THE SPANISH PATH OF AGRARIAN CHANGE, 1950-2005: FROM AUTHORITARIAN TO EXPORT-ORIENTED PRODUCTIVISM

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Abstract
The aim of this study is to determine whether the Spanish path of agrarian change, between 1950 and 2005, exhibits some features important enough to differentiate it from the common model of developed countries in Western Europe. On the one hand, the Spanish agrarian transformations share the main features which took place in Western Europe: technological innovation, increased production and productivity, loss of importance of the agricultural sector, tight integration with the industrial sector and, finally its high impact on the environment. On the other hand, a series of important peculiarities can be observed in the Spanish agrarian change: strong expansion of intensive livestock farming; importance of increased irrigation to explain the transformation of agriculture; policies that offered very little support to the agricultural sector under a dictatorship that denied a voice to farmers; maintaining a very prominent role in the economy despite its small contribution to GDP.

Key-words: Agricultural change, European agriculture, Agricultural policies, European economic history

Resumen
El objetivo de este trabajo es comparar el modelo de cambio agrario español entre 1950 y 2005 con el predominante en los países europeos occidentales en el mismo periodo. Nuestras conclusiones ponen de relieve que ambos comparten las mismas características principales: innovación tecnológica, incremento de la producción y la productividad, pérdida de importancia relativa del sector agrario, fuerte integración con el sector industrial y alto impacto medioambiental. Sin embargo, el cambio agrario en España ha tenido una serie de peculiaridades destacadas, como son la fuerte expansión de la ganadería intensiva, la creciente importancia del regadío para explicar las transformaciones agrarias, unas políticas públicas que ofrecieron un escaso apoyo al sector agrario bajo una dictadura que impedia la participación de los agricultores en el diseño de las políticas agrarias y el mantenimiento de un papel destacado del sector a pesar de su pequeña contribución al producto interior bruto

Palabras clave: Cambio agrario, agricultura europea, políticas agrarias, historia económica europea

JEL CODES: N54, O13, Q18
1. INTRODUCTION

The agricultural sector was the largest employer in the economies of pre-industrial Europe and the most important contributor to the GDP of these economies. Today, however, in these same countries the agricultural sector has very little economic weight as a consequence of the industrialisation processes that took place from the end of the eighteenth century. The analysis of the characteristics and consequences of the transformation of a traditional agricultural system into a modern one has received a considerable amount of attention in both historic and economic literature. This analysis is of great interest as important lessons can be drawn for developing countries in which these transformation processes have not yet concluded or are in an early stage. The transition from a rural society to an urban society, or in other words from an agricultural sector that changes from being not very productive but energetically efficient and not aggressive to the environment into one capable of producing many more foods, but which is not energy efficient and is highly contaminating to the environment, is a crucial historical process.

The agricultural sector has experienced significant transformations over the last three centuries, and particularly in the last one hundred and fifty years. However, the changes that have taken place fade in comparison with the intensity of the occurrences after 1950. The comparison made by Bairoch (1999) between the “three agricultural revolutions” clearly shows the strong growth of productivity in the second half of the twentieth century with respect to any previous period. Therefore, we can conclude that the extent of the transformations in developed countries agricultural sectors (and even in many developing countries agricultural sectors) after 1950 certainly deserves to be described as a “revolution”. Authors such as Grigg (1992), Federico (2005), Malassis (1997) and Hamilton (2014) identify this period as when the great transformation of western agriculture took place, with the definitive change from a traditional agriculture to a modern agriculture, or from an extensive agriculture with growth based on an increase in the use of inputs to an intensive one in which the increases in productivity constituted the principal dynamic element. Ultimately, agriculture shifted towards a new

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model, the “internationalised agribusiness model”, based on the industrialisation of the agro-food chain with an increasing replacement of traditional products with processed and prepared products in an agricultural environment more and more dependent on the system of prices and international exchanges. In this model, first the agribusiness, then mass distribution would dominate the global agricultural sector.

Furthermore, the manner in which the institutions, particularly the State, interacted with the agricultural sector also changed. The policies implemented in developed countries after 1945 gave rise to a consolidation of an agricultural protection and intervention model at the expense of consumers (Brassley et al., 2012). A clear example of this turnaround in agricultural policy was the implementation of the Common Agricultural Policy in Europe (hereafter, CAP) in 1962.

In general terms, the developed countries experienced these transformation processes in a fairly similar way, sharing a series of common features, giving rise to a pattern of change common to them all. However, there were also significant differences residing in the different institutional, political, social and economic contexts of each country.

Within this framework, the objective of this article is to determine the features of the model of agrarian change in Spain after 1950, going beyond those aspects shared with other developed countries, particularly those of Western Europe. The Spanish case is particularly interesting for three reasons. First, between 1950 and 1975, Spain was the only western European country (together with Portugal) to experience a significant agrarian transformation in a non-democratic political context, that is, the Spanish agricultural policies were decided within a political dictatorship. Furthermore, and as a consequence of this, Spain did not participate in any of the important European regional trade agreements (RTAs) until 1986 when it became a member of the Economic European Community. In other words, Spain carried out its profound agricultural transformation within a context of a much greater economic isolation than the rest of the developed countries, as it was clearly autarchic until 1959 after which there was a slight

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2 This new model prompted John H. Davis to coin the term agribusiness in 1955, which defined a new type of agriculture that was “inseparable from the business firms which manufacture production supplies and which market farm products” (Davis, 1955).

3 Although Federico (2012) pinpoints 1933 as the true point of inflection in agrarian policies with the approval in the United States of the Agricultural Adjustment Act (AAA) by Roosevelt’s government in order to combat the depression. Furthermore, the intense interventionism and the strict regulations during the Second World War were also crucial.
and very gradual liberalisation until 1986. Finally, Spain, together with Portugal and Italy, had the lowest levels of economic development of the Western European countries in 1950. In the following decades, at different paces, these three countries experienced intense growth processes.

After this introduction, the article is structured into two main parts. In the first part we will briefly describe the most important common features of the modernisation of agriculture in the Western European countries after the Second World War and the extent to which Spain shared these features. In the second part we will focus on identifying the peculiarities and distinctive characteristics of the Spanish model in contrast with the standard western model. The paper ends with a conclusions section.

2. THE AGRARIAN TRANSFORMATION OF THE WESTERN EUROPEAN COUNTRIES AND SPAIN

After the Second World War, agriculture in developed countries underwent a profound transformation with significant technological innovations, continuing a process that had begun before the outbreak of the conflict. Therefore, the process comprised the perfecting and diffusion of some of the technological innovations introduced in previous decades such as the hybridisation of seeds or self-propelled agricultural machinery. Consequently, agricultural production and productivity increased substantially (Grigg, 1992; Federico, 2005; Olmstead and Rhode, 2008; Martín-Retortillo and Pinilla, 2015a and 2015b). These transformations took place within a context of intense structural change in the economies of these nations, which drained an enormous volume of the agricultural active population towards industry and services. Below we will summarise the main common characteristics of the process of agrarian change in developed countries from 1950 and we will examine the extent to which they characterised the growth of the Spanish agricultural sector.
Technological innovation

The speed of technological innovation became very fast in the decades after 1945. The principal innovations adopted were intensive fertilisation and the use of pesticides, the spread of self-propelled machinery and the use of high-yield seeds.

The mechanisation of farming in Spain developed very quickly, taking into account that even as late as 1947 almost 90% of all traction used in Spanish agriculture depended on muscular power. Only twenty-five years later, 95% of all of this energy was provided by mechanical traction. The evolution of the number of tractors per hectare reveals that its use of grew in Spain with even more intensity than in the rest of Western Europe. In the same way as in the EU-9\(^4\), the most intense growth occurred in the period 1950-1985, although in Spain the growth rate was almost double that of the rest of the continent and the EU-9. This trend of greater growth continued after 1985, while in Europe the increase was less pronounced and in the EU-9 it even decreased.

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<thead>
<tr>
<th></th>
<th>1950-1985</th>
<th>1985-2005</th>
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<tbody>
<tr>
<td>Spain</td>
<td>10.99</td>
<td>2.93</td>
</tr>
<tr>
<td>Europe</td>
<td>7.05</td>
<td>0.54</td>
</tr>
<tr>
<td>EU-9</td>
<td>6.36</td>
<td>-0.43</td>
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EU-9 includes Belgium-Luxembourg, Netherlands, France, UK, Ireland, Italy, Denmark, and besides, between 1950 and 1985, we have included the German Federal Republic. Between 1985 and 2005, we have taken into account the reunified Germany.
Europe includes 31 European countries, based on the sample of Martín-Retortillo and Pinilla (2015b) and excluding Albania.
Source: FAOSTAT (2009) and FAO (1948-2004)

The initial low level of mechanisation partly gave rise to this increased growth rate in the early years of the period studied, which explains the convergence process of Spanish agriculture towards the higher level of mechanisation in Europe\(^5\). The number

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\(^4\) UE-9 includes the figures for Germany, Belgium-Luxembourg, Denmark, France, Netherlands, Ireland, Italy and The United Kingdom.

\(^5\) Part of the subsequent reduction in the growth rate can be explained by the increase in the power of the tractors occurring during the second half of the twentieth century.
of tractors in absolute terms confirms not only that Spain followed the European trend but also that it converged with the European level\(^6\).

The use of fertilizers also increased considerably. In the 1950s the growth rate was particularly fast because Spain was recovering from the backward steps taken with respect to the use of fertilizers during the 1940s due to the autarchic policy of the Franco regime and the difficulties in importing during the Second World War and the early post-war years.

Table 2. Annual growth rates in the use of fertilisers (Tonnes of nutrients/ Ha), 1950-2005 (%)

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<tbody>
<tr>
<td>Spain</td>
<td>8.98</td>
<td>3.69</td>
<td>1.84</td>
</tr>
<tr>
<td>Europe</td>
<td>6.45</td>
<td>3.94</td>
<td>-2.16</td>
</tr>
<tr>
<td>EU-9</td>
<td>5.75</td>
<td>3.25</td>
<td>-2.35</td>
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However, in absolute terms, the expansionary inertia of chemical fertilisation in Spain was due to much more than a simple catching-up process. In fact the total tonnes used increased from less than half of the EU-9 average in 1950 to almost the same amount in 1975 and above the EU-9 average in 1995.

An increase in capital stock and a reduction of the use of traditional inputs

The adoption of the new technologies implied a reduction in the use of traditional factors of production, land and labour and a significant increase in the weight of the capital factor. In Europe, the use of capital increased until the mid 1980s, and after this date it stagnated or even declined, which coincided with a stagnation in agricultural production. Spain was no exception in this process of incorporating capital into its agricultural sector. Between 1950 and 2005, in Spain the use of capital increased at an annual average rate of 3.6%, a pace that was significantly higher than that of the other countries in Western Europe. Furthermore, the use of capital continued to grow after

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\(^6\) The comparison with France is particularly significant. In 1950, the number of tractors in France was eight and a half times more than those in Spain. In 1985, the French tractors were less than two and a half times the number in Spain. In 2005, the French figure was only 1.2 times more than the Spanish figure.
1985, when this growth was negative in the vast majority of the other European countries.

At the same time, in the Spanish agricultural sector the use of labour decreased (at an annual rate of 2.5%) as did the use of land (at an annual rate of 0.2%) (Martín-Retortillo and Pinilla, 2015a: 151-153). The rural exodus experienced in Spain during the second half of the twentieth century matched the overall European trend, although the number of agricultural workers did not decrease significantly until the beginning of the 1960s (Collantes and Pinilla, 2011), while in the Western European countries this decrease occurred decades beforehand (Grigg, 1992). Finally, the fall in the number of agricultural workers in absolute terms was 75%, which was slightly lower than that of the Western European countries (81%).

In the case of the use of land, Spain diverged from the European trend during the first decades of the post-war period, as its use of land continued to grow until 1970 by which time in Western Europe, cultivated land had decreased (Clar, 2013). However, from this year it also decreased in Spain. For the whole of the period 1950-2005, the absolute reduction in the use of land was similar to that of the countries close to Spain, such as Great Britain or France (Martín-Retortillo and Pinilla, 2015a: 140).

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<th>1950-1985</th>
<th>1985-2005</th>
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<tbody>
<tr>
<td>Spain</td>
<td>-2.20</td>
<td>-3.08</td>
</tr>
<tr>
<td>Europe</td>
<td>-2.49</td>
<td>-3.45</td>
</tr>
<tr>
<td>EU-9</td>
<td>-3.63</td>
<td>-3.40</td>
</tr>
</tbody>
</table>

Source: FAOSTAT (2009) and FAO (1948-2004)

The search for economies of scale

When millions of people abandoned farming there was also a strong reduction in the number of farms and a concentration of land in those that remained, therefore increasing their average size. The small farms were most affected by this process and therefore account for a high percentage of those that disappeared. On the other hand, the number of large agricultural holdings grew (Fennell, 1997: 74). The Spanish case is a perfect example of this trend. So, for example, in Spain between 1962 and 1982, of the more
than 400,000 agricultural holdings that disappeared, 72.5% of them were farms with less than 5 hectares, while those with between 50 and 100 hectares or more than 100 hectares continued to grow between these two dates. The result was an increase in the average size of the Spanish farm of 35% (Genovés, 1994: 176). This process was reinforced by Spain’s accession to the EU (Extezarreta, 2006: 277).

Table 4. Evolution of the average size of agricultural holdings (has), 1990-2005

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<tbody>
<tr>
<td>Spain</td>
<td>12.2</td>
<td>17.9</td>
<td>18.6</td>
<td>23.0</td>
</tr>
<tr>
<td>EU-9</td>
<td>11.6</td>
<td>13.4</td>
<td>15.4</td>
<td>23.6</td>
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</table>

Source: Own elaboration based on EUROSTAT (2013)

Rapid growth of productivity

A fundamental feature of the agrarian change process in the Western European countries in the second half of the twentieth century was a very rapid increase in the productivity levels that far exceeded those of a century and a half before (Bairoch, 1999; Federico, 2005). Both the productivity of the land and of labour or total factor productivity experienced a strong increase. So, for example, between 1950 and 2005 labour productivity grew in western European countries at an annual average rate of 4.5%, that of the Nordic countries at 3.5% and that of the Mediterranean European countries at 4.4%. Labour productivity grew in Spain during the same period at an annual average rate of 4.9% (Martín-Retortillo and Pinilla, 2015b). Strong growth in production, at least until approximately 1990, achieved thanks to the intense use of capital and most of all the afore-mentioned technological innovations, combined with the abandonment of farming of millions of workers explain this improvement in labour productivity.

Table 5. Annual growth rates of agricultural labour productivity

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<th>1950-1985</th>
<th>1985-2005</th>
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<tbody>
<tr>
<td>Spain</td>
<td>4.94</td>
<td>4.96</td>
</tr>
<tr>
<td>Europe</td>
<td>4.92</td>
<td>3.55</td>
</tr>
<tr>
<td>EU-9</td>
<td>5.93</td>
<td>3.28</td>
</tr>
</tbody>
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Calculation based on triennial averages of the agricultural production.
Source: FAOSTAT (2009) and FAO (1948-2004)
Land productivity also grew substantially as it more than doubled in Western Europe and increased nearly fourfold in Spain. The use of high-yield seeds or the intense use of fertilisers and pesticides were important factors causing this increase.

Finally, total factor productivity (TFP) also increased enormously. In Western Europe, it grew at an annual rate of 2% between 1950 and 2005, in Mediterranean Europe at 1.8% and in the Scandinavian countries at 1.1%. In the Spanish case, this increase was 2.4%, which therefore constituted the country with the highest TFP growth (Martín-Retortillo and Pinilla, 2015a).

A change in the position of the agricultural sector in the economy

The process of agrarian change in the western countries radically modified the position of the sector in the economy in two fundamental aspects. First, the weight of the agricultural sector, which had been contracting in relative terms since the beginning of the industrialisation process in Europe, became much lower in terms of employment and its contribution to GDP. Second, agriculture transformed from a sector which used inputs that principally originated from the sector itself and sold its output directly to consumers to one which purchased the majority of its inputs from the industrial sector (mainly machinery, fuel, fertilisers and plant-protection products) and sold most of its output to the agro-food industry. In other words, there was an intense integration process of the agricultural and industrial sectors.

With respect to the agriculture’s declining weight in the economy as a whole, Spain followed the European trend, although with a delay. In 1950, the agricultural sector still represented almost 50% of the workforce or contributed 30% to GDP, while in 2005, agricultural workers represented 5.3% of the total workforce and agricultural output contributed only 3.1% to GDP.

On the other hand, with respect to the integration of the agricultural and industrial sectors, the importance of the latter has never stopped growing. According to the classification of the agro-food development stages established by Louis Malassis, the basic characteristic of the food production structure that transforms from a commercialised conventional food system into first an agro-industrial system and then an advanced agro-industrial system is the superiority of the value added by industry with respect to the value added by agriculture (Malassis, 1997:238-9). In the case of
Spain, in 1985 the value of production of the agro-food industry was 1.2 times more than the agricultural final production. By 2002 it had grown to 1.7 times more (Gracia and Albisu, 2004: 158).

*The rise and change of the interventionist agricultural policies*

During the 1930s, the growth of public intervention in Europe was much more limited than the more interventionist policies applied by the Roosevelt administration in the United States with the passing of the 1933 Agricultural Adjustment Act, which marked the beginning of the end for laissez-faire in agriculture (Libecap, 1998). The Second World War merely prepared the ground further, as all the countries at war found themselves with no option but to intervene in agriculture to ensure food supplies to their hard-pressed populations.

Reconstruction was marked by wartime food shortages and a dearth of foreign exchange, resulting in policies that encouraged self-sufficiency backed by public intervention in the form of guaranteed minimum prices and tariff protection for certain basic crops such as cereals (Milward, 1984: 435-461; Fernández, 2016). It was the signing of the Treaty of Rome in 1957, however, that led to the Common Agricultural Policy, which signalled the beginning of intense public intervention in the European farming sector. National agricultural policies were progressively abandoned after 1962 (Ackrill, 2000: 29-42; Fearne, 1997: 11-33), and there was a tendency to homogenise these policies. Guaranteed prices, subsidies, income transfers to farmers and the promotion and placing of surpluses on the international markets have not only put European agriculture on the road to self-sufficiency, but have also reversed the trend that made the continent the world’s main importer of agricultural produce (Pinilla and Serrano, 2009).

The western European countries that had not yet joined the European Community adopted similar policies, while in the Eastern Bloc most countries imitated the Soviet model. In Spain, the Franco regime made the pursuit of self-sufficiency, above all in food, the principal symbol of national power. The instruments to achieve this were based more on fixed prices than the aspects mentioned above. However, the failure to achieve this self-sufficiency led the agricultural interventionism in Spain to also abandon a strictly domestic oriented policy and to begin following the recommendations
of international bodies, such as the Food and Alimentation Organization. Although Spain could not join the European Community until 1986, in the 1960s and 1970s there was a growing convergence of its agricultural policies with the supranational policies of the CAP (Clar, 2008).

*Increased capacity to affect the environment*

The improved productive efficiency of agriculture in western European countries, together with the major expansion of its production have had a highly significant impact on the environment. First, from an energy perspective, agriculture today is highly inefficient. The Achilles heel of its high productive capacity is an energy output that is lower than the energy it consumes through its inputs (Naredo, 1996, 303-412; Guzmán and González de Molina, 2006). This has serious consequences for the land, particularly in the absence of an integrated use of land, with important environmental effects (Tello, 2010).

The second consequence, which is much more short-term, is the high polluting capacity of modern agriculture. The intense use of machinery and other inputs contribute considerably to the emission of gases and other contaminating particles, and also the intensive use of chemical fertilisers has a high polluting impact through the emission of nitrates and phosphates (Sánchez-Chóliz and Duarte, 2003). The sector plays an important role in contributing to the deterioration of water quality.

Finally, in the European countries where irrigated farming is more extensively developed, the intense water regulation works that have been carried out have seriously affected the natural water cycle. This has occurred with the majority of the Spanish watercourses and the regulated river basins affecting the population residing in them. Furthermore, the soil salinity, already high in some areas, has increased substantially as a consequence of the introduction of irrigation.

The Spanish agricultural sector has also experienced all of these environmental effects. With regard to energy, in 1950-51, agricultural and livestock output represented 30,308 million Kcal with a consumption of external inputs into the agricultural system (electricity, fuels, fertilisers, machinery…) of 4,962 million, with the quotient between the two or an energy efficiency of 6.1. In 1999-2000, the final output had increased to 134,806 million Kcal, but the consumption of external inputs had increased to 106,184
million, representing a loss of energy efficiency of the system, now with a ratio of 1.27 (Carpintero and Naredo, 2006: 539).

With respect to the soil salinity of agricultural land, the intensification of the use of irrigation has affected the surface waters and by the beginning of the 1990s, thirty-seven per cent of them were salty. (Naredo and Gascó, 1992).

3. THE UNIQUE FEATURES OF THE SPANISH MODEL OF AGRARIAN CHANGE

In 1950, the agricultural sector was still the largest employer in Spain. Although the country’s agriculture had experienced significant transformations in the first third of the twentieth century, following the trend of other developed countries, there is no doubt that the situation in the Spanish rural context was unusual (Barciela et al., 2001; Christiansen, 2012; Clar and Pinilla, 2009; Clar, Martín-Retortillo and Pinilla, 2016). After showing how the principal aspects of the Spanish agrarian transformation after 1950 coincided with those of the Western European trend we will analyse its distinctive characteristics.

Agricultural policies and institutions during the Franco dictatorship

Until 1975, Spain lived under a dictatorship which was led by General Franco, with the support of the Spanish fascist party (*Falange Española*) and other conservative forces as a result of the victory in the Civil War in 1939 of the military rebellion against the Republic. In Western Europe only Greece and Portugal also had dictatorship regimes, although the intensity and scope of the repression and violence suffered in Spain was much more pronounced.

In December of 1946, the General Assembly of the United Nations, in its resolution 39(I), recommended the withdrawal of the ambassadors based in Madrid due to the fascist-style regime of Franco and his collaboration with Nazi Germany and Fascist Italy. The ration books that were introduced at the beginning of the war were maintained and hunger was not a strange phenomenon in Spanish society as the agricultural sector with extreme government intervention was unable to feed it
adequately. As a result, a large part of the exchange of food took place on the black market, benefitting particularly the wealthier landowners (Christiansen, 2005). The technological backwardness gave rise to a decline in agricultural productivity which fell to levels similar to those at the beginning of the century (Clar and Pinilla, 2011).

However, in the 1950s things began to change gradually, at least in economic terms, although not so much on a political level where the most noteworthy change was a softening of the repressive policy once the dictatorship felt secure, especially after having eliminated the anti-Franco guerrilla resistance which was highly active after 1945. So, after 1951, there was an important shift in the agricultural policy of Franco’s regime with a clear intention to take advantage of the technological innovations that were internationally available and to improve productivity. At the same time, the isolation of the Franco regime was coming to an end due to the intensification of the cold war. In November 1950 the General Assembly of the United Nations voted for the repeal of Resolution 39(I) and in 1955 Spain joined the organisation. The signing of the concordat with the Vatican and the bilateral treaty with the United States in 1953 were crucial in order to put an end to Spain’s international isolation. Even so, its reintegration into the political framework of the western countries was not complete as Spain remained completely excluded from the European integration process that had been initiated due to its political regime.

From a social point of view, the agrarian reform carried out in the 1930s during the Republican period had been reversed, with the return of land to the former owners who had supported Franco’s forces during the Civil War. On the other hand, in the 1940s, the repression, imprisonments and executions were still commonplace in the rural areas, with the majority of the victims being farmers who had supported the left-wing parties and their policies or the trade unions during the years of the Republic. The opposition to the agrarian reform that had been approved during the Republican years and other measures taken to improve the situation of those farmers with fewer resources were essential elements in the programme of the rebellion against the democratic regime. It is not surprising that one of their first measures, even before the end of the war, was to revoke this agrarian reform. From that moment, Franco’s agricultural policy was no longer based on social reform aimed at distributing the land and improving the living conditions of peasants, particularly in the south of the country, but became an agrarian
reform of a technical nature that only questioned the feasibility of the smaller farms and not the large estates.7

In the 1940s the influence of the fascist ruralist ideology of the regime meant that the continuance in the country and the traditional values of the agricultural activity were valued very highly despite the harsh economic, social and political conditions at that time (Silvestre and Serrano, 1951). However, and from the beginning of the 1950s, the policy applied to the Spanish agricultural sector was clearly biased towards productivity, which contemplated that a large part of its active population could be sacrificed in order to achieve an accelerated modernisation. This characteristic is not unique to Spain as it was shared by the other Western European countries between 1940 and 1980, with the objective of improving the production of food with the express support of state policies (Evans, 2001: 45).

A unique and characteristic feature of the Spanish case was the special conditions under which these productivity policies were implemented. The agricultural modernisation policy, aimed at boosting Spain’s economic development, was executed by Franco’s regime without taking into account other social or environmental considerations. The contribution of the agricultural sector to the so-called “Spanish miracle” of the 1960s, basically responded to the two fundamental objectives of the model: to supply cheap food to the population and labour for industrial and urban expansion (Clar and Pinilla, 2009). To do this, a whole series of agricultural and other measures were implemented which, due to the non-democratic nature of the regime, were not subject to debate and met hardly any effective resistance.8 While the agricultural modernisation processes in the European democracies took place within a context of free participation by civil society (unions, cooperatives, entrepreneurs…) and the consolidation of the welfare state, this was not the case in Spain where this modernisation was facilitated by the authoritative nature of the State with very high social and environmental costs and without parallel measures that would increase the income of farmers (Lanero and Freire, 2011:14 y 24).

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7 The Minister of Agriculture at that time could not say it more clearly: “all of the afflictions of our agriculture have been frequently attributed to the poor distribution of rural property, but most of all to one of its aspects, the “large estates”, forgetting or leaving in a secondary place the opposite kind of property, that of extreme fragmentation to which more than half of the country is subjected” (Cavestany, 1955: 9).

8 The policy regarding the construction of reservoirs or reforestation are paradigmatic examples. Not only was the opinion of the population directly affected by these policies not taken into account, but when necessary they were expelled from their places of origin with hardly any compensation.
Therefore, the transformation process of the Spanish agrarian model was carried out with very little effective resistance to the modernisation and its effects. We will now focus on the main institution that could have conducted this opposition to this stark productivism experienced by the Spanish rural environment: the agricultural unions. The workers unions had been declared illegal and the regime established a single vertical union which in the countryside was the Hermandad de Labradores y Ganaderos [Brotherhood of Farm Workers and Livestock Farmers]. This constituted an important difference with respect to what happened before 1936 and in the rest of the developed European countries. While in the other countries, public authorities and agricultural organisations designed the change process, in Spain the modernisation was the result of decisions made at the top of the regime’s political elite which depended on the internal and external economic needs (Moyano, 1994: 235). Not even the emergence of clandestine unions at the end of the 1960s gave rise to the questioning of the model of agricultural development through the legally established channels, with the regime’s only response being political repression (Bernal, 1993: 157-8)\(^9\).

Noteworthy examples of agrarian change decided from the top and with little or no capacity for those affected to intervene are the land consolidation policy, the hydraulic policy and the agricultural extension.

In line with the previously mentioned technical agricultural reform, the process of consolidating land responded to the objective of eliminating smallholdings\(^10\). Therefore, while in France the land parceling process affected mainly the large farms in the north of the country (Dovring, 1965: 49), in Spain, this policy mostly affected the small farms which had to restructure themselves in order to comply with a consolidation law which was initially voluntary but then became compulsory.

On the other hand, the expansion of irrigation was not the sole objective of the hydraulic policy. Another fundamental objective was the development of hydroelectric energy. So the building of reservoirs was prioritised over any other consideration,

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\(^9\) The case of Fuentes de Andalucía (Seville) is highly illustrative: In November 1968 a group of farm day labourers went to the Ministry of Agriculture to report the poor exploitation of a latifundia, and requested that it was expropriated and divided among the farmers. The labourers involved were subsequently condemned for unlawful association and were given prison sentences.

\(^10\) Again, the Minister of Agriculture of the day: “...as the primary objective of the agricultural policy of eliminating the structural difficulties that hinder the development of the new agriculture; the Land Consolidation Law was established (...) Until we eliminate the “small farms” of the northern half of Spain we cannot talk about a modernisation of its agriculture.” (1955: 309).
including the existence of rural and agricultural villages which would have to be flooded. Villages and farmland became waterlogged leading to the displacement of the population (Herranz, 1995). There was no possibility of the costs and benefits of these constructions being discussed within a democratic context. The government made decisions based on strictly technical criteria and there was no possibility of questioning them. Furthermore, the compensation for the displaced communities was very low and the local authorities usually led the negotiations in such a way so as to benefit their own interests (Lanero and Cabana, 2014: 239-41).

With respect to agricultural extension, the absence of this type of institution in Spain led to the creation of the Agricultural Extension Service (SEA) ex novo in 1955, based on the North American model and the guidelines of its experts, in the same way as the process carried out by the USA in Latin America. The North American extensionist influence was not unique to Spain bearing in mind that American aid programmes in Europe during the post Second World War period included such initiatives. However, the Spanish model, contrary to those of other countries such as France, constituted a type of “normative” extension, in which those affected did not intervene in the co-management of the agricultural modernisation process as was the case of France after 1959 (Sánchez de Puerta, 1996: 373-5). Some authors point out that from the end of the 1960s the Spanish agricultural extension had given rise to a model with a certain level of co-management between technical experts and farmers (Gómez Benito and Luque, 2007: 144-5). However, this co-management was limited by the technical-productive objectives. Any attempt to go a step further and include social objectives clashed with the local authorities of Franco’s government, leading some extension technical experts to move to a different region due to their affinity with the situation of the farmers (Gómez Benito and Luque, 2007: 146; Sánchez de Puerta, 1996: 427).

The impossibility of the farmers having their own political voice which can be seen in the examples above, translated into insignificant amounts of economic support. In other European countries, the public policies substantially increased the income of farmers (Spoerer, 2015). An analysis of Franco’s government spending on agriculture gives us a clear picture. Only wheat producers received subsidies from 1963 to prevent a fall in their income, given that wheat was considered a priority product. But the first project designed to truly improve the situation of the farmers as a whole, at the end of the 1960s, was concerned with productive aspects. So, irrigation represented half of
public investment, land consolidation accounted one third, while spending on R&D, education and professional training represented just 2% of the total. Of the subsidies granted to Spanish farmers between 1967 and 1975, those allocated to payments related to production (including price support) fluctuated between 21% and 33%, while those related to the use of inputs oscillated between 58% and 75%, with a clear predominance of the purchase of fuels (Fernández, 2008: 20-22).

**Figure 1. Nominal Rate of Assistance for the Spanish Agricultural Sector, 1956-2005**

The nominal rate of assistance (NRA) is defined as the percentage by which government policies have raised gross returns to farmers above what they would be without the government’s intervention (or lowered them, if NRA<0). NRA is expressed as a percentage of the undistorted price.

Source: Anderson and Valenzuela (2008).

The level of support enjoyed by the Spanish farmers was very low and was even negative for some years. Furthermore, it declined in comparison with that of the European Community countries. Expressed as percentages with respect to the EEC
averages, the support received by Spanish farmers in 1970 was only 23% of the EEC average per farmer; it was even lower at 19% of the EEC average per farm and even lower (14%) per hectare (Ministry of Agriculture, 1971: 10). Graph 1 confirms this trend in the low protection of Spanish farmers. Based on the difference between internal and external prices, Josling’s calculation of the gross subsidy equivalent of assistance per person engaged in agriculture placed Spain at the lowest levels, and in the period 1970-1985 it even had negative protection levels. This situation did not occur in any other country of his sample. In contrast, Spain’s level of assistance to farmers in the period 1965-69 was more than ten times lower than in Italy: 230 vs. 2,350, both in constant 2000 US dollars (Josling, 2009: 156). In Graph 2, we can observe how farmers in Western Europe already received a substantially higher level of assistance than those in Spain in the 1950s. The gap between the two continued to widen until it reached an enormous size just before Spain joined the EU. This, and the application of the Common Agricultural Policy (CAP) to Spain, considerably reduced this gap in government support bringing it down to a small amount which was due to the different production structure of the different types of agriculture.

Figure 2. Difference between the assistance given to agriculture in Western European countries and Spain, 1955-2004 (expressed as the difference in percentage points of the NRA to agriculture)

Given the productivist logic applied by a non-democratic regime which we have described, these dynamics are not surprising. However, Josling’s figures show that the problem of a low level of assistance for Spanish farmers was not a feature exclusive to the dictatorship, but persisted into the early decades of the democracy. Whichever protection indicator we use of the many offered by this author, only in the middle of the first decade of the twenty-first century agricultural support in Spain reached the same level as Western Europe as a whole and that of the EU member states.

In short, the policies related to agriculture and the rural environment during Franco’s dictatorship stood out not so much for what they did as for what they did not do. As in other countries, there were policies directed at land consolidation and rural planning and agricultural extension programmes, although in Spain the measures were more normative and imposed from above. But while in many of these countries the disputes and sharing of common interests between the politicians and agricultural institutions (unions, associations…) gave rise to high levels of support for farmers (Sheingate, 2001), in Spain the non-democratic context, the enormous discretionary power of government policy and the weakness of the rest of the institutions translated into an implementation of agricultural productivism with no checks and balances, and with hardly any compensation for those affected by it. The arrival of democracy in 1977 did not bring a substantial improvement to this scenario, due to fact that the agricultural and rural institutions had to be reconstituted after a forty-year absence and also because the principal objective of Spain’s democratic agricultural policy was productive convergence with the CAP with a view to joining the EU.

The rapid development of livestock production

Another distinctive feature of the Spain’s agrarian change after the Second World War was a growth in its livestock production that was significantly faster than that of the rest of the Western European countries. This is particularly surprising if we take into account that the ecological conditions of the majority of the Iberian Peninsula are, due to its extreme aridity, highly unfavourable for the development of a large livestock population. Traditionally, to adapt to these conditions there was a predominance of extensive sheep farming as these animals are ideal for rough grazing. Furthermore, until the middle or the end of the nineteenth century, depending on the different regions,
transhumance (of which the most well-known organisation was the Mesta, whereby the flocks were in the mountainous regions in the summer and in the valleys and plains in the winter) was a way of overcoming these restrictions. Moreover, mules predominated over horses or oxen as draught animals in agriculture. Despite this, the proportion of total agricultural production attributable to livestock production was remarkably much lower in Spain than in the countries of northern or central Europe (Reis, 2000: 27). Even as late as 1961, the participation of livestock output in Spain’s agricultural production was below 25%, when in the leading countries of Western Europe it represented over 50%. Subsequently, the weight that livestock production carried of total agricultural production increased by 13 percentage points in Spain but did not vary in Western Europe; therefore Spain converged with European levels.

| Table 6. Evolution of the participation of livestock farming in the agricultural production, 1950-2005 (%) |
|-------------------------------------------------|---------|---------|---------|---------|---------|
| Spain         | 23.0    | 30.4    | 32.9    | 38.0    | 36.8    |
| Europe        | 46.3    | 46.9    | 49.0    | 49.3    | 47.7    |
| EU-9          | 52.4    | 51.8    | 54.4    | 53.9    | 51.9    |

Source: FAOSTAT (2009)

Until 1985, the evolution of Spanish livestock farming followed the Western European trend, but after this, Spain experienced a rapid acceleration while in the majority of the continent livestock farming declined or remained stagnant. Graph 3 shows that in 1955 the UK had five million livestock units more than Spain and still in 1985 this distance was close to five and a half million. In 2005, however, the difference between the two countries was only 635,000.
This strong expansion in livestock production represented 47.6% of the total increase in Spain’s agricultural production from 1970, and 62.5% between 1985 and 2005. Furthermore, this expansion was dominated by intensive livestock farming focused on granivores (poultry and porcine) which, increased from 48.6% of the total tonnes of meat produced in Spain in 1961 to 75% in 1985. It is true that the boom in intensive livestock farming was a feature common to many western countries, but of the EU countries studied only Finland exhibited a change in its livestock structure as intense as in Spain (Table 7).

Table 7. Percentage of granivores of total tonnes of meat produced

<table>
<thead>
<tr>
<th></th>
<th>1961</th>
<th>2005</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Austria</td>
<td>68.3</td>
<td>74.2</td>
<td>5.9</td>
</tr>
<tr>
<td>Finland</td>
<td>47.1</td>
<td>77.1</td>
<td>30.0</td>
</tr>
<tr>
<td>France</td>
<td>46.2</td>
<td>69.1</td>
<td>22.9</td>
</tr>
<tr>
<td>Germany</td>
<td>67.0</td>
<td>80.9</td>
<td>23.9</td>
</tr>
<tr>
<td>Greece</td>
<td>31.9</td>
<td>53.7</td>
<td>21.8</td>
</tr>
<tr>
<td>Italy</td>
<td>44.5</td>
<td>63.5</td>
<td>19.0</td>
</tr>
<tr>
<td>Portugal</td>
<td>57.0</td>
<td>79.4</td>
<td>22.4</td>
</tr>
<tr>
<td>Spain</td>
<td>48.6</td>
<td>80.5</td>
<td>31.9</td>
</tr>
<tr>
<td>Sweden</td>
<td>60.5</td>
<td>70.3</td>
<td>9.8</td>
</tr>
<tr>
<td>UK</td>
<td>46.3</td>
<td>67.5</td>
<td>22.2</td>
</tr>
<tr>
<td>W. Europe</td>
<td>58.3</td>
<td>77.0</td>
<td>21.7</td>
</tr>
</tbody>
</table>

Source: own calculation based on FAOSTAT (2009)
This strong commitment to intensive livestock farming, which broke away from the traditional extensive model which had prevailed in Spain, was related to the regime’s policy decision to offer Spaniards meat at affordable prices. Given the limited availability of necessary raw materials, animals and fodder, and the absence of an appropriate industrial structure, Franco’s government handled State trade policy in a way so as to facilitate the entry of new breeds of animal (broiler chickens and Large White or Landrace pigs), and large amounts of soya and corn from the United States, while it opened the door to capital investments of large fodder multinationals in Spain (Clar, 2013). The relationship between these large transnational companies and small Spanish businesses enabled the rapid implementation of an agro-industrial model based on vertical integration in which the multinationals were the strongest link and the livestock farmers the weakest link in the production chain (Clar, 2010).

Livestock farming was not exempt from the productivist obsession. The large capitalisation required soon gave rise to a strong concentration of production and a significant increase in the size of businesses (Ríos and Coq, 2014: 18). The intensive livestock farms were affected and between 1987 and 1997 the number of pig farms fell by 70% while the livestock population grew by 255% (Arnalte, 2002: 398). A study conducted in the mid 1990s reflects how the degree of specialisation increased significantly with the economic size of granivore farming. It was not the same case for herbivores in Spain (Ruiz-Maya, 1994: 45).

To a large extent, this emphasis on size and economies of scale, together with the opening up of the country to foreign trade between 1955 and 1995 resulted in the improvement of Spain’s position in the international meat market. In the 1950s Spanish meat exports represented only 21% of the imports, but in the first decade of the twenty-first century they represented 209%. The growth in meat exports was spectacular, increasing from 0.4% of total Spanish agricultural exports in the 1950s to 12% in 2008-2011. (Clar, Serrano and Pinilla, 2015: 164-167). This is not surprising if we take into account that in pig meat, only China, the United States and Germany had a production that was larger than Spain’s in 2010.
The crucial importance of the expansion of irrigation

A third distinctive feature of agricultural change in Spain is the enormous importance acquired by crop production grown on irrigated land. In order to understand this concept it is necessary to take into account the arid conditions of the most of the Spanish territory (with the exception of the Atlantic northern strip where there is a much higher level of humidity). Traditionally, this meant that the productivity of the land was much lower than in the other Western European countries. Furthermore, the innovations that had been developed initially in England (mixed farming) from the seventeenth century and which had extended in the nineteenth century to many other European countries could not be adopted in Spain due to the climatic conditions. The elimination of fallow land and its replacement with fodder legumes was unfeasible because these plants required an amount of water that was not usually available in most of Spain. After the Civil War, for the Franco regime, the expansion of irrigation offered a way to enable the increase of agricultural productivity without affecting the redistribution of land, intensifying a policy initiated at the end of the nineteenth century. From 1977, and within a democratic framework, the commitment to the expansion of irrigation continued (Duarte et al., 2014).

So, irrigation constituted the principal public investment related to agriculture in Spain between 1955 and 2005. The real net capital stock (in thousands of euros of 2000) devoted to basic water infrastructure and irrigation grew from 2,448 million euros in 1955 to 25,279 million euros in 2005. The investment in water infrastructure was particularly strong from the 1960s to the early 1990s. In these decades, the basic irrigation water infrastructure accounted for over 20% of the Spanish public infrastructure and in certain periods close to or above 25% (Cazcarro et al., 2015b: 5109-5112).

With respect to surface area, the number of irrigated hectares grew from 1.3 million in 1950 to 3.8 million in 2005. This expansion was particularly fast until 1982 when an area of three million hectares of irrigated land was reached. In this way, the percentage of Spain’s irrigated land of the total irrigated area in Europe grew from 15.3% in 1950 to 20.4% in 2005, growing at a faster rate than in other countries. The two European countries with the largest irrigated areas were Italy and Spain which practically had the same area in 2005, although in 1950 Italy had an advantage of two million hectares, more than doubling Spain’s irrigated area (Martín-Retortillo and Pinilla, 2015a). Such
an enormous growth in the irrigated area, particularly in the driest areas of Spain, which is where crop production has increased the most, raises serious doubts about the economic and environmental sustainability of continuing this expansion (Cazcarro et al., 2015b).

The large expansion of irrigation in Spain has had a significant impact on the dynamics of agricultural production. Spanish agriculture has become a sector which is mostly based on irrigated crops. In 1955, almost 42% of Spain’s crop output was produced from irrigated land and in 1980 this had increased to 50%. In fact, in 2006, the output produced from irrigated farming represented 65% of the total. The analysis of the production increases in the fifty years after 1950 confirm this trend. More than two thirds of the increase in crop production experienced by the Spanish agriculture sector between 1955 and 2006 was due to the extension of irrigated land (Cazcarro et al., 2015a). In the twenty-five year period between 1955 and 1980, almost half of the total increase of Spain’s crop production was due to irrigation. Subsequently, this trend progressed strongly and the increase in the production of irrigated crops has more than compensated for the decline in the production of rainfed crops (Graph 4).

The increase in irrigated land significantly contributed to the huge growth of Spain’s crop production during the second half of the twentieth century. Production increased due to the replacement of dry crops with irrigated crops and the resulting larger harvests, together with growth in productivity derived mainly from the technological innovations. (Cazcarro et al., 2015a: 346).

The progress made in irrigated crops is reflected in the distribution of the agricultural product. In 1955 the structure was clearly dominated by cereals, by 2006, this dominance had been transferred to fruit trees and cereals had dropped to fourth place, immediately behind horticultural products. In other words, these are the products where irrigation has expanded the most and which now occupy the leading positions in the Spanish production structure.

Irrigation favours a more intensive type of agriculture which complemented the emphasis placed on specialisation and the greater size of farms (Ruiz-Maya, 1994: 44). The implementation of irrigated farming required a capitalisation of farms which many traditional farmers could not assume and stimulated the search for economies of scale to ensure a return on investment.
Figure 4. Percentage of irrigated crop production over total crop production in Spain, 1955-2006.


In short, the huge expansion of irrigation, derived from the great emphasis of the Franco regime on hydraulic policy and the construction of reservoirs, in turn responded to a productivist model which largely determined the evolution of Spanish agriculture, fundamentally nourishing the strong growth of its output and explaining the changes in its production structure since the 1960s.

The persistence of growth in agricultural production

During the period 1950-2005, the Spanish agricultural product grew more intensely than in the rest of Europe and the EU-9. However, the most characteristic feature of the Spanish model is not this faster growth rate but its persistence over time, unmatched by any other Western (or Eastern) European country (Martín-Retortillo and Pinilla, 2015b). The agricultural production of the Western European countries stagnated from the mid 1980s. A fundamental element of this stagnation is the implementation in 1992 of the MacSharry Reform of the CAP which represented a change in philosophy in this policy. It transformed from a price policy to a direct income support policy, with a clear decrease in the stimulation of production. Also at the beginning of the 1990s, the inclusion of agriculture in the GATT Uruguay Round marked the beginning of a
liberalisation process in the international markets of these products which affected the position of Europe.


<table>
<thead>
<tr>
<th></th>
<th>1950-1985</th>
<th>1985-2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spain</td>
<td>2.85</td>
<td>1.29</td>
</tr>
<tr>
<td>Europe</td>
<td>2.43</td>
<td>-0.08</td>
</tr>
<tr>
<td>EU-9</td>
<td>2.19</td>
<td>-0.04</td>
</tr>
</tbody>
</table>

Source: FAOSTAT (2009) and FAO (1948-2004)

As a consequence of this rapid growth rate, in contrast to the stagnation in Western European countries, the level of Spanish agricultural production became close to that of larger countries such as Germany, France or Italy. In 1960, Spanish agricultural production was just below half that of Italy and 2.25 times less than France’s production. By 1985, Spanish production had reduced the gap substantially with both countries. Finally, in 2005, the volume of Italian production was only 1.1 times more than Spanish production and that of France was 1.5 times greater.

Graph 5. Agricultural production in Western European countries vs. Spain (ratio of other countries agricultural production over Spanish agricultural production)

Source: FAOSTAT (2009) and FAO (1948-2004)
How can we explain this persistence in the growth of production when that of the rest of the countries in Western Europe behaved so differently? In our opinion, there are two causes. First, despite the afore-mentioned change in the CAP, the entrance of Spain into the EU represented a significant increase in the support given to Spanish farmers, which implied a significant stimulus for expanding production (see Graph 1)\textsuperscript{11}. Second, after the transition period had come to an end, access to the European Union countries market increased Spanish exports of agro-food products enormously which also constitute another stimulus to expand the production of exportable products.

Just at the time when Spain joined the EU, the CAP abandoned the previous productivist logic, turning to one which implied decoupling between aid to farmers and production incentives. This in itself represented a serious problem for the Spanish agricultural sector which, without having resolved its structural deficiencies had an over-sized production capacity which translated into surpluses in many products. In addition, during the period 1986-1989 the PAC measures were not fully implemented and family agriculture received European investments and subsidies to facilitate their adaptation (Extezarreta, 2006: 307). The European policy of subsidies per product unit reinforced the process of agricultural intensification, improving productivity and the income of farmers; but it also aggravated the problem of surpluses and gave rise to a transfer of income from the consumers to the farmers, which could not last for very long (Genovés, 1994: 174).

Therefore, from 1990, the full implementation of the CAP translated into a fall in the income of farmers in constant terms, while the number of people who were leaving the rural context increased. Between 1986 and 1996 Spain reduced its agricultural workforce by almost 850,000 people, due to the rationalisation of production policy and the support granted to those who abandoned the activity. A considerable part of those who remained in the countryside did so thanks to the subsidies. As the conclusion of a study on the first decade of Spain’s EU membership comments: “Spanish agriculture, which entered the EU believing that its competitiveness would be the key to opening the door to the European markets, has become a “compensated” or “subsidised” agriculture” (Lamo de Espinosa, 1997: 141; 154 and 162).

\textsuperscript{11} Despite the change in the orientation of the CAP, a large part of the Mediterranean products, such as olives or grapes were not significantly affected by it (García Grande 2005, Neal 2007).
Despite the huge efforts made from the mid 1950s, Spanish agricultural productivism had managed to adapt the agricultural sector through the total or partial abandonment of the farming activity without the dimensional restructuring that had occurred in other countries such as France or Germany which would have rendered family farms viable (Barceló, 1994: 222-3). Only the large estates were transformed into large agricultural companies with sufficient capacity to compete in Europe. And this reality of the Spanish rural context became even more pronounced after the MacSharry Reform of the CAP.

The new CAP, which was implemented in 1992, gave rise to a major reduction in the number of farms throughout Europe, highlighting the dual character of the EU agricultural sector: highly subsidised family farms vs. highly productive and less subsidised corporate farms. In the Spanish case, this orientation would have underpinned the debate between family agriculture and corporate agriculture, favouring the latter which, in the mid 1990s represented a quarter of Spain’s farms, but ¾ of its production (Lamo de Espinosa, 1997: 184-5).


In short, the Spanish agricultural sector would have ended up taking the form of a dual reality, similar to that of the most important European countries: on the one hand,
there were economically small family farms highly dependent on subsidies and on the other hand, economically large corporate farms in which production and an increasingly large proportion of the CAP support were concentrated (Extezarreta, 2006: 294 y 308). In contrast with the stark productivism developed by the Franco regime, other “post-productivist” considerations, such as environmental issues or sustaining the rural population, have entered the agricultural equation. This has given a certain degree of stability to the income of family farming, which is developed both full time or, as is usually the case in Spain, part-time. All of these factors have slowed the intense process of the disappearance of farms experienced since the 1960s in exchange for a dependency on subsidies which does not guarantee their future.

Furthermore, gaining access to the European market initially represented excellent trade opportunities for those products, particularly Mediterranean products, in which Spanish agriculture was competitive. Internal trade between member nations increased substantially after the abolition of internal tariffs, and even more so with the creation of the single market or monetary union. Agricultural trade was no exception (Serrano and Pinilla, 2011). Spain, therefore, benefitted initially from accessing, under more favourable conditions, a market with enormous potential. But more interesting than these benefits, which we could classify as being static derived exclusively from trade liberalisation, is that the Spanish agro-food sector became highly dynamic after Spain’s accession, introducing technological improvements and adapting to the new conditions of demand and consumer tastes. In short, although they were relatively small, Spanish agro-food companies learnt how to grow and improve their productivity (Serrano et al., 2015). Consequently, agricultural production, integrated in the complex agro-food sector, has grown, and Spain has become one of the world’s leading food exporters. As we can observe in the graph 6, agricultural exports grew at a very fast rate after 1985, and their volume multiplied almost five-fold in only twenty years.

4. CONCLUSIONS

A review of the trajectory of the Spanish agricultural transformation after 1950 reveals that it shared the principal characteristics of the Western European trend. This is not surprising given that Spain also shared the principal features of the transformation processes with other countries: urban development, industrialisation and economic tertiarisation, growing imports of technology, dietary change… However, there were at
least two important differences with respect to other Western European countries, with the exception of Portugal. First, the whole process took place within a dictatorial context in which the institutions and social groups that traditionally influenced and guided the political decisions were unable to exercise their role. Second, and also related to this aspect, until 1986, Spain did not form part of any European regional trade agreement, not even the EFTA as in the case of Portugal. These two differences make Spain a unique case within the western agricultural transformation pattern.

The distinctive features of the Spanish case all respond to the same rationale: agricultural productivism at any cost. Whether it was the radical transformation of Spain’s livestock farming or irrigation and with it the structure of crop production, in all cases there was an emphasis on an agriculture focused on intensive production, breaking away from the traditional agrarian model. The productive inertia gave rise to an agriculture based on economically large capitalised farms reinforced by the policies of the Franco regime. These policies and their effects did not experience the typical wearing down of the democracies, so any opposition to them or proposed moderation was very weak or did not exist. If productivism was a characteristic shared by many countries at this time, Spain’s principal distinguishing feature was that its productivism had no barriers or compensations. In contrast to the rest of the farmers in Western Europe, farmers in Spain received very little government support and their income was the lowest in Europe compared to those obtained in other economic activities. Furthermore, the rapid growth in Spanish agricultural production was based on two main elements that were hugely important: the increase in irrigation as an essential element for the expansion of crop production; and the rapid development of intensive livestock farming, explaining the fast growth in animal production.

After the arrival of democracy, initially few modifications were introduced and the model of agrarian change continued beyond Franco’s dictatorship. However, Spain’s accession to the EU implied a significant change in agricultural policies and gave it comfortable access to the European market, which stimulated significant growth in production, while that of the other Western European countries stagnated. On the other hand, the democratic change also gave rise to more complex decision-making processes, in which the different economic agents and social groups were able to intervene. The case of the hydraulic policy and the intense political and social debate surrounding it is a good example.
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