



ASEAN
DATA SCIENCE
EXPLORERS

SAP



ASEAN
FOUNDATION



Alisia Saphakdy
Thipmala Keonammavong

ECO-CRAFTS

Turn wastes into the local economy



13

Take urgent action to combat climate change and its impacts



12

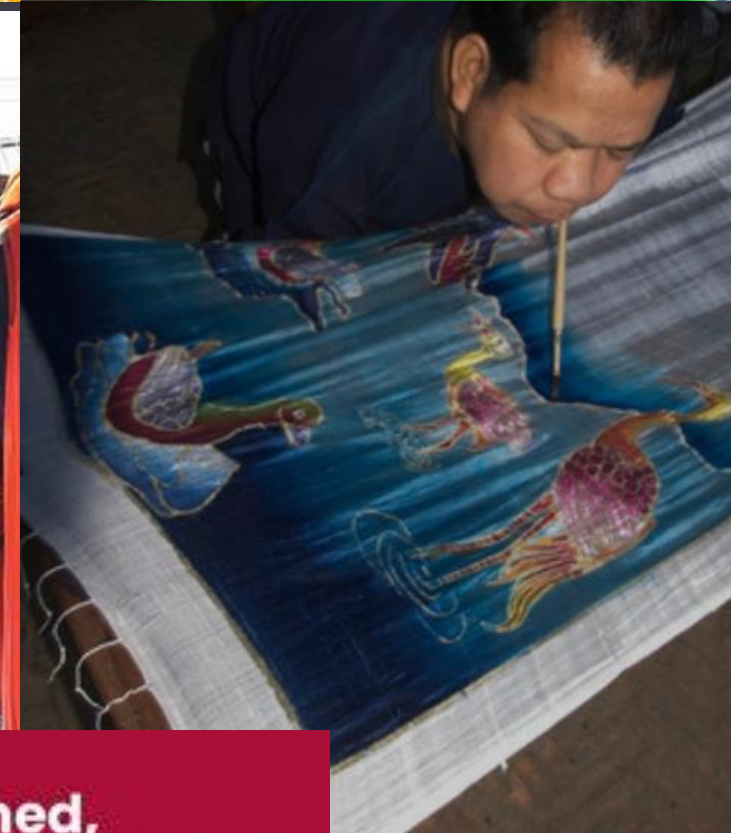
Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



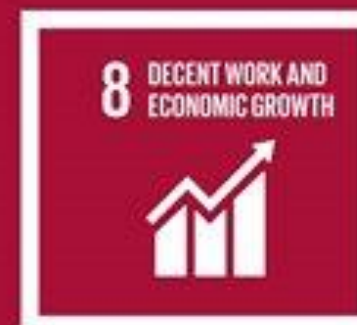
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Turn waste into local economy

In an effort to address waste management concerns, promote cultural preservation, enhance employment rates, and foster local economic growth



Ensure sustainable consumption and production patterns



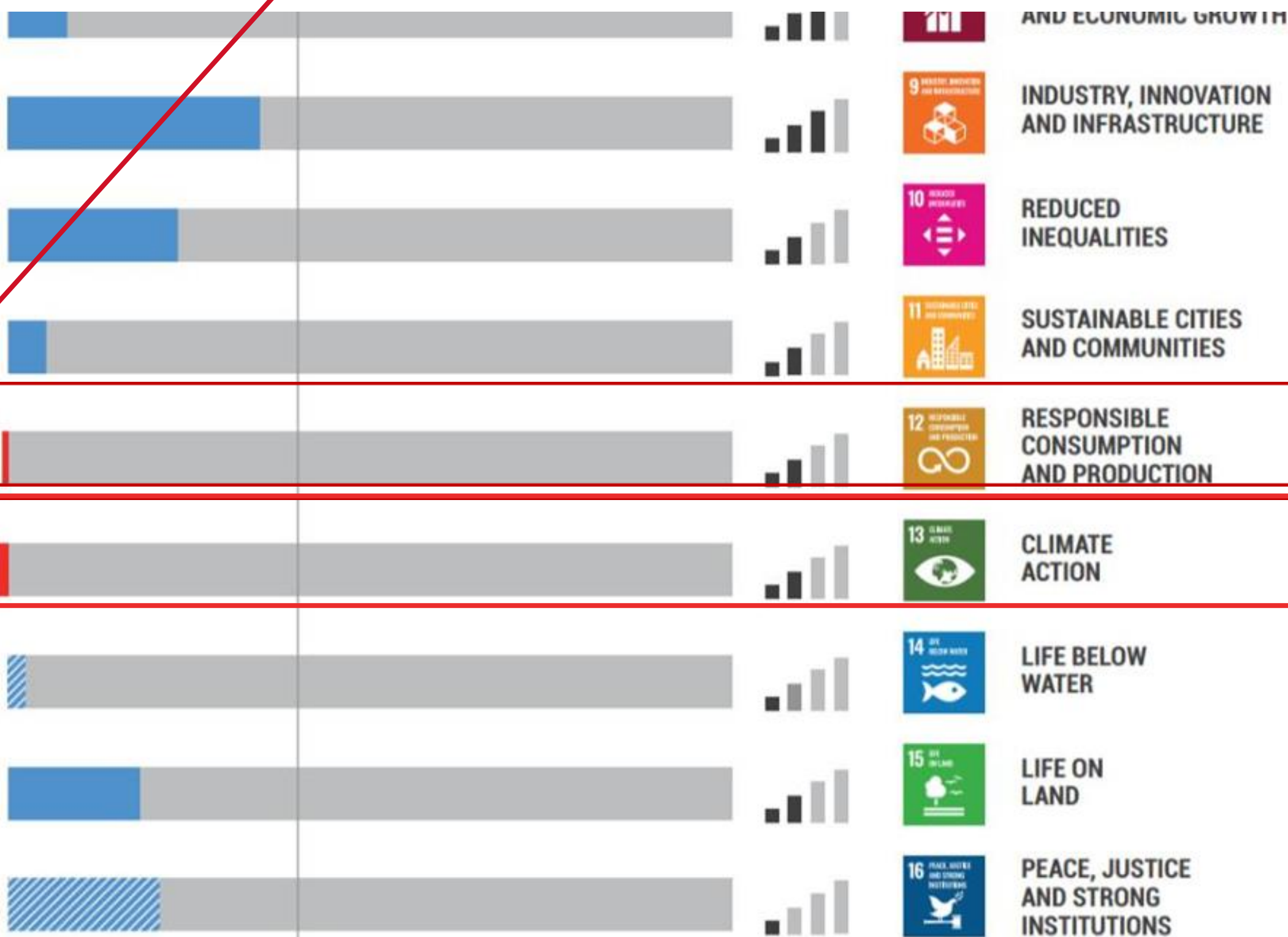
Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

This progress has been too slow, not even achieving half of the goals in the Asia-Pacific region.

when recyclable items are tossed into the garbage instead of getting recycled recycling, they eventually end up in landfills



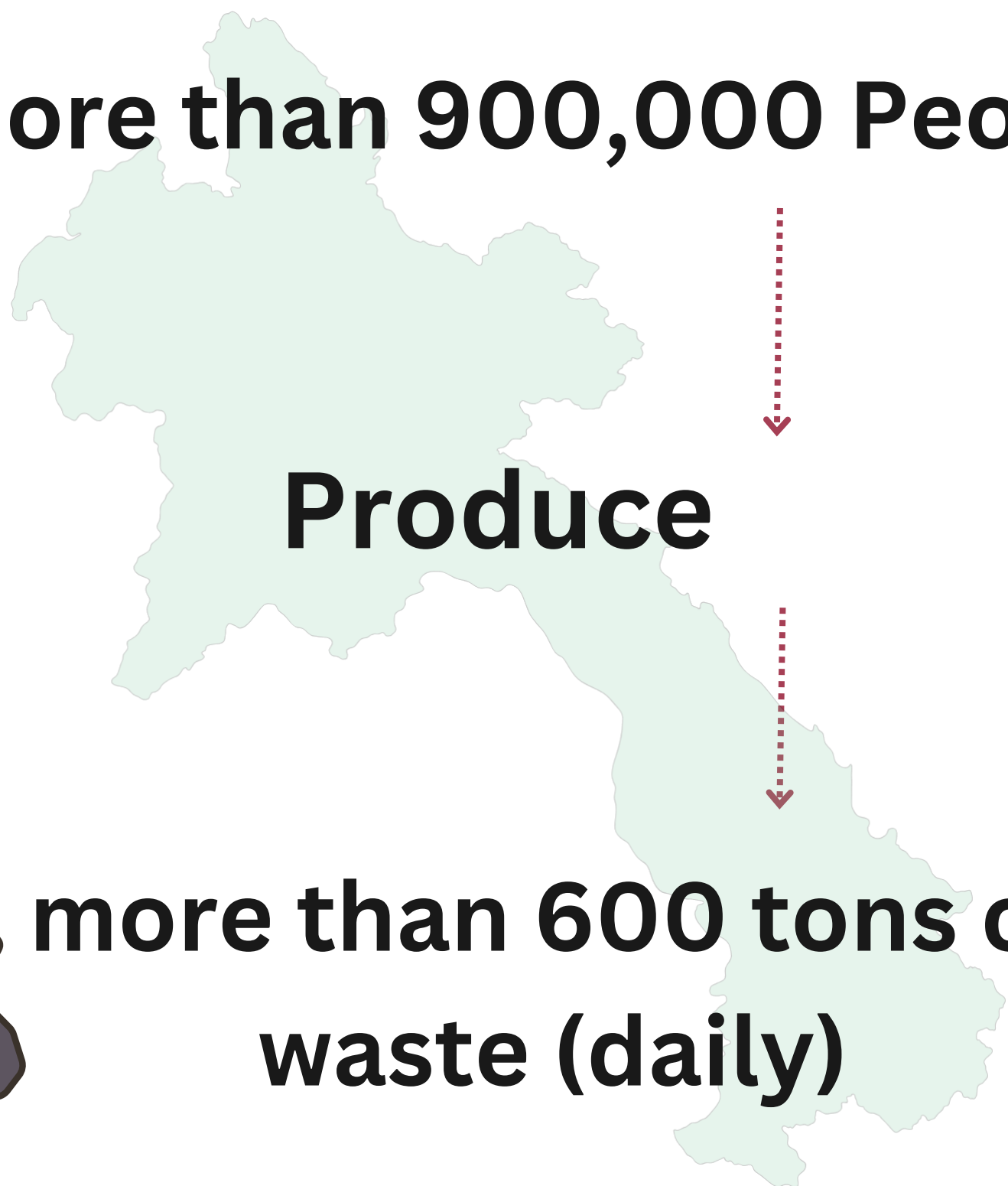
Source : (ASIA-Pacific SDG Progress Report 2022)





Vientiane itself, home

more than 900,000 People

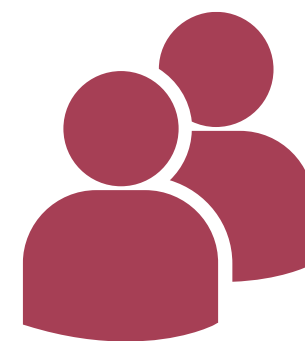


Produce



**more than 600 tons of
waste (daily)**

Source: UNDP



**ASEAN population
=688,435,696People**



Produce



**over 202,000 tones of
municipal solid waste**

RECYCLE RATE IN ASEAN



Recycling Rates of Municipal Solid Waste in ASEAN Countries



Country	Recycling Rate
Brunei	= 15%
Camodia	< 50%
Indonesia	< 50%
Lao PDR	< 50%
Malaysia	50 - 60% (Plastic, paper, metal), < 50% (others)
Myanmar	70% (Plastic, paper, metal)
Philippines	30 - 70% (aluminium), 28 - 60% (glass), 23 - 42% (plastic), 20 - 58% (other metals), 20 - 33% (paper)
Singapore	> 90% (Fe, Construction and demolition, used slag), > 80% (scrap tire), > 80% (wood), 50 - 60% (paper, horticulture), > 50% (others), 60% (overall)
Thailand	> 90% (metal), 50 - 60% (paper, construction), < 50% (others)
Vietnam	> 90% (metal), > 70% (plastic, e-waste), 50% (paper), < 50% (others)

the recycling rates of municipal
solid waste in member countries of
ASEAN



source : UNEP (2017)

RECYCLE RATE IN LAOS



current scale of recycling in
Laos PDR is still very
modest at about 10% of
solid waste generated



*70% reported
making fires in
their backyard*

source :World bank





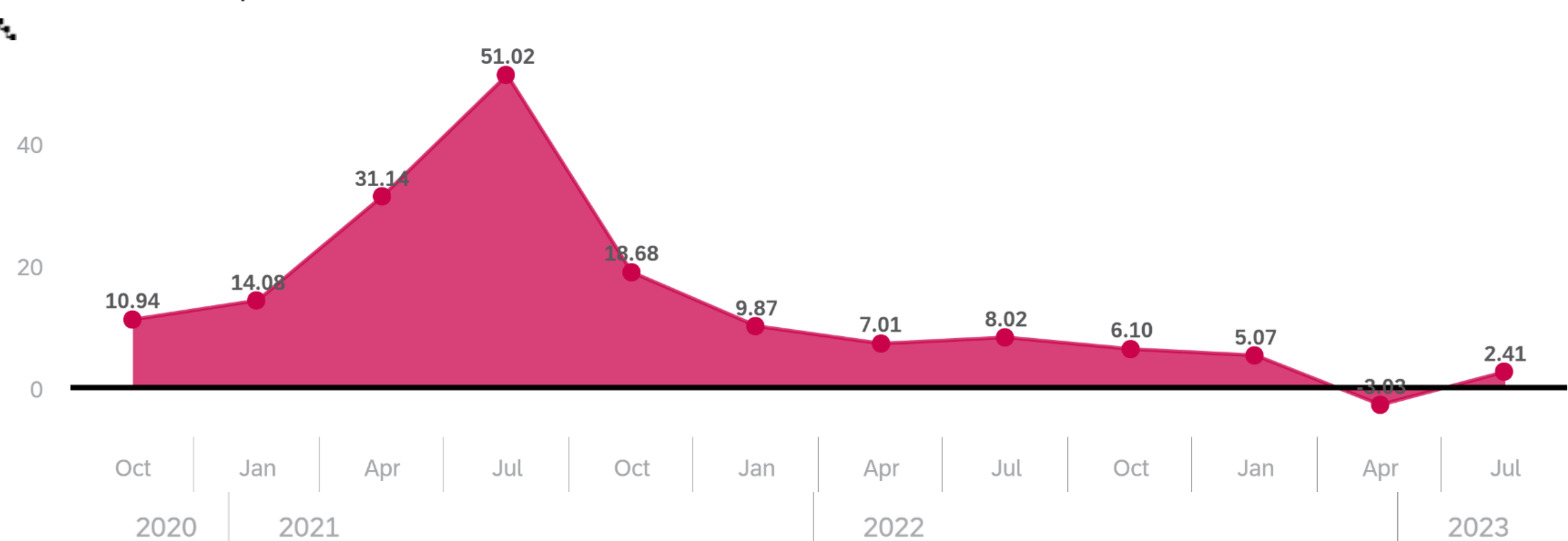
ECONOMIC

WHAT OTHER PROBLEMS DO WE SEE?

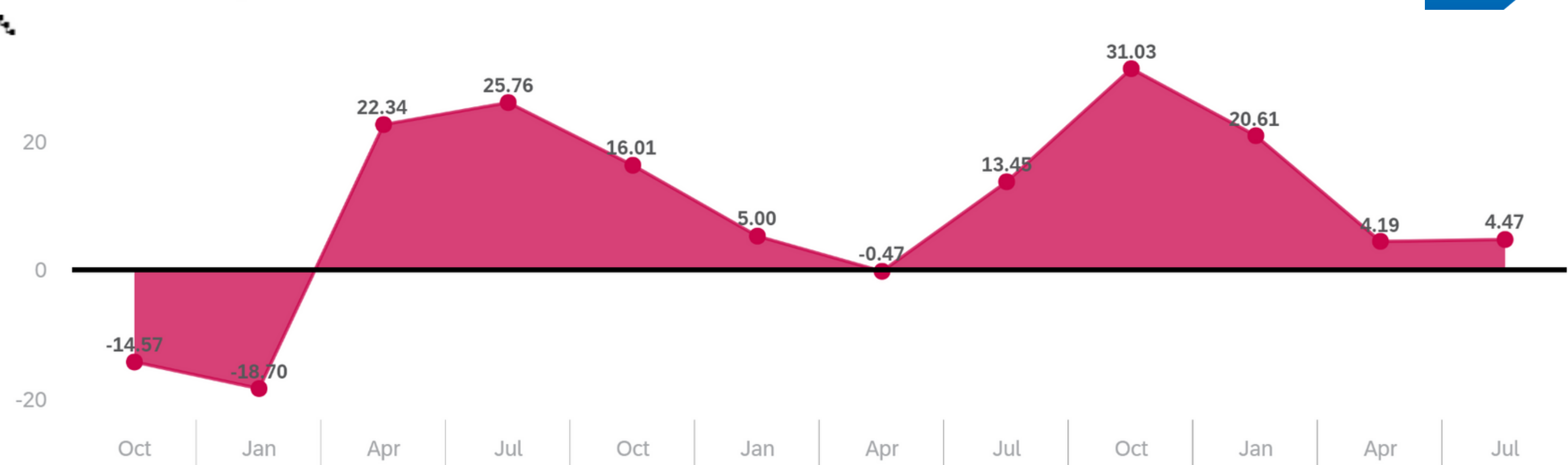
COMPARING
TOTAL
IMPORT
AND
EXPORT
GROWTH
FROM
2005-
2023

SOURCE: CEIC

Laos's Total Exports Growth from Oct 2020 to Jul 2023



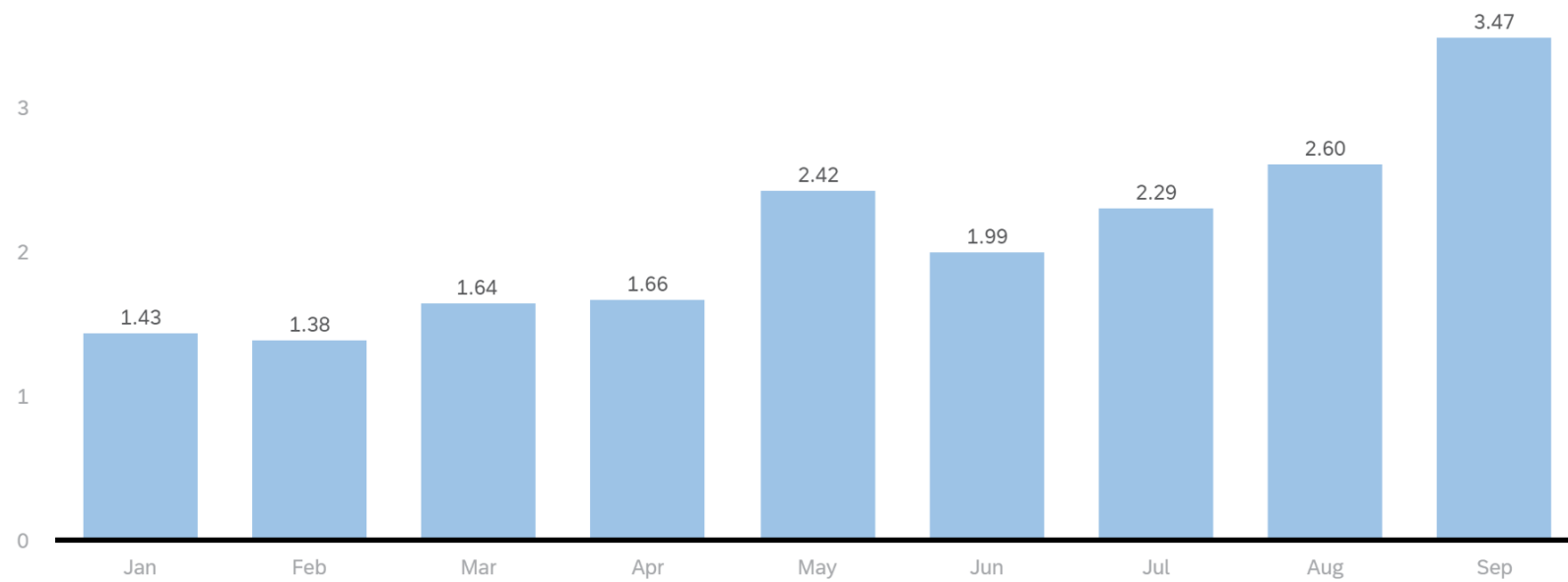
Laos's Total Imports Growth from Oct 2020 to Jul 2023



LAOS INFLATION RATE

The Consumer Price Index in Laos increased 3.47 percent in September of 2023 over the previous month

Lao Inflation rate MoM 2023

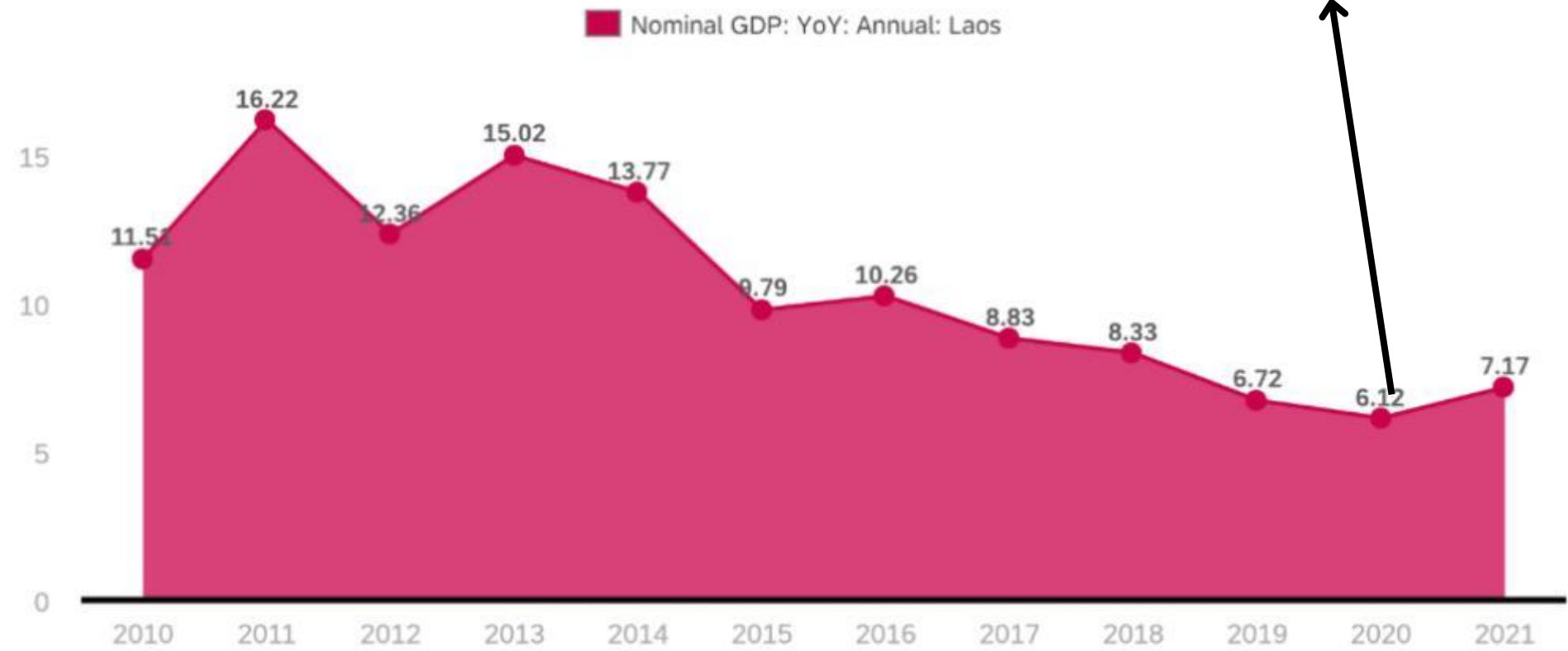


Consumer price inflation in Laos breaches 30% in August

SOURCE: World Bank

LAOS'S REAL GDP GROWTH DECREASE FROM 2003 TO 2021 IN THE CHART:

Nominal GDP: YoY: Annual: Laos per Year for Actual



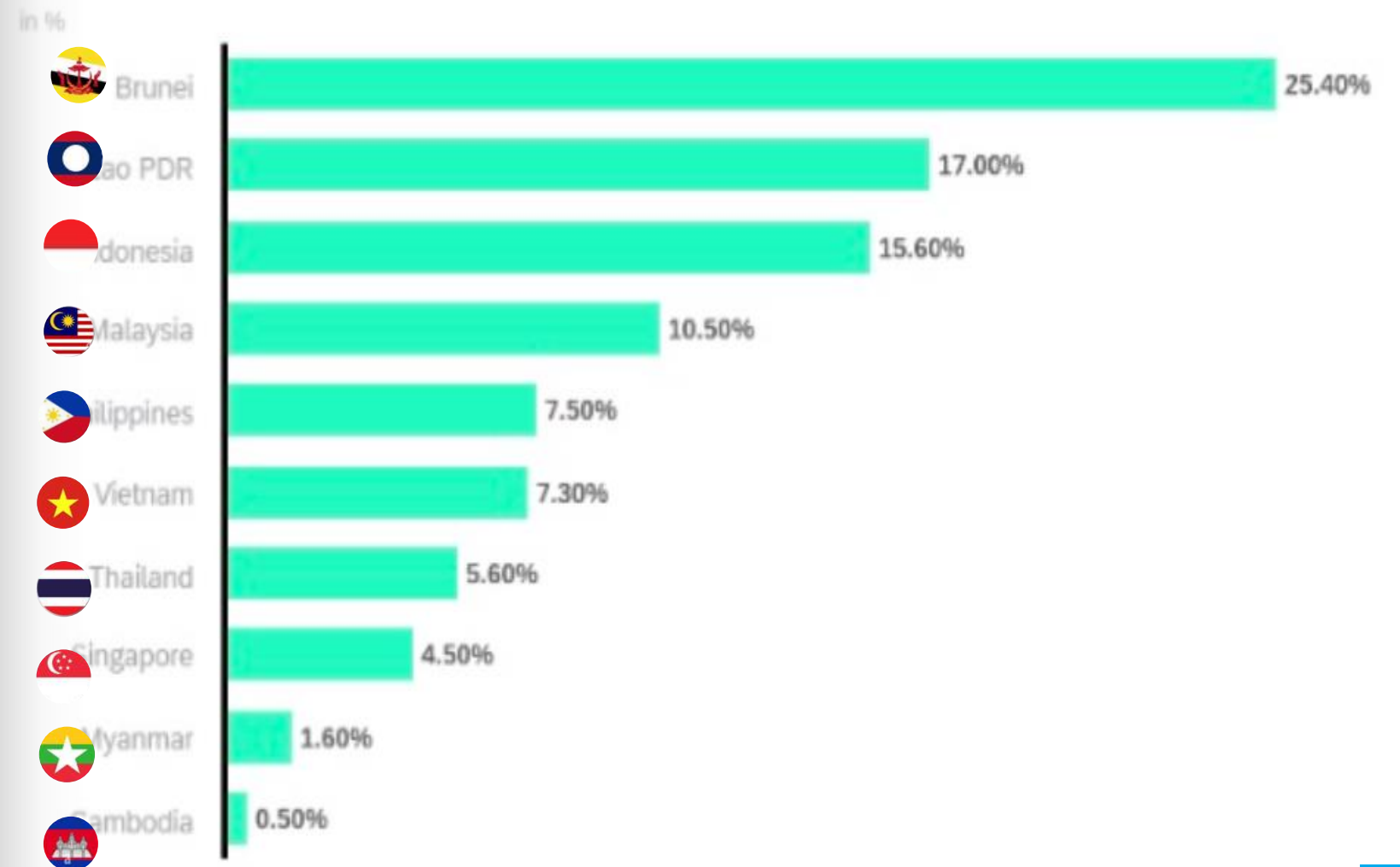
Lao’s GDP continue to declind since 2013

SOURCE: CEIC

. ASEAN Unemployment rate

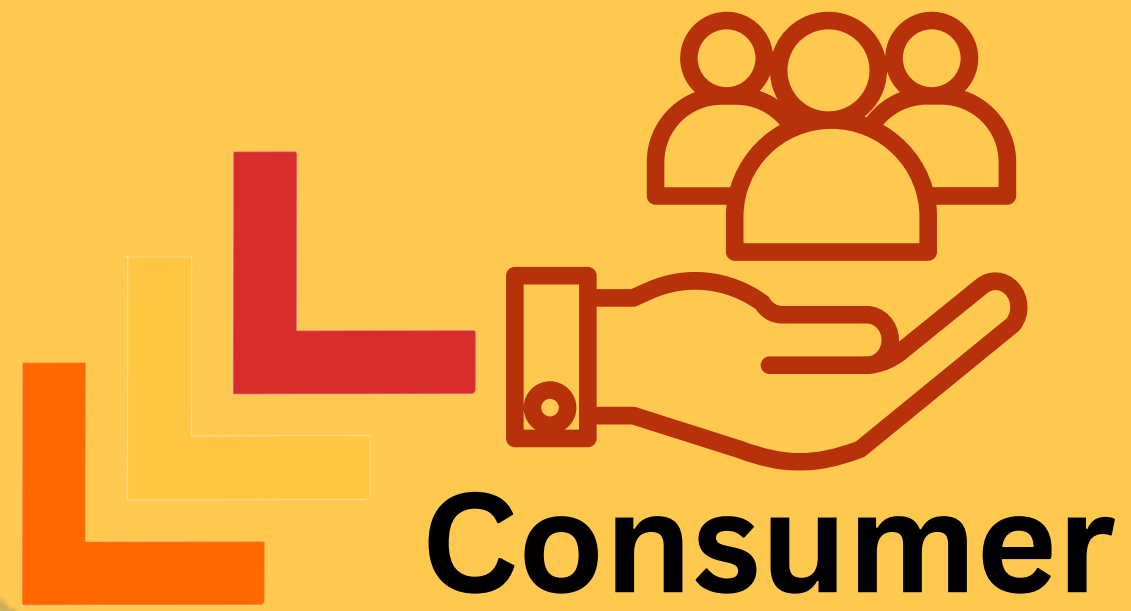
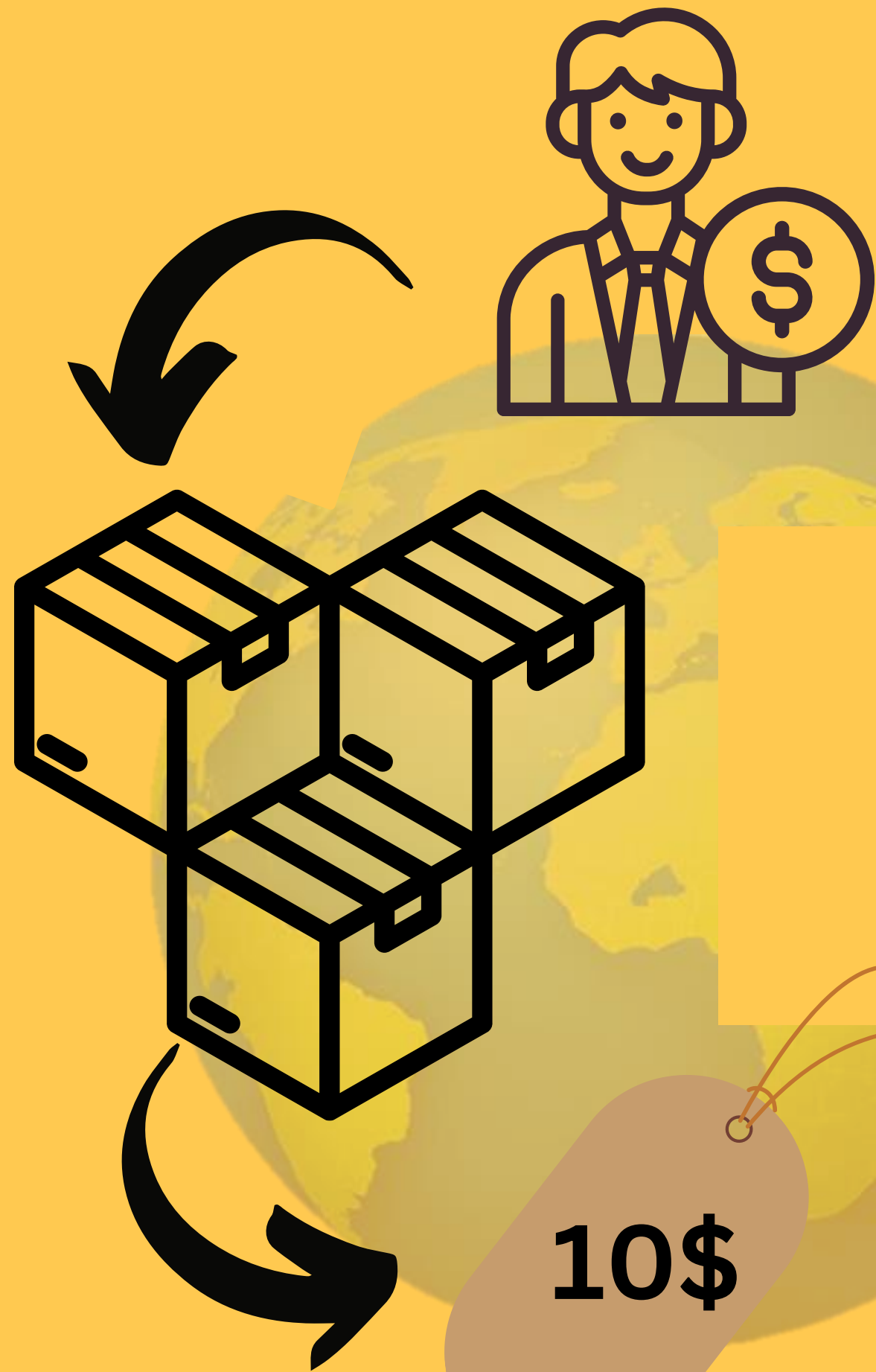


ASEAN Unemployment rate in Percentage(%)

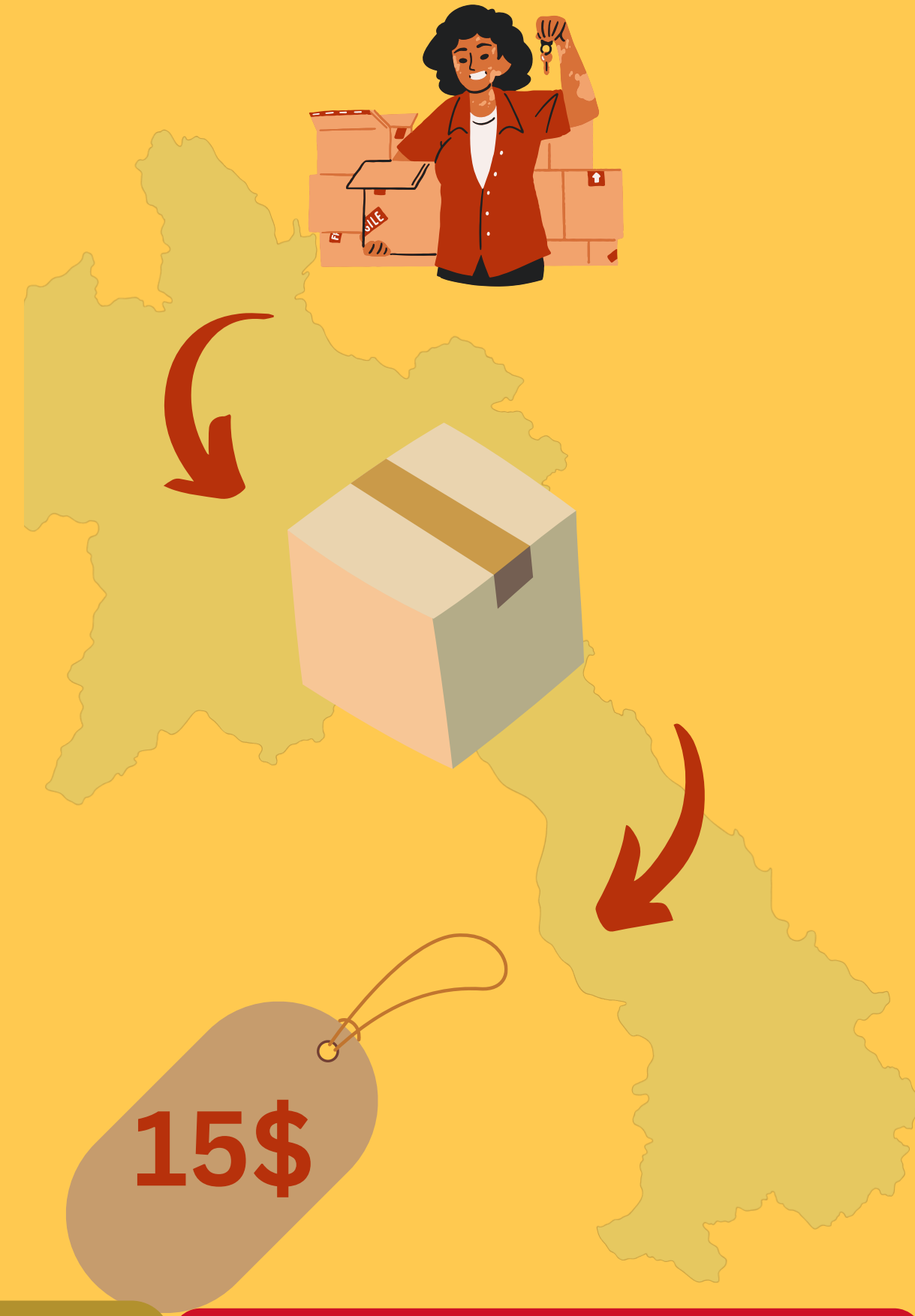


The severe economic and labour market impact as a result of the pandemic on employment requires urgent, large-scale and targeted responses.

source: The World Bank



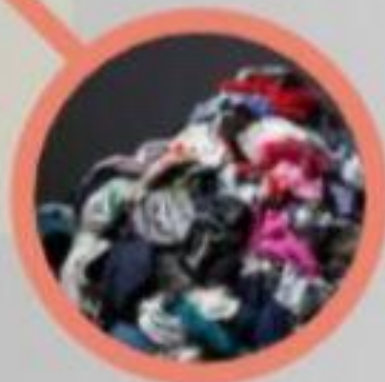
Other main problems
monopoly



Problems Sumery



**Waste management
problem**



Economic



What potential do we see in solving these two problems?

Tourism

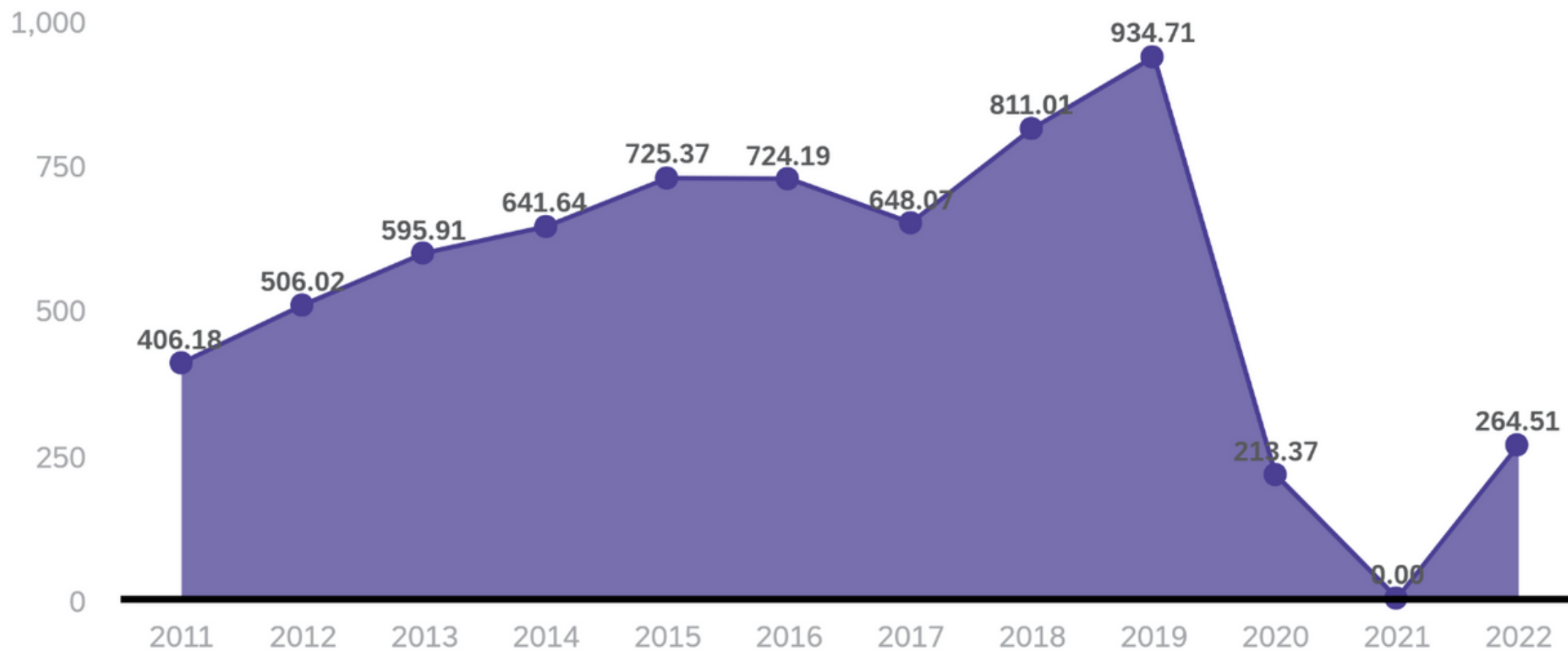
Disability

Let's explore how we can collaboratively address these two problems.



Laos's Tourism Revenue

1911-2022



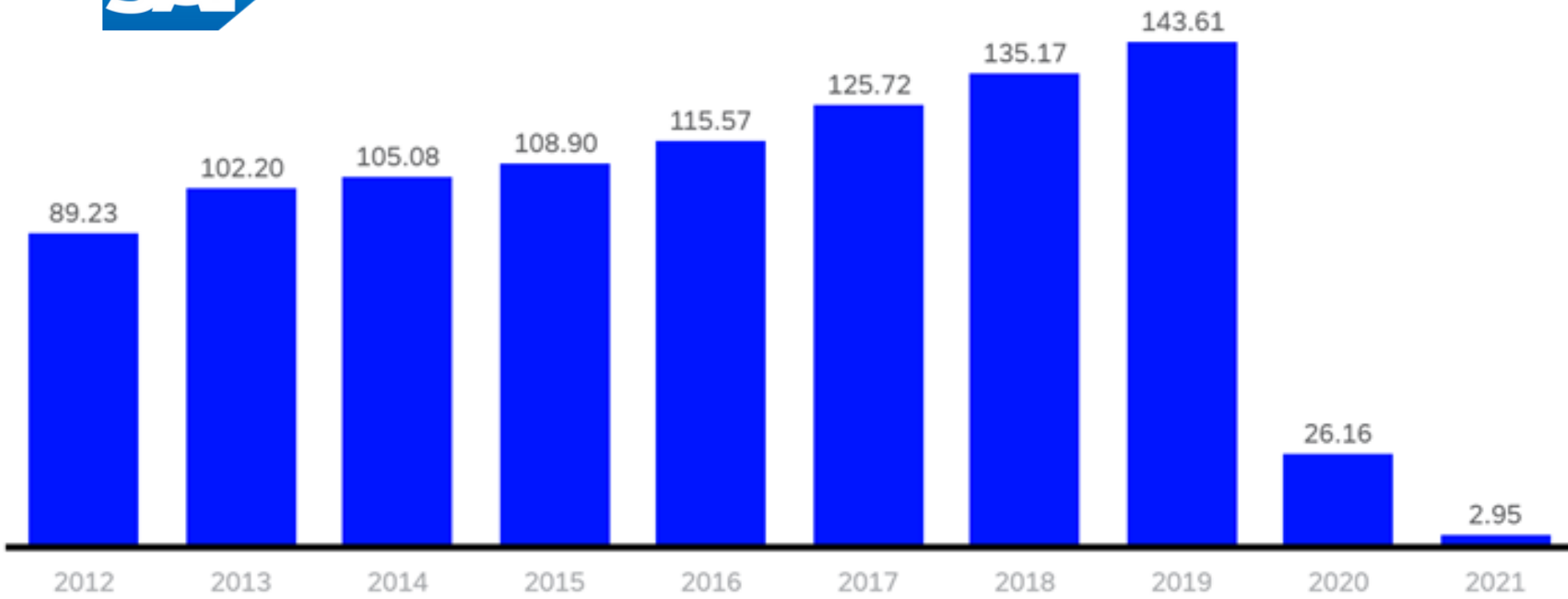
Laos's Tourism Revenue reached 265 million USD in Dec 2022, compared with 0 million USD in the previous year after Covid-19

Laos Welcomes Over 1.6 Million Tourists in First Half of 2023



source: CEIC

Source: The Laotian Times



Source:statista

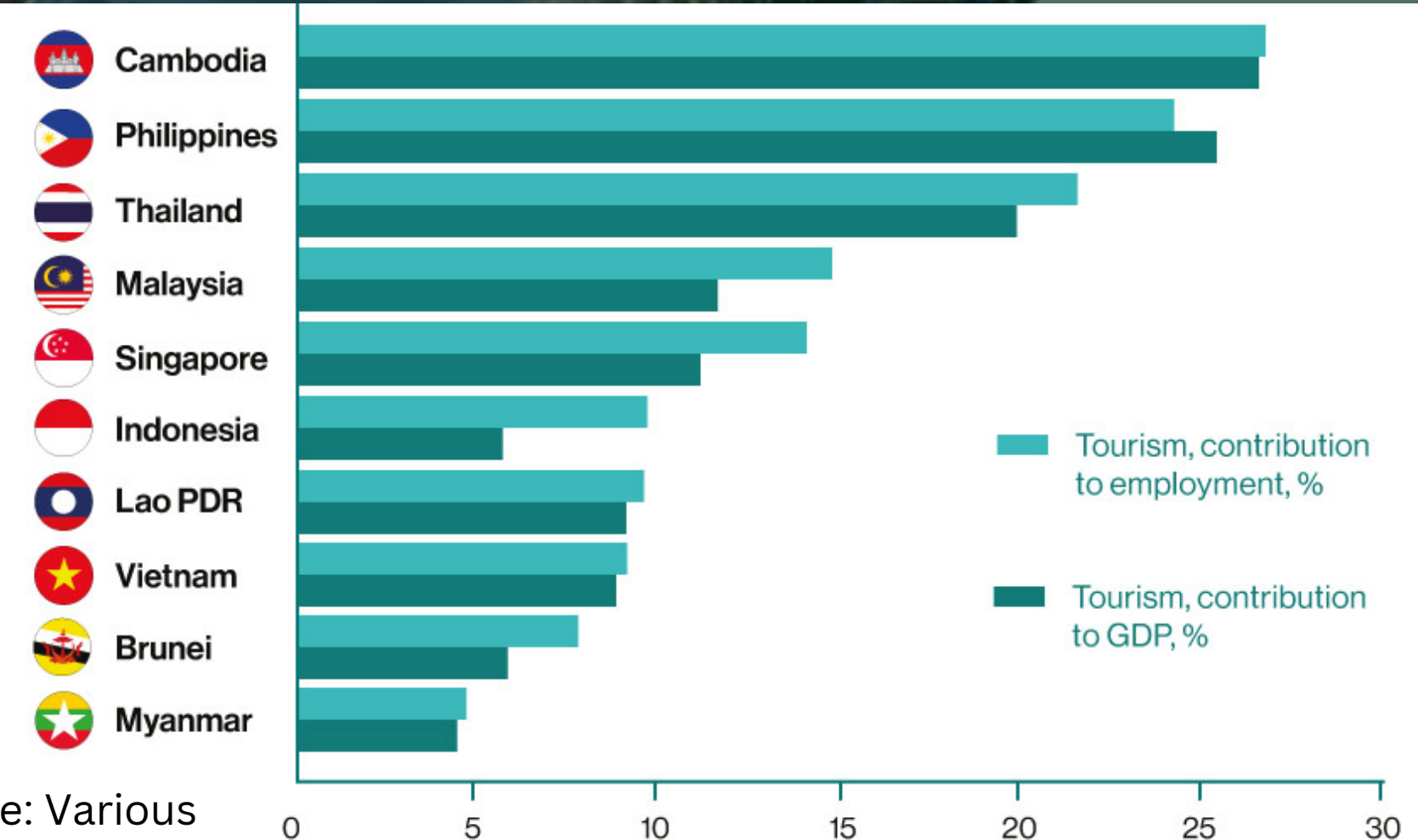
Tourist arrivals in the ASEAN region
from 2012 to 2022

Southeast Asia is one of the world's most popular tourist destinations; home to more than 30 World Heritage Sites (WHS)



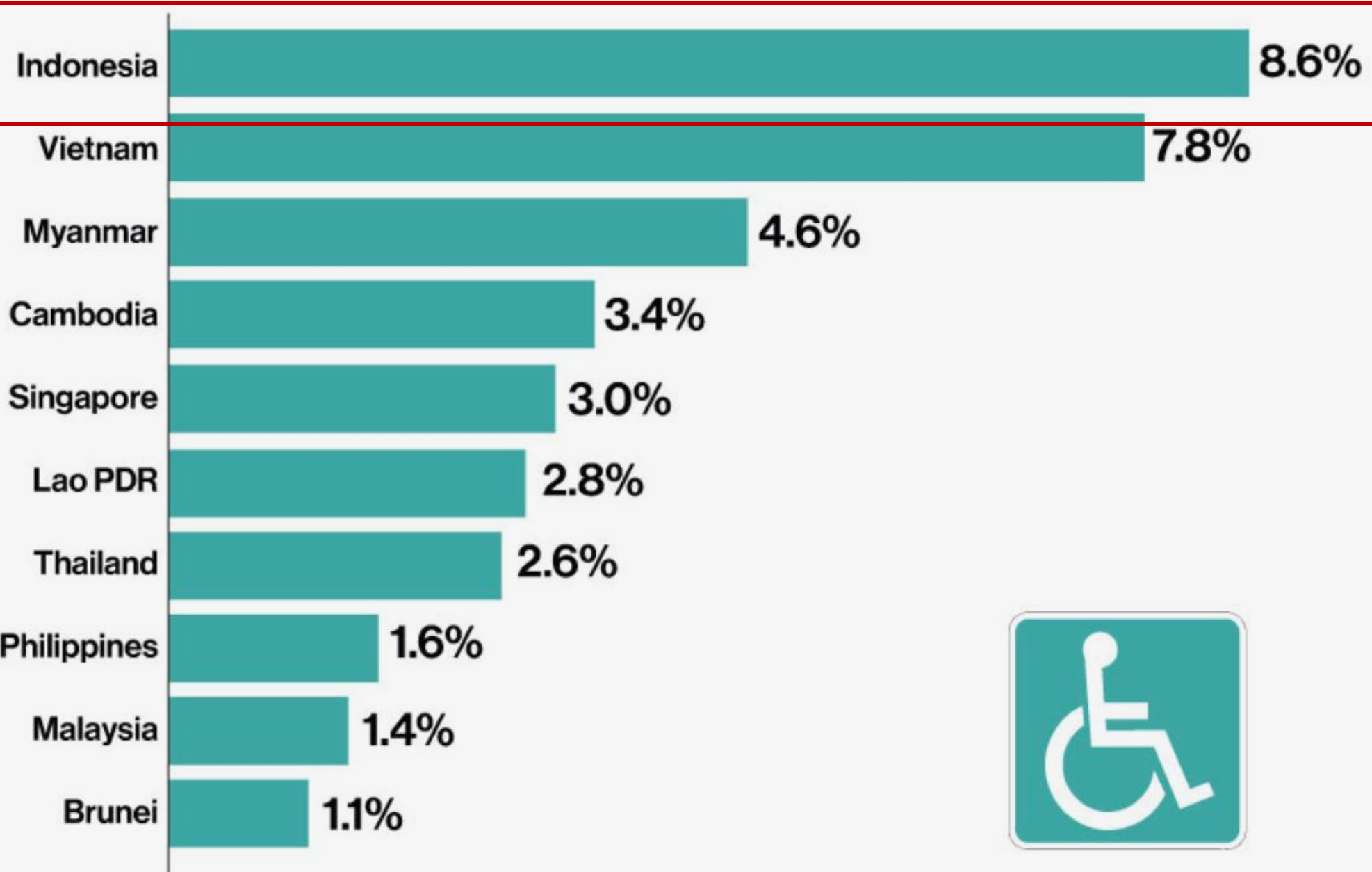
The ASEAN countries accounted for the largest number of visitors, with 1,099,109 arrivals

Tourism in ASEAN



Source: Various

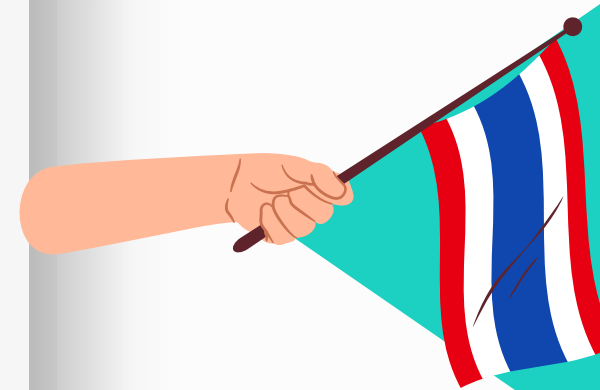
DISABILITY PREVALENCE IN SOUTHEAST ASIA



Source: theaseanpost.com

UN Department of Economic and Social Affairs found that a higher percentage of persons with disabilities are living under the national poverty line.

There are two aspects of progress that go hand-in-hand. Accessibility opens doors to education and employment.



Study case: Thailand reported that the country has a 20 to 90 percent non-compliance rate in terms of building accessibility for the disabled. This has trickled down to employment rates too, where 71.5 percent of persons with a disability were unemployed in 2018.



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OUR RECOMMENDATIONS

Let's explore how we can collaboratively
address these two problems.



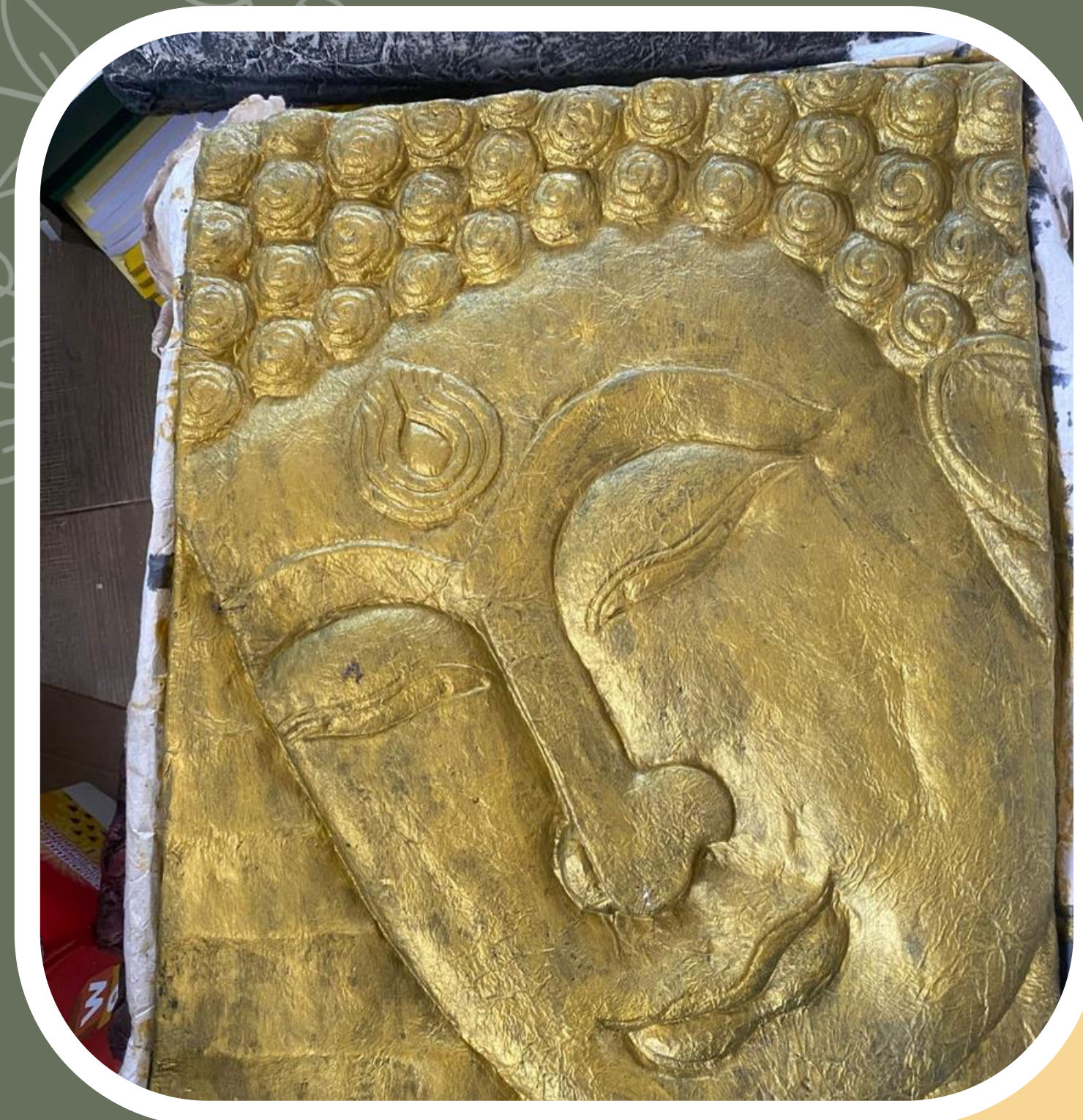


ASEAN DSE

LOCAL PRODUCTS

Clothes, Accessories,
Decoration items.....

We see that the local products have
sentimental values that can reach our
target group



Recommendation 1:

Eco-Crafts:



OUR OVERALL PROCESS



PROCESS

1

2nd hand market launching to be the donation center.

2

Bring the 2nd hand products to Disability Service Center
Local Ethnic Groups.

3

Our manufacturers:
The Disability Service Center and Local people up cycle into the new useful products.

4

Sell at the local souvenir stores

5

Sell in 'Eco-Crafts' application



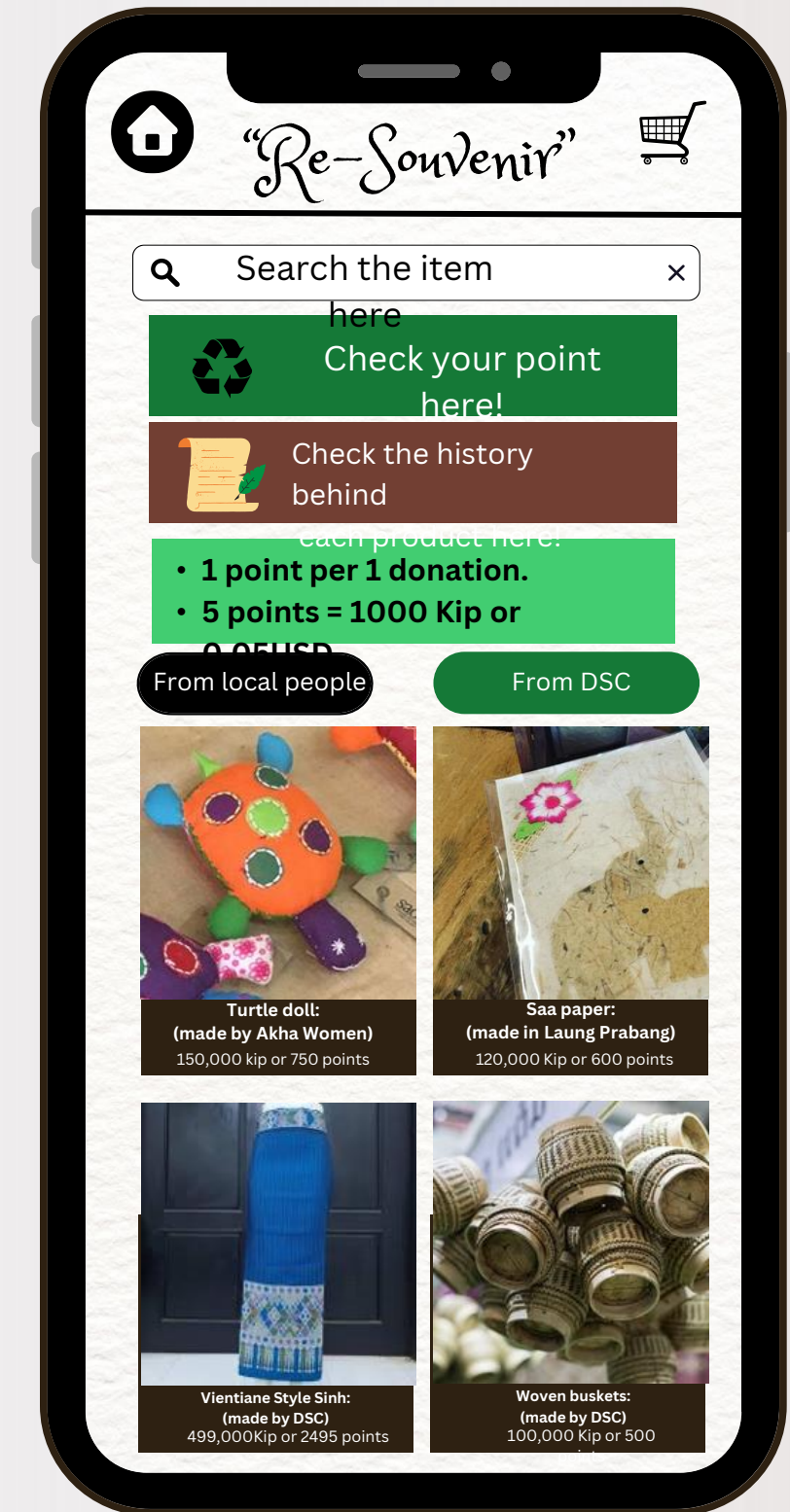
EVENT LAUNCHING

Launch the 2nd hand event at Village offices or Local temple to collect all the single-used products from consumers as well as separate the each type of waste item for our Upcycling partners.

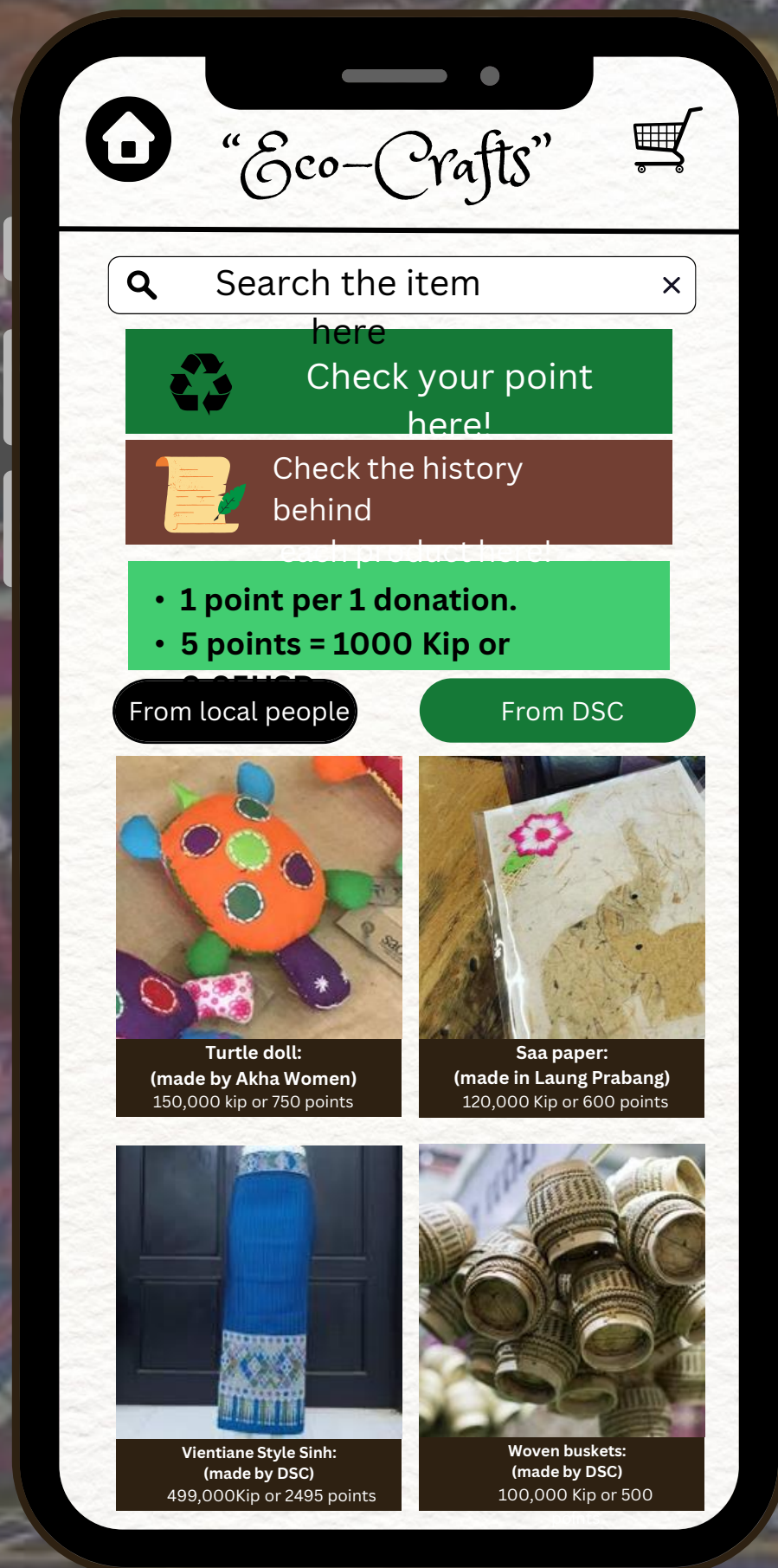


STORES:

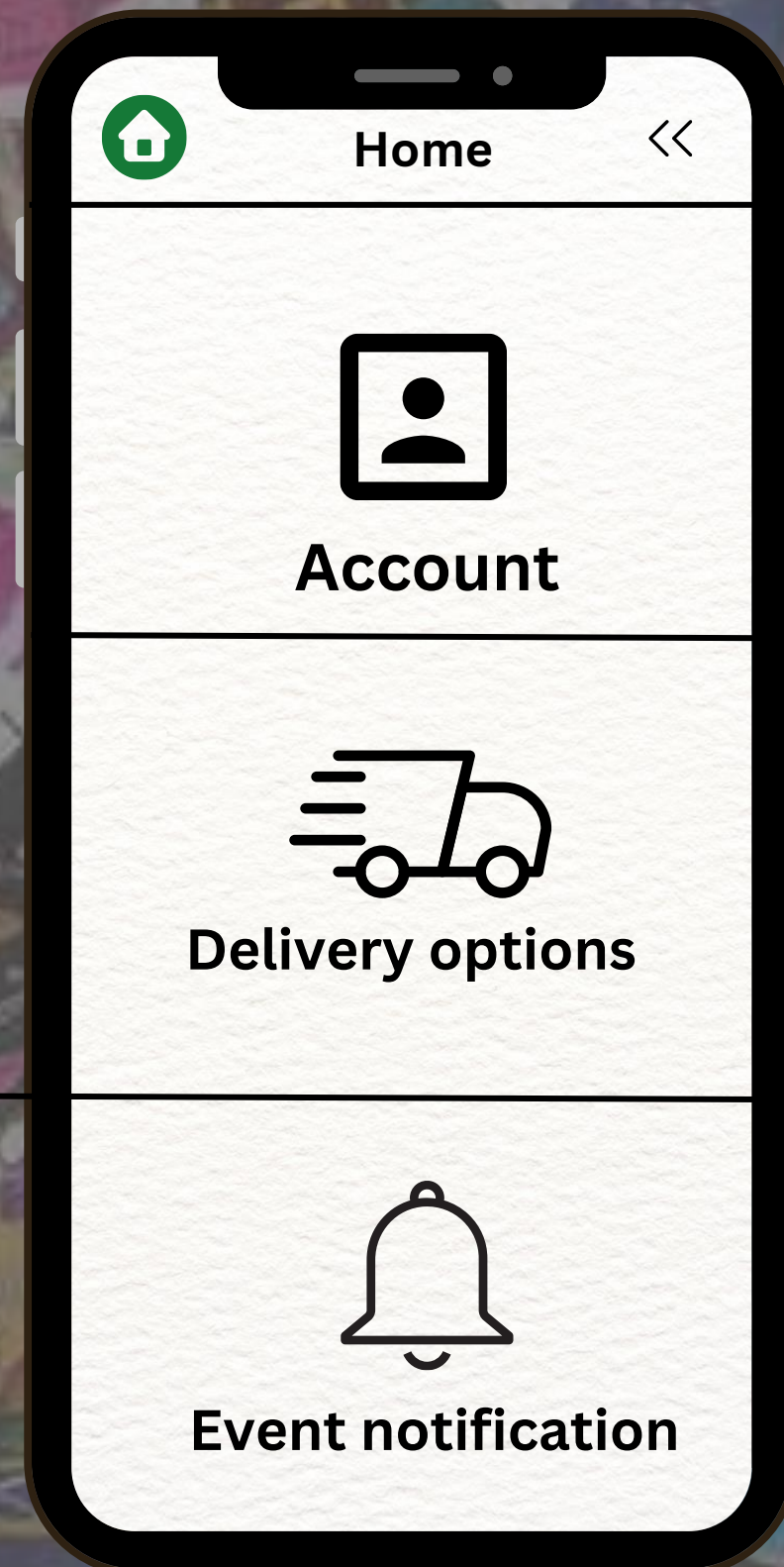
Promote our products by cooperating with local stores near the tourist attractions to make our products more accessible for visitors together with creating souvenirs shopping application.



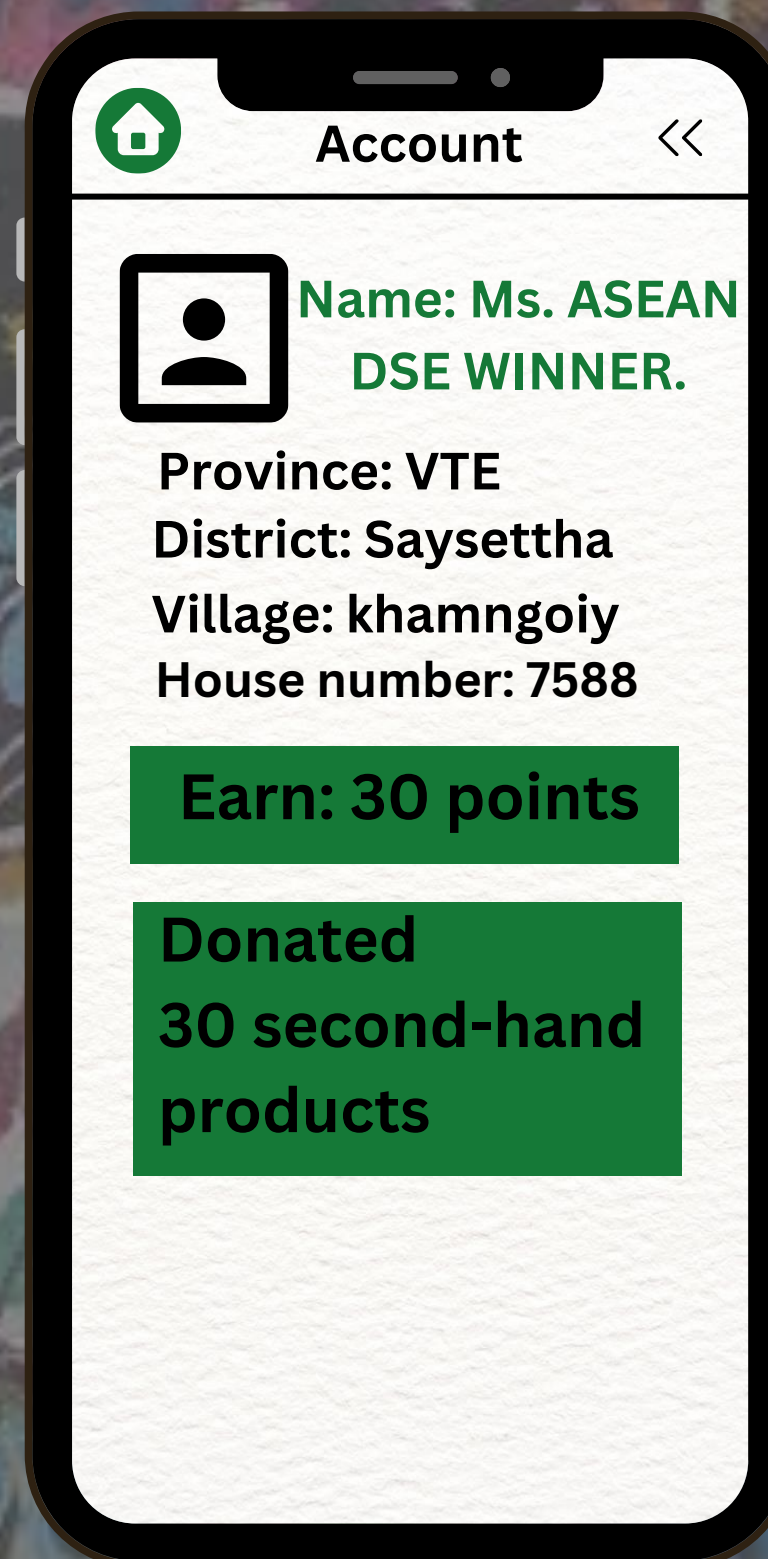
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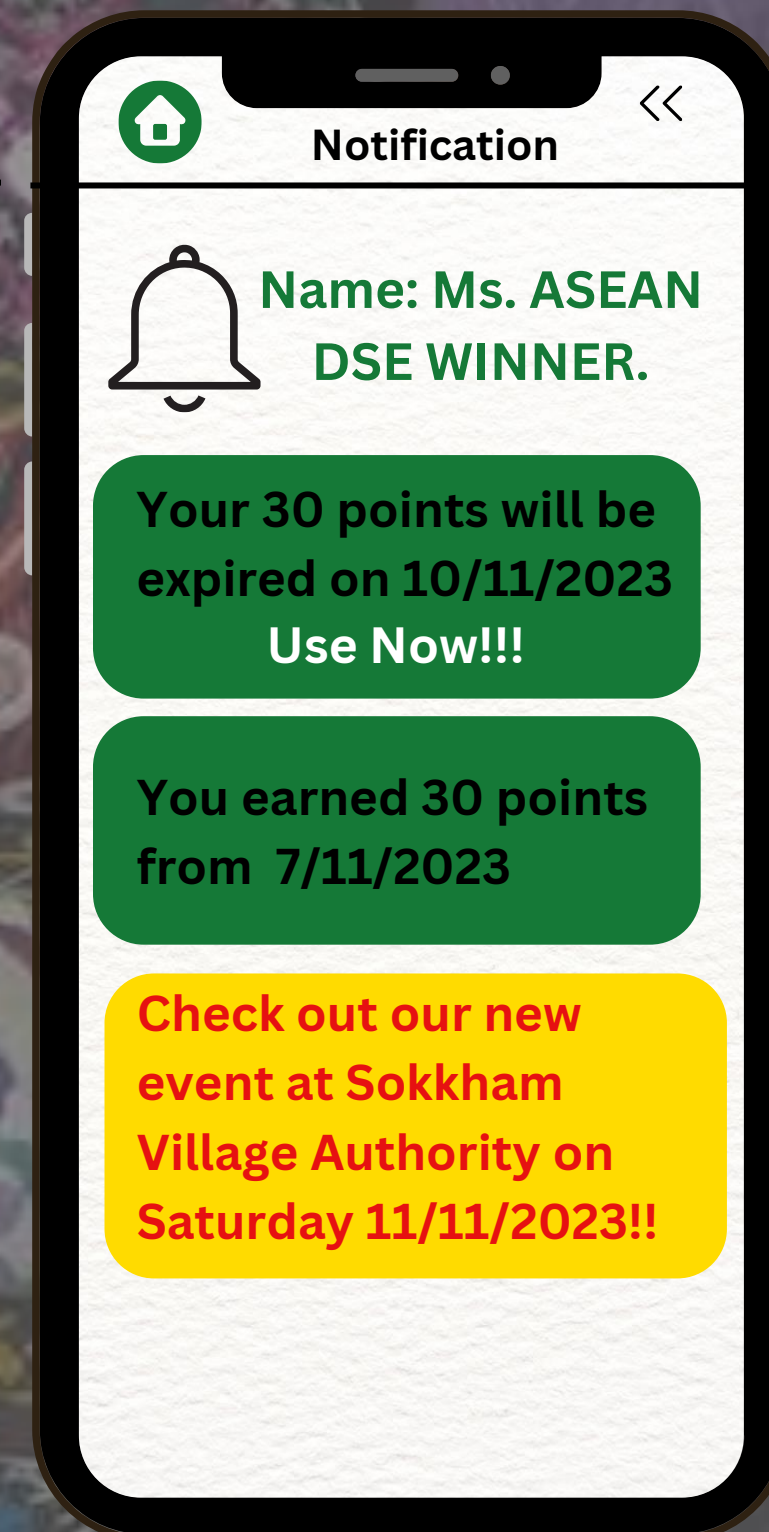
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3



4





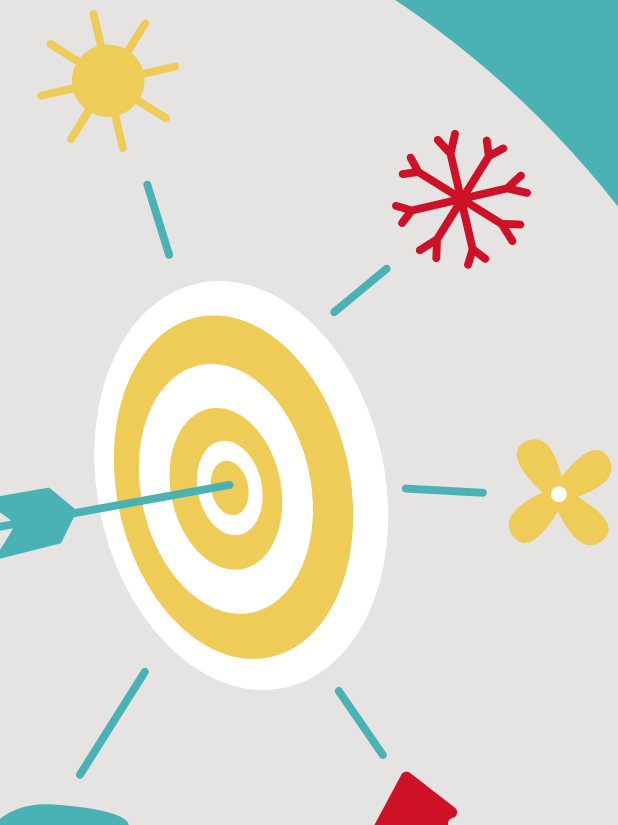
Eco-crafts Target Group



- **Tourists** that visit our country can buy our products from nearby stores.

- **International consumers** can order our products through application

- **Local People** who are interested in community support and are able to afford them.



Cooperation Plan



Business strategies



Estimation of tourists in Laos yearly:

1.000.000 people

(10% of them are 100.000)



For instance, our product costs \$2
10% of tourists=200,000\$ per year

We give 35% of this to our
manufacturers.

We will earn 65% or 130.000 \$ per
year

BUSINESS STRATIGIES

We earn 65% of the price= 130.000\$
We count 130.000\$ as 100% of
our profit(not net profit)



COMMISSION

Store

We give 20% of our commission to the stores where we sell our products.

Application and programme

we give 10% of our commission to our Application , programme developer and our data analysing team

Managing our company

15% for our team and to continue working and managing our projects.

Our net income is 71.500\$/ year

RECOMMENDATION2:

Boosting economic growth and responsible consumption rates

01

3R

Reduce, Reduce, Recycle

To increase the recycle rate and save landfill space by keeping useful materials out.

02



Consume the local product

To funneling money back into the community rather than ambiguous national chains and corporations.

03



Education

Organize activities to engage students about waste recycling

04



Entrepreneur

creating new jobs and opportunities, driving innovation, and developing new markets.

Implementation plan

Project Timeline



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2024 (preparation)

Make and design the program and develop it by professionals, Persuade organizations to become one of our Co-creators.

2025 (access to few provinces)

Promote our project on social media, Create the activity to acknowledge people inside and outside our community.

2026 (access to all provinces)

delegate our team to expend the center at the provincial area.

2028 (develop our project and seek new partnerships)

Seeking for new partner to develop our project.

2027 (expand our project to ASEAN)

Expand the project out to ASEAN to create a better community and sustainable development to the region.

BENEFITS



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Representing the traditions, beliefs, and values of a particular community. By keeping traditional crafts alive .

Helps to stimulate the local economy and keep business booming within local region.

Reduce the unemployment rate and ensuring that every individual has an equal opportunity to make the most of their lives and talents.

Reduce manufacturing costs by extending the lifespan of materials



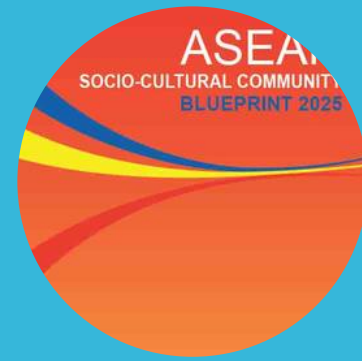
ASEAN PLAN OF ACTION
ON SCIENCE,
TECHNOLOGY AND
INNOVATION 2016-2025

Action 2.4
Action 1.4
Action 4.4
Action 1.1



ASEAN ECONOMIC
COMMUNITY
BLUEPRINT 2025

B.8 (iii)
C.5(iv)
B.4(iii)



ASEAN SOCIO -
CULTURAL
COMMUNITY
BLUEPRINT
2025

C.1(Vi)
C.1(vii)
C.3(i)
C.3(ii)



Target 12.4
TARGET 12.5



Target 8.4
Target 2.5
Target 8.9



Target
13.4
Target 13.5

**OUR OBJECTIVE IS TO OFFER GUIDANCE
THAT IS SUPPORTED BY WELL-FOUNDED
RECOMMENDATIONS IN**

**“WE Recycle what we use
Separating things and you should
Glass and paper, plastic, tin
Go in your recycle bin!”.**

Pathana School

CONTACT US



FACEBOOK:

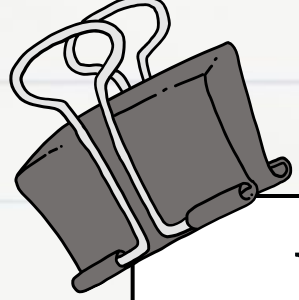
T'thip Knmv

Alisia Saphakdy



**“ECONOMIC
GROWTH DOESN'T
MEAN ANYTHING IF IT
LEAVES
PEOPLE OUT”.**





Reference

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