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Identifying the Effective Components in Validating the Declared Taxable Income of Companies: Using the Structural Equation Model

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Abstract

Article History Received: 2023-09-15 Accepted: 2024-02-01 Published online: 2024-10-25 In recent years, the country's tax administration has adopted an approach emphasizing trust in taxpayers and the assumption of the accuracy of the information they provide. Consequently, it has reviewed and enhanced its systems and directives. This paper presents a comprehensive model for validating companies' taxable income through the lenses of trust theory, information validity theory, the law of truthfulness, and theories of truth, including correspondence, coherence, and pragmatism. By conducting semi-structured interviews with experts in 2021 and 2022, the components and indicators influencing the declared taxable income of companies were identified. Using the structural equation modeling method, a proposed research model was developed. In order of importance, the factors affecting the credibility of the taxable income declared by companies are auditing, technical, systemic, environmental, company-specific, and financial and accounting factors. The tax administration should consider these factors when assessing income credibility, and companies subject to taxation should give appropriate attention to them. The components identified in this research can assist in determining the validity of declared taxable income and assessing companies' credit risk. Additionally, this framework provides a solid foundation for selecting taxpayers for audits before initiating the tax audit process. Furthermore, the research findings contribute to developing theoretical support in accounting and tax research.

Keywords:

Declared Taxable Income, Information Credibility, Tax audit, Trust Theory

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1. Introduction

Taxation has always been an essential and fundamental issue in the economy because it is one of the primary operations of all governments and a prerequisite for everything that governments undertake (Simon and Lukason, 2021; Kiser and Karceski, 2017). Governments provide essential security services to their people by collecting taxes from people and providing resources to rich and poor people. Tax revenues are the primary source of government budget financing for investment in public infrastructure (Barbu et al., 2022). In underdeveloped countries, tax evasion is a big challenge to collecting tax revenues (Al-Rahamneh and Bidin, 2022; Umar et al., 2019). Fighting tax evasion is one of the goals of all tax systems in the world, and there are two basic strategies. One is creating and developing sustainable tax self-declaration systems, and the second uses risk-based tax audits (Dehghani, 2019). The self-declaration system allows taxpayers to determine and pay the amount of tax payable each year by the applicable tax laws and provides a lot of freedom and responsibility to fulfill taxpayers' tax obligations (Masrullah et al., 2021). Since this system requires the voluntary compliance of taxpayers, it creates great opportunities for them. Tax collection with the selfdeclaration system will be done well if the taxpayers have high tax knowledge and discipline, and the features of the self-declaration system (ensuring the simplicity of the law, accessible, fair, and just implementation of the tax) well done by the taxpayers (Wahyudin et al., 2022; Batrancea et al., 2019; Gechert and Heimberger, 2022). In other words, the success of the self-declaration tax system is voluntary compliance with tax laws (Pui Yee et al., 2017).

Among the characteristics of the tax system of developing countries are the non-compliance of tax structures with international standards, lack of tax policy management, low tax compliance, and inappropriate capacities. The most critical component in the improper management of the tax system is an ineffective audit program, which reduces the ability of tax audits and the possibility of identifying and prosecuting tax criminals. Tax audit performance in developing and transition countries is generally feeble (Gupta and Nagadevara, 2007; Belay, 2017).

According to the above, the self-declaration system is generally based on the fact that the taxpayer is more aware of his financial and income situation than anyone else. Therefore, if the tax system reaches a position where the taxpayers will make the correct tax diagnosis, it will improve tax collection in various ways. In this system, the role of tax officials will be to control and check whether the taxpayer has declared his income correctly and whether the applied exemptions and deductions have been legal. If the work is not done correctly, what is the amount of tax that can be collected? However, the important thing is that control and review, considering cost-benefit compliance, are not possible for all taxpayers, so it is better to do it in a sample form (Barzegari Khangah and Feizpour, 2012). On the other hand, since choosing a taxpayer based on risk criteria and planning for tax audit requires identifying the level of risk and credit of each taxpayer, and identifying the risk and credit of each taxpayer also requires identifying components that can be based on these components, before the implementation of the tax audit process, it is necessary to select a taxpayer for a tax audit. Therefore, the present research, based on the insights obtained from the experts and its comparison and validation with existing theories, seeks to find a suitable answer to the question of what are the influential factors in determining the credibility of expressed taxable income of companies and how is the comprehensive model of assessing the credit of taxable income of companies? For this purpose, the theoretical foundations and experimental background, research methodology, findings, and results from the structural equations of the discussion and the proposed model are presented in the following.

2. Theoretical principles

2.1 Expressed taxable income credit

The importance and special position of the tax system in the economy of any country are not hidden from any of the specialists and experts in the economic field. Audit strategy is a vital tool in

empowerment management through the Tax Affairs Organization. The tax affairs organization cannot audit all taxpayers, and the continuous investigation of low-risk and empowering taxpayers is a waste of resources by the organization (World Bank, 2011). In other words, it can be said that the cost of the lost opportunity for such investigations is very high, so resources should be spent on taxpayers who have the potential to generate more income and profit. The tax affairs organization should manage taxpayers' tax compliance through its own methods and techniques in order to identify and prevent criminal behavior and help taxpayers with tax compliance and payment of their tax obligations by providing appropriate services and training. Such a written system is based on self-declaration and voluntary empowerment by taxpayers, and the risk assessment function is separated from the audit execution function (Khwaja et al., 2011). The problems in Iran's tax system caused new arrangements to be made regarding the tax system.

A coherent tax information system that is optimally designed and planned is an effective factor in improving tax detection and collection methods, reducing tax evasion, reducing administrative corruption, eliminating discrimination, and increasing efficiency, as well as a factor for more accurate budget regulation. Therefore, most countries have tried to achieve such a tax information system, and many advanced countries have also achieved it. In our country, the lack of a coherent, coordinated, and mechanized tax information system has caused a gap between the potential tax capacity of the economy and its actual capacity. The deprivation of tax revenues has increased while the collection of the same amount of tax has also brought enormous costs in all dimensions, including material, social and economic costs for the country (Adam et al., 2015). On the other hand, relying on traditional methods makes it impossible to intercept information related to economic activities and exchanges in today's world. Also, the tax system in the absence of a unified view of taxpayers, the weakness of tax information, and the lack of information elites on taxpayers were not able to properly perform the legal duties assigned to them and also provide appropriate services to taxpayers, which in turn led to issues such as dissatisfaction of taxpayers, non-compliance of taxpayers, tax evasion and reduction of tax revenues (Bryce et al., 2016). Hence, the deficiencies and shortcomings in the information, processes, implementation, and existing laws of the tax system have necessitated the implementation of a comprehensive tax plan. In recent years, in the country's tax affairs organization, the risk-based audit selection project has been seen as a subset of the integrated tax system in the comprehensive tax plan. Still, it has not yet been fully operationalized. If this project is implemented, the auditors of the Tax Affairs Organization will not be involved in processing the tax return, and this work will be done automatically.

2.2 Contributing factors to the expressed taxable income credit

The promulgation of the new tax law was approved in July 2014, except for some parts of it, including the implementation of Article 97, which came into effect at the beginning of 2015, the removal of Articles 152 and 153 of the Direct Taxes Law approved in February 2000, and to put it better, the removal of tax assessment using the ex officio method and the replacement of the procedure based on reasons and objective evidence, which should be made efficient by adopting appropriate mechanisms, will help tax justice. Based on this, by removing the ex officio method from the tax system, proceedings will be more disciplined and more transparent, and cooperation and interaction between trade unions and economic enterprises; in other words, taxpayers with the Tax Administration will increase. By trusting the people and the criterion of taxpayers' information, we can hope that the tax collection time will be reduced. In such conditions, the interaction between taxpayers and tax auditors increases, the satisfaction of taxpayers increases, and the tax system becomes closer to realizing tax justice (Barzegari et al., 2021). Despite the expectation for the cooperation of taxpayers and their financial information holders, in many cases, the information

available to prepare financial statements containing taxpayers' income and expenses is still incomplete. Some methods should be used, including a comprehensive tax plan that can complete and summarize the available information acceptably. In this regard, Dastgir et al. (2015) presented a selection model for tax audits based on the risk of legal entities in Iran. In this study, the factors affecting the taxpayer risk are the quality of corporate governance (the variables of CEO duality, the percentage of the number of non-executive directors, the percentage of shares in the hands of managers, the power of shareholders, the percentage of institutional shareholders, the presentation of financial and tax audit reports), the characteristics of legal taxpayers (Variables of type of ownership, type of company, type of activity, concentration, the life of activity, size, membership in the stock exchange), and tax history of the company were identified. Also, Heyrani et al. (2019) identified the factors affecting the risk of a tax audit with a combined exploratory method and showed that exchange with fake and uncredited companies, the use of partners' current accounts in carrying out expenses, and a high ratio of end-of-period inventory to sales are among the most critical indicators of tax audit risk. Inasius (2019) proved that the possibility of an audit, tax knowledge, and understanding of justice and fairness significantly affect tax compliance and the provision of reliable and correct information by taxpayers. Abdulhamid et al. (2019) consider tax knowledge, the complexity of tax rules and regulations, the difficulty of understanding them, and the high current tax rate to be the factors affecting the tax support of businesses. Green et al. (2022) investigate whether public financial statement information is incrementally useful in forecasting confidential taxable income and suggest that macroeconomic forecasts of taxable income may be further improved by aggregating firm-level forecasts generated using financial statement information.

2.3 Assessing the validity of declared taxable income

Considering the need to trust the information expressed by taxpayers in the comprehensive tax plan, which is based on the information expressed by taxpayers, the discussion of the validity of this information and the creation of a suitable mechanism to measure this to ensure reasonable assurance by the relevant institutions is considered one of the most vital issues. In line with the theoretical support of measuring the credibility of taxpayers' (voluntarily) expressed information, the following scientific theories can provide a suitable platform to support the model of assessing the validity of taxable income expressed by taxpayers.

2.3.1 Trust theory

James Coleman, one of the theorists in the field of trust, believes that based on the theory of rational choice, actors are purposeful agents who take actions that are more likely to succeed and thus increase their interests. However, the point is that making many exchanges requires trust between the parties. According to Coleman, information plays an important and decisive role in trust. Based on this, the existence of information can strengthen the trust between the parties (Moradi and Bayat, 2018; Coleman, 1994). It seems that in our country's tax system, the culture of voluntary tax payment based on self-declaration is low, and according to the people, the tax system is not efficient and effective. There is no mutual trust between the tax system and the taxpayers (Qaranjik et al., 2021). Therefore, it is necessary to determine the valid and acceptable components to establish mutual trust between the tax system and taxpayers in light of the trust theory. In this regard, De Neve et al. (2021) concluded that simplifying communication between taxpayers and the tax administration increases tax compliance, and deterrence messages will positively affect tax compliance. On the other hand, tax ethics and spirit do not increase or improve tax compliance. Also, Da Silva et al. (2019) investigated the two policies of compulsory and voluntary tax in Brazil's sliding slope framework. Their research showed that trust-based interaction between taxpayers and tax auditors would lead to voluntary tax

payments. This is because the policy based on pressure and force will not lead to the payment of compulsory taxes, and the taxpayers will not be willing to pay taxes.

2.3.2 Validity theory

Undoubtedly, the move towards trusting the taxpayers and the orientation of the tax system based on the taxpayers' self-declaration will require appropriate confidence about the validity of the declared information. The validity of information is a prerequisite for moving towards the realization of the country's comprehensive tax plan goals. The theory of the validity of information about the statement's truth is based on its validity. It is one of the theories presented about the truth and the nature of the statement of words (Liu, 2010 and the dictionary of principles of jurisprudence). In other words, it is assumed that the more the provided information represents the truth of the matter, the more reliable it is. This article has been consolidated in the form of the truth expression law. Many different theories have been expressed regarding the truth. The most important theories are correspondence, coherence and pragmatism, which are explained in the following section (Moloudi and Hamze Howeyda, 2013; Johnson, 2006).

2.3.3 Truth theories

Correspondence theory: Following a realist point of view, the truth is the agreement and correspondence of the statement with reality. This theory can be used as a definition of truth due to its defensible logical foundations and wide consensus in its acceptance.

Coherence theory: due to turning away from the tradition of realism regarding the truth and the difficulties judges face in accessing facts, it can be a standard for discovering the truth in some judicial issues.

Pragmatic theory: interpret the truth in the light of the concepts of benefit and expediency and consider something worthy of this title if it is useful in practice. With the clarification of the meaning of truth, the judge should seek to verify this concept; various conditions regarding truth, such as judicial and relative truth, should not cause transformation and change in the concept of truth.

Nyarkpoh (2018) also showed in a study that trust in the government positively and significantly affects the probability of tax compliance. In addition, other variables such as a high level of education, government employment, low corruption, and a sense of security affect the probability of tax compliance. Kenno (2020) also examined the factors affecting taxpayers' understanding of tax evasion. It showed that tax evasion is caused by a lack of knowledge about taxes, an understanding of tax evasion as a culture, the tax audit process, and the degree of realization, understanding tax evasion as a minor crime and issues related to tax fairness and justice. Bani-Khalid et al. (2022) identified taxpayers' attitudes, subjective criteria, perceptual behavior, and patriotism as determinants of tax compliance. Perera et al. (2020) investigated confirmation bias in accounting judgments. Their research showed that accountants act biased toward recognition and measurement principles. This bias can be reduced by informing accountants about the requirements of correct judgment. In addition, Tilahun (2019) considers taxpayers to be under the influence of various factors such as punishment, justice in the tax system, tax rate, the possibility of discovery and audit, etc. and suggests that the taxcollecting institution should establish tax justice (not with the stick policy), maintain the appropriate level of punishment, and consider concessions for responsible citizens. Gechert and Heimberger (2022) show evidence for publication selectivity in favor of reporting the growth-enhancing effects of corporate tax cuts. Several factors influence reported estimates, including researcher choices concerning the measurement of growth and corporate taxes and controlling for other budgetary components. Wahyudin et al. (2022) show that The results of the study indicate that the tax audit is quite effective as an act of monitoring the self-assessment system.

The above theoretical and empirical bases show that, so far, no research has been done to

comprehensively identify the effective components in validating companies' taxable income. Based on this, the current research aims to identify and explain these components through interviews until a comprehensive model for assessing the validity of companies' taxable income is presented in the current situation, so the following research questions are based on theoretical foundations: literature review in the field. The related issues and research objectives have been tested.

- 1- What effective factors determine companies' taxable income validity?
- 2- What is the prioritization and weight of each effective factor in determining the validity of companies' taxable income?
- 3- How is the comprehensive model for determining companies' validity of taxable income explained?

3. Research methodology

The research method of the present study is an exploratory combination based on the collection, analysis, and combination of two types of qualitative and quantitative data, which are divided into three categories: interwoven, descriptive, and exploratory (Creswell and Plano-Clark, 2007). In the qualitative part, the statistical population of the research consists of auditors of the Tax Affairs Organization with at least 10 years of auditing experience in companies. Using the qualitative research method of thematic analysis, 15 semi-structured interviews were conducted to identify primary indicators. The research's time domain is 2021 and 2022; the geographical domain is the country's Tax Affairs Organization.

In the quantitative part, the research questions are compiled based on the concepts obtained from the qualitative part, and the research basics and background are reviewed. To test the questions, a questionnaire based on the concepts of the qualitative part of design research and its information is completed by different groups. The questionnaire items were designed based on a 9-point Likert spectrum, from very little (1) to very much (9). The impact of the conceptual model's implicit and explicit components was evaluated using the structural equation modelling approach. Also, all the mentioned processes have been done in SPSS55 and Smart PLS3 software. This section's statistical population consists of 310 accounting department academic staff members, financial managers, independent auditors, and tax auditors. Using the Cochran formula, 171 questionnaires were distributed and collected among the interviewed panel members. Among the collected questionnaires, 159 usable items were evaluated, and 15 of the interviewees of the first part were also among the statistical population of the second part. Table (1) is the demographic information of the research participants.

| Table 1. | Demographic | characteristics |
|----------|-------------|-----------------|
| | | |

| | Description Frequency Percentage | | | | |
|-----------|----------------------------------|-----|----|--|--|
| Gender | Man | 134 | 84 | | |
| | Female | 25 | 16 | | |
| Age | Less than 30 years | 21 | 13 | | |
| | Between 31 and 40 years | 69 | 44 | | |
| | Between 41 years and 50 years | 64 | 40 | | |
| | More than 50 years | 5 | 3 | | |
| Records | Less than 10 years | 11 | 7 | | |
| | Between 11 and 20 years | 98 | 62 | | |
| | Between 20 and 30 years | 48 | 30 | | |
| | More than 30 years | 2 | 1 | | |
| Education | bachelor's degree | 27 | 17 | | |
| | Master's degree | 79 | 50 | | |
| | PhD. | 53 | 33 | | |
| Major | Accounting, auditing, finance | 135 | 85 | | |
| | Economy | 16 | 10 | | |
| | other | 8 | 5 | | |

In Table (2), descriptive statistics indices (central and dispersion indices) are presented to summarize the data to get a general picture of the sample under investigation and the relationships between the research variables.

Table2. Descriptive statistics of research variables (source, research findings)

| Research variable | Mean | Minimum | Maximum | Standard deviation |
|--|----------------|---------|---------|--------------------|
| Income factors | 50.83 | 27 | 69 | 7.324 |
| Cost factors | 49.17 | 27 | 62 | 7.845 |
| Balance sheet factors | 67 . 53 | 40 | 94 | 9.409 |
| Other financial and accounting factors | 42.85 | 26 | 57 | 5 . 049 |
| Auditor type | 16.73 | 7 | 27 | 3 . 567 |
| Audit fees | 9.45 | 3 | 18 | 2.909 |
| Providing an audit report | 18.19 | 9 | 26 | 3.938 |
| Auditor's opinion type | 17 . 56 | 8 | 25 | 3 . 37 |
| Economical | 19 . 79 | 7 | 31 | 4.994 |
| Political | 15.62 | 8 | 24 | 3.224 |
| Legal | 52.16 | 25 | 70 | 6. 418 |
| Cultural | 23.23 | 5 | 34 | 4.425 |
| Management features | 32.24 | 16 | 51 | 5 . 217 |
| Performance and operational characteristics | 45.4 | 28 | 71 | 6. 499 |
| Comparing the company's information with the systems available to the organization | 27.96 | 7 | 36 | 3.775 |
| The existence of a standard two-way accounting system | 19 . 69 | 10 | 27 | 3 . 724 |
| Number of specialist staff | 18.77 | 6 | 25 | 3 . 834 |
| Number and complexity of products | 22.03 | 8 | 32 | 5.325 |

4. Research findings

4.1 Testing the first question

The first question of the research states what the effective components are in determining the validity of companies' taxable income. In other words, can the sub-themes extracted from the qualitative part of the research be the approved factors for the main themes? The confirmatory factor analysis method was used to answer this question. For this purpose, we first check whether the questionnaire items can explain the sub-themes of the research. After confirming this step, we will examine the above question. It is necessary to explain that this method used Smart PLS software version 3. The confirmatory factor analysis model results are presented in table (3). Criterion values are usually between 0.5 and 0.7 for factor loads; the lowest declared limit is 0.4. This means that the questions with the absolute value of factor loadings less than 0.4 are insufficient to remain in the model and should be removed and the model run again.

According to the results, the absolute value of the standardized factor loading for all the items except item Q23 (0.101) is greater than 0.5. Therefore, this non-standard item was removed, and the confirmatory factor analysis model was implemented again. The results of the second implementation of the model indicate that the absolute value of the standardized factor loading for all items is greater than 0.5. Therefore, it can be concluded that the remaining questionnaire items explain the sub-themes of the research well.

Table 3. Results of standardized factor loadings

| C . 1 . | C | Standard |
|---------|--|-------------|
| Code | Concept (item) | factor load |
| Q1 | The existence of exports and their ratio to the company's domestic sales | 0.772 |
| Q2 | The high quality of expressed interest | 0.532 |
| Q3 | Major changes in income compared to previous years | 0.676 |
| Q4 | Proportionality of gross profit margin and net profit compared to the industry average | 0.789 |
| Q5 | Items that do not affect taxable income, such as profit from the sale of investments, dividends, etc. | 0.773 |
| Q6 | The existence of incidental income | 0.518 |
| Q7 | Existence of income with withholding tax | 0.675 |
| Q8 | Absence of declared losses for at least two consecutive years | 0.785 |
| Q9 | High rial ratio of manufactured goods inventory to sales for at least two consecutive years | 0.800 |
| Q10 | The amount of manufactured goods and its relationship with the type of company's activity in terms of expiration date and storage conditions | 0.823 |
| Q11 | The presence of a product in the process of manufacturing and its relationship with the subject of the company's activity to an appropriate extent | 0.787 |
| Q12 | Despite its low amount and ratio to the volume and quantity of manufactured goods, there is no major change in auxiliary materials and packaging. | 0.800 |
| Q13 | Comparing the components of the total cost (materials, wages and overhead) to sales | 0.816 |
| Q14 | No major change in the ratio of waste to production | 0.504 |
| Q15 | The optimal percentage of the cost of salaries and wages and its ratio with sales in production, commerce | 0.540 |
| Q16 | The ratio of some imported materials to the total raw materials used in production | 0.552 |
| Q17 | The existence of financial facilities and their relationship with the financial cost and the company's income | 0.501 |
| Q18 | Optimum return on assets | 0.552 |
| Q19 | Absence of significant fluctuation in financial statement items in at least 2 consecutive years | 0.690 |
| Q20 | The high amount of working capital compared to the industry average | 0.635 |
| Q21 | The low turnover period of receivables and its ratio to the company's sales | 0.504 |
| Q22 | No major changes in accounts receivable and their ratio to sales | 0.554 |
| Q23 | The ratio of inventory to the volume and amount of sales | Omitted |
| Q24 | Increase in fixed assets and its effect on the company's sales | 0.725 |
| Q25 | The amount of orders and prepayments and their relationship with the purchase amount | 0.696 |
| Q26 | The amount of the fee and reserve of the graduate and its relationship with the number of employees | -0.565 |
| Q27 | The amount of advances and its relationship with sales and facilities received | -0.550 |
| Q28 | The low share of partners' current accounts compared to sales or purchases | 0.539 |
| Q29 | Absence of sales to fake and uncredited companies | -0.549 |
| Q30 | The relatively low number and variety of customers | 0.640 |
| Q31 | Having legal offices and writing them | -0.589 |
| Q32 | The existence of annual adjustments, especially if the income increaser is taxable | 0.697 |
| Q33 | Bank information of taxpayers (circulation of bank accounts and its connection with company sales) | 0.742 |
| Q34 | Buying or selling in the commodity exchange | -0.615 |
| Q35 | The number of employees and their ratio to the subject of the company's activity | 0.718 |
| Q36 | Being a government auditor | 0.830 |
| Q37 | The size of the audit institute | 0.577 |
| Q38 | The rank of the auditor's institution (A, B, C) | 0.889 |
| Q39 | Higher amount of audit fees | 0.571 |
| Q40 | Existence of non-audit service fees | 0.938 |
| Q41 | Mandatory submission of audit report | 0.737 |
| Q42 | Submitting the audit report along with the declaration | 0.797 |
| Q43 | Quality of financial audit performed by independent auditors | 0.642 |
| Q44 | Conditional / rejection of the audit report | 0.513 |
| Q45 | A provision about the continuity of the company's activity in the audit report | 0.853 |
| Q46 | Existence of ambiguity about the legal claims of the company in the audit report | 0.597 |

| Q47 | Increase in GDP | 0.615 |
|------------|--|----------------|
| Q48 | Balanced inflation rate | 0.716 |
| Q49 | Appropriate employment rate | 0.663 |
| Q50 | Appropriate bank interest rate | 0.543 |
| Q51 | Being a member of the government board | 0.607 |
| Q52 | The presence of institutional shareholders in the composition of shareholders | 0.546 |
| Q53 | The presence of major shareholders in the composition of shareholders | 0.672 |
| Q54 | The existence of tax exemptions and incentives and their relationship with the subject of the company's activity | 0.594 |
| Q55 | Legal permits such as exploitation license, mining license, nominal and actual capacity check | 0.629 |
| Q56 | Matching the declaration information with the information registered in customs, banks, insurance companies, etc. | 0.513 |
| Q57 | Knowledge of tax and accounting laws and regulations (having a financial and tax advisor) | 0.564 |
| Q58 | Company's tax history - Article 189 BC (three consecutive years) | 0.654 |
| Q59 | Being subject to value-added tax | 0.543 |
| Q60 | Offering seasonal deals | 0.565 |
| Q61 | Submission of tax returns on legal dates | 0.578 |
| Q62 | The absence of the company in the list of polluting companies (including pollution charges) | 0.551 |
| Q63 | The attitude of the manager or the financial officers of the company about the tax system | 0.661 |
| Q64 | The attitude of the manager or the financial officers of the company regarding taxes and | 0.801 |
| Qo. | the necessity of paying them | 0.001 |
| Q65 | The state of the country's tax culture and willingness to pay taxes among taxpayers | 0.602 |
| Q66 | Company type (public shares, private shares, partnership, etc.) | 0.573 |
| Q67 | The number of board members | 0.794 |
| Q68 | The existence of a female member in the composition of the board of directors | 0.867 |
| Q69 | Having a foreign shareholder | 0.602 |
| Q70 | The type of ownership of the company (government or joint stock) | 0.794 |
| Q70 | The percentage of non-executive board members | 0.793 |
| Q71 | Having multiple branches or affiliated companies (domestic and foreign) | 0.574 |
| Q72 | Nature of activity (production, service, trade, contracting) | 0.765 |
| Q74 | The company's activity locations (multiple or far from the office, located in decentralized spaces) | 0.514 |
| Q75 | Firm age (the criterion is the date of obtaining the operating license) | 0.581 |
| Q76 | Taxpayer size (small, medium, and large) | 0.701 |
| Q77 | The amount of registered capital compared to the volume of its operations | 0.600 |
| Q78 | Membership in the stock exchange | 0.568 |
| Q79 | Type of industry (non-sanctioned) | 0.568 |
| Q80 | The possibility of validating the data provided with information systems within the organization | 0.761 |
| Q81 | The possibility of matching the information of sellers and buyers | 0.637 |
| Q82 | The possibility of matching the declaration information with the information registered in customs, banks, insurance companies, etc. | 0.597 |
| Q83 | Non-conformity of Riyal salary list of the tax system and social security organization | 0.812 |
| Q83 Q84 | The existence of an integrated system in the company (financial/non-financial) | 0.705 |
| Q85 | Up-to-date system (financial/non-financial) | 0.785 |
| Q85 Q86 | The existence of software approved by the Tax Affairs Organization | 0.783 |
| Q80 Q87 | The existence of employees with degrees related to their duties | 0.677 |
| | Having employees with a long experience | 0.710 |
| Q88 | The existence of employees with technical training related to the duties | |
| Q89 | | 0.758 |
| Q90 | Production of branded products | 0.501 |
| Q91 | Production of exclusive products | 0.766 |
| Q92 | Product innovation There is a variety in the number of products | 0.757 0.852 |
| Q93 | There is a variety in the number of products | 0.032 |

4.2 Theoretical summarization and development of the findings of the first question

In coding the previous sections, categories were systematically improved, developed, and linked with subcategories. However, these categories should be integrated to form a larger theoretical framework. For this purpose, the comprehensive model of effective components in determining the validity of companies' taxable income is presented in Figure (1). In the previous section, it was also stated that all identified factor loadings are significant at the 95% confidence level and explain the sub-themes of the research appropriately. Besides, the coefficients of factor loadings related to the factors "income", "cost", "balance sheet" and "other financial and accounting factors" which are assigned to "financial and accounting" factors are respectively equal to 0.882, 0.908, 0.645 and 0.615, the coefficients of factor loadings related to audit factors including "auditor type", "audit fee", "audit report presentation" and "auditor opinion type" are equal to 0.651, 0.779, 0.817 and 0.972 respectively, factor loading coefficients related to including "economic factors", "political factors", "legal factors" and cultural and social factors" are respectively equal to 0.778, 0.615, 0.747 and 0.677, factor loading coefficients related to " Company-specific factors" including "management characteristics" and "performance and operational characteristics" equal to 0.826 and 0.804, respectively, and finally, factor loading coefficients related to "technical factors" including "Comparison of company information with the system" "Existence of two-way standard accounting system", "Number of expert employees" and "Number and complexity of products" are equal to 0.968, 0.739, 0.790 and 0.793, respectively. Because all factors have a factor load of more than (0.5) with their related hidden variable; the above factors are approved for "assessing the credibility of taxable income of companies". Figure (1) shows the confirmatory factor analysis model.

4.3 Testing the second question

The second question of the research states that what is the prioritization and weight of each effective factor in determining the validity of the companies' taxable income? First, the main effective factors in measuring the validity of the companies' taxable income (main themes) and the sub-factors effective in it (sub-themes) have been tested using the Friedman ranking test and the sameness of priority. The results of this test for the main factors are shown in table (4). Since the value of Sig is smaller than 0.01, with 99% confidence, the same priority of "the main effective factors in determining the validity of the declared taxable income of companies" is rejected.

Table 4. Friedman test results

| Tuble 101 Healman test | TOBUILD |
|---------------------------|---------|
| Indicator | Value |
| Sample size | 115 |
| Chi-square statistic | 451.59 |
| Degrees of freedom | 4 |
| a probability value (Sig) | < 0.01 |

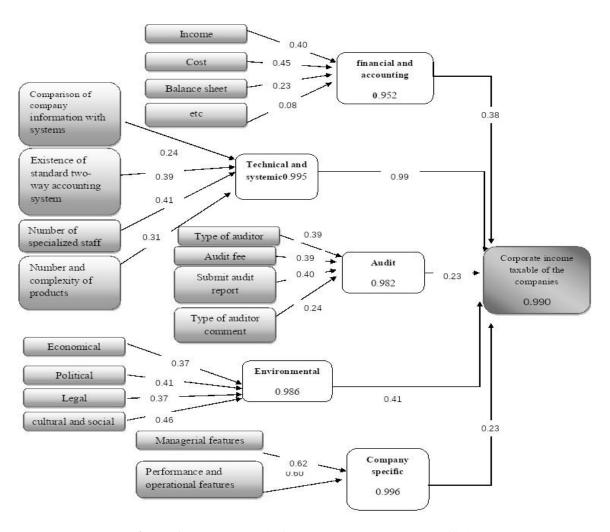


Figure 1. Tested model of research based on path coefficients

4.4 Theoretical summarization and development of the findings of the second question

In order to prioritize each of the components that are effective in measuring the credibility of the declared taxable income, the rank average is used. Table (5) shows the averages of the main factors and their priority order. In ranking these factors, the lowest rank is given to the highest score, and the highest rank is given to the lowest score; therefore, a smaller average rank indicates a better priority. As can be seen, in terms of being effective in determining the validity of taxable income of companies, audit, technical and systemic, environmental, company-specific and financial and accounting factors are the first to fifth priorities, respectively.

Table 5. The results of the rank average test, along with the order of priority

| Main factors | Rank average | Priority order |
|----------------------------------|--------------|----------------|
| Audit agents | 1.030 | 1 |
| Technical and systemic factors | 1.990 | 2 |
| Environmental factors | 2.990 | 3 |
| Company-specific factors | 4.030 | 4 |
| Financial and accounting factors | 4.960 | 5 |

Friedman's test was used to test the equality of the priority of the sub-factors effective in determining the validity of the declared taxable income of the companies. Table (6) shows the results of the Friedman test, including the sample size, chi-square statistic, degree of freedom and probability value (Sig). Because the value of Sig is smaller than 0.01, With 99% certainty, the same priority of "sub-factors effective in determining the validity of the taxable income of companies" is rejected. The rank average was used to prioritize these factors.

Table 6. Friedman test results

| Indicator | Value |
|---------------------------|--------|
| Sample size | 115 |
| Chi-square statistic | 492.75 |
| Degrees of freedom | 17 |
| a probability value (Sig) | <0.01 |

Source: research findings

Also, the average test and the priority order of the sub-factors are stated in Table (7). In terms of the effectiveness of each of the effective factors in determining the validity of the taxable income of companies, the factors related to audit fees (5.25), economic (5.50), political (6.28), management factors (7.03), type of auditor (7.81), balance sheet factors (7.96), performance and operational characteristics (8.24), number and complexity of products (8.58), cultural and social factors (9.16), auditor's opinion type (9.43), presentation of the audit report (10.52), other financial and accounting factors (10.66), other cost factors (10.91), the number of expert employees (11.51), other income factors (11.87), the existence of standard two-way accounting system (12.55), legal factors (12.94) and comparison of company information with systems (14.79) are in the first to eighteenth priorities, respectively.

Table 7. Rank average along with priority order of sub-factors

| Sub-factors Rank average Priority of Rank aver | | | | |
|--|----------------|----|--|--|
| Audit fees | 5.250 | 1 | | |
| Economic factors | 5.500 | 2 | | |
| Political factors | 6.280 | 3 | | |
| Management characteristics | 7.03 0 | 4 | | |
| Auditor type | 7.81 0 | 5 | | |
| Balance sheet elements | 7.96 0 | 6 | | |
| Performance and operational characteristics | 8.240 | 7 | | |
| Number and complexity of products | 8.58 0 | 8 | | |
| Cultural and social | 9.16 0 | 9 | | |
| Auditor's opinion type | 9.43 0 | 10 | | |
| Providing an audit report | 10.52 0 | 11 | | |
| Other financial and accounting factors | 10.66 0 | 12 | | |
| Other cost factors | 10.91 0 | 13 | | |
| The number of specialist employees | 11.51 0 | 14 | | |
| Other income factors | 11.87 0 | 15 | | |
| The existence of a standard double-sided accounting system | 12.55 0 | 16 | | |
| Legal factors | 12.94 0 | 17 | | |
| Comparison of company information with systems | 14.79 0 | 18 | | |

Source: research findings

4.5 Testing the third question

The research's third question states, how is the comprehensive model in determining the validity of companies' taxable income explained? In order to answer this question and draw a comprehensive pattern in determining the validity of the declared taxable income of companies, a suitable pattern was drawn using the research literature in related fields and the results of interviews with specialists.

This model has been tested using real data collected from the statistical population of the research and using structural equation modeling software with partial least squares (Smart-PLS); the significance and effect coefficient of each of the relationships has been determined, and ineffective relationships have been reviewed and modified in several stages to calculate the final model of the research. Using the hypothetical model of the research, the communication path of the items to the sub-themes, then the communication path of the sub-themes to the main themes, and finally, the relationship between the main themes and the taxable income variable of the companies was drawn to show the means to determine the effect of each factor. Before doing this, the degree of collinearity of the model factors should be tested. For this purpose, the Variance Inflation Factor (VIF) test is used, which evaluates the intensity of multiple collinearities in ordinary least squares regression analysis. If the VIF test statistic was close to 1, it indicates the absence of collinearity. As an empirical rule, If the VIF value is greater than 5, the possibility of multiple collinearities is high. The results of this test are shown in table (8). According to the results of this table, the VIF value of none of the items is greater than 5. As a result, there is no multiple collinearity problem when testing the research model.

Modeling of structural equations deals with the model test in two stages, which include the measurement and structural model test. In PLS modeling, the measurement model is called the external model and the structural model is called the internal model. The measurement model examines the reliability and validity of the measurement tools and research structures and tests the hidden variables' structural model, hypotheses, and relationships. Frenell and Locker (1981) suggest three criteria to check the validity of structures: 1- the reliability of each item, 2- the composite reliability of each of the constructs, and 3- the average variance extracted (Average Variance Extracted).

Regarding the validity of each item, the absolute factor loading value of 0.4 and more in the confirmatory factor analysis is defined as a good construct. A common criterion for establishing convergent validity at the construct level is average variance extracted (AVE). As seen in Table (8), the values of the model's hidden components' factor loadings are more than 0.4, which is statistically significant. On average, the construct explains more than half of the variance of the corresponding indicators. Also, each component's average extracted variance (AVE) is more than 0.4. This result indicates that the fitted model has good convergent validity and confirms the confirmatory factor analysis.

Table 8. Results of factor analysis of questionnaire questions

| Code | Concept (item) | Standard | t | VIF |
|------|--|-------------|-----------|-------|
| | - · · · · · · · · · · · · · · · · · · · | factor load | statistic | |
| Q1 | The existence of exports and their ratio to the company's domestic sales | 0.734 | 14.438 | 1.536 |
| Q2 | The high quality of expressed interest | 0.551 | 3.360 | 1.822 |
| Q3 | Major changes in income compared to previous years | 0.703 | 11.675 | 3.103 |
| Q4 | Proportionality of gross profit margin and net profit compared to the industry average | 0.793 | 18.213 | 1.632 |
| Q5 | Items that do not affect taxable income, such as profit from the sale of investments, dividends, etc. | 0.734 | 14.540 | 1.568 |
| Q6 | The existence of incidental income | 0.538 | 3.238 | 1.326 |
| Q7 | Existence of income with withholding tax | 0.702 | 12.046 | 3.722 |
| Q8 | Absence of declared losses for at least two consecutive years | 0.791 | 18.063 | 2.357 |
| Q9 | High rial ratio of manufactured goods inventory to sales for at least two consecutive years | 0.800 | 20.149 | 3.306 |
| Q10 | The amount of manufactured goods and its relationship with the type of company's activity in terms of expiration date and storage conditions | 0.829 | 21.106 | 3.661 |
| Q11 | The presence of a product in the process of manufacturing and its | 0.771 | 19.791 | 2.019 |

| • | relationship with the subject of the company's activity to an appropriate extent | | | |
|-----|--|----------------|--------|-----------|
| Q12 | Despite their low amount and ratio to the volume and quantity of manufactured goods, there is no major change in auxiliary materials | 0.801 | 19.613 | 2.344 |
| Q13 | and packaging. Comparing the components of the total cost (materials, wages and overhead) to sales | 0.821 | 20.896 | 2.971 |
| Q14 | No major change in the ratio of waste to production | 0.520 | 5.845 | 1.282 |
| Q15 | The optimal percentage of the cost of salaries and wages and its ratio with sales in production, commerce | 0.532 | 6.799 | 1.421 |
| Q16 | The ratio of some imported materials to the total raw materials used in production | 0.550 | 4.650 | 1.172 |
| Q17 | The existence of financial facilities and their relationship with the financial cost and the company's income | 0.507 | 3.461 | 1.200 |
| Q18 | Optimum return on assets | 0.577 | 7.923 | 1.138 |
| Q19 | Absence of significant fluctuation in financial statement items in at least 2 consecutive years | 0.733 | 11.861 | 2.982 |
| Q20 | The high amount of working capital compared to the industry average | 0.649 | 7.967 | 1.696 |
| Q21 | The low turnover period of receivables and its ratio to the company's sales | 0.560 | 7.077 | 1.534 |
| Q22 | No major changes in accounts receivable and their ratio to sales | 0.597 | 6.270 | 2.405 |
| Q23 | The ratio of inventory to the volume and amount of sales | Omitted | 4.4.50 | 4 - 4 - 7 |
| Q24 | Increase in fixed assets and its effect on the company's sales | 0.764 | 14.459 | 1.615 |
| Q25 | The amount of orders and prepayments and their relationship with the purchase amount | 0.711 | 12.078 | 1.598 |
| Q26 | The amount of the fee and reserve of the graduate and its relationship with the number of employees | -0.594 | 2.800 | 2.738 |
| Q27 | The amount of advances and its relationship with sales and facilities received | 0.501 | 6.264 | 2.335 |
| Q28 | The low share of partners' current accounts compared to sales or purchases | -568 | 2.603 | 1.436 |
| Q29 | Absence of sales to fake and uncredited companies | -0.529 | 5.788 | 1.090 |
| Q30 | The relatively low number and variety of customers | 0.820 | 4.550 | 2.638 |
| Q31 | Having legal offices and writing them | -0.529 | 4.925 | 4.905 |
| Q32 | The existence of annual adjustments, especially if the income increaser is taxable | 0.889 | 5.525 | 4.444 |
| Q33 | Bank information of taxpayers (circulation of bank accounts and its connection with company sales) | 0.873 | 6.565 | 2.701 |
| Q34 | Buying or selling in the commodity exchange | -0.504 | 4.327 | 4.863 |
| Q35 | The number of employees and their ratio to the subject of the company's activity | 0.938 | 5.322 | 2.841 |
| Q36 | Being a government auditor | 0.859 | 24.493 | 1.871 |
| Q37 | The size of the audit institute | 0.555 | 4.320 | 1.023 |
| Q38 | The rank of the auditor's institution (A, B, C) | 0.879 | 23.759 | 1.879 |
| Q39 | Higher amount of audit fees | 0.653 | 7.918 | 1.019 |
| Q40 | Existence of non-audit service fees | 0.840 | 18.666 | 1.019 |
| Q41 | Mandatory submission of audit report | 0.761 | 15.865 | 1.191 |
| Q42 | Submitting the audit report along with the declaration | 0.795 | 21.277 | 1.247 |
| Q43 | Quality of financial audit performed by independent auditors | 0.615 0.973 | 7.878 | 1.101 |
| Q44 | Conditional / rejection of the audit report | | 7.908 | 1.045 |
| Q45 | A provision about the continuity of the company's activity in the audit report | 0.513 | 3.056 | 1.039 |
| Q46 | Existence of ambiguity about the legal claims of the company in the audit report | -0.540 | 5.778 | 1.025 |
| Q47 | Increase in GDP | 0.528 | 2.753 | 1.091 |
| Q48 | Balanced inflation rate | 0.677 | 2.590 | 1.201 |
| Q49 | Appropriate employment rate | 0.683 | 3.956 | 1.283 |
| Q50 | Appropriate bank interest rate | 0.711 | 2.716 | 1.185 |
| Q51 | Being a member of the government board | 0.537 | 3.337 | 1.017 |
| Q52 | The presence of institutional shareholders in the composition of | 0.591 | 3.682 | 1.027 |

| 0.50 | shareholders | 0.600 | 0.712 | 1.011 |
|------------|---|-------|--------|-------|
| Q53 | The presence of major shareholders in the composition of shareholders | 0.698 | 8.713 | 1.011 |
| Q54 | The existence of tax exemptions and incentives and their relationship with the subject of the company's activity | 0.507 | 3.716 | 1.591 |
| Q55 | Legal permits such as exploitation license, mining license, nominal and actual capacity check | 0.602 | 4.519 | 2.096 |
| Q56 | Matching the declaration information with the information registered in | 0.436 | 3.214 | 1.140 |
| Q57 | customs, banks, insurance companies, etc. Knowledge of tax and accounting laws and regulations (having a | 0.555 | 4.553 | 1.650 |
| 0.50 | financial and tax advisor) | 0.620 | 5.505 | 2000 |
| Q58 | Company's tax history - Article 189 BC (three consecutive years) | 0.628 | 5.505 | 2.066 |
| Q59 | Being subject to value added tax | 0.508 | 4.512 | 1.254 |
| Q60 | Offering seasonal deals | 0.508 | 4.226 | 1.225 |
| Q61 | Submission of tax returns on legal dates | 0.518 | 3.577 | 1.112 |
| Q62 | The absence of the company in the list of polluting companies (including pollution charges) | 0.567 | 3.028 | 1.086 |
| Q63 | The attitude of the manager or the financial officers of the company about the tax system | 0.671 | 7.462 | 1.193 |
| Q64 | The attitude of the manager or the financial officers of the company regarding taxes and the necessity of paying them | 0.787 | 14.752 | 1.340 |
| Q65 | The state of the country's tax culture and willingness to pay taxes | 0.692 | 10.235 | 1.271 |
| 066 | among taxpayers | 0.522 | 2.792 | 1 116 |
| Q66 | Company type (public shares, private shares, partnership, etc.) | 0.522 | 2.782 | 1.116 |
| Q67 | The number of board members | 0.916 | 48.496 | 1.036 |
| Q68 | The existence of a female member in the composition of the board of directors | 0.879 | 33.067 | 2.697 |
| Q69 | Having a foreign shareholder | 0.526 | 5.118 | 1.209 |
| Q70 | The type of ownership of the company (government or joint stock) | 0.925 | 52.476 | 3.614 |
| Q71 | The percentage of non-executive board members | 0.916 | 46.962 | 2.593 |
| Q72 | Having multiple branches or affiliated companies (domestic and foreign) | 0.609 | 6.199 | 7.497 |
| Q73 | Nature of activity (production, service, trade, contracting) | 0.756 | 10.326 | 2.816 |
| Q74 | The company's activity locations (multiple or far from the office, located in decentralized spaces) | 0.629 | 5.694 | 2.711 |
| Q75 | Firm age (the criterion is the date of obtaining the operating license) | 0.611 | 6.138 | 7.772 |
| Q76 | Taxpayer size (small, medium, and large) | 0.692 | 7.720 | 2.472 |
| Q77 | The amount of registered capital compared to the volume of its operations | 0.572 | 5.156 | 1.223 |
| Q78 | Membership in the stock exchange | 0.587 | 4.965 | 3.806 |
| Q79 | Type of industry (non-sanctioned) | 0.518 | 3.858 | 1.135 |
| Q19 Q80 | The possibility of validating the data provided with information | 0.865 | 5.741 | 3.621 |
| | systems within the organization | | | |
| Q81 | The possibility of matching the information of sellers and buyers | 0.537 | 3.920 | 1.049 |
| Q82 | The possibility of matching the declaration information with the | 0.575 | 2.938 | 1.078 |
| Q83 | information registered in customs, banks, insurance companies, etc. Non-conformity of Riyal salary list of the tax system and social | 0.910 | 7.208 | 3.769 |
| Q84 | security organization The existence of an integrated system in the company (financial/non- | 0.700 | 10.352 | 1.130 |
| Q85 | financial) Up-to-date system (financial/non-financial) | 0.766 | 15.586 | 1.164 |
| Q86 | The existence of software approved by the Tax Affairs Organization | 0.673 | 7.638 | 1.098 |
| Q87 | The existence of employees with degrees related to their duties | 0.755 | 12.504 | 1.206 |
| Q88 | Having employees with a long experience | 0.641 | 7.215 | 1.135 |
| Q89 | The existence of employees with technical training related to the duties | 0.756 | 17.026 | 1.118 |
| Q90 | Production of branded products | 0.611 | 7.510 | 1.113 |
| Q90 Q91 | Production of exclusive products | 0.742 | 6.786 | 2.401 |
| Q91 Q92 | Product innovation | 0.742 | 12.690 | 1.268 |
| Q92 Q93 | There is a variety in the number of products | 0.710 | 9.053 | 2.974 |
| | research findings | 0.027 | 7.033 | 4.714 |

4.6 Theoretical summarization and development of the findings of the third question

Composite reliability is the ratio of the total factor loadings of the dependent variables to the total factor loadings plus the error variance, the values of which are between 0 and 1, and it is an alternative to Cronbach's alpha. As seen in Table (9), the standard factor loadings and their t-statistics, composite reliability, Cronbach's alpha and AVE index of all the items and the calculated variables and the obtained values represent the convergent validity and correlation of the constructs.

The requirement to confirm the separate validity is that the value of the average explained variance (AVE) square root is greater than all the correlation coefficients of the relevant variable with the rest of the variables. Pearson's correlation test results showed that the values on the main diameter have the highest column value, indicating the structures' appropriate validity. Providing audit report, economic factors, balance sheet elements, number and complexity of products and audit factor by 0.73; The number of specialist employees, cultural and social factors, financial and accounting factors by 0.72; audit fees, income sources, other financial and accounting factors and performance and operational characteristics 0.75; company-specific 0.82; expressed taxable income of companies, technical and system, comparing company information with systems and management characteristics have a correlation of 0.77, which express the main diameter, the square root of the average explained variance (AVE).

Table 9. The results of checking the validity of research variables

| Variables | Composite reliability | Cronbach's Alpha | (AVE) |
|---|-----------------------|------------------|-------|
| Providing an audit report | 0.870 | 0.753 | 0.530 |
| Economic factors | 0.847 | 0.753 | 0.527 |
| Balance sheet elements | 0.845 | 0.753 | 0.532 |
| Number and complexity of products | 0.717 | 0.704 | 0.530 |
| Number of specialist staff | 0.762 | 0.737 | 0.517 |
| audit agent | 0.821 | 0.730 | 0.536 |
| Audit fees | 0.820 | 0.742 | 0.566 |
| Company specific | 0.848 | 0.795 | 0.664 |
| Taxable income declared by companies | 0.916 | 0.747 | 0.585 |
| Other income factors | 0.870 | 0.827 | 0.564 |
| Other financial and accounting factors | 0.886 | 0.765 | 0.567 |
| political | 0.740 | 0.781 | 0.575 |
| cultural and social | 0.832 | 0.710 | 0.521 |
| Technical and systemic | 0.784 | 0.727 | 0.590 |
| Legal factors | 0.749 | 0.717 | 0.575 |
| financial and accounting | 0.793 | 0.746 | 0.522 |
| Environmental factors | 0.787 | 0.789 | 0.574 |
| Comparing company information with systems | 0.783 | 0.718 | 0.598 |
| Auditor's opinion type | 0.743 | 0.701 | 0.549 |
| Auditor type | 0.790 | 0.733 | 0.573 |
| Other cost factors | 0.884 | 0.845 | 0.599 |
| The existence of a standard two-way accounting system | 0.757 | 0.718 | 0.510 |
| Performance and operational characteristics | 0.818 | 0.745 | 0.567 |
| Management features | 0.889 | 0.829 | 0.599 |

Source: research findings

After checking the reliability and validity of the measurement tools and research structures (external model), testing the relationships of the underlying variables (internal model) is necessary. For this purpose, the path coefficients and t-statistics are presented in Figure (2).

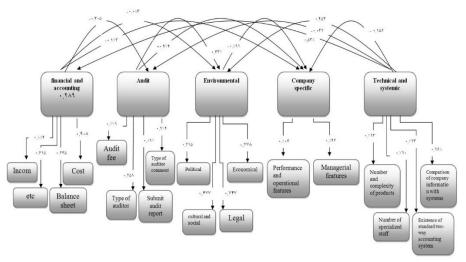


Figure 2. Path coefficients of each of the main components of the research

According to the above figure, the relationship between independent variables and dependent variables is examined. Table (10) shows the results of these relations based on modeling structural equations using the partial least squares method. According to the results listed in the table, all relationships except "the effect of other financial and accounting factors on financial and accounting factors" are significant, at least at the significance level of 0.05, since their t-statistic value is greater than 1.96. Since all the factors have a higher factor load (greater than 0.05) with their related hidden variable, the above factors are approved for "Validating the taxable income of companies".

The model's validity is determined using the coefficient of determination (R²), which measures an endogenous variable's explanatory variance by exogenous variables. The coefficient of determination for dependent variables - "financial and accounting factors", "auditing factors", "environmental factors", "company-specific factors", "technical and system factors" and "taxable income declared by companies" is equal to 0.952, 0.982, 0.986, 0.996, 0.995 and 0.990, respectively. This means that 95.2% of the changes in the variable "financial and accounting factors" are explained by the changes in "income", "cost", "balance sheet" and "other financial and accounting factors". Also, 98.2% of the changes in the variable "audit factors" are explained by the changes in the variables "type of auditor", "audit fee", "presentation of audit report" and "type of auditor's opinion". In order to test the overall model and the ability to predict the dependent variables from the independent variables, Stone-Geisser's Q2 coefficient was used. The positive values of this coefficient indicate predictability (Vinzi et al., 2010). Table (11) shows the calculations of the Q2 index for "taxable income of companies" and all its main and secondary factors. According to the table results, the model has good predictive ability.

In structural equation modeling using the PLS method, unlike the covariance-based method (CB-SEM), there is no index to measure the whole model. Still, an index called goodness of fit (GOF) was proposed by Tenenhaus et al. (2004). This index considers both measurement and structural models and is used as a criterion to measure the model's overall performance. The average of R2 and the average of shared values manually calculate this index:

$$GOF = \sqrt{Communality * R^2}$$
 formula (1)

Table 10. Path coefficients, t-statistics and model relationship results

| Table 10. Path coefficients, t-statistics and model relationship results | | | | | | |
|--|------------------|--------------|------------------------------|-----------|--|--|
| Model relationship paths | Path coefficient | t statistic | Coefficient of determination | Result | | |
| The impact of "income factors" on "financial and accounting factors." | 0.406 | 12.659** | 0.952 | Confirmed | | |
| "cost factors" affect "financial and accounting factors." | 0.457 | 10.675** | | Confirmed | | |
| The "balance sheet factors" impact "financial and accounting factors." | 0.231 | 4.796** | | Confirmed | | |
| The effect of "other financial and accounting factors" on "financial and accounting factors." | 0.086 | 1.129 | | Confirmed | | |
| The effect of "auditor type" on "audit factors." | 0.393 | 13.490** | | Confirmed | | |
| The effect of "audit fees" on "audit factors." | 0.394 | 8.100^{**} | | Confirmed | | |
| The effect of "audit report presentation" on "audit factors." | 0.406 | 9.393** | 0.982 | Confirmed | | |
| The effect of "type of auditor's opinion" on "audit factors." | 0.242 | 2.331* | | Confirmed | | |
| The impact of "economic factors" on "environmental factors." | 0.376 | 2.950** | | Confirmed | | |
| The effect of "political factors" on "environmental factors." | 0.412 | 8.168** | 0.986 | Confirmed | | |
| The effect of "legal factors" on "environmental factors." | 0.370 | 6.175** | | Confirmed | | |
| "cultural and social factors" affect "environmental factors." | 0.461 | 10.434** | | Confirmed | | |
| The effect of "management characteristics" on "company-specific factors." | 0.624 | 12.669** | 0.996 | Confirmed | | |
| "performance and operational characteristics" affect "company-specific factors." | 0.608 | 12.610** | | Confirmed | | |
| "comparing company information with organizations" affects "technical and system factors." | 0.246 | 3.254** | | Confirmed | | |
| The effect of "the existence of standard two-way accounting system" on "technical and system factors." | 0.399 | 18.103** | 0.995 | Confirmed | | |
| The effect of "number of expert employees" on "technical and system factors." | 0.416 | 16.448** | | Confirmed | | |
| The effect of "number and complexity of products" on "technical and system factors." | 0.315 | 4.818** | | Confirmed | | |
| The effect of "financial and accounting factors" on "reported taxable income of companies." | 0.382 | 8/482** | | Confirmed | | |
| The effect of "audit factors" on "taxable income declared by companies." | 0.231 | 4.791** | 0.990 | Confirmed | | |
| The impact of "environmental factors" on "taxable income of companies." | 0.418 | 13.210** | | Confirmed | | |
| "company-specific factors" affect "taxable income declared by companies." | 0.238 | 3.079** | | Confirmed | | |
| The effect of "technical and systemic factors" on the "taxable income of companies." | 0.400 | 10.800** | | Confirmed | | |

Source: research findings

This index is the square root of the product of two common values (Community) and the average coefficient of determination (R Square Average). Since this value depends on the mentioned two indices, the range of these two indices is between zero and one. Wetzles et al. (2009) introduced three values of 0.01, 0.25, and 0.36 as a weak, medium, and strong values for GOF.

The average value of the shared value index is calculated according to the following formula:

Communality =
$$\frac{1}{n} \sum_{i=1}^{n} \text{Communality}_{i}$$
 formula (2)

The Communality value calculated for the research model is equal to 0.257 and the average value

of the determination coefficient index is calculated according to the number of endogenous variables of the model according to the following formula:

$$R^2 = \frac{1}{n} \sum_{i=1}^{n} R_i^2 \tag{3} \text{ formula}$$

The value of R2 calculated for the research model is equal to 0.984.

The GOF index of this model is approximately 0.503. As a result, the model has strong utility.

Table 11. The value of Q2 for the factors affecting the declared taxable income and its dimensions and components

| components | | | | | |
|---|-----------------------------|--|--|--|--|
| Variables | Q ² (=1-SSE/SSO) | | | | |
| Financial and accounting factors | 0.339 | | | | |
| Income factors | 0.308 | | | | |
| Cost factors | 0.357 | | | | |
| Balance sheet factors | 0.179 | | | | |
| Other financial and accounting factors | 0.341 | | | | |
| Audit agents | 0.287 | | | | |
| Auditor type | 0.288 | | | | |
| Audit fees | 0.197 | | | | |
| Providing an audit report | 0.231 | | | | |
| Auditor's opinion type | 0.332 | | | | |
| Environmental factors | 0.208 | | | | |
| Economic factors | 0.188 | | | | |
| Political factors | 0.188 | | | | |
| Legal factors | 0.262 | | | | |
| Cultural and social factors | 0.201 | | | | |
| Company specific factors | 0.284 | | | | |
| Management features | 0.393 | | | | |
| Performance and operational characteristics | 0.194 | | | | |
| Technical and systemic factors | 0.228 | | | | |
| Comparing company information with organizations | 0.197 | | | | |
| The existence of a standard two-way accounting system | 0.284 | | | | |
| Number of specialist staff | 0.199 | | | | |
| Number and complexity of products | 0.219 | | | | |
| Declared taxable income of companies | 0.252 | | | | |

5. Discussion and conclusion

This research aimed to identify and prioritize the effective components of measuring the validity of the declared taxable income of companies and to provide a comprehensive model in this field. To achieve this goal, three questions were raised. Thus, in the qualitative section, 15 interviews were conducted with experts in tax affairs using the theme analysis method, and the primary components of the factors affecting the declared taxable income of the companies were extracted. After the analysis, 93 indicators were identified in the form of 18 sub-themes and 5 main themes, and in the quantitative part to weigh the main and sub-factors, determine the intensity of the relationship between these factors and prioritize them using confirmatory factor analysis and Friedman's test. The structural equation modeling method was used to draw a comprehensive model to determine the validity of the declared taxable income of companies.

The first question of the research was about identifying the factors affecting the validity of the declared taxable income of companies. In order to find the right answer to this question, five main categories were identified: financial and accounting, auditing, environmental, technical and systemic, and company-specific factors.

Financial and accounting factors are some of the most important factors in measuring companies'

credibility in expressing taxable income. This factor has been identified in the current research as income, cost, balance sheet, and other financial and accounting sub-components. Heyrani et al. (2019) examined the financial and accounting factors identified in the above research as reporting and accounting functions and indicated that 14 indicators (themes) had been emphasized as tax audit risk indicators. In the current research, 35 indicators (themes) have been identified; in addition to the majority of the above research, factors such as taxpayers' bank information, annual adjustments, incidental income, etc., have been introduced as factors affecting the validity of the taxable income declared by companies. Due to the conflict of interest between the taxpayer and the tax auditor, the concepts identified in the accounting reports prepared by the taxpayer may lead to tax evasion and ultimately tax evasion, which can be minimized through the development of tax culture and it is in line with the research of Perera et al. (2020). None of the indicators of financial and accounting factors identified in this research has been introduced in the studies of Dastgir et al. (2015), Wahyudin et al. (2022), De Neve et al. (2021), Abdulhamid et al. (2019), which are in line with the present research.

Another important factor identified in measuring the credibility of companies' taxable income is the audit factor. In the current research, these factors have been identified as sub-components of the type of auditor, audit fee, presentation of the audit report, and the type of auditor's opinion. Auditing is a mechanism for crediting companies' financial statements and accounting information, which is the basis for completing taxpayers' tax returns. According to Heyrani et al.'s results (2019), only the quality index of a financial audit performed by independent auditors and the index of providing financial and tax audit reports in the results of Dastgir et al. (2015) and Wahyudin et al. (2022) has been introduced as audit factors. In the current research, 9 other indicators (themes) have been introduced as auditing factors in addition to those mentioned. In other studies, which align with the present research, no index has been introduced as an audit factor.

The environmental factor is one of the other factors that have been identified in determining the validity of the declared taxable income of companies. Current research identifies this factor as legal, cultural, social, economic, and political sub-components. From the point of view of tax auditors, it is expected that taxpayers who comply more with their legal duties have less risk and present information related to their performance to users in a timely and accurate manner; therefore, failure to provide timely and correct information is considered as bad news and indicates a higher risk for the taxpayer. This is in contradiction with the theory of information validity and the theory of trust and causes a decrease in the validity of information expressed by taxpayers. Environmental factors have been introduced as environmental conditions, and factors in Heyrani et al.'s research (2019) and economic factors in the research of Green et al. (2022) are consistent with the present study's results. The index of the presence of institutional shareholders in the research of Dastgir et al. (2015), indicators of tax culture, knowledge of tax laws and regulations, and the attitude of the manager or financial officers of the company regarding the tax system in the research of Gechert and Heimberger (2022), Kenno (2020), Da Silva et al. (2019), Inasius (2019), Nyarkpoh (2018) and AbdulHamid et al. (2019) have been taken into consideration. The environmental factors identified in the current research contradict the results of De Neve et al. (2021).

As for the company-specific factors, the performance, managerial, and operational characteristics sub-components have been identified to determine the companies' taxable income validity. Since the above items significantly impact the credibility of taxpayers' tax returns, environmental factors and variables extracted from interviews with experts have been presented to evaluate their role and importance in the credibility of the declared taxable income by companies. The identified indicators of specific factors such as the company's membership in the stock exchange, whether it is public or private, the number of board members, having a foreign shareholder due to the requirement to provide more transparent financial information and stricter regulations can be effective in determining the

validity of the declared taxable income. In the research of Heyrani et al. (2019), specific factors are defined under the title of sub-component of the general characteristics of the taxpayer in 5 indicators (themes), and the research of Dastgir et al. (2015) under the title of characteristics of legal taxpayers and in 6 indicators (themes). The above is consistent with the results of the present study. In other mentioned studies in the previous parts, which align with the current research, no indicators have been introduced as specific company factors.

Technical and systemic factors in this research include the items related to the company's information in the systems at the organization's disposal, the accounting system used by taxpayers and employees, and the type of taxpayers' products. Technical and systemic factors allow the taxpayer's data to be validated with internal and external information systems. The more comprehensive and extensive this possibility is, the less information asymmetry between the tax auditor and the taxpayer. In addition, the taxpayer's awareness of the possibility of matching the data is an obstacle in expressing false information. Data reconciliation will be done through external information systems (such as customs, social security, and banks), internal information systems (such as quarterly transaction statements and salary lists), and information from similar companies. The taxpayer has an informational advantage over the tax auditors due to his knowledge and access to his information and industry. The greater this information advantage is, the taxpayer's failure to provide information that is inaccessible to the tax auditor leads to the incorrect selection of the auditor, which is in contradiction with the theory of information validity and the law of truthfulness and reduces the validity of the expressed information and trust to the taxpayers. In Heyrani et al.'s research (2019), technical and system factors have been identified in 8 indicators (themes) under the main component of data adaptability and the sub-component of customer and product characteristics. In the current research, technical and systemic factors have been identified in 14 indicators (themes), and the results of the Nyarkpoh (2018) research align with the current research. In other studies mentioned in the previous parts, which align with the current research, no index has been introduced as a technical and systemic factor.

Most of the indicators presented in this research are consistent with the existing literature. Still, despite many similarities, this model has introduced and emphasized many special components and factors. In other words, although each of the previous studies has identified a part of the effective factors in determining the validity of declared taxable income and tax audit risk, the current research can be considered comprehensive research considering all the factors affecting the validity of the declared taxable income of the companies. It should be noted that there is a possibility that the indicators introduced in this research have been identified according to the specific conditions in Iran.

The second research question was about the prioritization and weight of each effective factor in determining the validity of companies' taxable income. The relevant results are shown under the title of main factors in Table (5) and sub-components in Table (7). The prioritization and weight of each factor in the current research are contrary to the results of Heyrani et al. (2019). In other studies mentioned in the previous parts, which are in line with the present research, variable prioritization and weighting have not been done.

The third question of the research was about the comprehensive model for determining the validity of the declared taxable income of companies, the model of which is presented in figure (1). One of the achievements of this paper is the model presented for determining the validity of the declared taxable income of companies; according to the studies conducted in the literature, the researcher has not dealt with cases that have been addressed to this concept; therefore, it has led to increased knowledge in the field of accounting and taxation.

Therefore, according to the explanations above, it can be said that the assessment of the validity of the taxable income declared by companies has a very important effect on the system of self-

declaration of taxes by companies and the easy collection of taxes by the tax administration. However, with the correct application of the model presented in this research, it can be said that the self-declaration of companies to pay taxes on time will increase. Therefore, based on the obtained results, the following suggestions are provided:

6. Research implications

It is suggested that the Tax Affairs Organization complete the companies' tax returns as public information. If companies know their tax information is public and available to everyone, they lose motivation to hide their incomes and activities.

Expanding the tax culture in light of the truth-telling law in society can help the tax affairs organization obtain highly reliable information. On the other hand, it is suggested that the Tax Affairs Organization, following the theory of trust, have a more appropriate direction toward developing laws, regulations, and tax mechanisms.

One of the most important factors that experts think is effective in improving the tax culture is providing information related to tax issues in line with the expansion and institutionalization of the theory of trust and the law of telling the truth. Although it is not a sufficient condition, it is a necessary condition. In the textbooks, social centers, cinemas and television films or radio programs of the country, there is almost no sign of the tax issue, which is the most vital issue of a healthy economy (if there is, it is very weak). At the same time, correcting the existing situation and creating fundamental changes through advertising and awareness through radio and television is possible. Also, the inclusion of a lesson on the importance and place of taxes in the programs of different educational levels, the promotion of the idea of an abundant land by paying taxes in the press and mass media, emphasizing the increasing importance of public benefits from paying taxes, and increasing the share of citizens and the lower classes of society is recommended.

In order to overcome the country's tax system from the current unfavorable situation, it is necessary to carry out fundamental reforms in each of its pillars. In other words, having an efficient tax system will depend on improving the weaknesses of the mentioned pillars, so it is necessary to amend the tax laws and regulations, especially the amendment of the direct taxes law, expand the tax base and carry out fundamental reforms. In the tax affairs organization, in light of the expansion of the theory of trust in the tax system, they should be considered as the basic strategies for reforming the tax system. Also, in parallel with doing these things, improving the society's general culture should be placed on the agenda of the institutions in charge of the country's culture as a long-term issue.

Change the declaration form for the country's tax affairs organization to facilitate the submission of taxpayers' information. All over the world, tax affairs organizations prepare default declarations based on the information in the database. It provides it to the taxpayer, and the taxpayer submits the changes. The information the organization can receive from other authorities will not be collected from the taxpayer again. This has not been done in Iran, and all information is obtained from the taxpayer.

7. Further to the study

Considering the lack of sufficient and comprehensive studies in identifying the factors affecting the validity of taxable income declared by taxpayers in the country, it is suggested to the researchers that to develop the subject and enrich it, the following subjects should be included in the focus.:

Providing a suitable model to explain the factors affecting the validity of the declared taxable

income of natural persons.

Compilation and presentation of training packages on factors affecting the credibility of taxpayers' information for tax auditors of the Tax Affairs Organization according to their organizational level.

Examining how to use big economic data or data from different organizations to evaluate the factors affecting the validity of the declared taxable income.

Considering that the implementation of any scientific research will face limitations, the possible limitations of the current research can be stated as follows:

Non-cooperation of some members of the determined statistical society

The statistical population of the current research only included auditors of the Tax Affairs Organization as interviewed experts, and therefore, the use of another statistical population, such as academics, independent auditors, certified accountants, etc., may lead to different results.

The structural equation method was used to extract the research pattern; previous research shows that different results will be obtained if other methods, such as non-linear decision-making patterns, are used.

Using the questionnaire tool in a part of the research may have caused some inherent limitations to the results, which was unavoidable.

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