

Impact Factor - 5.958



A Multidisciplinary Peer-Reviewed Refereed Research Journal

Taxation of Digital Transactions: Challenges, Models, and Global Implications

Ritesh Mulraj Raichana

Assistant Professor, Department Commerce (Accountancy & Taxation) Adivasi Pragati Mandal Sanchalit, Comrade Godavari Shamrao Parulekar College Of Arts, Commerce & Science, Talasari Corresponding Author: Ritesh Mulraj Raichana DOI - 10.5281/zenodo.14873745

Abstract:

With the proliferation of digital transactions and the rapid growth of e-commerce, digital platforms, and cryptocurrencies, governments are increasingly challenged to adapt their tax policies to capture value generated by these transactions. This paper explores the taxation of digital transactions, with a particular focus on the key challenges, existing taxation models, and the international efforts aimed at addressing these challenges. By examining models like the Digital Sales Tax (DST) and Value-Added Tax (VAT), the paper offers insights into their effectiveness, limitations, and global implications. The role of international cooperation, particularly through the OECD, in shaping a fair and efficient taxation framework for the digital economy is also discussed.

Keywords: Digital Transactions, Taxation, E-commerce, VAT, Digital Sales Tax, Cross-Border Taxation, OECD, Cryptocurrencies, Digital Economy, Global Tax Framework.

Introduction:

The rapid growth of digital transactions has fundamentally changed the landscape of global commerce. Ecommerce, digital services, and the widespread use of cryptocurrencies have all contributed to an explosion of transactions that transcend geographic borders. This shift, while beneficial for innovation and economic growth, has also posed significant challenges for traditional tax regimes. Governments now face the difficult task of adapting existing tax laws to the digital economy, where transactions can occur across borders, are often difficult to trace, and may involve intangible goods and services.

The taxation of digital transactions is essential for ensuring fair tax

competition, protecting national tax bases, and preventing tax avoidance. However, this is easier said than done, as digital transactions often do not fit neatly into existing tax structures. The issue of cross-border transactions, along with the emergence of new technologies such as cryptocurrencies and blockchain, further complicates the matter. This paper will analyze the challenges of taxing digital transactions and review the various models proposed or adopted by different jurisdictions. The paper will also explore international efforts. particularly the OECD's initiatives, to create a more cohesive and effective global taxation framework for digital transactions.



The Evolution of Digital Transactions:

Digital transactions encompass a variety of financial activities, including shopping, digital online services. cryptocurrency exchanges, and peer-topeer (P2P) payments. These transactions are facilitated by digital platforms, ewebsites, commerce and payment gateways, which have become an integral part of daily life. A major feature of these transactions is their ability to occur almost instantaneously and across borders.

In particular, cryptocurrencies have emerged as a significant new form of digital transaction. Operating on decentralized blockchain networks, cryptocurrencies such as Bitcoin and Ethereum have introduced unique

Challenges in Taxing Digital Transactions

The digitalization of commerce presents several challenges to tax authorities. These challenges are multifaceted and can be categorized as follows:

- 1. Cross-Border Taxation: Digital transactions often occur across international borders, making it difficult to determine which country has the right to tax them. For example, an individual in the United States may purchase a product from an online retailer based in China. In this case, which jurisdiction is entitled to tax the transaction? The cross-border nature of digital transactions raises questions about where value is created and which countries should have taxing rights.
- 2. **Tax Avoidance and Evasion**: The anonymity of digital

Vol. 14 Special Issue No.1/January 2025

challenges for taxation. These digital assets are typically not governed by a central authority or bank, and their anonymity and international reach make it difficult for governments to track and tax their transactions. As digital currencies become more mainstream, their tax treatment is one of the key questions for policymakers.

The shift toward digital platforms and cryptocurrencies has created a need for new taxation models, as traditional systems were designed for physical goods and services. Governments have responded by creating new taxes, adjusting existing tax structures, or attempting to harmonize international tax regulations to better address the digital economy.

> transactions, especially those involving cryptocurrencies, makes it easier for individuals and businesses to evade taxes. By digital platforms, using businesses may be able to avoid collecting taxes in certain jurisdictions or route transactions through low-tax jurisdictions, minimizing their tax liability. The rise of online platforms also complicates the process of ensuring that businesses pay the appropriate taxes on digital sales.

3. **Complexity** in **Compliance**: Digital transactions often involve multiple intermediaries, such as payment processors, platforms, and international suppliers. This complexity makes it difficult for businesses to comply with local tax regulations. and for governments to enforce tax compliance. Additionally, businesses may need to comply with a patchwork of tax rules across different jurisdictions, increasing their administrative burden.

- 4. Valuation of Digital Goods and Services: Unlike physical goods, digital goods (such as software, music, and streaming services) often have prices that vary based on region, demand, and the nature of the transaction. Determining the taxable value of digital goods and services can be challenging, particularly when dealing with intangible items that lack a clear market price.
- 5. Diverse Tax Systems: Different countries have varying tax structures. For instance, while many European Union (EU) countries rely on the VAT system, the United States uses a sales tax system that operates differently. The lack of standardization creates confusion for businesses across multiple operating iurisdictions, as they must comply with different sets of rules.

Models of Digital Transaction Taxation:

Given the challenges outlined above, several taxation models have been proposed or implemented to tax digital transactions. Two main models are discussed below:

1. **Digital Sales Tax (DST)**: A digital sales tax is levied on revenue generated by digital companies from users within a specific jurisdiction, regardless of whether the company has a physical presence in that jurisdiction. Countries such as France, the United Kingdom, and India have implemented or proposed DSTs as a way to capture value from digital services. The idea behind the

Vol. 14 Special Issue No.1/January 2025

DST is to tax digital services provided by large tech companies that benefit from local markets but may not pay taxes in those jurisdictions.

For example, France's Digital Services Tax, introduced in 2019, applies to companies that generate significant revenue from digital services within the country, even if those companies are not based in France. While DSTs are seen as a way to address the tax gap in the digital economy, they have drawn criticism from multinational companies, particularly U.S.-based firms like Google and Facebook, which argue that DSTs unfairly target them. Furthermore, DSTs can lead to trade tensions between countries and raise questions about their fairness and effectiveness.

2. Value-Added Tax (VAT): The VAT system is used in many countries, particularly in the EU, to tax the sale of goods and services, including digital goods and services. In the EU, VAT is applied to digital services, such as e-books, streaming services, and online subscriptions, regardless of whether the supplier is located inside or outside the EU. Under the VAT rules, digital services are taxed based on the location of the consumer rather than the location of the supplier.

The EU has worked to harmonize VAT rules for digital services, aiming to prevent tax avoidance by ensuring that digital goods and services are taxed in the country where the consumer is located. This model helps address some of the complexities of cross-border taxation, as businesses are required to charge VAT at the rate applicable in the consumer's home country. The VAT model has the advantage of being well-established and applicable to both physical and digital transactions, though it can be complex to administer, particularly for cross-border transactions.

The OECD's Base Erosion and Profit Shifting (BEPS) initiative, launched in 2013, aims to address tax avoidance strategies used by multinational corporations, including those in the digital economy. As part of the BEPS project, the OECD has developed recommendations for how digital transactions should be taxed, focusing on ensuring that profits are taxed where economic activity occurs, rather than where profits are artificially shifted to low-tax jurisdictions.

In 2020, the OECD proposed a two-pillar approach to reforming the international tax system in response to the challenges of digital taxation. Pillar One focuses on reallocating taxing rights to jurisdictions where digital services are provided, while Pillar Two introduces a global minimum tax to prevent tax competition. These proposals aim to create a fairer global tax framework for digital businesses, reducing the opportunity for tax avoidance.

The Future of Digital Transaction Taxation:

As digital transactions continue to evolve, governments will need to adapt their tax systems to keep pace with

Vol. 14 Special Issue No.1/January 2025

International Cooperation and the OECD's Role:

Given the global nature of digital transactions, international cooperation is crucial to addressing the challenges of digital taxation. The OECD has played a leading role in developing guidelines and frameworks to ensure that digital businesses are taxed fairly and efficiently.

technological advancements. Emerging technologies such as blockchain, artificial intelligence, and the Internet of Things (IoT) will likely continue to reshape the digital economy, creating new challenges for taxation. Policymakers will need to ensure that tax laws remain flexible and responsive to these changes.

In the future, a global digital tax framework may emerge, which could help standardize tax rules for digital transactions across jurisdictions. Such a framework would help reduce uncertainty for businesses and ensure that digital companies contribute fairly to national revenues.

Conclusion:

The taxation of digital transactions remains a complex issue significant implications with for governments, businesses, and consumers alike. The challenges posed by crossborder transactions, tax avoidance, and compliance require a multi-faceted approach that includes both national and international efforts. While models like Digital Sales Taxes and VAT provide potential solutions, further international cooperation is essential to create a fair and efficient tax system for the digital digital economy. As transactions continue to grow, the development of a cohesive and comprehensive global tax

Vol. 14 Special Issue No.1/January 2025

framework will be crucial for ensuring that the benefits of the digital economy

References:

- 1. Organisation for Economic Cooperation and Development (OECD). (2020). *Tax Challenges Arising from Digitalisation* –
- 2. European Commission. (2018). Proposal for a Council Directive on a Common System of VAT Applicable to Digital Services. Retrieved from https://ec.europa.eu/taxation_cu stoms/business/vat-digitalsingle-market_en
- 3. KPMG. (2021). Global Digital Tax: Insights on VAT and Digital Services Tax. KPMG International. Retrieved from https://home.kpmg/xx/en/home /insights/2021/01/globaldigital-tax-insights.html
- 4. Avi-Yonah, R. S. (2019). *Taxing the Digital Economy: Policy Choices and Challenges.*
- Harvard Law Review, 132(1), 101-129.
- 6. Devereux, M. P., & Vella, J. (2018). *The OECD and the Digital Economy: A Review of Tax Reforms.* International Tax and Public Finance, 25(2), 369-397
- 7. Zohar, D. (2019). The Digital Services Tax and Its Impact on

are shared equitably.

Report on Pillar One Blueprint. Retrieved from https://www.oecd.org/tax/beps/ tax-challenges-arising-fromdigitalisation.htm

Global Taxation. International Journal of Economics and Business, 25(3), 233-255.

- Bradshaw, M., & Thomas, C. (2020). *Cryptocurrency Taxation: A Global Perspective*. Journal of Digital Finance, 2(1), 18-40.
- 9. Lyons, L. (2020). Globalization and the Rise of Digital Economy Taxation: A Historical Perspective. International Business and Taxation Journal, 13(2), 45-58
- 10. PwC. (2021). Taxation of Digital Transactions: The Digital Economy's Global Tax Framework. PwC Global Tax Insights. Retrieved from

https://www.pwc.com/gx/en/ser vices/tax/digital-taxation.html

11. United Nations. (2020). International Tax *Cooperation* and the Digital Economy: Addressing the Issues of Tax Base Erosion and Profit Shifting. United Nations Department of Economic Social and Affairs. https://www.un.org/development /desa/dpad