

Working Paper (WP/25-07)

Lao PDR's Competitiveness in the Global Goods Export Market

Naoaki Inayoshi

May 2025

Disclaimer: The findings, interpretations, and conclusions expressed in this material represent the views of the author(s) and are not necessarily those of the ASEAN+3 Macroeconomic Research Office (AMRO) or its member authorities. Neither AMRO nor its member authorities shall be held responsible for any consequence from the use of the information contained therein. [This page is intentionally left blank]

Lao PDR's Competitiveness in the Global Goods Export Market

Prepared by Naoaki Inayoshi^{1,2}

Reviewed by Sumio Ishikawa (Lead Economist)

Approved by Hoe Ee Khor (Chief Economist)

May 2025

Abstract

Despite geographical disadvantages, Lao PDR demonstrated remarkable growth in goods exports from 2010 to 2021. However, to survive and thrive in the rapidly changing, complex global goods export landscape, a well-thought-out export promotion strategy would be critical, based on a clear understanding of the economy's current market position. This paper reviews the export performance of Lao PDR from 2010 to 2021 and identifies its comparative advantages in the global goods export market at the detailed Standard International Trade Classification four-digit product level. The paper assesses the competitiveness of each type of goods that Lao PDR exports, using the Revealed Symmetric Comparative Advantage methodology. The study reveals that Lao PDR has increasingly exported competitive goods, primarily in lower-value-added groups such as food and live animals, beverages and tobacco, crude materials, and minerals and fuels. Yet, a closer analysis reveals that the economy's export competitiveness remains fragile, even for lower-value-added products. The paper offers preliminary policy insights and aims to spark further strategic discussions on how Lao PDR can sustain and enhance its export growth trajectory.

JEL classification: F11, F13, F14, O24

Keywords:

...,...,...,...

s: Competitiveness; Comparative advantage; International trade; Trade policy; Export promotion; Lao PDR

¹ Author's e-mail: <u>Naoaki.Inayoshi@amro-asia.org</u>

² The views expressed in this paper are the author's and do not necessarily represent those of AMRO or AMRO management. The author would like to thank Hoe Ee Khor (Chief Economist), Sumio Ishikawa (Group Head and Lead Economist, Country Surveillance), Paolo Hernando, Thi Kim Cuc, Akifumi Fujii, and Somphone Changdabout for their useful comments. All mistakes are the responsibility of the author.

Abbreviations

AMRO	ASEAN+3 Macroeconomic Research Office
ASEAN	Association of Southeast Asian Nations
ASEAN+3	ASEAN Plus China (including Hong Kong), Japan, Korea
BEC	Broad Economic Categories
CAGR	Compounded Annual Growth Rate
GVC	Global Value Chain
HS	Harmonized System
OECD	Organisation for Economic Co-operation and Development
RCA	Revealed Comparative Advantage
RSCA	Revealed Symmetric Comparative Advantage
SITC	Standard International Trade Classification
UN	United Nations

Contents

I.Introduction1II.Lao PDR's Export Performance from 2010 to 20213III.Measuring Competitiveness6IV.Lao PDR's Export Competitiveness from 2010 to 20218V.Conclusion11
Appendix 1. Product Groups and the Corresponding SITC Four-digit Codes14Appendix 2. Lao PDR's Top 10 Exported Goods15Appendix 3. Lao PDR's Top 10 Exported Goods by Region in 202117Appendix 4. Lao PDR's Top 10 Export Destinations18Appendix 5. Lao PDR's Top 10 Competitive Goods20Appendix 6. Lao PDR's Top 10 Competitive Goods by Product Group in 202122Appendix 7. Lao PDR's Top 10 Export Destinations of Competitive Goods25Appendix 8. Lao PDR's Competitive and High Export Value Goods in 202126
References
Figures
Figure 1. Export Value by Product Group.2Figure 2. ASEAN: Goods Export Growth.2Figure 3. ASEAN: Goods Export Value, 20212Figure 4. Types of Exported Goods.3Figure 5. Product Coverage by Group.4Figure 6. Economic Complexity.4Figure 7. Export Growth by Product Group .4Figure 8. Share of Top Five Exported Goods.5Figure 9. Trading Partners by Region5Figure 10. Share of Exported Goods by Region5Figure 11. Share of Top Three Export Destinations6Figure 12. Changes in Export Value by Trading Partner, 2010-2021.6Figure 13. ASEAN: Competitiveness by Product Group9Figure 14. Competitive Goods.9Figure 15. ASEAN: Share of Competitive Goods in Total Types of Exported Goods.9Figure 16. Distribution of Exported Goods' Competitiveness by Product Group10Figure 18. Share of Competitive Goods in Total Types of Exported Goods by Trading11Figure 19. Exported Goods' Competitiveness by Product Group10Figure 19. Exported Goods' Competitiveness and Export Value by Product Group, 2021.12

Tables

Table 1	. Top 1	0 Competitive G	Goods, 2	2021	8
---------	---------	-----------------	----------	------	---

"No nation was ever ruined by trade, even seemingly the most disadvantageous." Benjamin Franklin United States Founding Father, 1774

I. Introduction

1. Participation in international trade benefits economies in multiple ways. Economic theory underscores the role of international trade as a powerful catalyst for economic growth and better living standards. By engaging in global markets, economies can generate foreign currencies, acquire new technologies, and access a broader range of goods and services unavailable domestically. This dynamic interaction not only creates new economic opportunities but also sets in motion a virtuous cycle of prosperity and development.

2. Comparative advantage is one of the most critical concepts in explaining the trade patterns of an economy. First introduced by Ricardo (1817), this concept has been fundamental to international trade theory for more than two centuries, such as the Hecksher-Ohlin model (1919, 1933), which examined how factor endowments like land, capital, and labor affected trade patterns. The concept of comparative advantage continues to be a pillar of subsequent trade theories, including the flying geese model by Akamatsu (1961, 1962) and the Krugman model (1980).³

3. Despite geographical disadvantage, Lao PDR saw its goods exports proliferate in the 12 years to end-2021. As the only landlocked economy in Southeast Asia, Lao PDR lacks direct access to maritime trade, which carries 90 percent of the global goods trade, making the economy geographically disadvantaged in expanding its trade partners compared to other economies in the region.⁴ Yet, Lao PDR has demonstrated rapid export growth over the years. By 2021, the economy was exporting USD7.2 billion of goods globally, more than triple the 2010 exports of USD1.9 billion (Figure 1).⁵ Lao PDR's export growth over the 12 years has been rapid, even when compared with its neighboring emerging economies. The compounded annual growth rate (CAGR) of Laotian exports from 2010 to 2021 reached 12.8 percent, the second fastest among the 10 ASEAN economies (Figure 2).

4. The Laotian government aims to accelerate its export growth momentum with structural reforms. Under the 9th Five-year National Socio-economic Development Plan from 2021 to 2025, the government prioritizes regional and international integration as a key strategy for sustainable development. Lao PDR became a member of the World Trade Organization in 2013 and now has preferential trade agreements with 22 economies and nine regional trade bodies. The government is actively working on implementing these agreements effectively, focusing on improving regulatory frameworks, such as streamlining licensing processes and upgrading infrastructure. The development of the Laos-China Railway, dry

³ Widodo (2009) provides a comprehensive review of the development of the comparative advantage concept in international trade theories.

⁴ Maritime transport accounts for about 11 billion tonnes of cargo per year and is the main transport mode of the global goods trade (World Bank 2021; OECD 2022).

⁵ The UN Comtrade Database is the primary data source of this paper. As such, the export values applied herewith could differ from those of the Laotian authorities. However, the UN Comtrade Database is used for its comprehensive coverage of trade data by product and trading partner, allowing the paper to compute Lao PDR's competitiveness in the global goods export market.

ports, and logistics parks exemplifies the government's firm commitment to transforming its transport landscape and enhancing trade activities.⁶

Figure 1. Export Value by Product Group (USD billion)

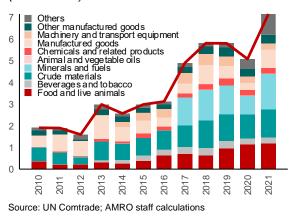
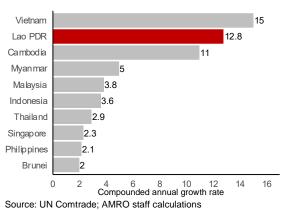


Figure 2. ASEAN: Goods Export Growth (Percent)



Note: Figures show the compounded annual growth rate from 2010 to 2021.

5. However, Lao PDR's presence in the global goods export market is still minimal, implying the need for a well-thought-out strategy to strengthen its export growth momentum. Despite impressive growth, Lao PDR remains the smallest exporter among the 10 ASEAN economies, contributing a mere 0.03 percent to global goods trade in 2021 (Figure 3). In the increasingly competitive global marketplace amid growing global uncertainties, such as tariff escalations across major economies, developing a sophisticated and adaptive export promotion strategy is crucial for Lao PDR to maintain its growth trajectory and expand its international economic footprint.

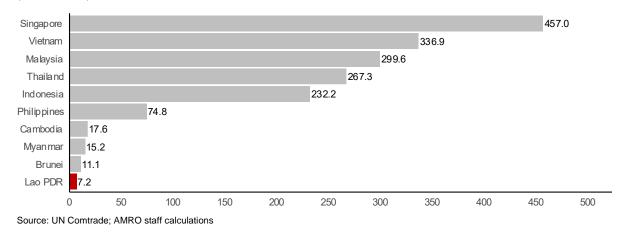


Figure 3. ASEAN: Goods Export Value, 2021 (USD billion)

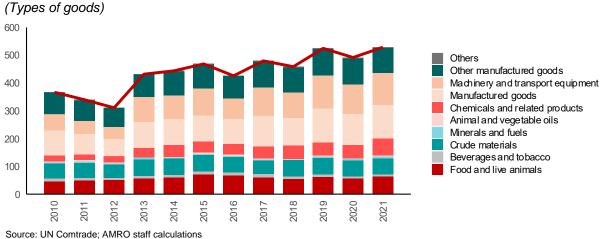
⁶ The 1,035km, USD5.9 billion Laos-China Railway connects the Laotian capital of Vientiane and Kunming in southwest China's Yunnan province. The Laotian section of the railroad runs for about 400km between Vientiane and Boten, a border city in northern Lao PDR. The Chinese section runs about 600km between Kunming and Mohan, a city bordering Lao PDR. Both sections started commercial operations in December 2021. For Lao PDR, this mega-infrastructure project was built in cooperation with China as part of the Belt and Road Initiative. According to China Railway, the railway carried over 50 million passengers by end-March 2025, and the total cargo volume surpassed 50 million tons, with 11.58 million tons of cross-border goods transported, as of January 2025.

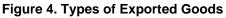
6. This paper aims to clarify Lao PDR's current position in the global goods export market and identify potential areas of focus by revealing the economy's comparative advantages. An understanding of the economy's competitive landscape is crucial to formulating an effective export promotion strategy. This paper analyzes Lao PDR's export competitiveness from 2010 to 2021 using trade data and the detailed Standard International Trade Classification (SITC) four-digit product level. By singling out the strengths, weaknesses, and opportunities in Lao PDR's export portfolio, the research provides a foundational framework for strategic policy discussions and future economic prioritization.

7. This paper consists of four sections. Section 2 reviews Lao PDR's historical export performance from 2010 to 2021. Section 3 explains the methodology used to measure the economy's comparative advantages. Section 4 presents the results and assesses Laotian export competitiveness. Finally, Section 5 concludes with several policy implications.

II. Lao PDR's Export Performance from 2010 to 2021

8. Between 2010 and 2021, the types of exported Laotian goods increased. Export diversity expanded significantly, growing from 367 different types of goods to 529 at the SITC four-digit level (Figure 4). Manufactured goods and machinery and transport equipment dominated the export portfolio, while notable expansion was observed in both chemicals and machinery and transport equipment.⁷ Particularly impressive was the increase in chemical product coverage, rising from 16.7 percent to 47.0 percent overall across the 132 products classified as chemical and related products under the SITC (Figure 5). By comparison, the growth of lower-value-added products, such as food, crude materials, and minerals and fuels, remained modest. The diversification of certain product groups signaled Lao PDR's evolving industrial capabilities, as evident from its improved economic complexity index, though it remained in the low-complex zone (Figure 6).⁸





⁷ See Appendix 1 for the list of product groups and the corresponding SITC four-digit codes.

⁸ The economic complexity index (ECI) measures the level of know-how in an economy to produce a wide variety of goods, including sophisticated products requiring specialized knowledge (Hidalgo and Hausmann 2009). An economy with a positive value is considered to be more complex, while a negative value is less complex. The higher the ECI, the more complex the economy is.

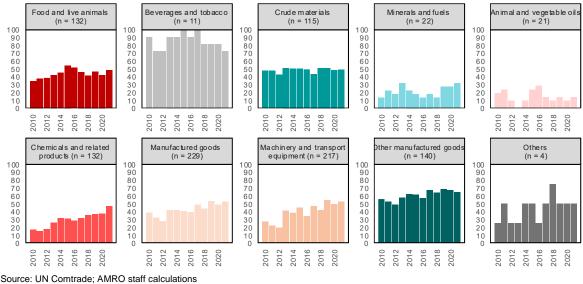
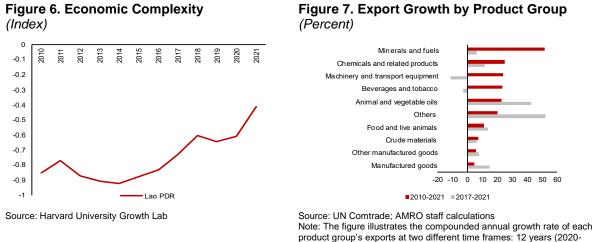


Figure 5. Product Coverage by Group (Percent)

Note: "n" represents the total number of products under each product group according to SITC classification.

9. Yet, Lao PDR's export value is mostly concentrated on only a few lower-valueadded products. Food and live animals, crude materials, and minerals and fuels comprise the bulk of Lao PDR's export value, which aligns with the specialization pattern of economies in the early stage of development, as Akamatsu's (1961, 1962) flying geese model suggests (Figure 1). Among these product groups, food and live animals demonstrated consistent export growth in the 12 years to 2021 (Figure 7). Meanwhile, the export value of minerals and fuels suddenly increased in 2017 due to the large electricity exports starting that year, though such exports have been less dynamic than some of the other product groups in the five years to 2021.9 Furthermore, despite efforts to diversify, the top five exported goods still accounted for 52.1 percent of Lao PDR's total export value in 2021 (Figure 8).¹⁰ While the concentration has slightly decreased over time, Laotian exports remain heavily reliant on a handful of lowvalue-added products.



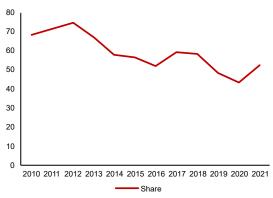
2021) versus five years (2017-2021).

⁹ Although the Laotian authorities had recorded electricity exports before 2017, the data is reflected in the UN Comtrade Database only after 2017. The author acknowledges this discrepancy but continues to use the original UN Comtrade data for the reasons previously described in footnote 5.

¹⁰ See Appendix 2 for a list of Lao PDR's top 10 exported goods from 2010 to 2021.

10. Lao PDR's trade network has expanded in the 12 years since 2010. In 2021, Lao PDR exported goods to 95 economies, increasing from 74 economies in 2010 (Figure 9). While most of the economy's trading partners are in Asia and Europe, Lao PDR has broadened its exports to other regions, such as Africa and the Americas. Food and live animals, crude materials, and minerals and fuels were mainly exported to Asia (Figure 10).¹¹ Other manufactured goods, such as apparel-related products, were mostly exported to Europe and the Americas. Products to Africa, Oceania and the "Others" category vary by year since exports to those regions are still limited.

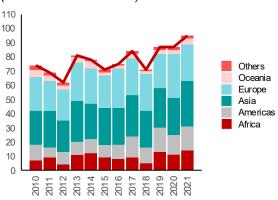




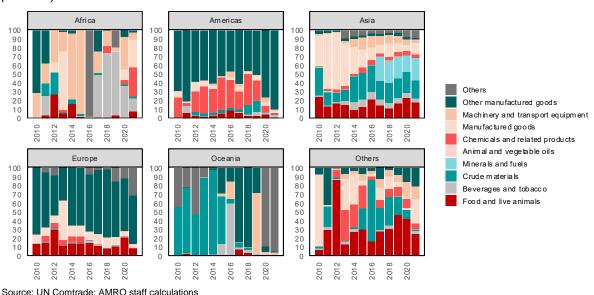
Source: UN Comtrade; AMRO staff calculations Note: The figure illustrates the share of top five exported goods' value in Lao PDR's total goods export value.







Source: UN Comtrade; AMRO staff calculations



Note: The figure illustrates the share of each product group's value in Lao PDR's total export value by region.

11. However, Lao PDR's exports are dependent on a few neighboring economies. Despite expanding the export destinations over the years, most Laotian exports are directed to Thailand, China, and Vietnam. In 2021, the value of Lao PDR's exports to these top three trading partners accounted for nearly 80 percent of total exports (Figure 11).¹² Furthermore,

¹¹ See Appendix 3 for a list of Lao PDR's top 10 exported goods by region in 2021.

¹² See Appendix 4 for a list of Lao PDR's top 10 export destinations from 2010 to 2021.

the three destinations were economies where Lao PDR had strengthened its exports from 2010 to 2021 compared with the other trading partners (Figure 12). Despite an expansion of the trade network, Lao PDR had bolstered its trade relationship with only limited economies.

Figure 11. Share of Top Three Export Destinations

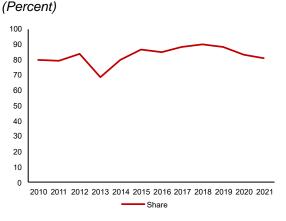
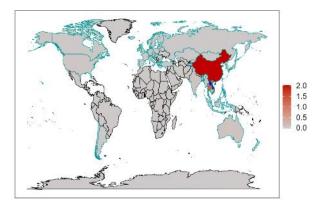


Figure 12. Changes in Export Value by Trading Partner, 2010-2021 (USD billion)



Source: UN Comtrade; AMRO staff calculations Note: The figure illustrates the share of top three export destinations' value in Lao PDR's total goods export value. Source: UN Comtrade; AMRO staff calculations Note: Economies surrounded by green lines have a trade agreement with Lao PDR, which is marked in blue.

12. Lao PDR's participation in global value chains (GVCs) has also been limited. The GVC participation rate measures the extent to which an economy takes part in the multistage value-addition process of specific goods or industries. Since Lao PDR's primary exported goods are lower-value-added products, its participation in global trade in terms of value addition has been weak (ASEAN Promotion Centre on Trade, Investment and Tourism 2021). Although the economy has somewhat diversified its exported goods and trade network, it is still at an early stage of GVC participation.

13. Overall, Lao PDR has room for improvement to unlock its export growth potential. Various factors, such as global demand for a certain product, trade policies across the world, and the business environment of the importing economy, could affect the types of exported goods and the number of their destinations. Without a doubt, Lao PDR has broadened its exported goods and trade network over the 12 years to 2021, suggesting a growing export performance. Yet, the data also revealed structural vulnerabilities, notably its reliance on a few low-value-added products and trading partners.

III. Measuring Competitiveness

14. The revealed comparative advantage (RCA), or Balassa index, is a widely used measurement of competitiveness in global trade. This index is based on the concept that the relative export performance of an economy in a particular product would "reveal" its comparative advantage over other economies, assuming that the trade patterns reflect relative costs and non-price factors such as quality.¹³ RCA is defined as follows:

¹³ Vollrath (1991) compared the theoretical foundations of RCA and other export performance indices and concluded that RCA was the most satisfying measure.

$$RCA_{i,j} = \frac{\left(\frac{X_{i,j}}{X_{i,p}}\right)}{\left(\frac{X_{w,j}}{X_{w,p}}\right)}$$
(1)

where the subscripts *i*, *w*, *j*, and *p* denote economy, world, the specific exported product, and all exported products. As such, the numerator $\binom{X_{i,j}}{X_{i,p}}$ shows the share of economy *i*'s product *j*'s export value in its total goods export value. Similarly, the denominator $\binom{X_{w,j}}{X_{w,p}}$ represents the share of the world's product *j*'s export value in the world's total goods export value. The economy *i* is considered to have a comparative advantage in product *j*'s exports when $RCA_{i,j} > 1$. In contrast, $RCA_{i,j} < 1$ implies the economy *i*'s disadvantage in exporting product *j*.

7

v

15. This paper adopts revealed symmetric comparative advantage (RSCA), which is a simple transformation of RCA, as the primary indicator of competitiveness. One of the criticisms of RCA is in the asymmetric value it produces. RCA would take a value of 1 to infinity $(1 < RCA_{i,j} \le \infty)$ when the economy is competitive, and a value of 0 to 1 in the case of disadvantage ($0 \le RCA_{i,j} < 1$). These asymmetric values complicate the meaningful comparison across products. To overcome this issue, Dalum et. al. (1998) and Laursen (1998) transformed RCA into RSCA:

$$RSCA_{i,j} = \frac{(RCA_{i,j} - 1)}{(RCA_{i,j} + 1)}$$
(2)

In this form, the value could range from -1 to 1 ($-1 \le RSCA_{i,j} \le 1$). When $0 < RSCA_{i,j} \le 1$, the economy *i* is considered to be competitive in product *j*'s exports. On the other hand, the economy *i* is disadvantaged in exporting product *j* when $-1 \le RSCA_{i,j} < 0$. Due to its simplicity, RSCA has been widely applied in recent studies measuring an economy's competitiveness in international trade (Widodo 2009a, 2009b; Shohibul 2013; Torok and Jambor 2016; U.S. International Trade Commission 2021). Furthermore, RSCA was found to be the best measure of comparative advantage relative to other international trade specialization measures (Laursen 2015).

16. This paper makes two contributions in clarifying Lao PDR's competitiveness in the global goods export market. First, the paper references recent trade data from 2010 to 2021 and identifies Lao PDR's current export competitiveness. While past studies on this topic are limited, Hara and Shuto (2005) and Vixathep (2011), for example, used trade data from the 1980s to early 2000s, which do not overlap with this paper's studied period. Second, the paper assesses Lao PDR's competitiveness in a granular manner by using the detailed SITC four-digit product level. The analysis of Hara and Shuto (2005) made use of the two-digit product level of the Harmonized System (HS) code, while Vixathep (2011) employed the SITC three-digit product level.¹⁴ These product levels are less differentiated than the SITC four-digit product level.

¹⁴ Trade data comes under three major commodity classifications: HS, SITC and Broad Economic Categories (BEC) codes. HS codes were developed and administered by the World Customs Organization to streamline global trade and allow customs authorities around the world to assess duties and taxes on products more easily. On the other hand, SITC and BEC codes are managed by the United Nations. STIC groups commodities based on several aspects, including the product's processing stage. BEC is broader than the SITC's grouping and classifies products based on their main end use, such as intermediate or final consumption. The UN Comtrade

IV. Lao PDR's Export Competitiveness from 2010 to 2021

17. Lao PDR has consistently been competitive in exporting lower-value-added goods. In 2021, seven out of the top 10 competitive goods were food and live animals and crude materials (Table 1). ¹⁵ These product groups have consistently maintained competitiveness since 2010, outperforming most other ASEAN economies (Figure 13). However, Lao PDR has been less competitive in higher-value-added goods, such as chemicals and related products, manufactured goods, and machinery and transport equipment. This situation is similar to past studies by Hara and Shuto (2005) and Vixathep (2011), suggesting that Lao PDR's areas of export competitiveness have not changed for more than a decade.

SITC Code	Product Group	Exported Goods	RSCA	Trade Value (USD mn)
2513	Crude materials	Chemical wood pulp, dissolving grades	0.987	269.8
548	Food and live animals	Vegetable products, roots and tubers	0.987	285.0
2311	Crude materials	Natural rubber latex	0.978	65.7
3510	Minerals and fuels	Electric current	0.976	1,633.1
11	Food and live animals	Bovine animals, live	0.976	222.3
6415	Manufactured goods	Paper and paperboard	0.973	525.2
573	Food and live animals	Bananas	0.966	238.3
2923	Crude materials	Vegetable materials primarily for plaiting, such as bamboo	0.964	3.8
5623	Chemicals and related products	Mineral or chemical fertilizers	0.962	138.6
2312	Crude materials	Natural rubber	0.962	214.4

Table 1. Top 10 Competitive Goods, 2021

Source: UN Comtrade; AMRO staff calculations

Note: SITC = Standard International Trade Classification; RSCA = Revealed Symmetric Comparative Advantage. Goods are deemed competitive when the RSCA is closer to 1.

18. Despite an increase in export portfolio, Lao PDR's export competitiveness—at individual product level—remains concentrated in a few key products. The number of competitive Laotian goods ($0 < RSCA_{i,j} \le 1$) increased from 83 types to 98 between 2010 and 2021 (Figure 14). Yet, the proportion of competitive goods in the total types of goods exported from Lao PDR has consistently dropped since 2010 and was at 18.5 percent in 2021—a trend that diverges from other ASEAN economies—as Lao PDR continued to broaden the types of export goods (Figure 15). Furthermore, most of its exported goods remain uncompetitive across product groups (Figure 16). For instance, only 25 were deemed competitive among the 64 types of food and live animal products that Lao PDR exported in 2021. Moreover, Lao PDR's overall competitiveness in the food and live animal product group is primarily supported by only the top three competitive goods—vegetables, live bovine animals and bananas—which constitute 62.7 percent of the product group's total export value.¹⁶

Database reports trade data in all three codes.

¹⁵ See Appendix 5 for a list of Lao PDR's top 10 competitive exports from 2010 to 2021.

¹⁶ See Appendix 6 for a list of the top 10 competitive goods in each product group and their share in the trade value within the corresponding group in 2021.

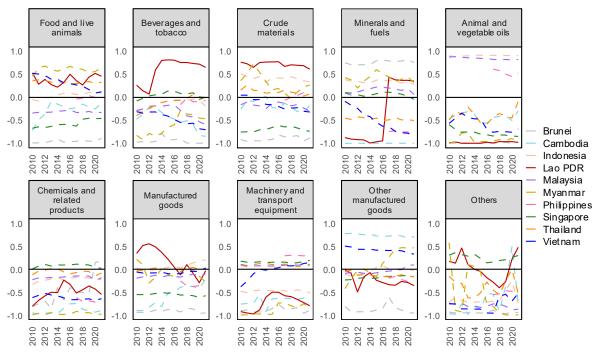
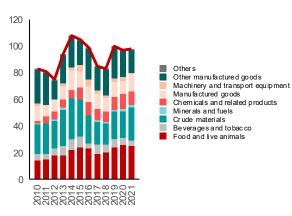


Figure 13. ASEAN: Competitiveness by Product Group (Index)

Source: UN Comtrade; AMRO staff calculations

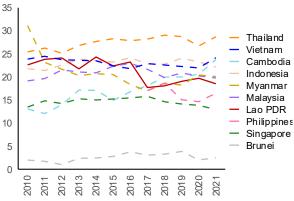
Note: Competitiveness is measured by computing the RSCA. An economy is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0. Data for the Philippines is available only from 2017.





Source: UN Comtrade; AMRO staff calculations Note: Competitiveness is measured by computing the RSCA. A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive if it is negative, between -1 and 0.

Figure 15. ASEAN: Share of Competitive Goods in Total Types of Exported Goods (*Percent*)



Source: UN Comtrade; AMRO staff calculations Note: Competitiveness is measured by computing the RSCA. A product is deemed competitive when the RSCA value is positive, between 0 and 1. Data for the Philippines is available only from 2017.

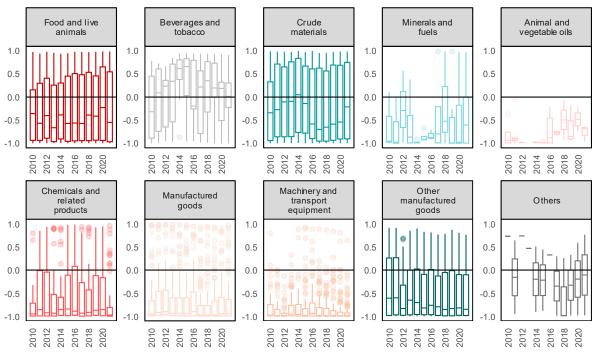


Figure 16. Distribution of Exported Goods' Competitiveness by Product Group (*Index*)

Source: UN Comtrade; AMRO staff calculations Note: Competitiveness is measured by computing the RSCA. A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive if it is negative, between -1 and 0. The boxes and lines illustrate the distribution of each product's RSCA value in the same product group. The length of each box shows the range of the central 50 percent of the RSCA values, with the central horizontal line indicating the median value. Lines extending from the box show the range of remaining RSCA values: the lower end denotes the minimum RSCA value, and the upper end denotes the maximum RSCA value. Dots beyond the lines are outliers.

19. Competitive goods serve as crucial pathfinders into new markets. Thailand, China and Vietnam are the primary destinations of Lao PDR's competitive goods. Notably, the types of competitive Laotian goods exported to China rapidly increased from 35 in 2010 to 62 in 2021, which covered about two-thirds of Lao PDR's total types of competitive goods (Figure 17).¹⁷ However, this growth primarily reflects broader export expansion rather than improved competitiveness, as the proportion of competitive goods to total types of goods exported to China remained stable or even declined in some years (Figure 18). On the other hand, it is important to note that Lao PDR's exported goods to non-major trading partners, such as Brazil and other Latin American economies, consist predominantly of competitive goods, demonstrating that competitiveness is essential for market diversification by penetrating new markets.

¹⁷ See Appendix 7 for a list of Lao PDR's top 10 export destinations of competitive goods from 2010 to 2021.

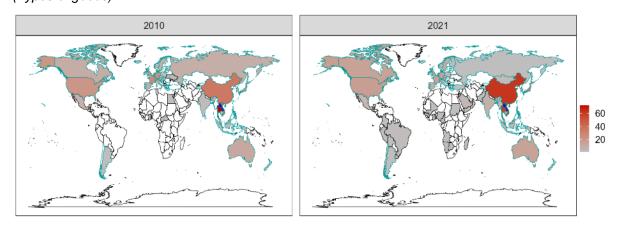
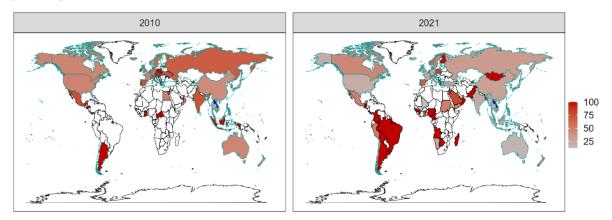


Figure 17. Competitive Goods' Destinations, 2010 vs 2021 (*Types of goods*)

Source: UN Comtrade; AMRO staff calculations

Note: Economies surrounded by green lines have a trade agreement with Lao PDR, which is marked in blue. The red shading indicates the number of types of competitive goods exported.

Figure 18. Share of Competitive Goods in Total Types of Exported Goods by Trading Partner (*Percent*)



Source: UN Comtrade; AMRO staff calculations

Note: Economies surrounded by green lines have a trade agreement with Lao PDR, which is marked in blue. The red shading indicates the percentage share of competitive goods.

V. Conclusion

20. Lao PDR's export growth momentum faces significant risks due to its concentrated and under-diversified trade structure. While Lao PDR successfully expanded both its export portfolio and trading network between 2010 and 2021, its exports continue to be heavily dependent on a narrow range of lower-value-added products and a limited number of trading partners. This high concentration makes the economy particularly vulnerable to external shocks, whether from fluctuations in global demand or changes in trading partners' policies.

21. Laotian export competitiveness is primarily concentrated in lower-value-added products with a structural vulnerability. While Lao PDR demonstrates strong comparative advantages in product groups such as food and live animals, beverages and tobacco, crude materials, and minerals and fuels, it struggles to compete in higher-value-added product groups, like machinery and transport equipment (Appendix 5). Even within its competitive product groups, Lao PDR's strengths are narrowly concentrated in a few specific products, as most individual products within the same product group lack competitiveness (Appendix 6).

22. Moving forward, a strategic export promotion strategy focused on productspecific interventions is imperative for sustaining and enhancing Lao PDR's export growth trajectory. Export competitiveness depends on multiple determinants, including macroeconomic stability, the business and regulatory environment, human capital, and performance relative to other economies. Furthermore, the global goods export landscape can evolve rapidly, as exemplified by the increasing global uncertainties from the US tariff announcement in early April 2025. This complexity and dynamism of the global export marketplace necessitate a systematic approach that aligns with Lao PDR's current market position to arrive at an effective export promotion strategy. The strategy could begin by mapping the exported goods according to two critical dimensions: competitiveness, measured by RSCA, and export value. This creates a matrix with four distinct quadrants, each calling for tailored policy approaches (Figure 19):

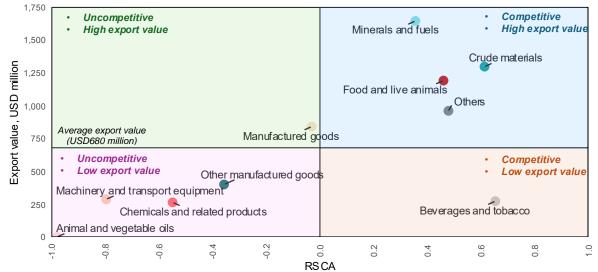


Figure 19. Exported Goods' Competitiveness and Export Value by Product Group, 2021

Source: UN Comtrade; AMRO staff calculations

Note: The figure illustrates product group's competitiveness on the x-axis and export value on the y-axis. Competitiveness is measured by computing the RSCA. A product group is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0. The average export value is proxied for the threshold of export value. This is weighted by the number of Standard International Trade Classification four-digit level products categorized under each group, which was USD680 million.

- Competitive products with high export value (top-right area). Products in this quadrant represent those that could enhance the export growth momentum. Policy priorities for these products include maintaining the existing competitiveness while leveraging their comparative advantage to identify areas of further diversification in terms of product coverage and export destinations.
- 2) Competitive products with low export value (bottom-right area). This quadrant contains products where an economy has demonstrated competitiveness but has not yet translated this advantage into substantial export earnings. For such items, policies should prioritize increasing export value through greater domestic production capacity or market expansion. Specific interventions could include leveraging trade agreements for market access or providing credit facilities for capital investments.
- 3) Uncompetitive products with high export value (top-left area). These products bring in high export revenue despite lacking a clear comparative advantage, either from temporary market conditions favorable to that economy or untapped potential for competitiveness development. For these products, quality improvements and other

competitive-enhancing measures, rather than further value expansion, should be prioritized. Effective intervention might include facilitating knowledge transfers among similar industries or products with characteristics similar to existing competitive exports, creating certification standards, and investing in targeted vocational training.

4) Uncompetitive products with low export value (bottom-left area). Products in this quadrant require comprehensive intervention strategies or strategic decisions about resource allocation. Some products may possess opportunities worth pursuing through significant interventions, while others may consume resources better directed elsewhere. Furthermore, meaningful improvements for these products may require strategic planning and implementation over a longer term compared to the products in other quadrants.

23. The strategy could focus on expanding the portfolio of competitive and high export value products. Currently, such products in the case of Lao PDR are comprised mostly of raw materials or minimally processed goods, particularly food and live animals, crude materials, minerals and fuels, and others including gold (Figure 19). ¹⁸ The Laotian policymakers are advised to adjust their approach through targeted policy interventions appropriate to each product's current position in the matrix.¹⁹

24. In parallel, addressing fundamental structural challenges through comprehensive reforms would be key to building a resilient export structure. Potential interventions could include upgrading workforce skills through enhanced vocational training, improved transport infrastructure, and a transparent and business-friendly regulatory framework. These foundational improvements would strengthen individual product competitiveness and help domestic industries develop expertise in higher-value-added products, which are now significantly underperforming. Such systematic enhancements would also facilitate trade network diversification, ultimately creating a more robust and sustainable export ecosystem in the medium to long term.

25. Last but not least, several limitations in this paper's assessment warrant further study. First, the analysis of competitiveness using RSCA does not capture Lao PDR's industrialization progress. As an economy goes up the industrialization ladder and starts manufacturing a new product, the competitiveness of this new type of goods may be less than other economies that have been producing the same goods for a longer time. This may explain why Lao PDR remains uncompetitive in exporting higher-value-added products despite an increase in the types of higher-value-added export products. Second, this paper did not analyze the determinants of competitiveness, as limited data was available to distinguish the characteristics of SITC four-digit level products. Thus, future studies clarifying the relationship between industrialization and competitiveness using alternative, dynamic measurements of competitiveness, would provide further valuable input to Lao PDR in formulating an effective export promotion strategy.

¹⁸ See Appendix 8 for a detailed list of Lao PDR's competitive and high export value products in 2021.

¹⁹ At the granular individual products level, products within the same group may occupy different quadrants of the matrix. For example, while the food and live animals product group is generally competitive with high export value, specific products within this group may be uncompetitive with low export value. Therefore, combining industry-level analysis with product-specific interventions is also essential.

Product Group	STIC Four-digit Codes
Food and live animals	0000 – 0999
Beverages and tobacco	1000 – 1999
Crude materials	2000 – 2999
Minerals and fuels	3000 – 3999
Animal and vegetable oils	4000 – 4999
Chemicals and related products	5000 – 5999
Manufactured goods	6000 – 6999
Machinery and transport equipment	7000 – 7999
Other manufactured goods	8000 – 8999
Others	9000 – 9999

Appendix 1. Product Groups and the Corresponding SITC Four-digit Codes

Source: Standard International Trade Classification (SITC), Revision 4; AMRO staff compilation

2010					2011		2012				
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)
2831	Copper ores and concentrates	485.8	25.4	6821	Copper, refined and unrefined	59.6	34.8	6821	Copper, refined and unrefined	603.4	37.8
6821	Copper, refined and unrefined	379.5	19.9	2831	Copper ores and concentrates	425.5	22.4	9710	Gold	239.4	15.0
449	Other maize, unmilled	228.8	12.0	9710	Gold	114.4	6.0	2831	Copper ores and concentrates	216.6	13.6
9710	Gold	123.4	6.5	6825	Copper plates, sheets and strips	80.8	4.3	711	Coffee	69.8	4.4
6825	Copper plates, sheets and strips	84.7	4.4	711	Coffee	75.4	4.0	6825	Copper plates, sheets and strips	66.2	4.1
577	Edible nuts	71.8	3.8	611	Sugars	40.4	2.1	449	Other maize, unmilled	48.0	3.0
2225	Sesame seeds	70.6	3.7	449	Other maize, unmilled	34.9	1.8	611	Sugars	31.3	2.0
8414	Trousers	39.4	2.1	8414	Trousers	34.5	1.8	8414	Trousers	14.4	0.9
711	Coffee	24.9	1.3	2484	Wood	20.6	1.1	2484	Wood	14.4	0.9
8454	T-shirts	24.9	1.3	5222	Other chemical elements	18.8	1.0	5243	Salts	14.3	0.9
	2013				2014				2015		
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC	Product	Trade Value	Share	SITC	Product	Trade Value	Share
6924			(/0)	Code		(USD mn)	(%)	Code		(USD mn)	(%)
6821	Copper, refined and unrefined	970.1	32.5	6821	Copper, refined and unrefined	(USD mn) 615.2	(%) 23.9	Code 2831	Copper ores and concentrates	(USD mn) 621.8	(%) 20.8
2831	Copper, refined and unrefined Copper ores and concentrates				Copper, refined and unrefined Copper ores and concentrates	· · ·					
		970.1	32.5	6821	Copper ores and	615.2	23.9	2831	concentrates Copper, refined and unrefined Telecommunications	621.8	20.8
2831	Copper ores and concentrates	970.1	32.5 21.8	6821 2831	Copper ores and concentrates	615.2 501.1	23.9 19.5	2831 6821	concentrates Copper, refined and unrefined	621.8 514.4	20.8
2831 9710	Copper ores and concentrates Gold	970.1 650.8 230.6	32.5 21.8 7.7	6821 2831 9710	Copper ores and concentrates Gold Telecommunications	615.2 501.1 138.0	23.9 19.5 5.4	2831 6821 7648	concentrates Copper, refined and unrefined Telecommunications equipment	621.8 514.4 255.1	20.8 17.2 8.5
2831 9710 449	Copper ores and concentrates Gold Other maize, unmilled	970.1 650.8 230.6 75.8	32.5 21.8 7.7 2.5	6821 2831 9710 7648	Copper ores and concentrates Gold Telecommunications equipment	615.2 501.1 138.0 122.0	23.9 19.5 5.4 4.7	2831 6821 7648 9710	concentrates Copper, refined and unrefined Telecommunications equipment Gold Non-alcoholic	621.8 514.4 255.1 152.3	20.8 17.2 8.5 5.1 4.8 3.8
2831 9710 449 711	Copper ores and concentrates Gold Other maize, unmilled Coffee	970.1 650.8 230.6 75.8 74.3	32.5 21.8 7.7 2.5 2.5	6821 2831 9710 7648 1110	Copper ores and concentrates Gold Telecommunications equipment Non-alcoholic beverages	615.2 501.1 138.0 122.0 105.6	23.9 19.5 5.4 4.7 4.1	2831 6821 7648 9710 1110	concentrates Copper, refined and unrefined Telecommunications equipment Gold Non-alcoholic beverages	621.8 514.4 255.1 152.3 144.0	20.8 17.2 8.5 5.1 4.8
2831 9710 449 711 8414	Copper ores and concentrates Gold Other maize, unmilled Coffee Trousers	970.1 650.8 230.6 75.8 74.3 64.5	32.5 21.8 7.7 2.5 2.5 2.5 2.2	6821 2831 9710 7648 1110 8414	Copper ores and concentrates Gold Telecommunications equipment Non-alcoholic beverages Trousers	615.2 501.1 138.0 122.0 105.6 72.7	23.9 19.5 5.4 4.7 4.1 2.8	2831 6821 7648 9710 1110 5243	concentrates Copper, refined and unrefined Telecommunications equipment Gold Non-alcoholic beverages Salts	621.8 514.4 255.1 152.3 144.0 113.7	20.8 17.2 8.5 5.1 4.8 3.8
2831 9710 449 711 8414 573	Copper ores and concentrates Gold Other maize, unmilled Coffee Trousers Bananas	970.1 650.8 230.6 75.8 74.3 64.5 61.6	32.5 21.8 7.7 2.5 2.5 2.5 2.2 2.1	6821 2831 9710 7648 1110 8414 711	Copper ores and concentrates Gold Telecommunications equipment Non-alcoholic beverages Trousers Coffee	615.2 501.1 138.0 122.0 105.6 72.7 63.3	23.9 19.5 5.4 4.7 4.1 2.8 2.5	2831 6821 7648 9710 1110 5243 8414	concentrates Copper, refined and unrefined Telecommunications equipment Gold Non-alcoholic beverages Salts Trousers Cigarettes containing	621.8 514.4 255.1 152.3 144.0 113.7 61.4	20.8 17.2 8.5 5.1 4.8 3.8 2.1

Source: UN Comtrade; AMRO staff calculations

Note: SITC = Standard International Trade Classification

	2016				2017				2018		
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)
2831	Copper ores and concentrates	728.0	23.3	3510	Electric current	1,283.6	26.1	3510	Electric current	1,398.4	24.0
6821	Copper, refined and unrefined	376.7	12.1	2831	Copper ores and concentrates	769.0	15.7	6821	Copper, refined and unrefined	749.7	12.9
573	Bananas	197.8	6.3	6821	Copper, refined and unrefined	376.9	7.7	2831	Copper ores and concentrates	707.5	12.2
7648	Telecommunications equipment	168.1	5.4	7648	Telecommunications equipment	262.7	5.4	2515	Chemical wood pulp	284.7	4.9
1110	Non-alcoholic beverages	155.8	5.0	1110	Non-alcoholic beverages	215.5	4.4	7648	Telecommunications equipment	254.2	4.4
9710	Gold	129.8	4.2	9710	Gold	178.3	3.6	1110	Non-alcoholic beverages	246.2	4.2
5243	Salts	123.0	3.9	573	Bananas	167.9	3.4	7641	Telephone sets	159.2	2.7
548	Vegetable products	81.4	2.6	2312	Natural rubber (other than latex)	126.8	2.6	9710	Gold	155.6	2.7
7641	Telephone sets	78.4	2.5	548	Vegetable products	97.6	2.0	2312	Natural rubber (other than latex)	145.3	2.5
1222	Cigarettes containing tobacco	72.3	2.3	7641	Telephone sets	94.0	1.9	573	Bananas	112.2	1.9
	2019				2020				2021		
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)
3510	Electric current	1,326.9	22.8	3510	Electric current	830.9	16.3	3510	Electric current	1,633.1	22.8
2831	Copper ores and concentrates	589.4	10.1	9710	Gold	457.1	9.0	9710	Gold	961.6	13.4
6821	Copper, refined and unrefined	434.0	7.5	2831	Copper ores and concentrates	436.7	8.6	6415	Paper and paperboard	525.2	7.3
1110	Non-alcoholic beverages	229.2	3.9	11	Bovine animals, live	250.1	4.9	2831	Copper ores and concentrates	331.0	4.6
11	Bovine animals, live	226.7	3.9	573	Bananas	227.4	4.5	548	Vegetable products	285.0	4.0
7648	Telecommunications equipment	210.2	3.6	1110	Non-alcoholic beverages	213.1	4.2	2513	Chemical wood pulp, dissolving grades	269.8	3.8
573	Bananas	193.9	3.3	548	Vegetable products	210.6	4.1	2815	Iron ores and concentrates	246.0	3.4
9710	Gold	192.3	3.3	6821	Copper, refined and unrefined	205.5	4.0	573	Bananas	238.3	3.3
	Natural rubber (other than	165.1	2.8	2312	Natural rubber (other than	147.3	2.9	11	Bovine animals, live	222.3	3.1
2312	latex)	105.1	2.0	2012	latex)		-				

Source: UN Comtrade; AMRO staff calculations Note: SITC = Standard International Trade Classification

Appendix 3. Lao PDR's Top 10 Exported Goods by Region in 2021

	Africa				Americas	;	Asia				
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)
6415	Paper and paperboard	1.1	29.3	8514	Other footwear	22.4	28.7	3510	Electric current	1,633.1	25.7
5751	Polymers of propylene	1.0	27.4	8484	Headgear	13.1	16.8	6415	Paper and paperboard	523.4	8.2
1211	Tobacco	0.5	14.2	8212	Mattress support	12.3	15.8	9710	Gold	514.8	8.1
11	Bovine animals, live	0.3	7.6	8131	Lamps	5.4	7.0	2831	Copper ores and concentrates	330.9	5.2
7436	Filtering or purifying machinery	0.2	6.4	8942	Tricycles, similar wheeled toys	2.7	3.4	548	Vegetable products	285.0	4.5
5721	Polystyrene	0.2	5.8	1222	Cigarettes	2.2	2.9	2513	Chemical wood pulp	269.8	4.2
6552	Other knitted fabrics	0.1	2.0	8414	Trousers	2.2	2.8	2815	Iron ores and concentrates	246.0	3.9
2479	Wood	0.1	1.8	8458	Other garments	2.0	2.6	573	Bananas	238.3	3.7
8426	Trousers	0.1	1.5	8454	T-shirts	1.9	2.5	11	Bovine animals, live	222.1	3.5
7449	Machinery parts	0.1	1.5	8437	Shirts	1.8	2.3	1110	Non-alcoholic beverages	216.3	3.4
	Europe				Oceania				Others		
SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)	SITC Code	Product	Trade Value (USD mn)	Share (%)
9710	Gold	115.6	31.3	9710	Gold	331.2	95.0	711	Coffee	1.1	19.5
8414	Trousers	64.9	17.5	7641	Telephone sets	10.0	2.9	8415	Shirts	0.8	14.0
8514	Other footwear	07.0									
0.450	outor reethour	37.2	10.1	8514	Other footwear	1.6	0.5	6649	Glass	0.7	12.8
8453	Jerseys, pullovers	13.6	10.1 3.7	8514 6343	Other footwear Plywood	1.6 0.9	0.5 0.3	6649 6415	Glass Paper and paperboard	0.7 0.7	12.8 11.9
8453 6674											
6674 711	Jerseys, pullovers Synthetic or reconstructed precious	13.6 12.6 12.2	3.7 3.4 3.3	6343 8973 8458	Plywood	0.9	0.3 0.3 0.2	6415	Paper and paperboard	0.7	11.9 10.9 5.9
6674	Jerseys, pullovers Synthetic or reconstructed precious stones	13.6 12.6	3.7 3.4 3.3 3.3	6343 8973	Plywood Jewelry	0.9	0.3	6415 7731	Paper and paperboard Insulated wire Starch, inulin and	0.7	11.9 10.9 5.9 5.2
6674 711	Jerseys, pullovers Synthetic or reconstructed precious stones Coffee	13.6 12.6 12.2	3.7 3.4 3.3 3.3 3.3	6343 8973 8458	Plywood Jewelry Other garments	0.9 0.9 0.8	0.3 0.3 0.2	6415 7731 5921	Paper and paperboard Insulated wire Starch, inulin and wheat gluten	0.7 0.6 0.3	11.9 10.9 5.9 5.2 4.2
6674 711 8438	Jerseys, pullovers Synthetic or reconstructed precious stones Coffee Underpants	13.6 12.6 12.2 12.2	3.7 3.4 3.3 3.3	6343 8973 8458 8453	Plywood Jewelry Other garments Jerseys	0.9 0.9 0.8 0.6	0.3 0.3 0.2 0.2	6415 7731 5921 8514	Paper and paperboard Insulated wire Starch, inulin and wheat gluten Other footwear	0.7 0.6 0.3 0.3	11.9 10.9 5.9 5.2

Source: UN Comtrade; AMRO staff calculations

Note: SITC = Standard International Trade Classification

Appendix 4. Lao PDR's Top 10 Export Destinations

2010)		2011			201	2	
Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)
Thailand	1,022.1	53.5	Thailand	841.7	44.3	Thailand	694.7	43.5
Australia	279.0	14.6	Australia	473.1	24.9	Australia	442.0	27.7
China	222.8	11.7	Vietnam	194.7	10.3	Vietnam	198.3	12.4
Vietnam	124.3	6.5	China	105.3	5.6	China	107.7	6.7
United Kingdom (UK)	53.8	2.8	Japan	49.1	2.6	Japan	30.5	1.9
United States (US)	38.7	2.0	UK	37.7	2.0	Germany	26.6	1.7
Germany	38.0	2.0	Germany	35.5	1.9	UK	13.7	0.9
Japan	26.9	1.4	US	34.9	1.8	Switzerland	9.2	0.6
Switzerland	14.2	0.7	Netherlands	21.4	1.1	Korea	8.1	0.5
Belgium	13.4	0.7	Italy	20.6	1.1	Netherlands	7.2	0.5
2013			2014			201	5	
Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)
Thailand	956.0	32.0	Thailand	916.7	35.6	China	1,039.5	34.8
Australia	721.7	24.2	China	705.2	27.4	Thailand	1,008.1	33.8
China	366.7	12.3	Vietnam	433.7	16.9	Vietnam	537.8	18.0
Vietnam	364.9	12.2	Australia	103.7	4.0	Germany	58.6	2.0
	304.9	12.2						
Netherlands	203.0	6.8	Germany	71.6	2.8	Japan	49.6	1.7
					2.8 2.1	Japan UK	49.6 42.0	1.7 1.4
Netherlands	203.0	6.8	Germany	71.6		I		
Netherlands Germany	203.0 77.2	6.8 2.6	Germany Japan	71.6 53.5	2.1	UK	42.0	1.4
Netherlands Germany Japan	203.0 77.2 60.7	6.8 2.6 2.0	Germany Japan UK	71.6 53.5 42.4	2.1 1.6	UK India	42.0 33.0	1.4 1.1

Source: UN Comtrade; AMRO staff calculations

201	6		2017			201	8	
Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)	Destination	Trade Value (USD mn)	Share (%)
China	1,128.3	36.1	Thailand	2,363.3	48.1	Thailand	2,802.1	48.2
Thailand	977.4	31.3	China	1,239.8	25.3	China	1,546.5	26.6
Vietnam	538.1	17.2	Vietnam	722.8	14.7	Vietnam	885.3	15.2
India	87.5	2.8	India	161.8	3.3	India	128.8	2.2
Japan	58.0	1.9	Japan	70.8	1.4	Japan	86.4	1.5
Germany	50.9	1.6	Germany	60.9	1.2	Germany	74.7	1.3
United Arab Emirates	34.1	1.1	UAE	27.1	0.6	Hong Kong, China	31.6	0.5
Swaziland	31.3	1.0	Switzerland	23.8	0.5	US	26.9	0.5
UK	24.9	0.8	Hong Kong, China	23.0	0.5	Sweden	25.2	0.4
Switzerland	23.8	0.8	US	22.6	0.5	Switzerland	23.4	0.4
2019	Э		2020			202	1	
Destination	Trade Value	Share	Destination	Trade Value	Share	Destination	Trade Value	Share
	(USD mn)	(%)	Destination	(USD mn)	(%)	Destination	(USD mn)	(%)
Thailand	(USD mn) 2,406.8	(%) 41.4	Thailand	(USD mn) 1,765.2	(%) 34.7	Thailand	(USD mn) 2,306.3	(%) 32.2
Thailand China				· · · · ·	· · ·		· · · · · · · · · · · · · · · · · · ·	· · ·
	2,406.8	41.4	Thailand	1,765.2	34.7	Thailand	2,306.3	32.2
China	2,406.8 1,672.3	41.4 28.8	Thailand China	1,765.2 1,465.9	34.7 28.8	Thailand China	2,306.3 2,248.0	32.2 31.4
China Vietnam	2,406.8 1,672.3 1,054.9	41.4 28.8 18.2	Thailand China Vietnam	1,765.2 1,465.9 998.8	34.7 28.8 19.6	Thailand China Vietnam	2,306.3 2,248.0 1,252.3	32.2 31.4 17.5
China Vietnam Japan	2,406.8 1,672.3 1,054.9 93.6	41.4 28.8 18.2 1.6	Thailand China Vietnam India	1,765.2 1,465.9 998.8 109.0	34.7 28.8 19.6 2.1	Thailand China Vietnam Australia	2,306.3 2,248.0 1,252.3 348.5	32.2 31.4 17.5 4.9
China Vietnam Japan India	2,406.8 1,672.3 1,054.9 93.6 90.6	41.4 28.8 18.2 1.6 1.6	Thailand China Vietnam India Australia	1,765.2 1,465.9 998.8 109.0 88.7	34.7 28.8 19.6 2.1 1.7	Thailand China Vietnam Australia Cambodia	2,306.3 2,248.0 1,252.3 348.5 129.4	32.2 31.4 17.5 4.9 1.8
China Vietnam Japan India Germany	2,406.8 1,672.3 1,054.9 93.6 90.6 81.8	41.4 28.8 18.2 1.6 1.6 1.4	Thailand China Vietnam India Australia Japan	1,765.2 1,465.9 998.8 109.0 88.7 84.7	34.7 28.8 19.6 2.1 1.7 1.7	Thailand China Vietnam Australia Cambodia Switzerland	2,306.3 2,248.0 1,252.3 348.5 129.4 115.9	32.2 31.4 17.5 4.9 1.8 1.6
China Vietnam Japan India Germany Hong Kong, China	2,406.8 1,672.3 1,054.9 93.6 90.6 81.8 58.7	41.4 28.8 18.2 1.6 1.6 1.4 1.0	Thailand China Vietnam India Australia Japan Germany	1,765.2 1,465.9 998.8 109.0 88.7 84.7 76.3	34.7 28.8 19.6 2.1 1.7 1.7 1.5	Thailand China Vietnam Australia Cambodia Switzerland Singapore	2,306.3 2,248.0 1,252.3 348.5 129.4 115.9 92.0	32.2 31.4 17.5 4.9 1.8 1.6 1.3

Source: UN Comtrade; AMRO staff calculations

Appendix 5. Lao PDR's Top 10 Competitive Goods

	2010				2011			2012				
SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	
2225	Sesame seeds	0.992	70.6	2450	Fuelwood	0.984	15.4	2922	Lac; natural gums	0.984	8.1	
6674	Synthetic or reconstructed precious stones	0.983	12.8	6674	Synthetic or reconstructed precious stones	0.979	12.1	615	Molasses	0.981	7.6	
2831	Copper ores and concentrates	0.977	485.8	2831	Copper ores and concentrates	0.975	425.5	6821	Copper, refined and unrefined	0.977	603.4	
449	Other maize, unmilled	0.976	228.8	6821	Copper, refined and unrefined	0.974	659.6	6825	Copper plates, sheets and strips	0.976	66.2	
6999	Semi-manufactures and articles of tungsten (wolfram)	0.971	22.0	6825	Copper plates, sheets and strips	0.972	80.8	6674	Synthetic or reconstructed precious stones	0.972	7.0	
6825	Copper plates, sheets and strips	0.968	84.7	2473	Wood rough, painted	0.968	3.4	2831	Copper ores and concentrates	0.960	216.6	
577	Edible nuts	0.954	71.8	2923	Vegetable materials	0.960	1.0	2732	Gypsum, plasters, limestone flux	0.959	5.7	
6821	Copper, refined and unrefined	0.952	379.5	2732	Gypsum, plasters, limestone flux	0.960	6.4	2450	Fuelwood	0.957	4.5	
2923	Vegetable materials	0.922	0.5	2221	Groundnuts (peanuts)	0.957	12.5	2485	Wood of non-coniferous species	0.956	12.3	
2485	Wood of non-coniferous species	0.919	9.2	2485	Wood of non-coniferous species	0.944	12.0	2483	Wood of coniferous species	0.950	5.9	
	2013				2014				2015			
SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	
6674	Synthetic or reconstructed precious stones	0.980	18.0	2742	Iron pyrites, unroasted	0.998	8.1	5243	Salts of metal acids	0.978	113.7	
6821	Copper, refined and unrefined	0.976	970.1	2814	Roasted iron pyrites	0.997	10.7	6674	Synthetic or reconstructed precious stones	0.976	19.6	
2831	Copper ores and concentrates	0.976	650.8	6674	Synthetic or reconstructed precious stones	0.984	24.7	2831	Copper ores and concentrates	0.974	621.8	
2742	Iron pyrites, unroasted	0.975	0.9	2831	Copper ores and concentrates	0.973	501.1	2311	Natural rubber latex	0.972	19.8	
2922	Lac; natural gums	0.975	9.7	6821	Copper, refined and unrefined	0.970	615.2	6821	Copper, refined and unrefined	0.958	514.4	
2814	Roasted iron pyrites	0.969	4.4	2311	Natural rubber latex	0.968	16.8	548	Vegetable products	0.951	31.2	
2475	Wood of non-coniferous species	0.960	6.3	2484	Wood of non-coniferous species	0.947	48.6	1110	Non-alcoholic beverages	0.947	144.0	
573	Bananas	0.957	61.6	1110	Non-alcoholic beverages	0.943	105.6	573	Bananas	0.940	54.8	
2221	Groundnuts (peanuts)	0.940	12.8	548	Vegetable products	0.938	18.0	2732	Gypsum, plasters, limestone flux	0.926	7.1	
2485	Wood of non-coniferous species	0.934	13.9	2475	Wood of non-coniferous species	0.938	4.0	7648	Telecommunications equipment	0.925	255.1	

Source: UN Comtrade; AMRO staff calculations

Note: SITC = Standard International Trade Classification. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0.

	2016			2017					2018				
SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)		
2814	Roasted iron pyrites	0.999	5.6	3510	Electric current	0.987	1,283.6	3510	Electric current	0.985	1,398.4		
2876	Tin ores and concentrates	0.985	5.4	548	Vegetable products	0.976	97.6	548	Vegetable products	0.972	86.1		
5243	Salts of metal acids	0.981	123.0	573	Bananas	0.960	167.9	2641	Jute and other textile bast fibers	0.958	0.2		
548	Vegetable products	0.981	81.4	2831	Copper ores and concentrates	0.956	769.0	2312	Natural rubber (other than latex)	0.954	145.3		
573	Bananas	0.981	197.8	2311	Natural rubber latex	0.953	25.7	2311	Natural rubber latex	0.952	22.9		
2831	Copper ores and concentrates	0.975	728.0	6674	Synthetic or reconstructed precious stones	0.950	18.3	2831	Copper ores and concentrates	0.948	707.5		
6674	Synthetic or reconstructed precious stones	0.947	9.4	1110	Non-alcoholic beverages	0.941	215.5	6674	Synthetic or reconstructed precious stones	0.944	20.8		
1110	Non-alcoholic beverages	0.946	155.8	421	Rice in the husk	0.936	6.7	2876	Tin ores and concentrates	0.942	2.4		
6821	Copper, refined and unrefined	0.943	376.7	5243	Salts of metal acids	0.935	57.9	6821	Copper, refined and unrefined	0.940	749.7		
2312	Natural rubber (other than latex)	0.942	67.9	2312	Natural rubber (other than latex)	0.934	126.8	1110	Non-alcoholic beverages	0.939	246.2		
	2019				2020				2021				
SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)	SITC Code	Product	RSCA	Trade Value (USD mn)		
3510	Electric current	0.984	1,326.9	548	Vegetable products	0.988	210.6	2513	Chemical wood pulp	0.987	269.8		
2311	Natural rubber latex	0.980	52.3	2519	Semi-chemical wood pulp	0.986	117.2	548	Vegetable products	0.987	285.0		
548	Vegetable products	0.979	112.0	2311	Natural rubber latex	0.983	67.2	2311	Natural rubber latex	0.978	65.7		
2519	Semi-chemical wood pulp	0.978	73.6	2513	Chemical wood pulp	0.983	144.0	3510	Electric current	0.976	1,633.1		
11	Bovine animals, live	0.974	226.7	3510	Electric current	0.981	830.9	11	Bovine animals, live	0.976	222.3		
2513	Chemical wood pulp	0.972	90.2	11	Bovine animals, live	0.979	250.1	6415	Paper and paperboard	0.973	525.2		
2312	Natural rubber (other than latex)	0.960	165.1	573	Bananas	0.966	227.4	573	Bananas	0.966	238.3		
573	Bananas	0.958	193.9	2312	Natural rubber (other than latex)	0.965	147.3	2923	Vegetable materials	0.964	3.8		
2876	Tin ores and concentrates	0.957	3.8	5623	Mineral or chemical fertilizers, potassic	0.946	131.4	5623	Mineral or chemical fertilizers, potassic	0.962	138.6		
2831	Copper ores and concentrates	0.941	589.4	13	Swine, live	0.931	40.2	2312	Natural rubber (other than latex)	0.962	214.4		

Source: UN Comtrade; AMRO staff calculations Note: SITC = Standard International Trade Classification. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0.

Appendix 6. Lao PDR's Top 10 Competitive Goods by Product Group in 2021

Food and live animals (Trade value: USD1,188.7 million)						Beverages and tobacco (Trade value: USD272.9 million)					
SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)		
548	Vegetable products	0.987	285	24.0	1110	Non-alcoholic beverages	0.912	216.8	79.5		
11	Bovine animals, live	0.976	222.3	18.7	1222	Cigarettes containing tobacco	0.677	35.8	13.1		
573	Bananas	0.966	238.3	20.0	1223	Other manufactured tobacco	0.181	4.8	1.8		
13	Swine, live	0.917	27.1	2.3	1211	Tobacco, not stemmed/stripped	0.039	0.5	0.2		
421	Rice in the husk	0.904	7.3	0.6	1123	Beer	-0.009	5.5	2.0		
612	Other beet or cane sugar	0.878	63.2	5.3	1124	Spirits	-0.183	8.4	3.1		
564	Flour, meal, flakes, granules and pellets of potatoes	0.853	7.7	0.6	1212	Tobacco wholly/partly		1.0	0.4		
711	Coffee	0.852	87.9	7.4	1121	1121 Wine from fresh grapes		0.0	0.0		
615	Molasses	0.845	4.4	0.4							
611	Sugars, beet or cane	0.773	33.3	2.8							
	Crude mate	rials			Minerals and fuels						
	(Trade value: USD1,	298.6 milli	ion)		(Trade value: USD1,646.7 million)						
SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)		
2513	Chemical wood pulp	0.987	69.8	20.8	3510	Electric current	0.976	1,633.1	99.2		
2311	Natural rubber latex	0.978	65.7	5.1	3211	Anthracite	0.377	2.5	0.2		
2923	Vegetable materials of a kind used primarily for plaiting	0.964	3.8	0.3	3222	Lignite	-0.380	0.9	0.1		
2312	Natural rubber (other than latex)	0.962	214.4	16.5	3212	Other coal	-0.606	10.1	0.6		
2322	Reclaimed rubber	0.933	7.2	0.6	3250	Coke & semi-coke	-0.994	0.0	0.0		
2732	Gypsum, plasters, limestone flux, limestone and other calcareous stone	0.923	16.6	1.3	3346	Petroleum oils	-1.000	0.1	0.0		
2641	Jute and other textile bast fibers	0.915	0.4	0.0	3330	Crude petroleum	-1.000	0.0	0.0		
2485	Wood of non-coniferous species	0.894	18.3	1.4							
2831	Copper ores and concentrates	0.830	331.0	25.5							
2519	Semi-chemical wood pulp and pulps of other fibrous cellulosic material e: UN Comtrade: AMRO staff calculations	0.819	12.3	0.9							

Source: UN Comtrade; AMRO staff calculations

Note: SITC = Standard International Trade Classification. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0, which are shaded in gray.

	Animal and vegetable (Trade value: USD0.4 m		Chemicals and related products (Trade value: USD263.8 million)							
SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	
4113	Animal oils, fats and greases	-0.631	0.3	65.3	5623	Mineral or chemical fertilizers, potassic	0.962	138.6	52.6	
4229	Other fixed vegetable fats	-0.686	0.1	34.3	5921	Starch, inulin and wheat gluten	0.876	36.8	14.0	
4314	Vegetable waxes	-0.968	0.0	0.4	5232	Chlorides, chloride oxides and chloride hydroxides	0.784	9.0	3.4	
						Propellent powders and other prepared explosives	0.428	0.8	0.3	
					5222	Other chemical elements	0.364	10.8	4.1	
					5535	Pre-shave, shaving or aftershave preparations	0.322	9.6	3.6	
					5243	Salts of metal acids	0.321	15.6	5.9	
						Waste, parings and scrap of other plastics	0.152	0.7	0.3	
					5719	Other polymers of ethylene	0.129	9.6	3.6	
						Polyamides	0.093	7.1	2.7	
	Manufactured good	ds				Machinery and transpo	ort equipn	nent		
	(Trade value: USD841.1	million)			(Trade value: USD287.2mn)					
SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	
6415	Paper and paperboard, uncoated, in rolls or sheets	0.973	525.2	62.4	7648	Telecommunications equipment	0.644	98.8	34.4	
6612	Portland cement	0.920	91.1	10.8	7649	Parts and accessories suitable for use solely or principally with the apparatus of division 76	-0.054	24.0	8.3	
6649	Glass	0.897	89.7	10.7	7711	Transformers, electrical	-0.116	4.0	1.4	
6674	Synthetic or reconstructed precious or semiprecious stones	0.781	12.6	1.5	7731	Insulated and other insulated electric conductors	-0.189	34.7	12.1	
6852	Lead plates, sheets, strips and foil; lead powders and flakes	0.661	0.5	0.1	7723	Electrical resistors	-0.372	2.4	0.8	
6851	Lead and lead alloys, unwrought	0.601	9.5	1.1	7641	Telephone sets	-0.411	90.1	31.4	
6533	Fabrics, woven, of synthetic staple fibers	0.542	4.5	0.5	7787	Electrical machines and apparatus	-0.505	7.9	2.7	
6764	Other bars and rods of iron and steel	0.505	4.7	0.6	7243	Sewing machines	-0.523	0.6	0.2	
6821	Copper, refined and unrefined	0.208	53.5	6.4	7339	Other machine tools for working metal	-0.535	0.2	0.1	
6538	Fabrics, woven, of artificial staple fibers, containing less than 85% by weight of such fibers	0.200	0.7	0.1	7444	Jacks	-0.625	0.3	0.1	

Source: UN Comtrade; AMRO staff calculations Note: SITC = Standard International Trade Classification. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0, which are shaded in gray.

	Other manufact (Trade value: USD				Others (Trade value: USD965.2 million)						
SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)	SITC code	Product	RSCA	Trade value (USD mn)	Share within the group (%)		
8414	Trousers, bib and brace overalls	0.765	69.6	17.4	9710	Gold	0.766	961.6	99.6		
8519	Parts of footwear	0.698	17.5	4.4	9310	Special transactions and commodities not classified according to kind	-0.980	3.6	0.4		
8514	Other footwear	0.690	79.0	19.7							
8438	Underpants, briefs, nightshirts	0.651	13.0	3.2							
8413	Jackets and blazers	0.619	8.2	2.0							
8415	Shirts	0.580	10.2	2.5							
8484	Headgear and fittings therefor	0.555	13.9	3.5							
8437	Shirts	0.518	6.7	1.7							
8811	Photographic cameras	0.512	3.6	0.9							
8458	Other garments, not knitted or crocheted	0.463	11.5	2.9							

Source: UN Comtrade; AMRO staff calculations Note: SITC = Standard International Trade Classification. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0, which are shaded in gray.

Appendix 7. Lao PDR's Top 10 Export Destinations of Competitive Goods

2010 (n = 83)			2011 (n = 81)		2012 (n = 75)			2014 (n = 108)		2015 (n = 105)	
Destination	Count	Destination	Count	Destination	Count	Destination	Count	Destination	Count	Destination	Count
Thailand	72	Thailand	55	Thailand	54	Thailand	65	Thailand	76	Thailand	71
Vietnam	40	Vietnam	40	China	41	China	62	China	66	Vietnam	67
China	35	China	35	Vietnam	40	Vietnam	52	Vietnam	60	China	61
France	26	Japan	22	Japan	22	Japan	34	Japan	36	Japan	30
Germany	22	UK	21	US	17	US	26	France	25	Germany	23
UK	21	US	20	Germany	16	France	23	Germany	24	US	21
US	21	France	17	France	12	Germany	22	US	23	France	18
Japan	17	Germany	16	UK	11	UK	22	UK	21	UK	17
Netherlands	16	Korea	13	Netherlands	11	Australia	18	Korea	20	Korea	17
Australia	12	Italy	11	Malaysia	10	Hong Kong, China	17	Australia	18	Netherlands	16
Hong Kong, China	12	Netherlands	11					Netherlands	18		
Italy	12										
2016		2017		2018		2019		2020		2021	
(n = 99)		(n = 85)		(n = 83)		(n = 100)		(n = 97)		(n = 98)	
Destination	Count	Destination	Count	Destination	Count	Destination	Count	Destination	Count	Destination	Count
Thailand	69	Thailand	62	Thailand	65	China	70	China	62	China	62
China	54	Vietnam	50	Vietnam	48	Thailand	68	Thailand	60	Thailand	60
Vietnam	52	China	48	China	47	Vietnam	62	Vietnam	53	Vietnam	56
Japan	29	Japan	26	Japan	26	Japan	34	Japan	34	Japan	30
Germany	22	US	19	US	23	Korea	24	US	22	Hong Kong, China	17
US	20	Germany	18	Germany	18	US	24	UK	18	US	17
Korea	18	France	16	Korea	16	Germany	21	Canada	17	Malaysia	16
France	16	Korea	14	France	15	Hong Kong, China	21	Germany	17	Netherlands	16
Hong Kong, China	16	Belgium	13	UK	15	Canada	19	France	17	Australia	15
Hong Kong, China											
Netherlands	15	Canada	13	Hong Kong, China	15 15	Australia	18	Netherlands	16	Canada	15 15

Source: UN Comtrade; AMRO staff calculations

Note: "in" represents the total types of competitive goods exported in the relevant year. Competitiveness is measured by computing the revealed symmetric comparative advantage (RSCA). A product is deemed competitive when the RSCA value is positive, between 0 and 1, and uncompetitive when it is negative, between -1 and 0.

SITC code	Product	RSCA	Trade value (USD mn)
2513	Chemical wood pulp, dissolving grades	0.987	269.8
548	Vegetable products, roots and tubers, chiefly for human food	0.987	285.0
2311	Natural rubber latex, whether/not prevulcanized	0.978	65.7
3510	Electric current	0.976	1,633.1
11	Bovine animals, live	0.976	222.3
6415	Paper and paperboard, uncoated, in rolls or sheets	0.973	525.2
573	Bananas (including plantains), fresh/dried	0.966	238.3
2923	Vegetable materials of a kind used primarily for plaiting	0.964	3.8
5623	Mineral or chemical fertilizers, potassic	0.962	138.6
2312	Natural rubber (other than latex)	0.962	214.4
2322	Reclaimed rubber; waste and scrap of unhardened rubber	0.933	7.2
2732	Gypsum, plasters, limestone flux, limestone and other calcareous stone	0.923	16.6
6612	Portland cement, aluminous cement, slag cement, supersulphate cement	0.920	91.1
13	Swine, live	0.917	27.1
1110	Non-alcoholic beverages	0.912	216.8
421	Rice in the husk (paddy/rough rice)	0.904	7.3
6649	Glass	0.897	89.7
2485	Wood of non-coniferous species	0.894	18.3
612	Other beet or cane sugar and chemically pure sucrose, in solid form	0.878	63.2
5921	Starches, inulin and wheat gluten	0.876	36.8
564	Flour, meal, flakes, granules and pellets of potatoes, fruits and vegetables	0.853	7.7
711	Coffee, not roasted, whether or not decaffeinated	0.852	87.9
615	Molasses resulting from the extraction or refining of sugar	0.845	4.4
2831	Copper ores & concentrates	0.830	331.0
2519	Semi-chemical wood pulp and pulps of other fibrous cellulosic material	0.819	12.3
2450	Fuel wood (excluding wood waste) and wood charcoal	0.809	6.3
2891	Precious metal ores and concentrates	0.802	32.0
2876	Tin ores & concentrates	0.787	1.4
5232	Chlorides, chloride oxides and chloride hydroxides; bromides	0.784	9.0

Appendix 8. Lao PDR's Competitive and High Export Value Goods in 2021

6674	Synthetic or reconstructed precious or semiprecious stones	0.781	12.6
611	Sugars, beet or cane, raw, in solid form, not containing added flavouring	0.773	33.3
9710	Gold, non-monetary (excluding gold ores and concentrates)	0.766	961.6
8414	Trousers, bib & brace overalls, breeches & shorts, men's/boys'	0.765	69.6
2479	Woods in the rough/roughly squared	0.752	9.0
2874	Lead ores & concentrates	0.752	14.0
2734	Pebbles, gravel, broken/crushed stone	0.701	6.3
8519	Parts of footwear	0.698	17.5
8514	Other footwear with uppers of leather or composition leather	0.690	79.0
1222	Cigarettes containing tobacco	0.677	35.8
12	Sheep and goats, live	0.670	2.2
2473	Wood rough, painted	0.663	1.1
8438	Underpants, briefs, nightshirts, pyjamas, bathrobes, dressing-gowns	0.651	13.0
7648	Telecommunications equipment	0.644	98.8
14	Poultry, live	0.640	4.9
2221	Groundnuts (peanuts), not roasted or otherwise cooked	0.627	5.4
752	Spices (except pepper and pimento)	0.625	12.4
481	Cereal grains, worked or prepared in a manner not elsewhere specified	0.623	12.5
8413	Jackets & blazers, men's/boys', of textile materials, not knitted/crocheted	0.619	8.2
2815	Iron ores & concentrates, not agglomerated	0.601	246.0
6851	Lead and lead alloys, unwrought	0.601	9.5
8415	Shirts	0.580	10.2
8484	Headgear and fittings therefo	0.555	13.9
579	Fruit, fresh or dried	0.551	64.2
423	Rice, semi-milled or wholly milled	0.546	27.8
6533	Fabrics, woven, of synthetic staple fibres	0.542	4.5
8437	Shirts	0.518	6.7
8811	Photographic (other than cinematographic) cameras	0.512	3.6
6764	Other bars and rods of iron and steel	0.505	4.7
168	Meat and edible meat offal	0.488	1.2
471	Cereal flours (other than of wheat or meslin)	0.473	1.0
l	1	i	

713	Extracts, essences and concentrates of coffee	0.470	7.3
561	Vegetables, dried (excluding leguminous vegetables), whole, cut	0.466	3.7
8458	Other garments, not knitted or crocheted	0.463	11.5
545	Other fresh or chilled vegetables	0.441	33.1
3211	Anthracite, whether/not pulverized, but not agglomerated	0.377	2.5
5222	Other chemical elements	0.364	10.8
2875	Zinc ores & concentrates	0.344	7.5
5535	Pre-shave, shaving or aftershave preparations, personal deodorants	0.322	9.6
5243	Salts of metal acids; organic and inorganic compounds of precious metals	0.321	15.6
2225	Sesame (Sesamum) seeds	0.302	1.5
8212	Mattress supports; articles of bedding or similar furnishings	0.248	12.9
2515	Chemical wood pulp, soda or sulphate, other than dissolving grades	0.227	14.1
6821	Copper, refined and unrefined; copper anodes for electrolytic refining	0.208	53.5
1223	Other manufactured tobacco (including smoking and chewing tobacco, snuff)	0.181	4.8
8511	Footwear incorporating a protective metal toecap	0.148	1.3
8412	Suits and ensembles	0.142	2.0
741	Tea, whether or not flavoured	0.142	3.8
8974	Other articles of precious metal or of metal clad with precious metal	0.135	3.4
8999	Manufactured goods	0.135	5.6
5719	Other polymers of ethylene, in primary forms	0.129	9.6
6353	Builders' joinery and carpentry of wood, including cellular wood panels	0.127	7.7
5753	Polyamides	0.093	7.1
8426	Trousers, bib & brace overalls, breeches & short, women's/girls'	0.087	10.6
8454	T-shirts, singlets & other vests, knitted/crocheted	0.087	15.5
449	Other maize, unmilled	0.072	18.4
6794	Other tubes, pipes and hollow profiles	0.018	10.2
	Threshold	0.000	1

Source: UN Comtrade; AMRO staff calculations Note: SITC = Standard International Trade Classification. Competitive and high export value goods are those that have positive revealed comparative symmetric advantage (RSCA) values and are above USD1million of export value. This table lists 86 products among 529 types that sLaos PDR exported in 2021 and is ordered from the highest RSCA-value product.

References

- Akamatsu, K. 1961. "A Theory of Unbalanced Growth in the World Economy." *Weltwirtschaftliches Archiv* 86: 196-217.
- ——. 1962. "A historical pattern of economic growth in developing countries." The Developing Economies 1: 3-25. <u>https://doi.org/10.1111/j.1746-1049.1962.tb01020.x</u>
- ASEAN Promotion Centre on Trade, Investment and Tourism. 2021. "Global Value Chains in ASEAN: Lao People's Democratic Republic." Paper 5. ASEAN-Japan Center: Tokyo. <u>https://www.asean.or.jp/main-site/wp-content/uploads/2024/03/GVC_Laos_Paper-5_full_20210324-web.pdf</u>
- Dalum, B., K. Laursen and G. Villumsen. 1998. "Structural change in OECD export specialization patterns: de-specialization and 'stickiness'." *International Review of Applied Economics* 12: 447-467.
- Department of Foreign Trade Policy. Trade Agreements. Ministry of Industry and Commerce. Lao People's Democratic Republic. <u>https://www.dftp.moic.gov.la/en/</u> [Accessed March 18, 2024]
- Hara, Y. and Shuto, H. 2005. "Trade structures and export competitiveness in Lao PDR and the East Asian countries." *Main Report on Macroeconomic Policy Support for Socio-economic Development in Lao PDR (Phase II)*. Committee for Planning and Investment Lao People's Democratic Republic and Japan International Cooperation Agency. pp. 7-24. https://openjicareport.jica.go.jp/pdf/11802832.pdf
- Hidalgo, C.A. and Hausmann R. 2009. "The building blocks of economic complexity." Proceedings of the National Academy of Sciences of the United States of America. 106 (26): 10570-10575. https://doi.org/10.1073/pnas.0900943106
- Hecksher, E.F. 1919. "The effect of foreign trade on the distribution of income," in Howard S. Ellis and Lloyd A. Metzler. eds. *Readings in the Theory of International Trade*. 1949. American Economic Association: Philadelphia, Blakiston.
- Japan External Trade Organization. EPA/FTA, WTO Database. <u>https://www.jetro.go.jp/theme/wto-fta/ftalist/</u> [Accessed March 18, 2024]
- Krugman, P. 1980. "Scale Economies, Product Differentiation, and the Pattern of Trade." *The American Economic Review* 70: 950-59.
- Laursen, K. 1998. "Revealed comparative advantage and the alternatives as measures of international specialization." *DRUID Working Paper*. No. 98-30. Danish Research Unit for Industrial Dynamics (DRUID).
- ———. 2015. "Revealed comparative advantage and the alternatives as measures of international specialization." *Eurasian Bus Rev.* 5: 99-115. <u>https://doi.org/10.1007/s40821-015-0017-1</u>

- Ministry of Planning and Investment. 2021. "9th Five-Year National Socio-Economic Development Plan (2021-2025)." Lao People's Democratic Republic.
- Ohlin, B. 1933. "Interregional and International Trade." Harvard University Press: Cambridge, Massachusetts.
- Organisation for Economic Co-operation and Development (OECD). Ocean shipping and shipbuilding. <u>https://www.oecd.org/ocean/topics/ocean-shipping/</u> [Accessed March 18, 2024]
- Ricardo, D. 1817. "On the Principles of Political Economy and Taxation." John Murray: London. <u>https://www.econlib.org/library/Ricardo/ricP.html</u>
- Shohibul, A. 2013. "Revealed Comparative Advantage Measure: ASEAN-China Trade Flows." Journal of Economics and Sustainable Development 4 (7): 136-145. <u>https://core.ac.uk/download/pdf/234645942.pdf</u>
- The Growth Lab at Harvard University. The Atlas of Economic Complexity. http://www.atlas.cid.harvard.edu.
- Torok, A. and Jambor, A. 2016. "Determinants of the revealed comparative advantages: The case of the European ham trade." *Agricultural Economics.* Czech 62: 471-482. <u>https://agricecon.agriculturejournals.cz/pdfs/age/2016/10/03.pdf</u>
- United Nations Statistics Division. 2006. "Standard International Trade Classification (SITC) Revision 4." *Statistical Papers*. Series M No. 34. Rev. 4. United Nations: New York.<u>https://unstats.un.org/unsd/publication/SeriesM/SeriesM_34rev4E.pdf</u>
- 2018. "Classification by Broad Economic Categories Rev. 5." Statistical Papers. Series M No. 53, Rev. 5. United Nations: New York. <u>https://unstats.un.org/unsd/trade/classifications/SeriesM 53 Rev.5 17-01722-E-Classification-by-Broad-Economic-Categories PRINT.pdf</u>
- ——. UN Comtrade Database. <u>https://comtradeplus.un.org/</u> [Accessed March 18, 2024]
- United States International Trade Administration. 2022. "Trade Agreements." Laos-Country Commercial Guide. <u>https://www.trade.gov/country-commercial-guides/laos-trade-agreements</u> [Accessed March 18, 2023]
- United States International Trade Commission. 2021. "Raspberries for Processing: Conditions of Competition between U.S. and Foreign Suppliers, with a Focus on Washington State." Publication Number: 5194. Investigation Number: 332-577. Washington DC. https://www.usitc.gov/publications/332/pub5194.pdf
- Vixathep, S. 2011. "Trade Liberalization and Comparative Advantage Dynamics in Lao PDR." *Lao Trade Research Digest* II.
- Vollrath, T. L. 1991. "A theoretical evaluation of alternative trade intensity measures of revealed comparative advantage." *Weltwirtschaftliches Archiv* 127: 265-80.

- Widodo, Tri. 2009 (a). "Comparative Advantage: theory, empirical measures and case studies." *Review of Economic and Business Studies* Issue 4: 57-82.
- ———. 2009 (b). "Dynamic Comparative Advantages in the ASEAN+3." *Journal of Economic Integration* 24 (3): 505-529.
- World Bank. 2020. "Accelerating Digitalization: Critical Actions to Strengthen the Resilience of the Maritime Supply Chain." Washington DC. <u>https://thedocs.worldbank.org/en/doc/773741610730436879-</u> 0190022021/original/AcceleratingDigitalizationAcrosstheMaritimeSupplyChain.pdf
- World Trade Organization. Preferential Trade Agreements Database. <u>http://ptadb.wto.org/Country.aspx?code=418</u> [Accessed March 18, 2024]
- ———. Regional Trade Agreements Database. <u>http://rtais.wto.org/UI/PublicSearchByMemberResult.aspx?MemberCode=418&lang=</u> <u>1&redirect=1</u> [Accessed March 18, 2024]



Address: 10 Shenton Way, #15-08 MAS Building, Singapore 079117 Website: www.amro-asia.org Tel: +65 6323 9844 Email: enquiry@amro-asia.org LinkedIn | Twitter | Facebook | YouTube