4	8,8	4,4	
Small farm size	1,4	33,8	35,3	5,9	8,8	13,2	2,9	
Lack of appropriate inputs	1,3	27,9	30,9	17,6	7.4	10,3	5,9	
Competition with organic products from other countries	0,5	14,7	35,3	13.2	22,1	8,8	5,9	
Lack of traceability	0,3	14,7	30,9	14.7	19,1	14,7	5,9	
Lack of harmonization with foreign legislation	0,1	17,6	23,5	17,6	17,6	17,6	5,9	
Distance from foreign markets	1,0	13,2	33,8	14,7	16,2	19,1	2,9	
Lack of national legislation / regulations	0,1	23,5	13,2	26,5	7.4	25,0	4,4	
Lack of Certification Bodies	-0.4	16,2	19.1	20,6	10,3	29,4	4,4	

Table 4 - Limits to the development of the organic sector in the next few years (to 2010).

The expansion of OA is due to the raising awareness that the conventional agri-food system is becoming less sustainable from an ecological, economic and sociological point of view. The present global food crisis and the recent FAO world conference (FAO, 2008) have confirmed the contradictions of the conventional agrifood systems, based on monoculture, intensive use of external inputs and scarcity of natural resources.

With oil prices priced over 130 US\$ per barrel, the energy balance of conventional agriculture is more and more negative and the recent decline of its

price should not stop the search for energy-saving methods of production. In a few decades, conventional farming systems have consumed the non renewable natural resources accumulated in millions of years.

Conventional agriculture requires water, because High Yield Varieties cannot express their potential without fertilizers, which then impose regular supply of this increasingly scarce resource. Competition for the use of water is growing everywhere in Syria.

The environment degradation is another problem. To facilitate the mechanization, even in fragile areas such as in Syria, "useless" trees and shrubs have been cut away, but this increases wind and rain erosion, causing the loss of millions of tons of fertile topsoil every year. Biological competitors of harmful insects do not have a shelter any longer and pests freely multiply. Rotations and mixed farming have been abandoned, while overgrazing is menacing the pastures in the Al – Badia area. Nitrates and fine chemicals, as well as heavy metals, antibiotics and animal wastes are flowing into the aquifers, whose waters are now dangerous for all forms of life.

The genetic pressure on plants and animals has made conventional systems more susceptible to diseases. This makes necessary the continuous import of more powerful fine chemicals, patented by a small number of giant cross-national companies, because animals and plants are weaker, whereas diseases (for both plants and animals) and weeds are increasingly resistant.

# 4. Motivations for public intervention

The public involvement for the introduction and/or further expansion of OA has many reasons, motivations and purposes.

The Governments of developed countries (OECD, 2001) desire to reduce the pollution due to excessive use/misuse of chemicals, or because lower surpluses were expected thanks to an extended adoption of OA. Since subsidies cannot be coupled any longer with production, supporting OA with area subsidies has been a way to bypass the WTO opposition to price support. Animalist associations, environmentalist parties and NGOs represent strong lobbies. Last but not least, consumers wish to purchase more locallygrown organic produce and governments like to satisfy such demand.

In many developing countries, although in most cases organic products are still considered a specialty for foreign markets or for small domestic niche markets, there is also a growing awareness that OA could be a better approach than conventional systems for food security, because bio diverse organic systems are more resilient and require less cash investments (El Hage Scialabba and Hattam, 2002; Rundgren, 2008). Also in developing countries, the failures of conventional agriculture (see next paragraph) are becoming more evident and this leads to rely on knowledge intensive systems, based on local resources, especially for cash poor small producers. Also the pressure from NGOs and some

Productive animals have been confined into artificial systems and subject to all kind of unnatural treatments for increasing their productivity. Artificial illumination 24 h/d, growth hormones, antibiotics, synthetic vitamins have led to think that animals can be treated as machines. But viruses and bacteria are becoming stronger and resistant to all sorts of chemical treatments and all these hormones accumulate into the body of consumers. Even in Syria, consumers search now for "baladi", i.e. rustic, home produced eggs.

New social problems have recently appeared, linked with the excessive consumption of relatively cheap food: aggressive advertising is pushing adults, children and teenagers to consume over their needs. Obesity and related diseases have been also found in Developing Countries and they can be observed also in Syria. Several people suffer from new allergies to additives, artificial colours, artificial flavours used in food and textile production.

Beyond all the above mentioned problems, most conventional systems are not economically competitive. They need huge financial State support, either openly declared or hidden, as unpaid natural resources (water, grazing land, for example), low taxation or free services (from extension to social care). The Syrian government has been supporting some unsustainable conventional systems with subsidized seeds, fertilizers, pesticides, irrigation plants, fuel. The prices of raw commodities have been kept artificially high, and the prices at consumption are kept artificially low, but all these subsidies cannot last forever, because their financial weight is becoming unbearable.

And what about the farmers and their families? Are they happy and rich? The contrary is true: agricultural labour has surely become less demanding in terms of physical fatigue, but in many sectors and many areas of Syria it is very unhealthy. Pesticides were carelessly used and many people were victims of chemicals – nowadays the situation has improved, but still there is a long way to go. The average agricultural incomes remain low and the rural exodus is strong. Like in many other countries, in some areas only the elderly, some women and the children still inhabit the villages.

## 6. Agricultural policy for organic agriculture

To elaborate and implement a comprehensive set of interventions for the development of OA, a logical path should be followed (Dabbert, Haering and Zanoli, 2004) because any public plan wishing to move from the support for conventional agriculture to the development of organic agrifood chain should cover the following points:

- a) Present situation: definition of the areas and products where OA could be more easily developed, barriers and potentials, human resources requirements, research needs, market perspectives (domestic and abroad), certification bodies and accredited laboratories, legislation, etc.;
  - b) Objectives and strategies: where to be in 5 10 year

time, and how to get there. This means to agree on some meaningful indicators such as number of farms, area, output volume, export volume, extension agents trained, research projects initiated, labs established, etc.;

- c) Instruments and addressees: regulations and resources (grants, loans, subsidies) for the various category stakeholders:
- d) Priorities: where and what should be done first, to have a logic progression and not a chaotic waste of public resources;
- e) Follow-up, monitoring and evaluation: the above mentioned indicators should allow to check the implementation and achievements, for eventual modification of the previous plan:
- f) Role of public institutions, of Civil Society Organizations and of private profit oriented firms.

Such comprehensive analysis and plan should be elaborated in a participatory way, trough the involvement, via consultations, workshops, debates, etc., of all likely possible stakeholders, which will be then also responsible for action (Santucci & Antonelli, 2004). This procedure requires commitment, dedication and time.

A comprehensive policy should include several areas of intervention (Rundgren, 2008), each one articulated in several actions to be implemented over time and in the different parts of the country. The most important areas and actions can be briefly resumed as follows:

National legislation: Such legislation, which is now under elaboration in Syria, must consider what is happening worldwide and should be respectful of the international standards, to facilitate the export of domestic products. The legislation should also guarantee a fair level ground to Civil Society Organizations and private operators, in the fields of production, processing, trade, and even in the certification and service provision;

Certification and accreditation represent a major challenge not only for organic food systems, but also in conventional ones. In Syria, local producers still rely on foreign inspectors, who come to control the respect of the organic guidelines. This "organic colonialism" must finish, with locally based Certification Bodies (CBs). Another problem is represented by the need for properly equipped labs, where samples of products, plants, soils, etc. could be analysed. Add to this that both the CBs and labs need to be accredited by a superior agency, also internationally recognized. To overcome such challenges, a specific set of actions should consequently be planned, if needed, in order to support the establishment of domestic CBs. While waiting for national CBs to begin their operations, foreign CBs could be authorized, with locally employed experts, for the time being. The Government could also promote, through credit and grants, the establishment of private or public accredited labs, and the same could be done for the establishment of private or public accreditation bodies. Taking into account that the certification costs could be too heavy, especially for

the small farmers, the certification costs could be paid by the Government, at least for the conversion period.

Research and training: OA is the fusion of the most advanced knowledge with whatsoever can be used of the traditional knowledge, which was too fast put aside to pursue the simple reductionism approach proposed during the last century. In Syria, almost all scientists belong to the "conventional school" and for them it is difficult to conduct research with a new approach. The same happens with the farm advisors, who lack the knowledge about OA and the attitudes for knowledge sharing with farmers. Consequently, within this area of intervention, several actions should be activated. Such as: a) scientists and technicians should be updated and trained, through courses at home and abroad; b) applied research programs should be started as soon as possible; designed with a holistic and participatory approach, involving the producers in the research design, implementation and result evaluation, to merge traditional know-how with modern knowledge; c) in the medium term, OA should become part of the curriculum offered by agricultural schools and universities; d) extension programs should favour the exchange of knowledge between farmers and advisors; e) farmer to farmer knowledge sharing should be favoured, promoting farmers' groups, rings and interest groups; f) also the advisory programs should be designed with a holistic approach, covering the various aspects of the same farming system including the technical and economic aspects, as well as valorisation and marketing.

To increase the production, several measures are possible: a) through modernization schemes, credit lines and/or grants should be established, for producers, processors and traders wishing to introduce OA and modernize their operations; b) a different option is to recognize to organic producers, processors and traders priority access to all forms of support; c) another option is to consider organic production as an extra score for the access to any form of grant and credit, as it is usually done for special categories, like women or smallholders operating in less favoured areas; d) area subsidies to producers, in some cases for the conversion period only, or for a longer period.

To expand the domestic demand, there is a long list of feasible actions, which could be implemented in cooperation with several public institutions and the CSOs: a) a national logo could be established to make Syrian organic products easily recognizable; b) awareness raising programs for medical doctors, nutritionists and the general public, to inform about the links between health, nutrition, environment and agriculture; c) training for some categories could be organized, to provide more information and skills (food shop owners and/or employees, nutritionists at canteens, etc.) because these categories have daily contacts with consumers; d) public procurement could be favoured, introducing locally produced organic ingredients into the meals served by public institutions (kindergartens, schools, hospitals, etc.); e) another action could favour direct marketing, linking groups of producers with groups of interested consumers, through local markets and national fairs: f)

market transparency should be favoured: data about farms, areas, productions, trade (import and export), prices should be made available as soon as possible, setting up a market information system accessible to all concerned parties; g) in the medium term, a very important strategy could be to link organic products with Geographical Indication (GI), still missing in Syria, to have organic GI products. This double certification gives the consumers a double guarantee: that the product is organically grown and it comes from a very specific area of the country, i.e. "The organic lambs from the Al Badia desert".

To penetrate foreign markets, at least a) promotion activities could be supported and organized in selected foreign markets, also through the participation in international fairs; b) in the medium term, the linkages between Fair Trade and OA should be supported, as it already happens in Palestine, for the organic olive oil.

#### 7. Conclusions

Since several years ago Syria has started a process of economic reforms that is progressively changing its economic landscape. Furthermore, the deteriorating ecological conditions and the growing population pressure impose a more sustainable approach to agriculture. Within this evolution, OA could be a key factor for improving both domestic food security and the food trade balance.

The direct presence of Governmental institutions and State companies is decreasing and a more liberalized market is developing. Thanks to its own forces and to international cooperation, more ecologically friendly forms of agriculture are taking place (integrated pest management, water saving technologies, organic agriculture). On the macroeconomic side, the conditions of the public budget impose a better use of public resources and this will lead to a more careful spending for subsidizing inputs such as fuel and fertilizers.

The FAO project "Institutional Development of Organic Agriculture in Syria" has allowed moving the first steps in the right direction, but more public involvement is needed. Domestic and external markets already demand more organic products. Consequently, the engagement of Public Institutions should be strengthened, while Civil Society Organizations and private firms should be further encouraged, in the framework of an integrated holistic plan, as the one previously described.

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