Meso-economics. The Case of Personal Agrarian Exchange

Received: 22.11.2022 Available online: 31.03.2024

Dimitar Terziev*

Abstract

Widespread is the view of the existence of three levels in the economy - macro, meso and micro. Economic theory also develops on three levels. Macroeconomics and microeconomics consist of well-grounded knowledge. Meso-economics is a relatively new subject and less developed. We try to contribute in this direction, pursuing two goals: theoretical – literature review, explanation of the economic nature of the meso-level, description of the purpose it serves and its characteristics; and practical – to demonstrate one possible research approach for studying the meso-economic level.

We extend our previous research on a group of Bulgarian farmers-practitioners personal exchange instead of impersonal one. For many "personal exchange" is in the past. Not for us. Looking around one can see a growing number of cases of personal agrarian exchange. It is modern and differs from those we know from centuries ago. Prestigious restaurants show the farms where the products they use come from -names, location, features, more and more

consumers shop their food only from certain producers, large retail chains present their farms-suppliers - names, photos, stories, etc. The volume of this type of exchange is still small. But its influence and potential to grow is important.

Keywords: meso-economy, meso-economics, personal agrarian exchange

JEL: A10, B41, Q10

Introduction

conomics is a relatively new science and academic discipline. But the pursuit and attempts to understand the nature of wealth and economic progress have a long history. It could be traced back to Plato (the role of specialization), Aristotle (the nature of money) and Xenophon (profitable estate management). All of them used the term Οἰκονομικός (Oeconomicus) - a system of knowledge and principles for good household (including agriculture) and state (town, at that time) governance¹. During the early Middle Ages interest in the subject was sustained by Arab scholars, among whom Ibn Khaldun stood out - Civilization and its wellbeing, as well as business prosperity, depend on productivity and people's efforts in all directions in their own interest and profit2. In

^{*} Department of Agricultural Economics, UNWE

Which differs from Politics (the art of governing a Nation), as Aristotle clearly explained in Book I section [1343a] [1] of Oeconomicus (Aristotle, 1935).

² More on the subject could be found in Sherwani (1985)

the late Middle Ages, the emphasis changed and the term *économie politique* (political economy) dominated. It appeared for the first time in 1615 - Traité de l'economie politique (de Montchrestien, 1615) and is used by many scientists including Jean-Jacques Rousseau (Rousseau, 1755).

Finally, a new science was created by Adam Smith and David Hume, based on the same idea - the individual interest is fundamental for the economic progress of human society -By pursuing his own interest he frequently promotes that of the society more effectually than when he really intends to promote it. I have never known much good done by those who affected to trade for the public good (Smith, 1776, Book IV, Chapter II, paragraph IX). Later on many economists contributed to the development of the science, looking at it as a unified whole. This understanding began to change during the Great Depression. The deep and prolonged crisis creates an impression of the inability of private business to cope with the problems and of the need for governmental intervention. John Maynard Keynes substantiates this idea theoretically (Keynes, 1936). Thus, the complete science until then is divided into two - macroeconomics and microeconomics³, dealing with different subjects - the so called macro and micro level of the economy, respectively.

The modern economic theory today has a detailed understanding of what is happening at both levels. These are:

- a) the nature of the:
 - i) firm (Coase, 1937);
 - ii) contracts (Hart, 1995);
 - iii) market and hybrids (Williamson, 1996)

on the micro level, as well as,

- b) on the macro level:
 - i) institutions (North, 1990);
 - ii) the economic role of the state4;
 - iii) the way of their analysis (Coase, 1960).

And that was enough over a long period of time when economic institutions were created in accordance with the needs of economic agents. Adam Smith's tradition of peace, easy taxes, and a tolerable administration⁵ has been adopted and followed. The society has expected of business to produce needed goods and services, and to ensure jobs and income. The picture has changed in the second half of the last century. The requirements to business are changing. Human rights, ecological issues, social responsibility, etc. have become modern concepts. Groups

In fact, the terms macro and micro appeared several years before Keynes's General Theory. The Norwegian economist Ragnar Frisch (Nobel prize laureate for 1969) introduced both terms into the economic theory in 1933 (since he had already coined the term econometrics in 1926).

⁴ Priceless is the collection on this topic by Peter Boettke and Peter Leeson (2015). In terms of time, it starts in 1848 (Mill) and ends in 2009 (Shleifer), going through all big names in economic science.

In 1755 (4 years before *The Theory of Moral Sentiments* and 21 years before *An Inquiry into the Nature and Causes of the Wealth of Nations*) the 32-year-old Adam Smith delivered a lecture outlining his late ideas. In 1793 (three years after Smith's death) Dugald Stewart presented in the Royal Society of Edinburgh his *Account of the Life and Writings of Adam Smith*. There he quoted passages of this lecture. The exact wording is: *Little else is requisite to carry a state to the highest degree of opulence from the lowest barbarism, but peace, easy taxes, and a tolerable administration of justice; all the rest being brought about by the natural course of things. <i>All governments which thwart this natural course, which force things into another channel, or which endeavour to arrest the progress of society at a particular point, are unnatural, and to support themselves are obliged to be oppressive and tyrannical.*

of noisy activists, having nothing to do with economic activities, began to impose rules on the people in business. Many formal organizations, mostly international, followed them. The result was that the relatively harmonious, until then, process of creation, implementation and operationalization of economic rules was broken. The macro and micro level of the economy were dramatically separated from one another. The economic institutions (rules of the game, created on the macro level) became increasingly complex, incomprehensible, often contradictory and, as a rule, hindering rather than supporting microlevel economic activity. The things got out of their natural course. That is how a need for an intermediate (Meso) level arose. A level to act as a transmitter between the macro and micro level in both directions. To persuade the macro level for the needs of micro level (creation of formal institutions) and to support the micro level for dealing with the new regulations (operationalization of formal institutions). The business responded quickly by developing various new governance modes. Analyzing and summarizing them, economic theory developed two concepts - Polycentric Governance and Meso Institutions.

Polycentric Governance

The term was introduced by Michael Polanyi in his impassioned call (Polanyi, 1951) for keeping freedom in both society and science. But the application of the term in economics we owe to the Ostrom family. Vincent (with colleagues) first presented the

Meso-economics. The Case of Personal Agrarian Exchange

idea⁶ analyzing the functioning of a legal nonentity. Later Elinor, in a series of publications, developed it to a system for governance of commons and finally to a general economic model (Ostrom, 2010)⁷. Today, the widely accepted meaning of the term is: Governance with multiple centers of decision making each of them having some degree of autonomy⁸.

At present, Polycentric Governance (PG) is a modern economic concept and the literature on it is endless. Its elements and structure, process and outcomes, conditions for success and obstacles, and etc. important features have been explored, tested and analyzed. As the main advantages of this theory for business practice are indicated the following (Marshall, 2009):

- high adaptive capacity to social and environmental change;
- risk reduction by decreasing errorproneness and promoting learning;
- providing good "institutional fit" for complex natural resource systems.

Typical cases of PG in agriculture are:

 public private partnership (Marbaniang at all, 2020) – work in public parks and gardens (Build-operate-transfer), cleaning and maintenance of the street and road network (Operational/service management contracts), food supply to municipal organizations (Loose joint ventures), organized markets (Space and facilities leasing), ecosystem services (Build-

^{6 ...} many centers of decision making that are formally independent of each other... (Ostrom, V, at all, 1961: 831-32)

Both Vincent and Elinor Ostrom had degrees in Political Science and taught this subject. But their research work crossed the borders and has implications more in Economics (Political Economy as they preferred). The Nobel Prize in Economics (2009) awarded to Elinor is the proof.

⁸ More modern and precise is: collaboration among at least three entities, at least two of which cannot merge with or be acquired by another (https://papers.sioe.org/online2021).

operate-own) and disaster relief (Informal public-private co-operation);

- polycentric governance initiatives (Ostrom, 2010) – safety food movements, agritechnologies innovations, nature-based education, agri tourism;
- Community (complementary) currency. This is a mechanism in which individuals (mainly), businesses (sometimes) and local authorities (rarely) voluntarily create and use self-established and self-regulated currency in order to isolate themselves from the downturns of general economy (Gómez, 2010). It was an exotic idea for a long period of time but today we found such schemes in more than sixty countries. They are popular and effective namely in rural areas;
- other (popular not only in agriculture) are organizational (mergers and alliances), contractual (various type of contracts), social (festivals, fairs, holidays), etc.

We conducted a detailed review and consideration of published research works on all these modes and drew the following conclusions on the challenges in applying the PG:

 selection of participants. Working together (multiple centers of decision making) is not easy to be undertaken. The involved parties must be persuaded and sincerely ready to do so. It is critical in the case of Loose joint ventures, Space and facilities leasing, Build-operate-own contracts. Informal public-private co-operation, Agritechnologies innovations, Complementary Currency, Organizational modes. Various factors have to be taken into account, including special psychological characteristics (propensity to opportunism

- Selection of participants is a hard task for farmers. It is one of the main obstacles for them to participate;
- quarantee the implementation of decisions. Decisions must not only be made, but also implemented. Which is a hard task in conditions of absent formal leadership (... each of them having some degree of autonomy). Especially in a situation of asymmetric distribution of information. We found this problem in the following modes: Build-operate-transfer, Build-operateown, Informal public-private co-operation, nature-based education, agri tourism, contractual and social. The free riding behavior is their frequent companion. Here we have the well-known problem of the lack of trust and confidence. Both public and private participants suffer in this situation;
- paying the bill. PG requires good and permanent coordination (and inspection in some cases). It is costly and this cost could not be internalized by one of the participants (... at least two of which cannot merge with or be acquired by another). The problem of high transaction cost is typical for all modes shown above. Again, the situation is hard for both types of participants;
- achieving results. Many of PG modes demonstrate low efficiency in the short term. It is typical for food supply to municipal organizations, organized markets, ecosystem services, disaster relief, agritechnologies innovations, nature-based education, complementary currency, organizations, and contracts. Farmers need fast profit to cover their costs. They will participate if they see chances of getting a profit. Public participants may have other goals as well.

characteristics (propensity to opportunism in the first place) of the economic agents. For the purpose of our study, we are interested in the ability of PG to serve the

meso level of the economy⁹. To play a role of a transmitter between the economic micro and macro levels in both directions. Having in mind the challenges shown above and the ability and the readiness of a potential player to participate, the following table was created (Table 1).

Meso-institutions

The idea for a meso-level in the economy can be traced back to Schumpeter's theory of creation, adoption and dissemination of innovations (Schumpeter, 1952). Later, the Meso-economic level was studied and analyzed from various perspectives. These are theories of: groups in economy (Dopfer at all, 2004); economic cycles (Klepper, 1997); social initiatives of economic agents, different from those led by the motive for provision of

Meso-economics. The Case of Personal Agrarian Exchange

maximizing utility (Etzioni, 1988); networks for industrial modernization (Cantner and Krüger, 2004); addressing the macro level policy (and especially – reforms) to specific groups of population (by age, gender, education, income and property) and businesses by industrial sectors (Stewart, 1992); development of industry through time (Winter at all, 2003); various behavioral models according to different business positions (Ng, 1986); selforganization for economic adaptation (Gowdy, 1992), among many other.

The understanding that Meso-level in economic theory is called upon to restore the integrity of economics by bridging the gap between macro and micro, and it took shape thanks to the work of Stewart (1992) – investigation on the impact of economic policy and regulation (macro level) on the coordination

Table 1. Polycentric Governance as meso-economic level instrument

Polycentric Governance Modes	Ability to deal as a transmitter from		
	Macro to micro level	Micro to macro level	
Build-operate-transfer	Strong	Weak	
Operational/service contracts	Strong	Weak	
Loose joint ventures	Strong	Weak	
Build-operate-own	Strong	Strong	
Informal p-p co-operation	Strong	Strong	
Safety food movements	Weak	Strong	
Agri-technologies innovations	Strong	Weak	
Nature-based educations	Strong	Strong	
Agri tourism	Strong	Weak	
Complementary Currency	Weak	Weak	
Organizational	Weak	Weak	
Contractual	Weak	Weak	
Social	Strong	Strong	

Source: Author's analysis

Originally (Michael Polanyi and Vincent Ostrom), PG was created for different purpose. It's role in meso economic level was justified by Elinor Ostrom. It could be seen even in the title of her most influential publication - Beyond Markets [micro level] and States [macro level] (Ostrom, E. 2010).

between the economic agents (micro level); Ebner (2010) - Embedded Entrepreneurship, Sawyer (2018) – demonstration of the lack of a logical link between macro and micro level; Nelson (2005) – mutual dependence between technological and institutional modernization, etc. The great progress came with the work of Claude Ménard (2014, 2017, 2018).

At the beginning of the XXI century, we already had a detailed understanding of economic institutions - *Institutions are the rules* of the game in a society ... that shape human interaction (North, 1990). And then Geoffrey Hodgson asked his critical question: ...how do people understand rules and choose to follow them (Hodgson, 2006)? And continued: We have to explain not only the incentives and disincentives involved but also how people interpret and value them (ibid.). According to Ménard, the answer is in meso-institutions. They ...designate the set of devices (entities) and mechanisms (procedures) through which the general rules are translated, adapted and made operational, providing guidelines to operators and users and feedback to decision makers (Ménard et all, 2018). And, in a more detailed manner, Meso-institutions are the set of devices and mechanisms through which specific rules (embedded in the general ones) are delineating the domain of transactions that are possible and allowed and the modalities of their enforcement, 'Mechanisms' are here understood as the procedures through which coordination and monitoring are processed, while 'devices' are the organizational modalities through which mechanisms operate. For example, a regulation is a mechanism; a regulatory agency is a device (Ménard, 2018).

A few conclusions could be made based on the analysis of the vast literature on the topic since 2014 year, namely:

- meso-institutions are formal (regulatory agencies, for example) and informal (such as voluntary food safety standards);
- meso-institutions serve three purposes:
 - to translate and adapt the general rules;
 - to offer incentives (or disincentives) for specific behavior;
 - · to provide monitoring and verification.
- meso-institutions "work" mostly in one direction – from macro to micro.

Our approach to meso-institutions is novel to a certain degree. Hodgson's question (How do people understand rules and choose to follow them?) and Ménard's definition (A set of devices and mechanisms for translating, adapting and made operationalizing the general rules) give the impression of meso-institutions as a one-direction mechanism (as it is mentioned above). Yet a thorough research and consideration of the publications in the field provide evidence of the importance of the other direction as well. Let us take a look at two of Ménard's definitions (one of them mentioned above) again:

- ...designate the set of devices (entities) and mechanisms (procedures) through which the general rules are translated, adapted and made operational, providing guidelines to operators and users and feedback to decision makers (Ménard et all, 2018), and
- ...meso-institutions operate as intermediaries, in charge of implementing general rules through their translation into specific guidelines and providing feedback from operators having to deal with these rules (Menard, 2014).

No doubt, there is a difference between to and from. And it is essential. Apparently Ménard has understood this difference and supplemented the second definition with an

Meso-economics. The Case of Personal Agrarian Exchange

Articles

underline note (footnote no. 19): Failures along one or the other dimension generate discrepancies that can empty well-intentioned reforms In our work we follow not only the to idea but also the from idea, i.e., both dimensions. We tried to verify mesoinstitutions as a transmitter between macro and micro levels, and a full-fledged transmitter – working in both directions.

Claude Ménard tested and developed his idea on meso-institutions by research on water utilities, first in Europe (2017) and later in Egypt (2022). This idea was mentioned even earlier by Laffont (2005), Greif (2006), Arrunada (2007), Libecap (2009), Glachant and F. Leveque (2009), Langlois (2010), Acemoglu and Robinson (2012), and later followed by many others - Dequech (2012), Ahrne at all (2016), Fan and Zietsma (2017), Alston et al (2018), van Wijk at all (2019), Carberry at all (2019), Künneke at all (2021), are just a few examples. As it often happened in the history of economic development, agriculture is a main source of social innovations - Brick and Visser (2015), Vinholis et al (2016), Hayden et al (2018), Asai et al (2018), Liu et al (2019), Collazos et al (2020), Hoang et al (2021) and others, who analyzed agrarian mesoeconomic institutions from all over the world.

In this rich body of meso-institutions' studies from different sectors in different countries warnings about weaknesses and difficulties in creating and using them could be found - high (transaction) cost in some cases, unequal benefit for small and large entities (firms, farms, other), lack of capacity of some of them to fulfill some of their functions (information, training, disputes resolution, etc.). Analyzing many of available publications and having in mind the warnings, mentioned above, we reached the following conclusions (Table 2) on the ability of mesoinstitutions to serve as a transmitter between macro and micro levels in the economy, yet good enough for the two levels.

The missing meso-level in economy

Over the past decade, we have been Bulgarian farmers researching relying on personal exchange. We called them Alternative farmers and described their nature and economic characteristics (Terziev 2016, 2018a, 2018b). During the last almost three years we tried to understand how these farmers work in a pandemic situation, i.e. - in crisis (Terziev and Bachev, 2021) and which are the general economic research approaches to the problem (Terziev, 2021). The scope of our study, research methods and some preliminary results were already published (Terziev, 2022, Terziev, Peneva and Tomova-Zaharieva 2022). Our last field study in the summer of 2022, some of the results of which we present here, was done following the ideas of Nobel premium laureates Angus Deaton - individual choice could not be explained by aggregated indicators (Deaton, 1992), Elinor Ostrom - there are advantages to use mostly typical cases rather than a statistically representative sample (Ostrom, 1990) and Oliver Williamson - Discrete Structural Analysis instead of traditional mathematical applications (Williamson, 1996). In our case:

- twelve agricultural producers were investigated. Two of them are big, one could be categorized as medium, the rest are small. Five (including two monasteries) are connected to other initiatives or businesses, for the other farming is the main activity. All of them work to sell, not for their own consumption;
- careful, multiple conversations, rather than formal structured interviews, were

Table 2. Meso-institutions as meso-economic level instrument

	Ability to deal as a transmitter from			
Meso-institutions	Macro to micro level	Micro to macro level		
Formal (established by parliament, government or other official bodies)				
Specialized courts	Strong	Weak		
Arbitration mechanisms	Strong	Strong		
Regulatory and funding agencies	Strong	Weak		
Agencies, monitoring specific infrastructures without being their operator (irrigation, for example)	Weak	Weak		
Competition defending and supporting departments	Strong	Strong		
Mandatory standards	Weak	Weak		
Informational campaigns	Strong	Weak		
Studies, polls, surveys	Strong	Strong		
Educational initiatives and training programs	Weak	Weak		
Official meetings and discussions on policy formation	Strong	Strong		
Informal (established by economic agents)				
Private arbitration mechanisms	Weak	Strong		
Voluntarily developed and enforced standards	Weak	Strong		
Private forms for information exchange	Strong	Strong		
Community based education and training	Weak	Strong		
Lobbying groups for policy formation	Strong	Strong		
Campaigns for promotion of local products	Weak	Strong		
Cross border development initiatives	Strong	Strong		

Source: Author's analysis

conducted. Economic terminology (jargon) was replaced by a language they understood. Particular attention was paid to avoiding the danger of their answers being directed by the questions asked. Full honesty was sought on the sensitive subject of their individual business decisions.

At a very early stage in our research, it became clear that the government, its departments and agencies are a source of uncertainty (Terziev, 2022), and that they are not contributors to overcoming the problem

with impaired and even broken links between farmers, relying on personal exchange, and the consumers of their products. At that time, we did believe that in such a situation farmers will turn to meso-level instruments for solving their problems. But our last-year field study surprised us. We did not find even a single case of application of meso-level instruments by Bulgarian alternative farmers, whether they are small or big, successful or failing, etc. We also detected the arguments giving rise to such a picture (Table 3).

Table 3. Economic reasoning for missing meso-economic level

Reasons for Bulgarian alternative farmers to not apply meso-level economic instruments	% of all respondents
High cost (It is very expensive for me)	94
No knowledge (First time I hear)	87
Insufficient capacity (I know about it, but I can't handle it)	81
No guarantees (Who knows what will happen)	87
Lack of credit to central government and its agencies (Generally)	94
Lack of credit to local authorities (Generally)	87
Negative precedents (I tried this previously but)	62
No good partners today (People today are not like they used to be)	71
Dominated managerial style (I prefer to do everything myself)	87
Satisfaction instead of maximization behavior (I'm fine anyway)	81
Faith in the market (I don't need anything else)	94

Source: Author's survey

It is obvious that these farmers prefer to work at the micro level. They develop various market modes to reach the consumers of their products and depend mostly on informal institutions to make these contacts stable and long-lasting. The macro level (central government and local authorities) for them is only a legal framework, which they must comply with, not a mechanism that supports them. They try to minimize their contacts and dependence on the macro level and therefore feel no need for a meso-level.

The missing meso-level in economics

The meso-economic level is a modern topic in economics today. Many of the leading economists work in this field. It is very popular in South America (strong school in Brazil), Asia (Japan, China and India, and not only), Africa (studies initiated by foreign researchers mainly) and Russia (with Shastitko, Kirdina-Chandler, Kruglova, Tambovtsev). At the same time the subject is almost missing from the economic theory in the former communist countries in Central and Eastern Europe.

The main reason, probably, is that in this region the meso-level of the economy is mostly formal. It is dominated by the European Union with its agencies, standards, development programs, controlling mechanisms, wide set of stimulus and sanctions. There is little (or no) room for other meso-level instruments. The low interest of the economists in this region in meso-economic theory (as it is presented above, based on the most significant modern ideas) is a result of this situation.

Some (pseudo) elements, insofar as they exist, of both polycentric governance and meso-institutions in these countries has already been explored of course. But as separate governance modes, out of an overall economic model and without emphasis on their role as a two-direction transmitter. That is why we call them pseudo elements of meso-economics. Demonstration (even only theoretical, based on international practice) of the potential of the real meso-economic instruments is of importance for these countries, especially for their agriculture.

It could reverse the process of turning their farmers from active entrepreneurs to administrators blindly following bureaucratic rules.

Conclusions

The meso-economic level is not just a modern topic in economic practice and theory today. It is a real challenge in both the practical and theoretical aspects. Harder to understand than macro and micro economic instruments, even mysterious. That is why it is the last of the three economic levels being studied by economic theory. In this paper we do believe we have reached some positive results. Firstly, the true transmission and mediation (in both directions) between the macro and micro levels of the economy as the natural and only meaningful role of the mesoeconomic level has been exposed. Secondly, the international practice in the field was presented and critically analyzed. Then, the practical governance modes for the mesolevel - polycentric governance and mesoinstitutions, were described and discussed, as well as the difficulties and obstacles in front of them. In the next place, a possible research approach for studying the mesoeconomic level was elaborated.

Acknowledgement

This research was funded by the University of National and World Economy under the project no.: NID NI-17/2020, titled: Governance in Crisis. Bulgarian Alternative Farmers.

We would also like to express our gratitude to the two reviewers for their valuable comments and recommendations.

References

Acemoglu, D. and J. Robinson. 2012. Why Nations Fail: The Origins of Power, Prosperity and Poverty, Crown Business, NY.

Ahrne, G., N. Brunsson and D. Seidl. 2016. Resurrecting organization by going beyond organizations. *European Management Journal*, vol. 34: 93-101.

Alston, E., L. Alston, B. Mueller and T. Nonnenmacher. 2018. *Institutional and organizational analysis: Concepts and applications*. Cambridge University Press, Cambridge

Aristotle. 1935. *Aristotle in 23 Volumes,* Vol. 18, translated by G. Armstrong. London, William Heinemann

Arrunada, B. 2007. Pitfalls to Avoid when Measuring Institutions: Is 'Doing Business' Damaging Business?, *Journal of Comparative Economics*, 35(4): 729–747

Asai, M., M. Moraine, J. Ryschawy, J. de Wit, A. Hoshide and G. Martin. 2018. Critical factors for crop-livestock integration beyond the farm level: a cross-analysis of worldwide case studies. Land Use Policy, vol. 73: 184-194

Boettke, P. and P. Leeson (eds.). 2015. *The Economic Role of the State*. Edward Elgar Publ.

Brick, K. and M. Visser. 2015. Risk preferences, technology adoption and insurance uptake: a framed experiment. *Journal of Economic Behavior&Organization*, vol. 118: 383-396

Cantner U, J. Krüger. 2004. Empirical tools for the analysis of technological heterogeneity and change, some basic building blocks of 'evolumetrics'. *Jenaer Schriften zur Wirtschaftswis-senschaft* 6/2004

Carberry, E., P. Bharati, D. Levy and A. Chaudhury. 2019. Social movements as catalysts for corporate social innovation: Environmental activism and the adoption of green information systems. *Business & Society*, vol. 58: 1083-1127.

Coase, R. 1937. The Nature of the Firm. Economica, vol 4, iss. 16: 386-405

Coase, R. 1960. The Problem of Social Cost. *The Journal of Law & Economics*, vol. 3: 1-44

Collazos, L., C. Pineda, V. Mora, and M. Rojas. 2020. Meso-organizations, relational capital, and rural producers' integration into the market in a context of violence. *Journal of Rural Studies*, vol. 80: 391-402

Deaton, A. 1992. *Understanding Consumption*. Oxford University Press, Oxford

Dequech, D. 2012. Economic institutions: explanations for conformity and room for deviation. *Journal of Institutional Economics*, vol. 9(01): 1–28.

de Montchrestien, A. 1615. *Traicté de l'oeconomie politique*. François Billacois (ed.), Droz , Genève, 1999

Dopfer K, J. Foster and J. Potts. 2004. Micromeso-macro. *Journal of Evolutionary Economics* 14(3): 263–279

Ebner, A. 2010. Embedded Entrepreneurship: the Institutional Dynamics of Innovation. Routledge, London

Etzioni, A. 1988. Normative-affective factors toward a new decision-making model. *Journal of Economic Psychology*, 9: 25–150

Fan, G. and C. Zietsma. 2017. Constructing a shared governance logic: The role of emotions in enabling dually embedded agency. *Academy of Management Journal*, vol. 60: 2321-2351

Meso-economics. The Case of Personal Agrarian Exchange

Glachant, J. and F. Leveque (eds.). 2009. Electricity Reform in Europe: Towards a Single Energy Market, Edward Elgar, Cheltenham, UK

Gómez, G. 2010. What was the deal for the participants of the Argentine local currency systems, the Redes de Trueque? *Environment and Planning*, v. 42, n. 7: 1669-1685

Gowdy, J. 1992. Higher selection processes in evolutionary economic change. *Journal of Evolutionary Economics*, 2(1):1–16

Greif, A. 2006. Institutions and the Path to the Modern Economy: Lessons from Medieval

Trade, Cambridge University Press, Cambridge

Hayden, J., S. Rocker, H. Phillips, B. Heins, A. Smith and K. Delate. 2018. The importance of social support and communities of practice: farmer perceptions of the challenges and opportunities of integrated cropelivestock systems on organically managed farms in the northern US. *Sustainability* MDPI, vol. 10(12): 1-26

Hart, O. 1995. *Firms, Contracts, and Financial Structure*. Oxford University Press

Hoang, V., A. Nguyen, C. Hubbard and K. Nguyen, 2021. Exploring the Governance and Fairness in the Milk Value Chain: A Case Study in Vietnam. *Agriculture*, MDPI, vol. 11(9): 1-22

Hodgson, G. 2006. What Are Institutions? *Journal of Economic Issues*, 40(1): 1–25.

Keynes, J. 1936. *General Theory of Employment, Interest and Money*. Palgrave Macmillan

Klepper, S. 1997. Industry life cycles. *Ind Corp Change* 6:145–181

Künneke, R., C. Ménard and J.Groenewegen. 2021. *Network Infrastructures: Technology*

Meets Institutions. Cambridge University Press, Cambridge

Laffont, J. 2005. Regulation and development. Cambridge University Press, Cambridge

Langlois, R. 2010. Economic Institutions and the Boundaries of Business Groups, in

Colpan, Hikino, and Lincoln (eds.), Oxford Handbook of Business Groups, Oxford University Press, Oxford

Libecap, G. 2009. Property Rights Allocation of Common Pool Resources, in C. Menard M. Ghertman (eds.), Regulation, Deregulation. Reregulation: Institutional Perspectives, Edward Elgar, Cheltenham-Northampton

Liu, Y., J. Ruiz-Menjivar, L. Zhang, J. Zhang, M. Swisher. 2019. Technical training and rice farmers' adoption of low-carbon management practices: the case of soil testing and formulated fertilization technologies in Hubei, China. Journal of Cleaner Production, vol. 226: 454-462

Marbaniang, E., JK Chauhan K. Pynbianglang, 2020. Public Private Partnership (PPP) in Agriculture: A step towards sustainable agricultural development, Agriculture and Food, vol. 2, iss. 2: 387-391, e-ISSN: 2581 - 8317, Article id: 22905

Marshall, G. 2009. Polycentricity, Reciprocity, of Farmer Conservation and Adoption Practices under Community-Based Governance. Ecological Economics, 68, pp 1507-20.

Menard, C. 2014. Embedding Organizational Arrangements: Towards a General Model. Journal of Institutional Economics, vol. 10, iss. 4, pp. 567 - 589

Ménard, C. 2017. Meso-institutions: the variety of regulatory arrangements in the water Ménard, C., A. Jimenez, H. Tropp. 2018. Addressing the policy-implementation gaps in water services: the key role of mesoinstitutions. Water International, 43 (1): 13-33

Ménard, C. 2018. Research frontiers of new institutional economics. RAUSP Management Journal 53 (1): 3-10.

Ménard, C. 2022. Institutional challenges to efficient governance: water, sanitation and wastewater in Egypt, Water International, 47 (2): -205-222

Nelson. R. 2005. Technology, institutions and economic growth. Harvard University Press, Cambridge

Ng, Y-K. 1986. Mesoeconomics: A micromacro analysis. Wheatsheaf Books, Brighton, UK

North. D. 1990. Institutions, Institutional Change Economic Performance. and Cambridge University Press

Ostrom, E. 1990. Governing the Commons. Cambridge University Press, Cambridge

Ostrom, E. 2010. Beyond Markets and States: Polycentric Governance of Complex Economic Systems. The American Economic Review, Vol. 100, No. 3, pp. 641-672

Ostrom, V., C. Tiebout, and R. Warren. 1961. The Organization of Government Metropolitan Areas: A Theoretical Inquiry. American Political Science Review 55: 831–42

Polanyi, M. 1951. The Logic of Liberty. The University of Chicago Press

Rousseau, J.J. 1755. Discours sur l'économie Barbara de Negroni (ed.), politique. Flammarion, Paris, 1990

Sawyer, M. 2018. Microeconomics, mesoeconomics and macroeconomics, in P. Alternative approaches in (ed.) sector. Utilities Policy, Elsevier, vol. 49(C): 6-19 | macroeconomics: essays in honor of John

McCombie: 105–126 Palgrave Macmillan, London

Sherwani, H. 1985. Studies in Muslim political thought and administration (7 ed.), Ashraf, Lahore publ.

Schumpeter, J. 1952. *History of economic analysis*. Routledge, London

Smith, A. 1776. An Inquiry into the Nature and Causes of the Wealth of Nations. Strahan, London, 2012

Stewart, F. 1992. Can Adjustment Programmes Incorporate the Interests of Women? in: Afshar, H., Dennis, C. (eds) *Women and Adjustment Policies in the Third World*. Women's Studies at York/Macmillan Series. Palgrave Macmillan, London

Terziev, D., D. Radeva. 2016. Studying the New Agriculture. ICODECON, 9-12.06.2016, Thessaloniki, Greece. *Conference proceedings*, ISBN 978-618-82146-3-7: 175-179

Terziev, D. and D. Radeva. 2018. Economic Viability: Sustainability and Food Safety through Human Values and Economic Modes. in Bachev, H, C. Shengquan and S. Yancheva eds. *China-Bulgaria Rural Revitalization Development Cooperation Forum, Book of Proceedings,* IAE Sofia: 136-143, ISBN 978-954-8612-13-5

Terziev D., P. Zhou, R. Terziyska and D. Zhang. 2018. Food Safety: Technologies and Governance. *Yearbook of UNWE*, 2018: 121-140

Meso-economics. The Case of Personal Agrarian Exchange

Terziev, D. 2021. Economic Theory and Covid-19. in Innovative Development of Agribusiness and Rural Areas, UNWE, Sofia: 61-68, Bulgarian language

Terziev, D. and H. Bachev. 2021. Studying the Resilience of Farming Systems. Economic Theory Point of View. *178th EAAE Seminar*. https://178eaaeseminar.org/wp-content/uploads/2021/05/20.05.2021-Terziev-D.pdf

Terziev, D. 2022. Farm Competitiveness and Uncertainty. in Understanding, Appreciating, and Enhancement of Competitiveness of Bulgarian Farms, IAI, Sofia: 116-124, Bulgarian Language

Terziev, D., M. Peneva and S. Tomova-Zaharieva. 2022. Personal Agrarian Exchange and Uncertainty. in Innovative Development of Agri-business and Rural Areas, forthcoming

van Wijk, J., C. Zietsma, S. Dorado, F. de Bakker and I. Martí, I. 2019. Social Innovation: Integrating Micro, Meso, and Macro Level Insights from Institutional Theory. *Business & Society*, vol. 58(5): 887–918.

Vinholis, M., F. Souza, M. Carrer and F. Chaddad. 2016. Determinants of recognition of TRACES certification as valuable opportunity at the farm level in Sao Paulo, Brazil. *Production* 26 (1): 78-90

Williamson, O. 1996. The Mechanisms of Governance. Oxford University Press

Winter, S., Y. Kaniovski and G. Dosi. 2003. A baseline model of industry evolution. *Journal of Evolutionary Economics*, 13(4):355–383