TAX CHALLENGES IN THE TECHNOLOGICAL AND DIGITAL CONTEXTS

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Abstract

Society has undergone very significant technological and digital changes. The significance of e-commerce is increasing in corporate life and influences the growth of the economy in the Member States and across Europe. The inherent advantages of this reality are various but the challenges are even more and more pressing. Delimiting our theme to the tax challenges, we refer to the difficulties existing in the national tax systems, with an inappropriate social taxation system not fitting to the current reality, with the necessity of the enforcement of VAT to the new digital services and alteration of the regulatory framework on transfer pricing, a more assertive fight against abusive tax planning, tax competition, tax evasion and double taxation (or lack thereof). It should also be referred to problems related to consumer protection, trust and security in digital services and the processing of personal data, lack of coordination between the public administration and the need for innovation and investment to consolidate the digital single market.

The Member States and the European Union, together with the OECD, should play an active role in regulating these matters. Updating laws and policies to solve the challenges of the digital age is the only way to cope with this new reality and to ensure the economic development of the European Union, alongside consumer confidence, so that consumers can carry out balanced and safe transactions without fear.

Keywords: E-commerce; tax challenges; digital single market;

Resumo

A sociedade tem vindo a sofrer alterações muito significativas em termos tecnológicos e digitais. O comércio eletrónico assume cada vez mais importância na vida empresarial das sociedades e influencia o crescimento da economia dos Estados-Membros e de toda a Europa. Os desafios a solucionar são cada vez mais prementes. Delimitando a nossa temática aos desafios fiscais, refiram-se as dificuldades existentes nos sistemas fiscais nacionais, com um regime de tributação das sociedades desadequado à realidade atual, com a necessidade da aplicação do IVA aos novos serviços digitais e alteração do quadro regulamentar em matéria de preços de transferência, um combate mais assertivo ao planeamento fiscal abusivo, à concorrência fiscal, à elisão fiscal e à dupla tributação (ou falta dela).

Refiram-se ainda os problemas na defesa do consumidor, a confiança e segurança nos serviços digitais e no tratamento de dados pessoais, a falta de coordenação entre a administração pública e a necessidade de inovação e investimento para sedimentar o mercado único digital.

Os Estados-Membros e a União Europeia, a par da OCDE, devem assumir um papel ativo na regulação destas matérias. A atualização das leis e das políticas para solucionar os desafios da era digital são a única forma de conviver com esta nova realidade e garantir o desenvolvimento económico da União Europeia, a par da confiança dos consumidores, para que estes possam efetuar, sem medo, transações comerciais equilibradas e seguras.

Palavras chave: comércio eletrónico; desafios fiscais; mercado único digital;
1. Introduction

The contemporary globalized world is increasingly characterized by technological advances, fast media, e-commerce and digital economy. As a result of this new and auspicious digital era, which brings along numerous challenges, Member States are facing legal orders that are incapable of providing answers to these new realities, and in some areas they have become obsolete. This phenomenon should not be identified as a problem, but only as a necessary and enriching legal and normative evolution, which all the Member States will have to know and apply.

By mastering the challenges in the technological and digital context, it will be easier to solve the impacts, not only for each Member State but, essentially, for the whole European Union, as a digital single market. The aim of this article is to identify the challenges that exist in the European Union, in particular the tax challenges – even without intending to exhaust all of them – and to point out possible solutions to them. The way forward for this work will be facilitated by delineating two main specific objectives: 1) describe the challenges identified by the European Union over the last few years and 2) identify the legislative changes and proposals already presented and outline feasible solutions for the future. Each of these specific objectives will correspond to a chapter.

The analysis will be based upon the concept of e-commerce, its inherent advantages and disadvantages with repercussions on the challenges of the digital age, such as the problems of consumer protection, trust and security in digital services and the processing of personal data, lack of coordination between the public administration, the need for innovation and investment to seduce the digital single market. In terms of taxation, reference should be made to the existing difficulties in European tax legislation namely, a system of income taxation that is inappropriate to the current situation, the need to apply VAT to new digital services and to change the regulatory framework for transfer pricing, a more assertive fight against abusive tax planning, tax competition, tax avoidance and double taxation (or lack thereof).

The monitoring of these matters requires a sound knowledge of European and international legislation, first and foremost the OECD Recommendations and the European Commission's Directives and Communications.

The transformation of the digital economy that we know today as a result of digitization should stimulate the Member States and the European Union to seize the opportunities arising from the digital age. The establishment of a digital single market will only be possible if it is based on tax systems that are coherent and adapted to the new digital reality, respecting tax fairness and transparency, and complemented by the updating of the relevant European legislation.

2. The Challenges

We all know that new technologies are part of our day-to-day life. With them, all the daily life tasks have become easier and the distance in most cases is no longer a problem. The expansion of information technology, technological development, the emergence of the Internet and all that it provides have challenged society, common habits and the national legal systems.
E-commerce is, from the outset, one of the great challenges of the digital era. With its origin in EDI (Electronic Data Interchange) technology, e-commerce should be understood as consisting of all forms of business transactions involving both organizations and individuals and which are based on electronic data processing and transmission, including text, sound and image.

Its advantages are known, such as the ease of finding jobs, goods and services, stimulating economic growth and investing in innovation. It also strengthens the competitiveness of European industry, making communication easier and making it more flexible, at a lower cost. Accordingly, European citizens and operators shall benefit from such advantages and it is necessary that Community legislation and the characteristics of the Community legal order are adapted to that effect. Directive 2000/31/EC of the European Parliament and of the Council was one of the first ways for the European Union to ensure a high level of integration of Community legislation “in order to establish a real area without internal borders for Information society services.” However, we are aware of the emergence of a set of obstacles, bottlenecks and legal obstacles to the proper functioning of the internal market, which are a direct result of e-commerce, globalization and technological evolution.

In fact, nowadays several problems can be identified such as the deficient coordination between public authorities, where contact is fragmented and incomplete; a lack of consolidation of the global financial system; a lack of interoperability, which implies that businesses and citizens are overburdened by different legal systems when they carry out electronic transactions; prevention of unfair discrimination of consumers and businesses is lacking and confidence or security in digital services and the processing of personal data could be improved. In addition, as digital markets are being segmented, more investment in networks is needed, in combination with more research and innovation efforts, and also a greater improvement of electronic and digital skills. There are great potential in the emergence of these new services, but the European Union is not fully benefiting from this new reality.

The tax framework of the European Union can be pointed out as one of the main challenges to be solved, which we intend to address more specifically in this article. It will be easy to understand that

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3 “According to Article 14 (2) of the Treaty, the internal market comprises an area without internal frontiers in which the free movement of goods and services and freedom of establishment are ensured.” See: Directive 2000/31/EC of the European Parliament and of the Council of 8 June 2000 – Memorandum 1.

4 This is due, for example, to the lack of knowledge of their rights and obligations. For further developments see, Organization for Economic Co-operation and Development – Recommendation on the guidelines for the protection of consumers in the context of E-commerce.


6 For example, in the fields of content and media, health and smart energy meters. See also the Communication from the Commission to the European Parliament, the European Council, the Council, the European Economic and Social Committee and the Committee of the Regions – “Artificial Intelligence for Europe” – COM (2018) 237 final – Brussels, 25.4.2018.
the changes we see today as good and desirable in structural, societal, mercantile and technological terms cause serious disruption to existing national and European legislation. The tax regimes of today's societies – both national, European and international – are out of date\(^7\) and in need of reform. They have been designed for traditional business models that are not compatible with current globalization – with new modes of value creation in the digital economy\(^8\), that require less physical presence and where user contributions and intangible assets play an important role – and with the problems we have already pointed out above. A careful, structured and systematic change is needed, the only one capable of ensuring the uniqueness and effectiveness of the whole digital single market. It should be noted that the implications go far beyond traditional models such as "economics, politics, governance, enforcement and business models, but also tax and customs administration."\(^9\)

We can recall that other problems related to double taxation, tax competition, and abusive tax planning\(^10\) had already been identified since the early 1990s. In order to prevent these and other tax obstacles, the European Union has legislated through the «Parent-Subsidiary Directive» and «Interest and Royalties Directive»\(^11\) or has used the non-binding Code of Conduct on Business Taxation. However, technological developments, new models of value creation in the digital economy and increasingly fierce tax competition between Member States have led to the reduction of corporate tax revenues\(^12\), despite the support in the Annual Growth Survey for 2015 which recommends that "broadening tax bases, simplification and enhanced transparency can also help increase the efficiency of the tax system and improve tax compliance as well as the fight against aggressive tax planning."\(^13\)

\(^7\) “The corporate tax systems in place today were conceived to a large extent in the aftermath of World War I. At that time, multinational enterprises were mostly industrial companies, selling tangible products. Business models were largely decentralised, with production processes clearly divided between parent and subsidiary companies. This made source taxation, whereby profits are taxed where they arise, relatively simple to apply. To ensure the fair distribution of tax revenues between countries, while avoiding double taxation, transfer pricing based on the arm's length principle (ALP) was devised. The ALP ensured that the price of intra-group transactions matched comparable market prices, thereby providing a clear means of allocating profits within a multinational enterprise. To resolve cross-border disputes on corporate taxation, bilateral treaties were chosen as the preferred tool, rather than a multilateral approach.” See Communication from the Commission to the European Parliament and to the Council – ”A fair and efficient Corporate Tax System in the European Union: five Keys areas for action” – COM (2015) 302 final – Brussels, 17.6.2015, p. 3.

\(^8\) It is also seen that "the collaborative economy, by generating social value in the digital economy environment, may offer a new opportunity for growth and development for the countries of the European Union, as it allows untapped resources to be mobilised and gives the initiative to individual people." p. 1. For further developments see Opinion of the European Economic and Social Committee on Taxation of the collaborative economy – analysis of possible tax policies faced with the growth of the collaborative economy (exploratory opinion requested by the Estonian presidency) (2018/C 081/09) – 2.3.2018.


\(^12\) For further developments in tax and business tax rates see COM (2015) 302 final.

It is time to weigh the need for tax fairness (which is increasingly desired\textsuperscript{14}, first and foremost by ensuring non-distortion that damages the single market), on the one hand, and the search for more attractive and competitive regimes, on the other, which further complicates the already arduous task of the European Union and the OECD/G20\textsuperscript{15}. The challenge is also to deal with the creation of national unilateral measures that are parallel to European regulations and which exacerbate the risk of fragmentation\textsuperscript{16}. The inertia in solving this problem will only lead to more opportunities for tax evasion, reduced tax revenue for public budgets, a move away from equity and social justice, and increased fiscal uncertainty.

Today, "the application of the current corporate tax rules to the digital economy has led to a misalignment between the place where the profits are taxed and the place where value is created."
\textsuperscript{17} It is questionable how to regulate when there are no physical and intermediate physical boundaries, how to identify the buyer and seller, how to qualify income obtained, how to delimit concepts as a permanent establishment?

For example\textsuperscript{18}, the following criteria can be seen as one of the aims to achieve a fairer and more efficient taxation\textsuperscript{19}: "The underlying principle for corporation tax is that profits should be taxed where the value is created."\textsuperscript{20}\textsuperscript{21} But, where to tax when value is highly fragmented or difficult to allocate?\textsuperscript{22} What type of tax shall apply to digital transactions?\textsuperscript{23} These are major challenges. In addition, each Member State must ensure that it is able to properly assess the activities of the companies under its jurisdiction.

Last, but not least, the single market has to be protected and the European Union has to address all these issues externally (e.g OECD and BEPS project), "to deal with non-cooperative tax jurisdictions and to increase tax transparency"\textsuperscript{24}.

\textsuperscript{14} "All taxpayers must pay their fair share, to ensure the level playing field between businesses that is central to the success of the Single Market, and also to protect the European Social Model on which citizens depend." – Communication from the Commission to the European Parliament and the Council – "Time to establish a modern, fair and efficient taxation standard for the digital economy" – COM (2018) 146 final – Brussels, 21.3.2018, p. 3.
\textsuperscript{16} Member States will accept flexibility but the existence of minimum standards is mandatory.
\textsuperscript{18} For further developments regarding the tax challenges arising from the digitization of the world economy, see COM (2018) 147 final.
\textsuperscript{19} The approach should pursue the following objectives: equity, competitiveness, integrity of the single market, sustainability. For further development see COM (2017) 547 final.
\textsuperscript{20} COM (2017) 547 final, p. 7.
\textsuperscript{22} "How to establish and protect taxing rights in a country where businesses can provide services digitally with little or no physical presence despite having a commercial presence." See COM (2017) 547 final, p. 7.
\textsuperscript{23} "How to attribute profit in new digitalised business models driven by intangible assets, data and knowledge." See COM (2017) 547 final, p. 7.
\textsuperscript{24} COM (2015) 302 final, p. 6.
3. The Legislative Proposals

After the financial crisis which began in 2008, there has been a period of transformation. In this context, in order to combat the above-mentioned and other problems, the Commission, on 3 March 2010, put forward a strategy for a smart, sustainable and inclusive growth, commonly known as “Europe 2020”, where five quantifiable EU targets for the 2020 horizon have been presented “that will steer the process and be translated into national targets: for employment; for research and innovation; for climate change and energy; for education; and for combating poverty.” Alongside these, the Europe 2020 strategy set out three priorities: smart, sustainable and inclusive growth, which could be achieved through seven key initiatives, of which we highlight one of relevance for the case under consideration: “– “A digital agenda for Europe” to speed up the roll-out of high-speed internet and reap the benefits of a digital single market for households and firms.”

In addition, the European Union believes that it is of the utmost importance to create a single market capable of creating a favorable climate for investment in digital networks, research and innovative companies. This digital single market “is one in which the free movement of goods, persons, services and capital is ensured and where individuals and businesses can seamlessly access and exercise online activities under conditions of fair competition, and a high level of consumer and personal data protection, irrespective of their nationality or place of residence.” From this, or hypothetically, if all the obstacles to its proper functioning (some already explained above) are tackled and the market is fully operational - incalculable benefits may come for the European Union, such as the further increase in European GDP, the expansion of the digital economy, the promotion of better and new services, etc.

25 Recall the words of José Manuel Barroso: “2010 must mark a new beginning. I want Europe to emerge stronger from the economic and financial crisis. (...) The last two years have left millions unemployed. It has brought a burden of debt that will last for many years. It has brought new pressures on our social cohesion. It has also exposed some fundamental truths about the challenges that the European economy faces. And in the meantime, the global economy is moving forward. How Europe responds will determine our future.” See Commission Communication Preface – “Europe 2020 – A strategy for smart, sustainable and inclusive growth” – COM (2010) 2020 final – Brussels, 3.3.2010, p. 1.


28 COM (2010) 2020 final, p. 6. “The aim is to deliver sustainable economic and social benefits from a Digital Single Market based on fast and ultra fast internet and interoperable applications, with broadband access for all by 2013, access for all to much higher internet speeds (30 Mbps or above) by 2020, and 50% or more of European households subscribing to internet connections above 100 Mbps.” See COM (2010) 2020 final, p. 14. For further developments, see Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions – “A Digital Agenda for Europe” – COM (2010) 245 final/2 – Brussels, 26.8.2010. It should be noted that the creation of opportunities for tax administrations, solutions to reduce administrative burdens, collaboration between tax administrations and the fight against tax avoidance are some of the many advantages inherent in the digital single market.


This market is based on three pillars: 1) Better access for consumers and businesses to goods and services online across Europe; 2) Creating the right conditions for the development of digital networks and services; and 3) Optimizing the growth potential of our European Digital Economy.\textsuperscript{31}

The European Union has also made use of the Digital Agenda (one of the seven initiatives of the Europe 2020 strategy), where proposals for urgent actions are formulated which may help the European Union to comply with the Europe 2020 plan such as the strengthening of the telecommunications services, access to content, simplifying cross-border and online transactions, building confidence in digital technology, standards and interoperability through coordination, among others.

The European Union, outlined its strategy as mentioned above, and since then has been legislating\textsuperscript{32} and proposing a set of changes to the national systems in search for the necessary regulatory balance in its various areas and full operation of the digital single market\textsuperscript{33}. In the tax field, the Commission Report of May 2014\textsuperscript{34} – identified as urgent to tackle the problems of erosion of the taxable base and transfer of profits\textsuperscript{35}, namely in the context of the digital economy.

Meanwhile, EU member states implemented a set of norms that strengthened tax transparency\textsuperscript{36} and signed international agreements with Switzerland, Andorra, Liechtenstein, San Marino and Monaco\textsuperscript{37}. Tighter rules have been put in place to prevent EU funds being invested in tax havens\textsuperscript{38} and other measures to prevent companies from taking advantage of the asymmetries between the tax

\textsuperscript{31} For further development see COM (2015) 0192 final and Annex: roadmap for the full realization of the digital single market.
\textsuperscript{33} For further development see Communication from the Commission to the European Parliament, the European Council, the Council, the European Economic and Social Committee and the Committee of the Regions – “Completing a trusted Digital Single Market for all – The European Commission’s contribution to the Informal EU Leaders’ meeting on data protection and the Digital Single Market in Sofia on 16 May 2018” – COM (2018) 320 final e ANNEX – Brussels 15.5.2018.
\textsuperscript{35} See Base Erosion and Profit Shifting - BEPS Project.
systems of the Member States and third countries. They also implemented dispute settlement mechanisms in tax matters and adopted binding rules in the fight against tax avoidance.

Within this framework, recently, in the Communication from the Commission to the European Parliament and the Council – “Time to establish a modern, fair and efficient taxation standard for the digital economy,” the Commission specified a number of requirements in adapting the corporate tax system to the 21st century. Accordingly, it presented a Directive proposal on company taxation with a significant digital presence and a proposal for a Directive on a common system of a digital services tax.

However, and notwithstanding the validity of the proposed tax Directives, it remains to be seen if member states accept these new tax frameworks.

On the other hand, in international terms, the European Union cannot disregard relations with third countries, guaranteeing an efficient, equitable and competitive market between EU companies and third countries. To this end, Member States have been concluding double taxation conventions, which will follow closely a Commission recommendation, thus avoiding legislative disharmony and fragmentation in national tax systems.

Finally, the European Union is committed to legislate on other issues where the challenges are also present, as we have seen above, and which can influence the smooth and efficient functioning of the digital single market. Reference should be made namely, to the Regulation on roaming in the European Union, the European Union’s Regulation on trust services, the adoption of a European

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44 “New business models should support entrepreneurship while ensuring a level playing field. All levels of policymaking must ensure that the regulatory environment is simple and supportive to entrepreneurs, especially SMEs. As highlighted in the Commission’s reflection paper on harnessing globalization (…)” (available at https://ec.europa.eu/competition/sites/beta-political/files/reflection-paper-globalisation_en.pdf) See COM (2018) 146 final, p. 3.
Parliament Resolution on E-platforms and the digital single market\textsuperscript{48} and the implementation of an EU-wide online dispute resolution platform\textsuperscript{49}.

Other measures are worth mentioning such as adoption of a European Cybersecurity Strategy\textsuperscript{50} with the implementation of the Network and Information Security Directive\textsuperscript{51} and the implementation of the European Security Agenda\textsuperscript{52}, the approval of the General Data Protection Regulation\textsuperscript{53}, the Directive on the protection of data in the field of police and judicial authorities with regard to the processing of personal data and the free movement of such data\textsuperscript{54}, the adoption of a Communication on international data flows\textsuperscript{55}, the proposal for the revision of the Regulation on consumer protection cooperation\textsuperscript{56}, the conclusion of a new deal for consumers\textsuperscript{57}, the adoption of measures to update the


\textsuperscript{54} Directive 2015/680 of the European Parliament and of the Council of 27 April 2015 on the protection of persons with regard to the processing of personal data by competent authorities for the purposes of the prevention, investigation, detection or prosecution of criminal offences or the execution of criminal penalties, and on the free movement of such data, and repealing Council Framework Decision 2008/977/JHA.


regime on misleading and comparative advertising\textsuperscript{58}, the adoption of the SOLVIT Action Plan, the creation of the ‘Your Europe’ Portal\textsuperscript{59}, of the Single Points, the Product Contact Points, and the Contact Points for Construction products and the presentation of a proposal for the creation of a Digital Single web Portal\textsuperscript{60} and the European E-Justice Portal\textsuperscript{61}.


4. Conclusions

Every day more than 360 million Europeans use the internet in their daily lives. The challenges inherent in this, as we have seen, are immense and can only be solved by creating a genuine digital single market, integrated in a more cohesive, strong and democratic European Union. E-commerce requires an equitable single market that must be interlinked with effective strategies that foster innovation and economic growth and be open to new global partners.

The proper functioning of this market will depend, first and foremost, in the areas of justice and fundamental rights, on mutual trust, to be guaranteed by the citizens’ well-being and effectiveness in obtaining structural solutions in the various areas of European Union intervention, notably the creation of a modern and fair tax framework for the economy, which is conducive to growth. In fact, all these realities must be properly framed in national legal systems and, even before this application, it is mandatory to achieve some form of consistency in European and international law. Only in this way will it be possible to safeguard that the positions taken by the Member States doesn’t dismember the single market and make legal implementation and adaptation to these new concepts even more difficult.

The European Union has clearly identified the great majority of the challenges arising from the digital age and has, over the last few years, come up with numerous legislative proposals and adopted

\textsuperscript{58} COM (2012) 702 final (2013/C 271/11).
\textsuperscript{64} COM (2017) 650 final.
various strategies to solve these problems. The path is open but ultimately it will be up to the Member States to move forward and to complete the strategies presented by the European Union. The central priority of the Member States should be to achieve fair, competitive, efficient, growth-enhancing and digital-friendly standards, which must be implemented in each national system, respecting the rules, principles and objectives defined by the Union European Union.

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significant digital presence and Proposal for a Council Directive on the common system of a


