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Exploratory Factor Analysis of Regional Economic Development Indicators in Indonesia : A Maqasid Al-Shariah Approach

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ABSTRACT

Purpose: This study aims to identify the factor structure of regional economic development indicators in Indonesia using Exploratory Factor Analysis and map them into the five dimensions of maqasid al-shariah, namely the protection of faith (din), soul (nafs), intellect (aql), offspring (nasl), and property (mal).

Design/methodology: This research uses an explanatory quantitative approach with Exploratory Factor Analysis (EFA) technique on panel data of 34 provinces in Indonesia during the period 2017-2023.

Findings: This study found that 12 out of 18 indicators of regional economic development in Indonesia have represented the five dimensions of maqasid al-shariah. This finding was obtained through exploratory factor analysis (EFA) with Promax Rotation, where all indicators had factor loading values ≥ 0.5 . This finding confirms the validity of the factor structure as well as its compatibility with the magasid al-sharia approach.

Practical Implication: This study emphasizes the integration of maqasid al-shariah into regional development, ensuring a balance between material and non-material welfare. The framework supports policymakers in reducing disparities and promoting inclusive and sustainable growth.

Originality/Value: This research offers a new approach in mapping conventional economic development indicators into the magasid al-sharia approach through the EFA method, which has not been widely done in shariah economic development studies in Indonesia.

Keywords: Regional Economic Development, Maqashid Al-Shariah, Welfare, Exploratory Factor Analyis, Economic Development Indicators.

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A. INTRODUCTION

Regional economic development is a cornerstone of Indonesia's national policy, aiming not only to enhance community welfare but also to ensure sustainability and inclusivity across regions. At the provincial level, development serves as both a barometer and a catalyst, enabling the measurement of performance, identification of disparities, and formulation of targeted local government policies (Ministry of National Development Planning, 2025). Data from the Central Statistics Agency (Badan Pusat Statistik, 2025), indicate that achievements in regional development are reflected through three interrelated domains: economic performance, demographic and social conditions, and environmental indicators. Together, these domains provide a nuanced understanding of provincial dynamics, highlighting the complex interplay between economic growth, social well-being, and environmental sustainability, core principles guiding Indonesia's development planning.

Although this framework is relatively comprehensive, regional disparities remain significant. Statistical evidence highlights that Java consistently records the highest Gross Regional Domestic Product (GRDP) growth, averaging above 4 percent, supported by investment levels exceeding Rp 400 trillion. In contrast, eastern regions such as Papua and East

Nusa Tenggara continue to face poverty rates above 19 percent, coupled with limited access to clean water and basic infrastructure. Recovery trajectories also vary considerably across provinces. For example, Central Sulawesi achieved double-digit growth in the post-pandemic period, while Bali and Yogyakarta relied predominantly on tourism and services to stimulate recovery.

In the social dimension, higher education participation exceeds 75 percent in Yogyakarta and Bali, yet Papua and West Papua continue to report low life expectancy and insufficient Information and Communication Technology (ICT) skills. At the national level, the Gini Ratio has stabilized between 0.28–0.33; suggesting relatively even income distribution. However, persistent interregional development disparities indicate that Indonesia's regional economic development indicators remain overly focused on material dimensions, while non-material aspects such as justice, morality, and spiritual values are rarely addressed.

These disparities negatively affect societal welfare. Materially, inequality restrict access to employment, education, healthcare, and basic infrastructure, leaving underdeveloped regions with high poverty and low living standards. Non-materially, disparities generate social injustice, marginalisatin, and limited community participation in social, cultural, and spiritual activities. Consequently, uneven development impedes inclusive growth and overall quality of life, necessitating policy interventions that promote economic equity while strengthening social and spiritual values (Yunanto et al., 2025).

A more holistic measurement of welfare can be achieved through a maqasid al-shariah based approach, which emphasises the five Shariah objectives: protection of faith (din), soul (nafs), intellect (aql), offspring (nasl), and property (mal). This approach broadens development indicators, so that societal welfare is assessed not only materially but also in terms of spiritual, moral, social, and intellectual quality of life, including social participation, reinforcement of moral values, and individual capacity development (Al-Jayyousi et al., 2022; Ghlamallah, 2023; Hashem, 2023; Shovkhalov, 2024).

Several previous studies highlight the significance of the maqasid al-shariah approach in economic development. Hikmah and Yazid (2025) emphasises maqasid al-shariah as a solution in contemporary economics. Azmi (2024) highlights the relevance of maqasid al-shariah in the success of people's economic development, while Fajar et al., (2021), Isnaini and Sugara (2024), developed a conceptual approach for economic development that is aligned with the five dimensions of maqasid al-shariah. However, most of these studies are still limited to descriptive normative approaches, and have not empirically tested the relationship between economic development indicators and the maqasid al-shariah structure.

This study addresses this gap by applying Exploratory Factor Analysis (EFA) to empirically identify and categorise regional economic development indicators in Indonesia according to the five maqasid al-shariah dimensions. EFA reveals latent structures within complex datasets, allowing the construction of empirically valid factor models (Gatignon, 2014). Previous research demonstrates EFA's utility: Muhammad et al., (2025) validated instruments measuring aqidah, ibadah, and akhlak; Masuwai et al., (2025) assessed Islamic Education teachers' competencie, Mohameda et al. (2023) measured trainee teachers' financial well-being, and Ismail et al., (2025) evaluated constructs including conventional and Islamic economic systems, digital marketing, and gold marketing perfectionism

By integrating EFA with the maqasid al-shariah approach, this study introduces a novel empirical approach to analysing economic development indicators. To the researcher's

knowledge, no prior study has mapped regional indicators within this approach. The novelty lies in linking economic indicators with the five maqasid al-shariah dimensions, producing a holistic set of welfare measurement indicators.

The study contributes theoretically by providing an empirical framework that incorporates shariah principles into economic evaluation, expanding literature on both material and non-material welfare. Practically, it offers a foundation for Indonesian local governments to design inclusive and equitable development policies, such as balanced fund allocation, prioritisation of education and healthcare in underdeveloped areas, and social-spiritual programmes. Ultimately, this research has the potential to enhance societal welfare comprehensively and reduce interregional disparities.

B. LITERATURE REVIEW

1. Conventional Economic Development

According to Ganaka (2025), conventional economic development aims to boost growth by increasing per capita income, reducing poverty and unemployment, maintaining price stability, and generating decent jobs. Rostow's (1960) modernisation theory views development as a linear transition from traditional to high-consumption societies, driven by investment and industrialisation. Similarly, Lewis's (1954) structural change model highlights shifting labour from agriculture to industry to accelerate growth and employment (Todaro and Smith, 2020; Chandra, 2022).

To measure the success of economic development and its supporting factors, various macroeconomic indicators are widely used at regional, national and global levels. These indicators include economic growth rate, per capita income, poverty rate, Human Development Index (HDI), open unemployment rate, income distribution, inflation, and investment. In addition, social indicators such as regional inequality, labour force participation, food security, as well as access to basic services such as health and education, basic infrastructure; water, electricity, and road facilities, and accessibility to religious freedom are also important components in assessing the quality of economic development (Thirlwall and Pacheco-Lopez, 2017; Ahuja, 2019; Custodio et al., 2023).

Previous research shows that conventional economic development indicators have a positive impact on economic growth and improving people's welfare. Azzahra et al., (2024) shows that education plays an important role in driving economic growth and reducing poverty in Indonesia through improving the quality of human resources. In line with the findings Singh et al., (2025) which confirms that increasing per capita income has a significant impact on improving the quality of human resources. Kang and Li (2024) also concluded that economic growth contributes to a consistent reduction in absolute poverty.

Studies have also highlighted the importance of investment in driving economic development. Mohamed and Abdi (2024) finding capital formation boosts economic growth and simultaneously lowers the unemployment rate. Muneer et al., (2025) strengthened the argument by showing that investment can increase economic growth while reducing unemployment. Yeboah et al., (2025) adding investment and trade openness has a positive impact on economic growth in the short term, especially in developing countries.

2. Critique of the Conventional Approach

Conventional economic development has long been used as a benchmark for assessing

a country's success in improving societal welfare, with key indicators including economic growth, per capita income, and HDI. While this indicators provide insights into material achievements, conventional approaches are frequently criticised for emphasising purely economic aspects and neglecting non-monetary dimensions and long-term sustainability.

Several studies highlight these limitation. Dirksen and Alkire (2025) argue that, conventional indicators fail to capture non-monetary poverty and overlook aspects of dignity and social justice. Liu et al., (2024) point to the narrow scope of such indicators, particularly regarding income equity and long-term sustainability. Buchs and Lee (2024) emphasise that, economis growth as the sole development goal is insufficient and advocate for alternative indicators that prioritise social justice, basic needs fulfilment, and holistic well-being.

In addition, spiritual and environmental dimensions are often neglected. Shabbir (2019), also highlighted that development measures overly focused on material aspects tend to overlook the spiritual and environmental dimensions essential for sustainable prosperity. He emphasised the need to integrate the five dimensions of *maqasid al-shariah* into a comprehensive development approach to reflect a balanced fulfilment of physical, social, and spiritual needs. Ullah and Kiani (2017), also criticised the materialistic approach to economic development for failing to reflect substantive Islamic welfare, arguing that conventional indicators overlook distributional justice and moral sustainability key elements of the Islamic development approach.

These critiques underscore the need for development indicators that are comprehensive, equitable, and value-oriented, aligned with Islamic principles. Such indicators should not only focus on material economic growth but also on social and spiritual well-being, thereby supporting sustainable and inclusive development.

3. Magashid al-Shariah and Development Indicators

Economic development in a sharia perspective does not only focus on material growth, but aims to achieve material, spiritual and social welfare. Different from the conventional approach that emphasises the material aspect, Islam views economic development as a means to protect the five basic needs, namely protection of faith (din), soul (nafs), intellect (aql), offspring (nasl), and property (mal), which form the basis for holistic, fair and sustainable economic development (Karimullah, 2023).

To bridge the gap between the maqasid al-shariah approach and development practices, conventional development indicators can be contextualised into the five dimensions of maqasid al-shariah to reflect Islamic values (Osman, 2022). Consequently, economic development is not only orientated towards material growth, but must also reflect the values of justice, welfare and sustainability in accordance with shariah principles.

The values of maqashid al-shariah are reflected in development indicators that integrate spiritual and social dimensions. Chapra in Azmi et al., (2024) emphasises that these values are reflected in indicators that integrate spiritual and social aspects, such as the guarantee of freedom of worship and the availability of religious facilities, which reflect support for religious life. The fulfilment of people's basic needs such as reducing poverty and unemployment, and access to basic infrastructure services such as clean water, electricity, and roads are important indicators in realising a dignified welfare life (Tarmizi, 2024). The aspect of human resource development is also a major concern, reflected through labour force participation, and HDI achievements as a reflection of the importance of knowledge and competence in Islam (Haraki et al., 2024; Jaya et al., 2025).

On the other hand, protection of future generations is also pursued through improving family health and education services (Munthe et al., 2024). Macroeconomic indicators such as economic growth, per capita income, equitable income distribution, inflation control, and increased investment, are a reflection of the principles of justice and balance in wealth management (Noh, 2022; Zailani and Zakaria, 2022). Thus, the Islamic values-based economic development approach emphasises the balance between material, spiritual and social aspects, as well as between individual and collective interests, to create a just and sustainable society.

Mapping regional economic development indicators into the five dimensions of maqasid al-shariah highlights the potential of this approach to create a more holistic and value-driven development approach. Beyond material aspects, it integrates spiritual and social values often neglected in conventional models. Thus, it is essential to develop indicators that not only quantify outcomes but also reflect social justice, environmental stewardship, and fundamental human rights in line with shariah principles.

However, this integrative mapping also raises critical questions about the adequacy of conventional government indicators in fully representing the five maqasid al-shariah dimensions. Although economic, demographic, social, and environmental measures capture material progress, they may fail to encompass the spiritual and social elements vital to a shariah-based development paradigm. In examining the relationship between conventional economic development indicators and the values of maqashid al-shariah, an analytical approach with empirical orientation is required. Exploratory Factor Analysis (EFA) is an appropriate method for identifying the latent structure of a set of indicators without the need to establish a predefined construct approach (Widaman and Helm, 2023). Through EFA, it can be evaluated whether these indicators statistically form a number of meaningful latent factors, which can substantively be associated with the values of maqasid al-shariah.

This approach facilitates an inductive process to reveal underlying relationships among variables, while allowing for contextual conceptual interpretation of regional economic development indicators within a shariah approach. Thus, EFA functions not only as a statistical tool but also as a foundation for developing a valid and empirically relevant measurement instrument grounded in magasid al-shariah values.

Ho: Regional economic development indicators in Indonesia do not form latent factors that reflect the dimensions of maqasid al-shariah.

Ha: Regional economic development indicators in Indonesia form latent factors that reflect the dimensions of maqasid al-shariah.

4. Use of Exploratory Factor Analysis (EFA) in Relevant Studies

Watskin (2020) explains, EFA is a method used to identify the latent structure of a set of intercorrelated variables. Its purpose is to reduce the indicators into several factors that represent latent constructs. Without requiring a predefined model, EFA is well-suited for the stages of theory exploration or instrument development. This method groups variables based on their patterns of interrelation into dimensions with high internal coherence, thereby playing a vital role in construct validation and in testing conceptual structures based on empirical data. In development economics studies, both within conventional and shariah contexts, the use of EFA remains relatively limited. Several studies have employed EFA to examine construct validity in regional economics and the halal lifestyle (Alamsyah et al., 2024), to assess methodological quality improvements in scientific research (Goretzko et al., 2021). to identify sustainable development factors in agriculture (Laurett and Mainardes, 2021), and to explore

the underlying factors of collaboration in construction development projects in developing countries (Faris et al., 2022).

However, the use of EFA to validate economic development indicators based on maqasid al-shariah dimensions is still limited, especially in the context of regional development. Nonetheless, this approach is crucial to empirically confirm that Indonesia's regional economic development indicators align with the maqasid al-shariah approach.

Exploratory Factor Analysis (EFA) offers a rigorous, data-driven method to uncover the latent structures underlying regional economic development indicators, enabling their contributions to each dimension of maqasid al-shariah to be empirically examined. Unlike purely conceptual or descriptive approaches, EFA produces findings that are measurable, scientifically verifiable, and capable of capturing complex interrelationships among indicators. In this study, EFA is employed to assess how Indonesia's regional development indicators align with the five principal maqasid dimensions, thereby providing a robust methodological contribution to the formulation of a precise and practical shariah-based framework for evaluating regional development.

Dimensions of Magasid al-Shariah, **Exploratory** 1. The protection of Factor Analysis faith (din), (EFA) Indicators of 2. The protection of Regional soul (nafs), Identify latent Economic 3. The protection of structures and Development intellect (aql), categorise them in Indonesia 4. The protection of into factors. offspring (nasl), 5. The protection of property (mal)

Figure 1. Conceptual Framework

Source: Researcher, 2025

C. METHOD

This study adopts a quantitative explanatory approach, utilising panel data from the Central Statistics Agency (Badan Pusat Statistik/BPS), covering 34 out of 38 provinces in Indonesia for the period 2017–2023. Four provinces were excluded due to data limitations. This exclusion may introduce selection bias, as the included provinces tend to have more complete and consistent data. On the positive side, this allows the analysis to be conducted with higher data quality, making the models and research findings more stable and reliable in representing regional economic development trends in the provinces covered by the study.

The unit of analysis consists of various regional economic development indicators representing economic, socio-demographic, and environmental dimensions. Economic indicators include Gross Regional Domestic Product (GRDP), economic growth rate, access to electricity, clean water, household gas usage, road access, and investment. Socio-demographic indicators cover open unemployment rate, Gini ratio, labour force participation, life expectancy,

school enrolment rate, number of places of worship, and population growth rate. Environmental indicators include HDI, percentage of the population living in poverty, Gender Development Index (GDI), and the proportion of people with ICT skills. The selection of indicators is based on data availability and their relevance to the dimensions of regional economic development within the context of magasid al-shariah.

All indicators were analysed using EFA to explore and identify the structure of latent factors without any prior assumptions regarding the number or form of the factors. EFA was employed to group intercorrelated indicators into factors that statistically represent the latent dimensions of regional economic development in Indonesia. Subsequently, the results of the factor exploration were conceptually analysed and classified into the five dimensions of magasid al-shariah, namely the protection of faith (din), life (nafs), intellect (agl), lineage (nasl), and wealth (mal). This approach aims to evaluate the alignment of regional economic development indicators with the values of magasid al-shariah as a normative approach within Islamic development economics.

According to Finch (2019), EFA, conducted using SPSS, begins with testing data suitability through the Kaiser-Meyer-Olkin (KMO) measure and Bartlett's Test of Sphericity, minimum acceptable KMO value is 0.60, while Bartlett's Test must show statistical significance (p < 0.05) to confirm that the correlations among variables are sufficient. In addition, sample adequacy is assessed using the Measure of Sampling Adequacy (MSA), with a minimum value of 0.50. The Communalities values indicate the proportion of variance in each variable that can be explained by the factors, with an Extraction value ≥ 0.50 considered adequate. The number of factors is determined based on Eigenvalues greater than 1 and a Scree plot analysis. Indicators are assigned to factors based on a minimum factor loading value of 0.50. To clarify the factor structure and facilitate interpretation, a Promax rotation method is applied (Hair et al., 2019).

D. RESULT AND DISCUSSION

The research findings were obtained through a systematic data analysis process aimed at identifying the structure of latent factors. The initial stage involved testing data suitability to ensure construct validity and sample adequacy, using three primary tests: the Kaiser-Meyer-Olkin (KMO) measure, Bartlett's Test of Sphericity, and the Measure of Sampling Adequacy (MSA). These three tests served as the foundation for proceeding to the more in-depth stage of EFA.

Table 1. Preliminary Tests of Exploratory Factor Analysis (EFA)

N	Testing Method	Analysi	Cut off	Conclusion
0		s Result	Value	
1.	Kaiser-Meyer-Olkin (KMO)	0.671	≥ 0.6	The KMO value of 0.671 exceeds the 0.6 threshold, indicating the data are adequate for factor analysis and suitable for identifying the dimensions of <i>maqasid al-shariah</i> in regional economic development.
2.	Bartlett's Test of Sphericity (Sig)	0.00	< alpha 0.05	The results of Bartlett's Test of Sphericity show a significance value of 0.00 (p < 0.05),

				111
				indicating that the correlations
				among indicators are statistically
				significant. Therefore, the data
				are suitable for further analysis
	200			through factor analysis
3.	Measures of Sampling			The MSA results indicate that
	Adequacy (MSA)			most indicators exceed the 0.5
	1. Gross Regional	0.773	> 0.5	threshold, confirming their
	Domestic Product			suitability for further analysis.
	(GRDP)	0.441	> 0.5	However, five indicators; GRDP
	2. GRDP Growth Rate	0.702	> 0.5	growth rate, road access, Gini
	3. Percentage of			ratio, labour force participation,
	Households with	0.645	> 0.5	and school enrolment rate, fell
	Access to Electricity			below this threshold and were
	4. Number of Clean Water	0.713	> 0.5	therefore excluded.
	Service Subscribers	0.471	> 0.5	Subsequently, the preliminary
	5. Household Gas Usage	0.749	> 0.5	tests (KMO, Bartlett's Test, and
	6. Road Access	0.608	> 0.5	MSA) were repeated
	7. Investment			
	8. Open Unemployment	0.438	> 0.5	
	Rate	0.442	> 0.5	
	9. Gini Ratio			
	10. Labour Force	0.837	> 0.5	
	Participation	0.430	> 0.5	
	11. Life Expectancy	0.696	> 0.5	
	12. School Enrolment Rate			
	13. Number of Places of	0.589	> 0.5	
	Worship	0.690	> 0.5	
	14. Population Growth Rate			
	15. Human Development	0.815	> 0.5	
	Index (HDI)			
	16. Percentage of	0.735	> 0.5	
	Population Living in			
	Poverty	0.571	> 0.5	
	17. Gender Development			
	Index (GDI)			
	18. Percentage of			
	Population with ICT			
	Skills			

Table 1 presents the results of the KMO test, which yielded a value of 0.671 (> 0.6), and Bartlett's Test, which showed a significance level of 0.00 (< 0.05). These results indicate that the data are suitable for factor analysis. The MSA results show that most indicators have values above 0.5; with the exception of five indicators: GRDP growth rate, road access, Gini ratio, labour force participation, and school enrolment rate. Consequently, these five indicators were eliminated, and the preliminary tests were repeated to obtain a more valid factor structure.

Table 2. Preliminary Tests of Exploratory Factor Analysis (After the Elimination of 5 Indicators)

	(After the Elimination of 5 Indicators)							
N o	Testing Method	Analysis Result	Cut off Value	Conclusion				
1.	Kaiser-Meyer-Olkin (KMO)	0.755	≥ 0.6	Kaiser-Meyer-Olkin (KMO): The KMO value of 0.755 exceeds the 0.6 threshold, indicating adequate sampling and data suitability for factor analysis in identifying the dimensions of maqasid alshariah.				
2.	Bartlett's Test of Sphericity (Sig)	0.00	< alpha 0.05	Bartlett's Test of Sphericity (Sig): The significance value of 0.00 (p < 0.05) confirms that correlations among indicators are statistically significant, supporting the feasibility of further factor analysis.				
3.	Measures of Sampling			The MSA values for all				
	Adequacy (MSA)			indicators exceed 0.5,				
	Gross Regional Domestic Product	0.759	> 0.5	indicating adequate sample adequacy and inter-variable				
	(GRDP) 2. Percentage of	0.838	> 0.5	correlations. Thus, the data are deemed suitable for				
	Households with Access to Electricity	0.607	> 0.5	factor analysis within the magasid al-shariah				
	3. Number of Clean Water	0.854	> 0.5	approach.				
	Service Subscribers	0.673	> 0.5					
	4. Household Gas Usage	0.794	> 0.5					
	5. Investment	0.787	> 0.5					
	6. Open Unemployment Rate	0.551	> 0.5					
	7. Life Expectancy	0.613	> 0.5					
	8. Number of Places of Worship	0.721	> 0.5					
	9. Population Growth Rate 10. Human Development	0.894	> 0.5					
	Index (HDI)	0.634	> 0.5					
	11. Percentage of Population Living in Poverty	0.610	> 0.5					
	12. Gender Development Index (GDI)							
	13. Percentage of							
	Population with ICT							
	Skills							

Table 2 shows that the KMO value (0.755) exceeds the threshold (>0.6), and Bartlett's Test yields a significance value of 0.00 (p < 0.05), confirming sufficient correlations among variables. All MSA values are above 0.5, indicating adequate sample adequacy. Thus, the data are suitable for EFA to examine the alignment of regional economic development indicators with the dimensions of magasid al-shariah.

In the second stage, Communalities analysis was conducted to assess the extent to which the 13 regional economic development indicators represent data variability, using an extraction threshold of > 0.5.

Table 3. Factor Variability Testing (Communalities)

No	Indicators of Regional	Analysis	Cut off Value	Conclusion
	Economic Development in	Result		
	Indonesia	(Extraction)		
1	Gross Regional Domestic	0.679	≥ 0.5	All 13 regional economic
	Product (GRDP)			development indicators in
2	Percentage of Households	0.739	≥ 0.5	Indonesia have extraction
	with Access to Electricity			values ≥ 0.5 ; confirming
3	Number of Clean Water	0.750	≥ 0.5	their adequacy for EFA
	Service Subscribers			and suitability for mapping
4	Household Gas Usage	0.672	≥ 0.5	development dimensions
5	Investment	0.791	≥ 0.5	within the maqasid al-
6	Open Unemployment Rate	0.559	≥ 0.5	shariah approach.
7	Life Expectancy	0.713	≥ 0.5	
8	Number of Places of	0.640	≥ 0.5	
	Worship			
9	Population Growth Rate	0.932	≥ 0.5	
10	Human Development Index (HDI)	0.750	≥ 0.5	
11	Percentage of Population	0.692	≥ 0.5	
	Living in Poverty			
12	Gender Development Index	0.515	≥ 0.5	
	(GDI)			
13	Percentage of Population	0.682	≥ 0.5	
	with ICT Skills			

Source: SPSS Output, 2025

Table 3 shows that all regional economic development indicators have Extraction (Communalities) values ≥ 0.5 , indicating their adequacy in representing the factor structure. The highest value is found in the Population Growth Rate (0.932), suggesting that its variance is almost entirely explained by the extracted factors.

Other indicators that also show high Extraction values include Investment (0.791), Number of Clean Water Service Subscribers (0.750), and the Human Development Index (HDI) (0.750), indicating a strong contribution to factor formation. Meanwhile, the lowest Extraction values are found in the Gender Development Index (GDI) (0.515) and the Open Unemployment Rate (0.559), although they still fall within the acceptable range. This suggests that most of the variance in these indicators can still be explained by the factors within the model, even though their contributions are not as strong as those of the other indicators. These results confirm that all 13 indicators are suitable for further analysis using EFA, as they meet the Communalities criteria adequately.

The third stage involves determining the number of factors formed from the indicators that passed the eligibility tests. This determination is conducted using two approaches: Total Initial Eigenvalues (TIE), with the criterion of values > 1, and the Scree Plot, which observes the point of sharp decline. Both methods are employed to ensure the most representative factor structure for the data.

Table 4. Determination of the Number of Factors (Components)

Component	Initial Eigenvalues	Cut off Value	Conclusion
	Total		
1	4.376	>1	Eigenvalue analysis identified five
2	1.597	>1	components with values > 1, indicating
3	1.087	>1	they explain substantial variance and
4	1.035	>1	justify reducing the indicators to five
5	1.020	>1	main factors.
6	0.925	>1	
7	0.789	>1	
8	0.636	>1	
9	0.523	>1	
10	0.334	>1	
11	0.291	>1	
12	0.252	>1	
13	0.136	>1	

Source: SPSS output, 2025

Table 4 presents the results of the KMO test, which yielded a value of 0.671 (> 0.6), and Bartlett's Test, which showed a significance level of 0.00 (< 0.05). These results indicate that the data are suitable for factor analysis. The MSA results show that most indicators have values above 0.5; with the exception of five indicators: GRDP growth rate, road access, Gini ratio, labour force participation, and school enrolment rate. Consequently, these five indicators were eliminated, and the preliminary tests were repeated to obtain a more valid factor structure.

Table 5. Preliminary Tests of Exploratory Factor Analysis (After the Elimination of 5 Indicators)

N	Testing Method	Analysis	Cut off	Conclusion
o		Result	Value	
1.	Kaiser-Meyer-Olkin (KMO)	0.755	≥ 0.6	Kaiser-Meyer-Olkin (KMO): The KMO value of 0.755 exceeds the 0.6 threshold, indicating adequate sampling and data suitability for factor analysis in identifying the dimensions of maqasid alshariah.
2.	Bartlett's Test of Sphericity (Sig)	0.00	< alpha 0.05	Bartlett's Test of Sphericity (Sig): The significance value of 0.00 (p

				< 0.05) confirms that
				correlations among
				indicators are statistically
				significant, supporting the
				feasibility of further factor
				analysis.
3.	Measures of Sampling			The MSA values for all
	Adequacy (MSA)			indicators exceed 0.5,
	14. Gross Regional	0.759	> 0.5	indicating adequate sample
	Domestic Product			adequacy and inter-variable
	(GRDP)	0.838	> 0.5	correlations. Thus, the data
	15. Percentage of			are deemed suitable for
	Households with Access	0.607	> 0.5	factor analysis within the
	to Electricity			maqasid al-shariah
	16. Number of Clean Water	0.854	> 0.5	approach.
	Service Subscribers	0.673	> 0.5	
	17. Household Gas Usage	0.794	> 0.5	
	18. Investment	0.787	> 0.5	
	19. Open Unemployment	0.551	> 0.5	
	Rate			
	20. Life Expectancy	0.613	> 0.5	
	21. Number of Places of	0.721	> 0.5	
	Worship			
	22. Population Growth Rate	0.894	> 0.5	
	23. Human Development			
	Index (HDI)	0.634	> 0.5	
	24. Percentage of			
	Population Living in	0.610	> 0.5	
	Poverty			
	25. Gender Development			
	Index (GDI)			
	26. Percentage of			
	Population with ICT			
	Skills			
~	0.000 O 0.005			

Table 5 shows that the KMO value (0.755) exceeds the threshold (> 0.6), and Bartlett's Test yields a significance value of 0.00 (p < 0.05), confirming sufficient correlations among variables. All MSA values are above 0.5, indicating adequate sample adequacy. Thus, the data are suitable for EFA to examine the alignment of regional economic development indicators with the dimensions of magasid al-shariah.

In the second stage, Communalities analysis was conducted to assess the extent to which the 13 regional economic development indicators represent data variability, using an extraction threshold of ≥ 0.5 .

Table 6. Factor Variability Testing (Communalities)

No Indicators of Regional Economic Development in Indonesia	Analysis Result (Extraction)	Cut off Value	Conclusion	
1 Gross Regional Domestic Product (GRDP)	0.679	≥ 0.5	All 13 regional economic development indicators in	

2	Percentage of Households with Access to Electricity	0.739	≥ 0.5	Indonesia have extraction values ≥ 0.5 ; confirming
3	Number of Clean Water Service Subscribers	0.750	≥ 0.5	their adequacy for EFA and suitability for mapping
4	Household Gas Usage	0.672	≥ 0.5	development dimensions
5	Investment	0.791	≥ 0.5	within the maqasid al-
6	Open Unemployment Rate	0.559	≥ 0.5	shariah approach.
7	Life Expectancy	0.713	≥ 0.5	
8	Number of Places of	0.640	≥ 0.5	
	Worship			
9	Population Growth Rate	0.932	≥ 0.5	
10	Human Development Index	0.750	≥ 0.5	
	(HDI)			
11	Percentage of Population	0.692	≥ 0.5	
	Living in Poverty			
12	Gender Development Index	0.515	≥ 0.5	
	(GDI)			
13	Percentage of Population	0.682	≥ 0.5	
	with ICT Skills			

Table 6 shows that all regional economic development indicators have Extraction (Communalities) values ≥ 0.5 , indicating their adequacy in representing the factor structure. The highest value is found in the Population Growth Rate (0.932), suggesting that its variance is almost entirely explained by the extracted factors.

Other indicators that also show high Extraction values include Investment (0.791), Number of Clean Water Service Subscribers (0.750), and the Human Development Index (HDI) (0.750), indicating a strong contribution to factor formation. Meanwhile, the lowest Extraction values are found in the Gender Development Index (GDI) (0.515) and the Open Unemployment Rate (0.559), although they still fall within the acceptable range. This suggests that most of the variance in these indicators can still be explained by the factors within the model, even though their contributions are not as strong as those of the other indicators. These results confirm that all 13 indicators are suitable for further analysis using EFA, as they meet the Communalities criteria adequately.

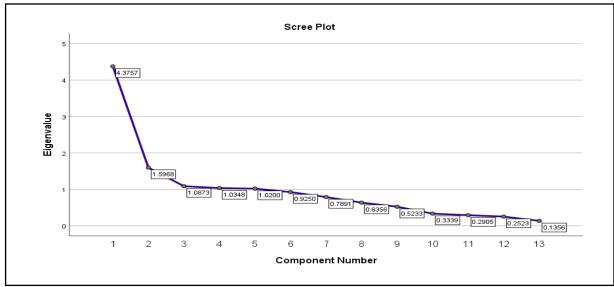
The third stage involves determining the number of factors formed from the indicators that passed the eligibility tests. This determination is conducted using two approaches: Total Initial Eigenvalues (TIE), with the criterion of values > 1, and the Scree Plot, which observes the point of sharp decline. Both methods are employed to ensure the most representative factor structure for the data.

Table 7. Determination of the Number of Factors (Components)

Component	Initial Eigenvalues	Cut off Value	Conclusion
	Total		
1	4.376	>1	Eigenvalue analysis identified five
2	1.597	>1	components with values > 1, indicating
3	1.087	>1	they explain substantial variance and
4	1.035	>1	justify reducing the indicators to five
5	1.020	>1	main factors.
6	0.925	>1	

7	0.789	>1
8	0.636	>1
9	0.523	>1
10	0.334	>1
11	0.291	>1
12	0.252	>1
13	0.136	>1

Figure 2. Scree Plot



Source: SPSS Output, 2025

Table 7 and Figure 2 present the results of the Eigenvalue analysis used to determine the appropriate number of factors to retain. Based on the Kaiser criterion (Eigenvalue > 1), five principal components were identified with Eigenvalues exceeding 1, namely: 4.376; 1.597; 1.087; 1.035; and 1.020. These five components are considered significant and appropriate for factor formation, as they account for a substantial proportion of the variance.

Figure 2 (Scree Plot) shows a clear elbow after the fifth component, where the Eigenvalue drops sharply and levels off. This indicates that five main factors represent the optimal number for capturing the data structure in the EFA. These five factors are detailed in Table 8.

Table 8. Component Grouping Results (Component Matrix)
Using the Principal Component Method

No	Indicators of	Compone	Componen	Compone	Compone	Compone	Component
	Regional Economic	nt	t	nt	nt	nt	Grouping
	Development in	(Loading)	(Loading)	(Loading)	(Loading)	(Loading)	(Loading)
	Indonesia	1	2	3	4	5	Cut-off Value
							≥ 0.5
1.	Gross Regional Domestic Product (GRDP)	0.176	0.287	-0.641	-0.013	0.000	No factor grouping
2.	Percentage of Households with	0.764	-0.367	0.011	0.128	0.055	Factor 1

3. Access to	0.553	0.618	0.165	0.161	-0.096	Factors 1 and 2
Electricity						
4. Number of Clean	0.766	-0.230	0.013	0.129	-0.125	Factor 1
Water Service						
Subscribers						
5. Household Gas	0.630	0.609	-0.001	0.098	-0.118	Factors 1 and 2
Usage						
6. Investment	0.435	0.360	-0.397	-0.141	0.251	No factor
T . 0	0.002	0.000	0.100	0.115	0.204	grouping
7. Open	0.803	0.009	0.109	-0.117	-0.204	Factor 1
Unemployment						
Rate	0.026	0.491	0.582	0.072	0.232	Factor 3
8. Life Expectancy Number of Places	0.020	0.491	0.562	0.072	0.232	ractor 3
of Worship						
9. Population Growth	-0.113	-0.120	-0.042	0.916	0.253	Factor 4
Rate	0.113	0.120	0.042	0.710	0.233	1 deto1 +
10. Human	0.842	-0.168	0.014	-0.111	-0.024	Factor 1
Development Index	****		****	**		
(HDI)						
11. Percentage of	-0.770	0.294	0.109	-0.038	0.007	No factor
Population Living						grouping
in Poverty						
12. Gender	0.564	-0.235	0.219	-0.014	0.305	Factor 1
Development Index						
(GDI)						
13 Percentage of	0.061	-0.136	0.279	-0.272	0.713	No factor
Population with						grouping
ICT Skills						
Source: SPSS Output 202	25					

Table 8 shows that GRDP has the highest loading value of 0.393 on Factor 5; however, it does not reach the cut-off value of 0.5 and thus cannot be statistically grouped. The percentage of households with access to electricity (0.764), household gas usage (0.766), life expectancy (0.803), and HDI (0.842) are classified under Factor 1, as they all have loading values above 0.5. The Gender Development Index (GDI) (0.564) is also grouped under Factor 1. The number of clean water service subscribers has a loading of 0.553 on Factor 1 and 0.618 on Factor 2, while investment shows loadings of 0.630 on Factor 1 and 0.609 on Factor 2, indicating crossloading. The open unemployment rate has a loading value of 0.435 and does not meet the cut-off criterion. The number of places of worship (0.582) loads on Factor 3, while population growth rate (0.916) loads on Factor 4, and ICT skills (0.713) on Factor 5. The percentage of the population living in poverty shows a negative loading (-0.770) on Factor 1 and is therefore not included in any grouping.

Overall, the analysis indicates that most regional economic development indicators in Indonesia can be grouped into five main factors based on loading values of ≥ 0.5 . Factor 1 includes indicators of infrastructure and basic welfare, such as electricity, gas, HDI, life expectancy, and GDI. Some indicators, such as investment and clean water service subscribers, demonstrate cross-loading, indicating the presence of multiple dimensions within the data structure. Three other indicators, GRDP, open unemployment, and percentage of the population

living in poverty, do not meet the cut-off value and thus cannot be statistically grouped. Therefore, Promax rotation is required to simplify the factor structure and enhance interpretability (Hair et al; 2019).

Table 9. The First Rotated Matrix (Pattern Matrix) Using the Promax Method

No	Indicators of	Compone	Compone	Compone	Compone	Compone	Component
	Regional Economic	nt	nt	nt	nt	nt	Grouping
	Development in	(Loading)	(Loading)	(Loading)	(Loading)	(Loading)	(Loading)
	Indonesia	1	2	3	4	5	Cut-off Value ≥
							0.5
1.	Gross Regional Domestic Product	-0.133	-0.048	0.877	0.095	0.096	Factor 3
	(GRDP) Percentage of Households with	0.910	-0.097	-0.032	0.149	0.075	Factor 1
3.	Access to Electricity Number of Clean Water Service	0.081	0.812	0.061	0.057	-0.122	Factor 2
4.	Subscribers Household Gas Usage	0.829	0.032	-0.087	0.089	-0.100	Factor 1
5.	Investment	0.133	0.721	0.201	-0.007	-0.179	Factor 2
	Open Unemployment Rate	0.052	0.174	0.658	-0.096	0.100	Factor 3
7.	Life Expectancy	0.682	0.236	-0.102	-0.203	-0.080	Factor 1
	Number of Places of Worship	-0.273	0.748	-0.201	0.068	0.349	Factor 2
	Population Growth Rate	0.072	0.085	0.029	0.993	-0.069	Factor 4
	Human Development Index (HDI)	0.817	0.037	0.021	-0.129	0.063	Factor 1
11.	Percentage of Population Living in Poverty	-0.847	0.114	-0.069	-0.041	0.003	No factor grouping
	Gender Development Index (GDI)	0.634	0.030	-0.033	0.064	0.400	Factor 1
	Percentage of Population with ICT Skills	0.088	-0.061	0.147	-0.073	0.841	Factor 5

Source: SPSS Output, 2025

Table 9 presents the results of the Promax rotation, which yielded five main factors based on loading values ≥ 0.5 . Factor 1 includes: the percentage of households with access to electricity (0.910), household gas usage (0.829), life expectancy (0.682), Human Development Index (HDI) (0.817), and Gender Development Index (GDI) (0.634). Factor 2 comprises: number of clean water service subscribers (0.812), investment (0.721), and number of places of worship (0.748). Factor 3 consists of: Gross Regional Domestic Product (GRDP) (0.877) and open unemployment rate (0.658). Factor 4 contains population growth rate (0.993), while Factor 5 includes the percentage of the population with ICT skills (0.841).

Meanwhile, the indicator for the percentage of the population living in poverty does not meet the cut-off loading value of ≥ 0.5 and was therefore excluded from the analysis. As such, it was necessary to re-conduct the EFA using Promax rotation to ensure a more stable and interpretable factor structure (Howard, 2023).

Table 10. Second Rotation Results (Pattern Matrix) Using the Promax Method

No	Indicators of Regional	Compone	Compone	Compone	Compone	Compone	e Componen
	Economic Development	nt	nt	nt	nt	nt	t Grouping
	in Indonesia	(Loading)	(Loading)	(Loading)	(Loading)	(Loading) (Loading)
		1	2	3	4	5	Cut-off
							Value ≥
							0.5
1.	Gross Regional Domestic	-0.154	-0.070	0.889	0.096	0.101	Factor 3
	Product (GRDP)						
2.	Percentage of households	0.912	-0.119	-0.022	0.156	0.073	Factor 1
	with access to electricity						
3.	Number of clean water	0.117	0.777	0.069	0.059	-0.131	Factor 2
	service subscribers						
4.	Household gas usage	0.824	0.012	-0.081	0.091	-0.100	Factor 1
5.	Investment	0.151	0.684	0.210	-0.006	-0.186	Factor 2
6.	Open unemployment rate	0.037	0.157	0.670	-0.096	0.103	Factor 3
	Life expectancy	0.711	0.198	-0.091	-0.196	-0.085	Factor 1
8.	Number of places of	-0.265	0.800	-0.214	0.053	0.353	Factor 2
	worship						
9.	Population growth rate	0.061	0.080	0.028	0.994	-0.076	Factor 4
	Human Development	0.845	-0.006	0.038	-0.116	0.057	Factor 1
	Index (HDI)						
11.	Gender Development	0.692	-0.003	-0.014	0.081	0.391	Factor 1
	Index (GDI)						
12.	Percentage of population	0.115	-0.022	0.147	-0.075	0.850	Factor 5
	with ICT skills						

Source: SPSS Output, 2025

Table 10 presents the results of the second Promax rotation, identifying 12 regional economic development indicators in Indonesia, which can be grouped into five principal factors with loadings ≥ 0.5. Factor 1 includes 1) percentage of household with access electricity, 2) household gas usage, 3) life expectancy, 4) Human Development Index (HDI), and 5) Gender Development Index (GDI). These factor represents the dimension of protection of soul (nafs), relating to the fulfilment of basic needs and public health. These findings are consistent with previous studies emphasising the relationship between basic infrastructure and quality of life (Pincus, 2024; Ma and Li, 2025). These indicators highlight the importance of ensuring a decent standard of living. Achieving this dimension requires enhancing equitable access to basic infrastructure, healthcare services, education, and social protection across all provinces in Indonesia (Fuad, 2024; Ahmad and Hanafi, 2025).

Factor 2 comprises three indicators: (1) number of clean water service subscribers, (2) investment, and (3) number of places of worship, representing the dimension of protection of religion (din). Places of worship facilitate religious rituals (Lussier, 2024), clean water is essential for purification (Dewi and Hanifah, 2024), and investment in social infrastructure

reflects the state's support for spiritual life (Clark, 2020). These findings are consistent with prior studies emphasising equitable development of worship facilities (Burchardt, 2023), and access to clean water for both health and religious practice (Suar et.al., 2025)

Factor 3 consists of two key indicators: (1) Gross Regional Domestic Product (GRDP) and (2) the open unemployment rate. This factor represents the dimension of protection of property (mal), which emphasises the importance of safeguarding ownership, management, and fair distribution of wealth. GRDP reflects the economic capacity of a region, while the unemployment rate indicates the population's access to employment opportunities. These two indicators are directly related to the creation and equitable distribution of economic access (Ihwandi, 2023). These findings are consistent with previous studies showing that regional economic growth and unemployment levels significantly influence equitable welfare and economic access for communities (Zailani et al., 2022). Efforts to achieve this dimension may include strengthening the real sector, creating productive employment, supporting micro and small enterprises, and implementing economic empowerment programmes for the community. Such initiatives promote inclusive and equitable economic growth while ensuring material well-being across all provinces in Indonesia.

Factor 4 is defined by a single indicator (population growth rate), representing the dimension of offspring protection (nasl). This dimension highlights the critical role of sustainable population management in ensuring the welfare of future generations (Brida et al., 2024). These findings are consistent with previous research indicating that population management through family planning programmes and access to maternal and child healthcare services has a significant impact on long-term community welfare (Memon et al., 2024). Efforts to achieve this dimension may include the implementation of family planning programmes, improved access to maternal and child healthcare services, and the provision of quality and sustainable family education.

Factor 5 is defined by a single indicator (percentage of population with ICT skills), representing the dimension of intellect protection (aql). This dimension emphasises the critical role of enhancing society's intellectual capacity to navigate the digital era. Prior studies have shown that ICT proficiency is strongly associated with improved problem-solving, rational decision-making, and ethical reasoning, supporting the relevance of this indicator for aql protection (Nguyen et al., 2024). These findings are consistent with previous research confirming the role of digital skills in strengthening intellectual capacity and promoting the development of competitive human resources (Blaique et al., 2024; Herawati, and Mukhsin, 2025).

Beyond the retained factors, six indicators were eliminated during the EFA process: GRDP growth rate, road access, gini ratio, labour force participation, school enrolment rate, and the percentage of the population living in poverty. Their exclusion affects the comprehensiveness of the maqasid al-shariah dimensions: GRDP growth rate, road access, gini ratio, labour force participation, school enrolment rate, and the percentage of the population living in poverty. This elimination affects the comprehensiveness of the maqasid al-shariah dimensions.

GRDP growth rate, Gini ratio, and labour force participation relate to the protection of property (mal), reflecting economic capacity, property distribution, and access to productive employment. Their exclusion reduces the ability to fully capture economic welfare and equitable access (Shen et al., 2024; Zhang et al., 2025).). Road access, labour force

participation, and the percentage of the population living in poverty are linked to the protection of soul (nafs), while the elimination of indicators such as household sanitation and preventive healthcare access further limits holistic representation of this dimension (Meka'a et al., 2024; Mohetaer et al., 2025).

Labour force participation and school enrolment contribute to the protection of intellect (aql), reflecting educational access. The exclusion of computational thinking, digital collaboration, and critical reasoning indicators limits the full representation of aql, suggesting policies should enhance ICT and broader cognitive skills (Prasastiningtyas et al., 2024) Indicators related to protection of faith (din) and offspring (nasl) were also eliminated, affecting the comprehensiveness of spiritual and demographic dimensions (Jalili et al., 2025; (Karim et al., 2025).

While EFA simplifies the factor structure, key aspects of the maqasid, such as economic welfare, infrastructure, education, and intellectual capacity, remain underrepresented. These limitations should be taken into account when interpreting the results, and further research could incorporate additional indicators or complementary methods to ensure the integrity of the maqasid al-shariah dimensions. Despite these constraints, each factor still provides meaningful insights and can be interpreted in ways that broaden its initial meaning.

Factor 1 (nafs) not only reflects the fulfilment of basic needs but also indicates the effectiveness of public infrastructure and healthcare services, given that several indicators were eliminated. Factor 2 (din), in addition to safeguarding spiritual life, may reflect the quality of the social ecosystem that supports education, health, and social values. Factor 3 (mal) highlights regional economic opportunities, as indicators such as GRDP growth, Gini ratio, and labour force participation were eliminated. Factor 4 (nasl) also reflects regional demographic transitions and emphasises the importance of improving the quality of life of future generations. Finally, Factor 5 (aql) signals societal adaptability to technological and economic changes, suggesting the need for comprehensive enhancement of cognitive and analytical competencies.

E. CONCLUSION

This study empirically examines the integration of maqasid al-shariah principles into regional economic development analysis in Indonesia, identifying 12 of 18 indicators grouped into five principal factors via Exploratory Factor Analysis (EFA) with Promax rotation. These factors align with the five core dimensions of maqasid al-shariah. Factor 1 represents the protection of soul (nafs), including electricity access, household gas usage, life expectancy, Human Development Index (HDI), and Gender Development Index (GDI). Factor 2 reflects the protection of faith (din), comprising clean water customers, investment, and places of worship. Factor 3 pertains to the protection of property (mal), namely Gross Regional Domestic Product (GRDP) and open unemployment rate. Factor 4, population growth rate, indicates the protection of offspring (nasl), while Factor 5, community ICT skills, represents the protection of intellect (aql). All indicators demonstrated factor loadings ≥ 0.50, confirming the validity and robustness of the factor structure.

This study contributes to the theoretical development of maqasid al-shariah by providing an empirically grounded framework linking regional economic indicators to the five dimensions. It demonstrates how factor analysis can operationalise maqasid al-shariah concepts in a measurable way, supporting the integration of Islamic ethical principles into economic development planning.

Future research should incorporate additional indicators to capture underrepresented dimensions, consider longitudinal data to analyse trends and causal links, and extend the study to other countries to test the applicability of the empirical maqasid al-shariah framework in diverse socio-economic settings. Researchers may also explore complementary methodologies, such as Structural Equation Modelling (SEM), to examine interactions among the five dimensions and their impact on regional development outcomes.

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