

Critical Overview on the United Nation Human Development Index

Were these countries actually "Developing?"

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What is the HDI and why should we care ?

in 1990, The United Nations Development Program have set an index called the Human Development Index “HDI” to measure the development and life quality in each country on detailed attributes within three main aspects of human life: Health, Education and Income.

The importance within this index relies on the fact that it sets the role models countries for other countries to follow its policies and guidelines in order to achieve the same level of development as well



Countries with increase HDI vs decrease HDI



97% Increased

3% Decreased

ENVIROMENTAL



SAFTEY



ECONOMIC

My First theory states that :

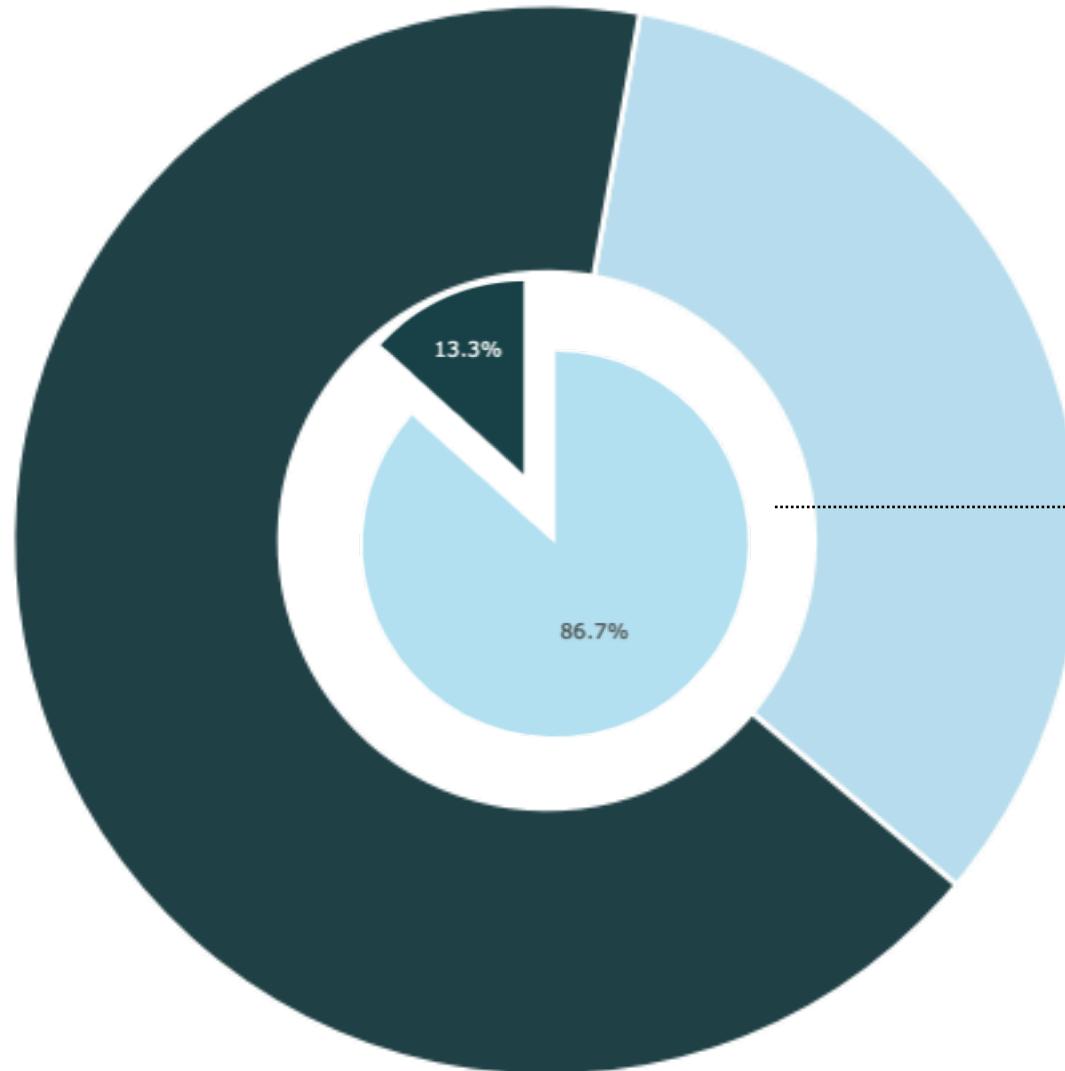
NOT every country that INCREASED in it HDI will contribute POSTIVILY with Environmental health.

Especially the Arabic countries.

PM2.5 pollution:

- The term particulate matter 2.5 ($\text{pm}_{2.5}$), refers to tiny particles or droplets in the air that are two and half microns, these size range can travel deeply into the respiratory tract, reaching the lungs and cardiovascular system.
- - Scientists have revealed a significant correlation between fine particle pollutants and respiratory morbidity and mortality
- - A prolonged exposure to PM2.5 can cause permanent respiratory problems such as asthma, chronic bronchitis and heart disease.
- As every 10ug/m3 increase in pm 2.5, increases all-cause mortality between 3-26%, chances of childhood asthma by 16%, chances of lung cancer by 36% and heart attacks by 44%.

Percentage of countries regarding their behavior towards PM2.5



66.9% Decreased

13.3%

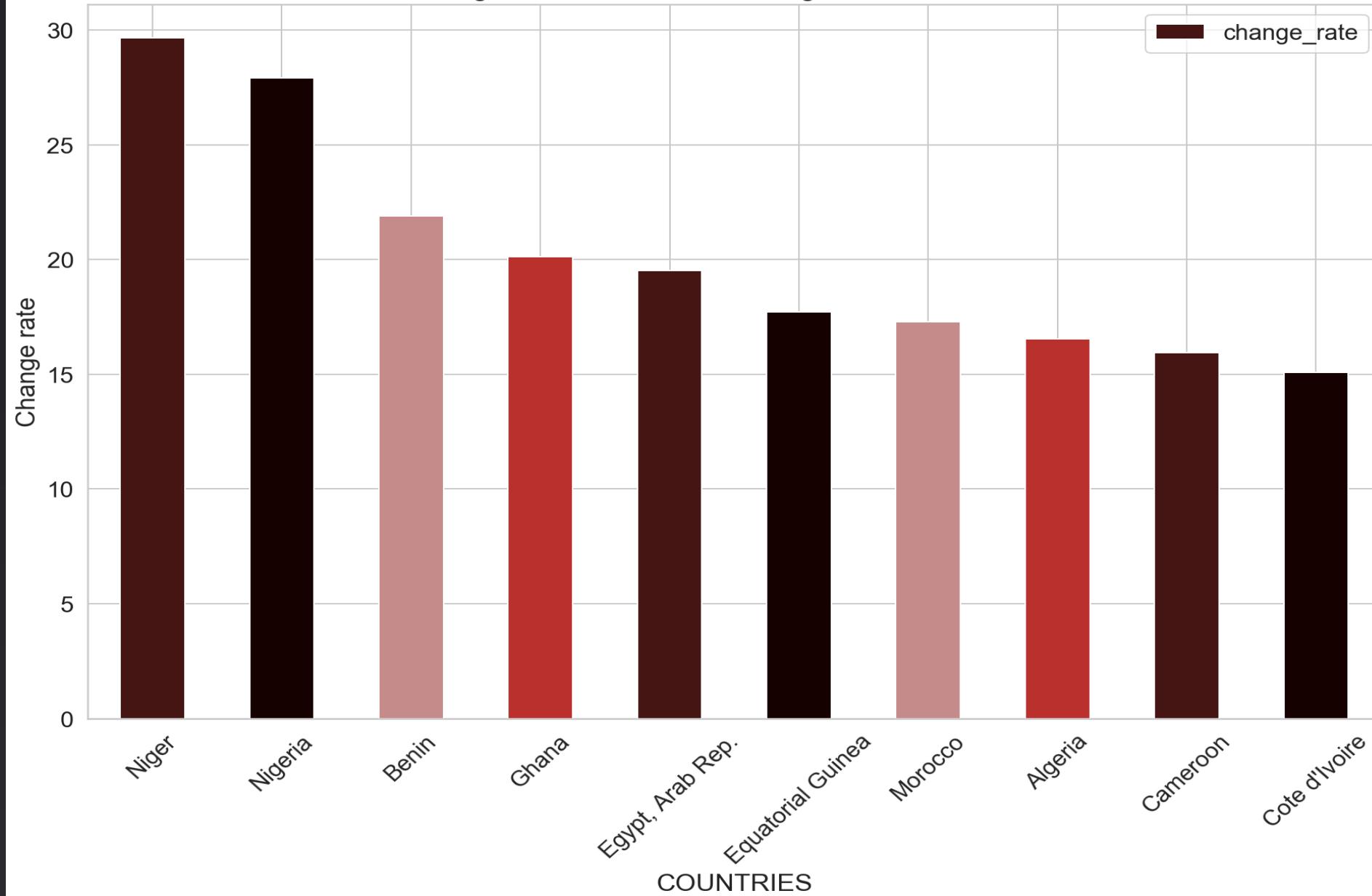
86.7%

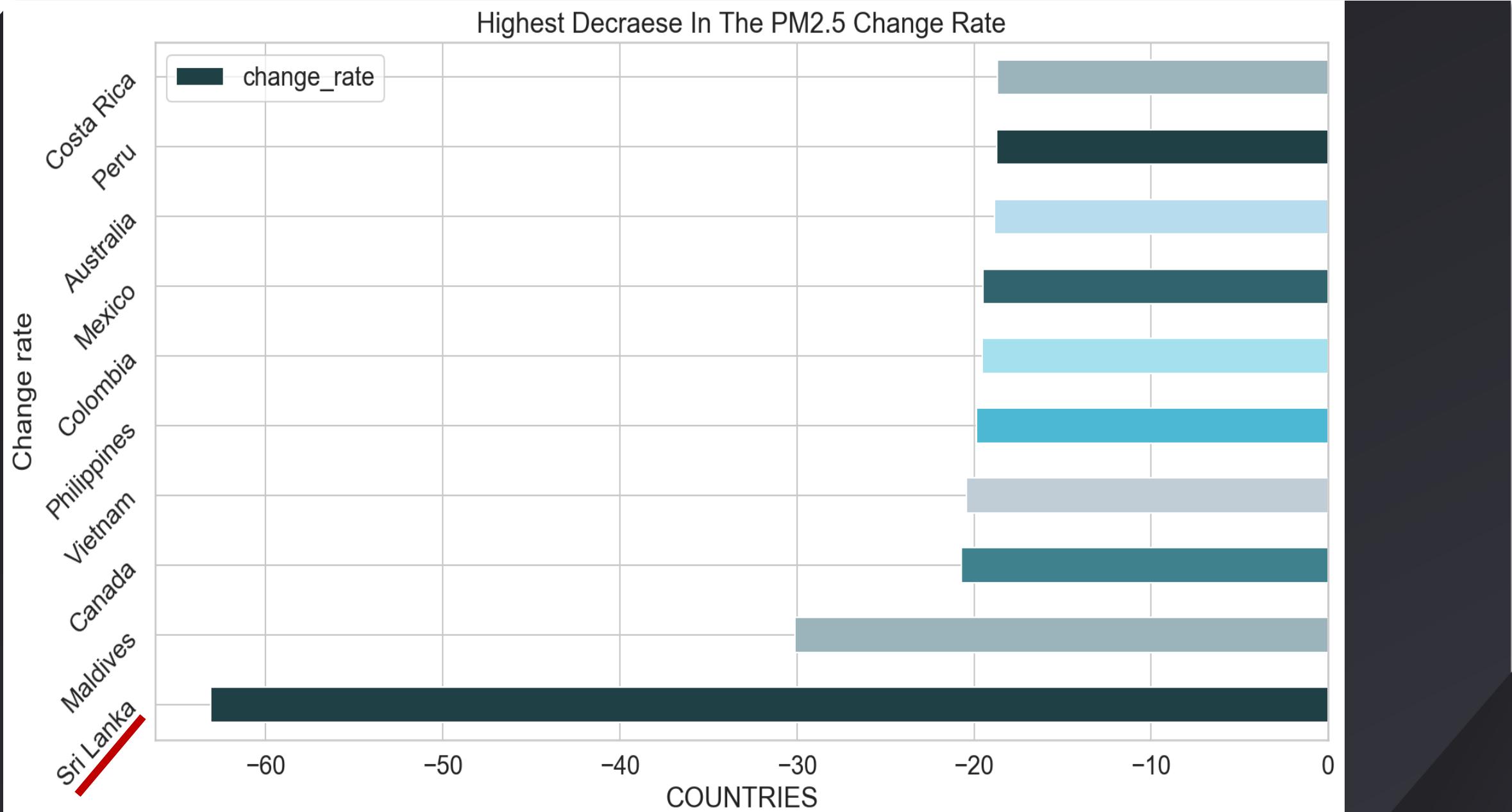
33.0% Increased

Arabic

86% Of the Arabic
countries presented
in the data

Highest Increased In The Change Rate Of PM2.5





Theories findings checklist !

Theories	First : Environmental		
Findings :	<ul style="list-style-type: none">• 33 % increased against 66% decreased• 86% of the Arabic countries fall in the increasing pm2.5 rate category		
Matches the statement ?	<ul style="list-style-type: none">• Yes		
Intervention of further research	<ul style="list-style-type: none">• -Find out why the Arabic countries have a disappointing behavior towards the Environmental health.• - Identify the suitable country that decreased its pm2.5 rate in order to see how to apply its method of controlling pm2.5 rate in Saudi Arabia.		

ENVIROMENTAL

66%

Security

ECONOMIC

My Second theory states that :

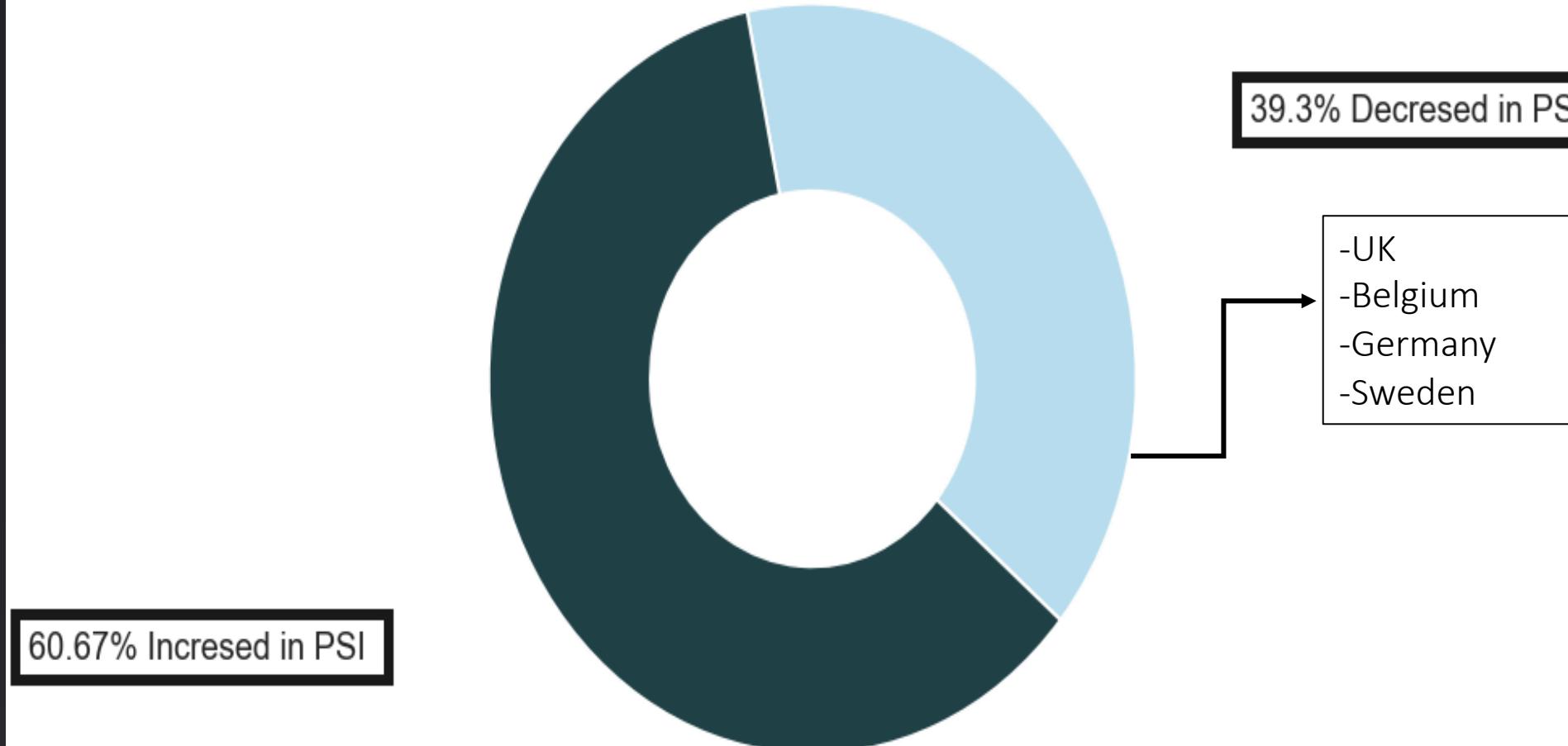
NOT every country that INCREASED in it HDI, will contribute POSTIVILY with Security felt.

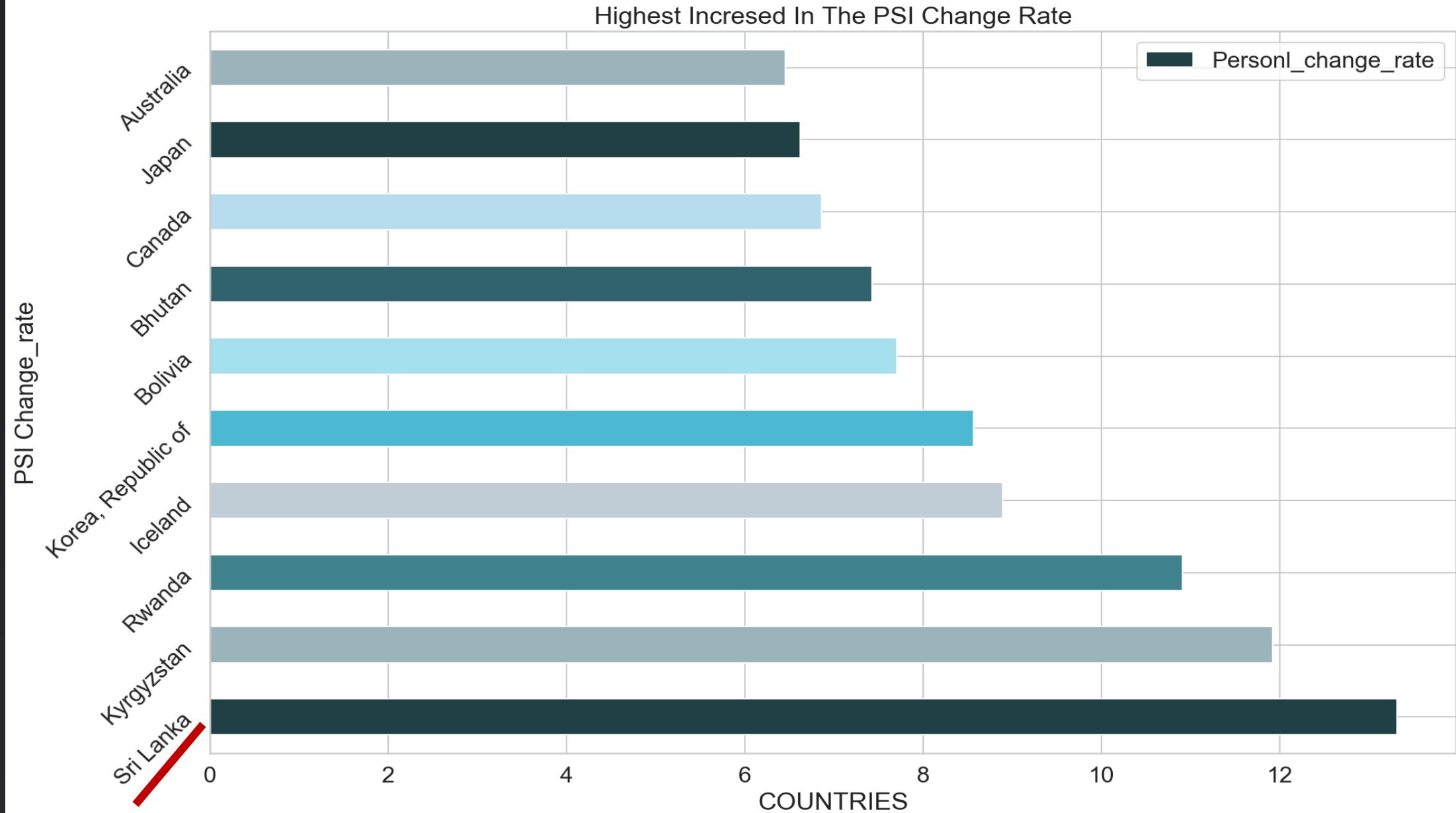
Personal Safety index:

-The personal safety index is a percentage that measures the overall scores of Homicide rate, Perceived criminality, Political killings and torture, Traffic deaths.

This index is developed by The Social Progress Imperative - Washington, DC.

Percentage of countries regarding their behavior towards PSI





Theories findings checklist !

Theories	First : Environmental	Second : Security	
Findings :	<ul style="list-style-type: none">• 33 % increased against 66% decreased• 86% of the Arabic countries fall in the increasing pm2.5 rate	<ul style="list-style-type: none">• 60.6 % increased against 39.3% decreased	
Matches the statement ?	<ul style="list-style-type: none">• Yes	<ul style="list-style-type: none">• Yes	
Intervention of further research ?	<ul style="list-style-type: none">• -Find out why the Arabic countries have a disappointing behavior towards the Environmental health.• - Identify the suitable country that decreased its pm2.5 rate in order to see how to apply its method of controlling pm2.5 rate in Saudi Arabia.	-were their new guidelines and rules implemented ? Find them out .	

Lost human investment .
.....

Estonia

0.86

70

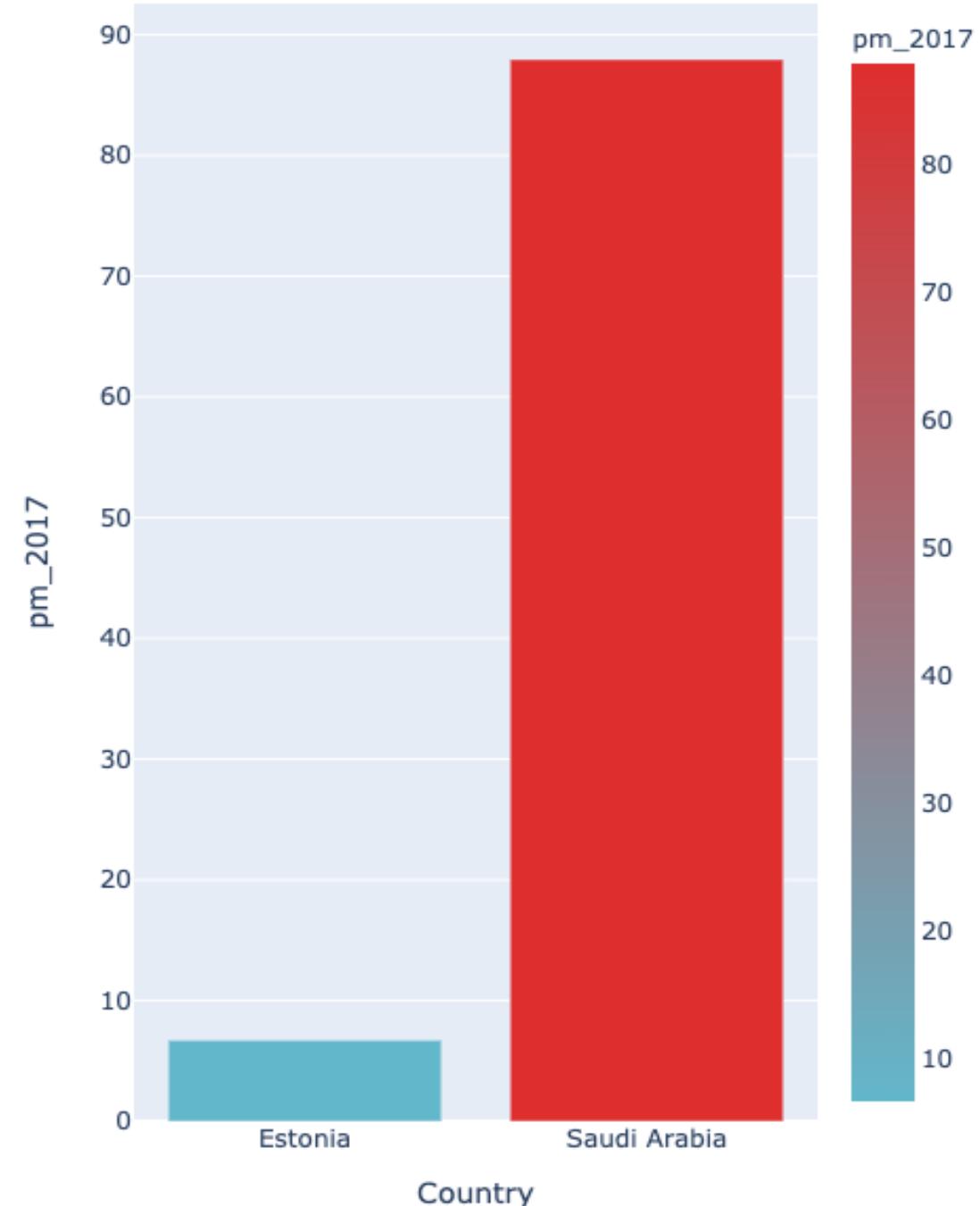
Saudi Arabia

0.85

70

Will they age up equally -healthy ?

PM 2.5 mean annual exposure in 2017



Accumulating Financial burden

80,000 USD per person, per year.
84,640,000 USD

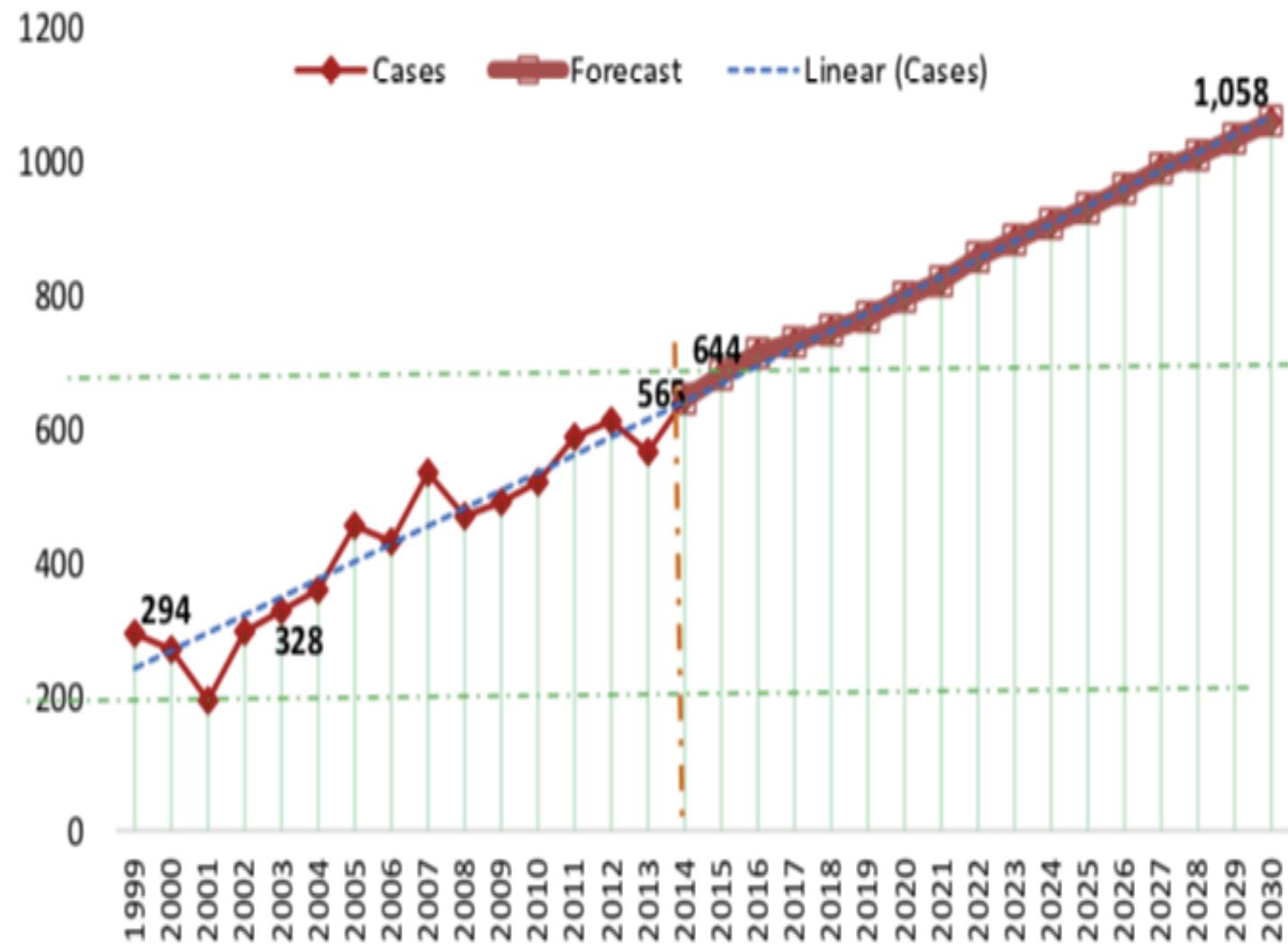


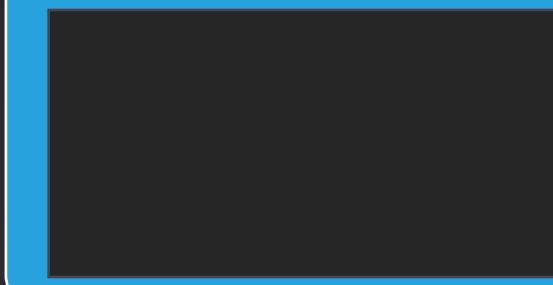
Figure 1 Lung cancer cases (1999–2013), trend, and forecast (2014–2030) in Saudi Arabia. The cases were summarized from the national-level cohort report utilizing data from the Cancer Registry of Saudi Arabia. The figure depicts a line that best fits the data.

ENVIROMENTAL

66%
→

Security

60%
→



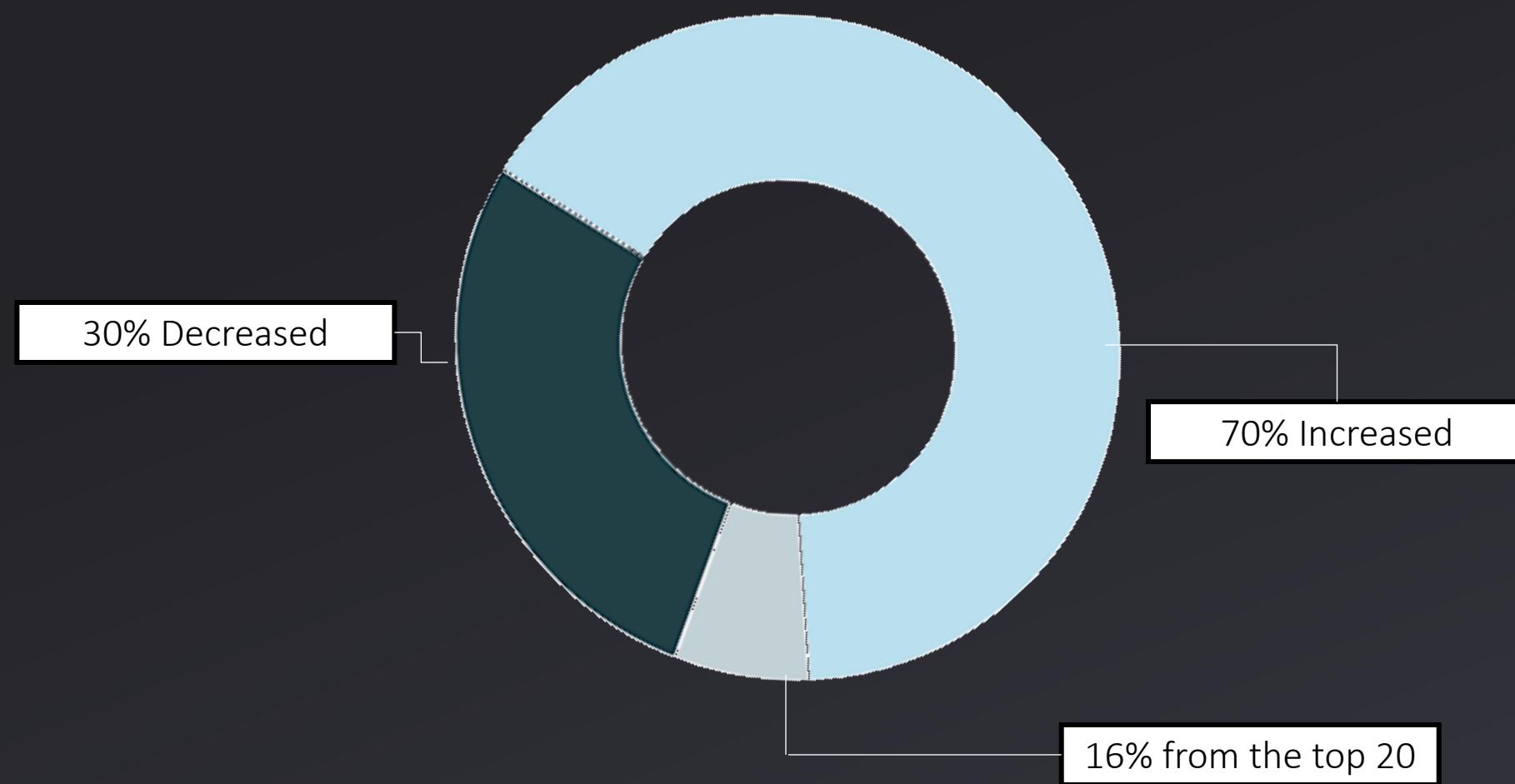
My third theory state that:

- Not all the countries that managed to keep up it HDI, maintain good improvement and renovations, will contribute positively with economic health.

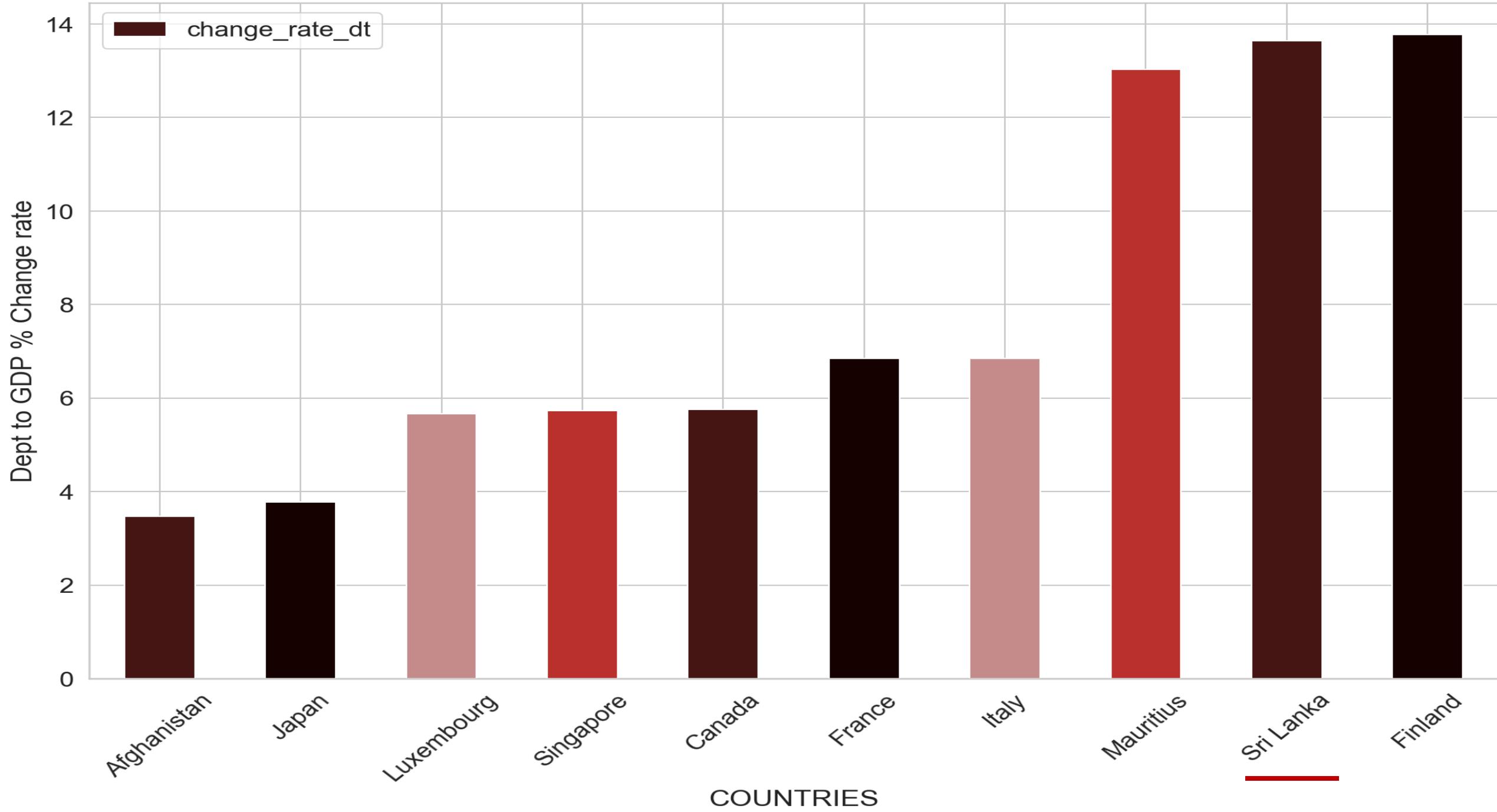
Debt-to-GDP%:

- The debt-to-GDP percentage is the metric comparing a country's public debt to its gross domestic product (GDP).

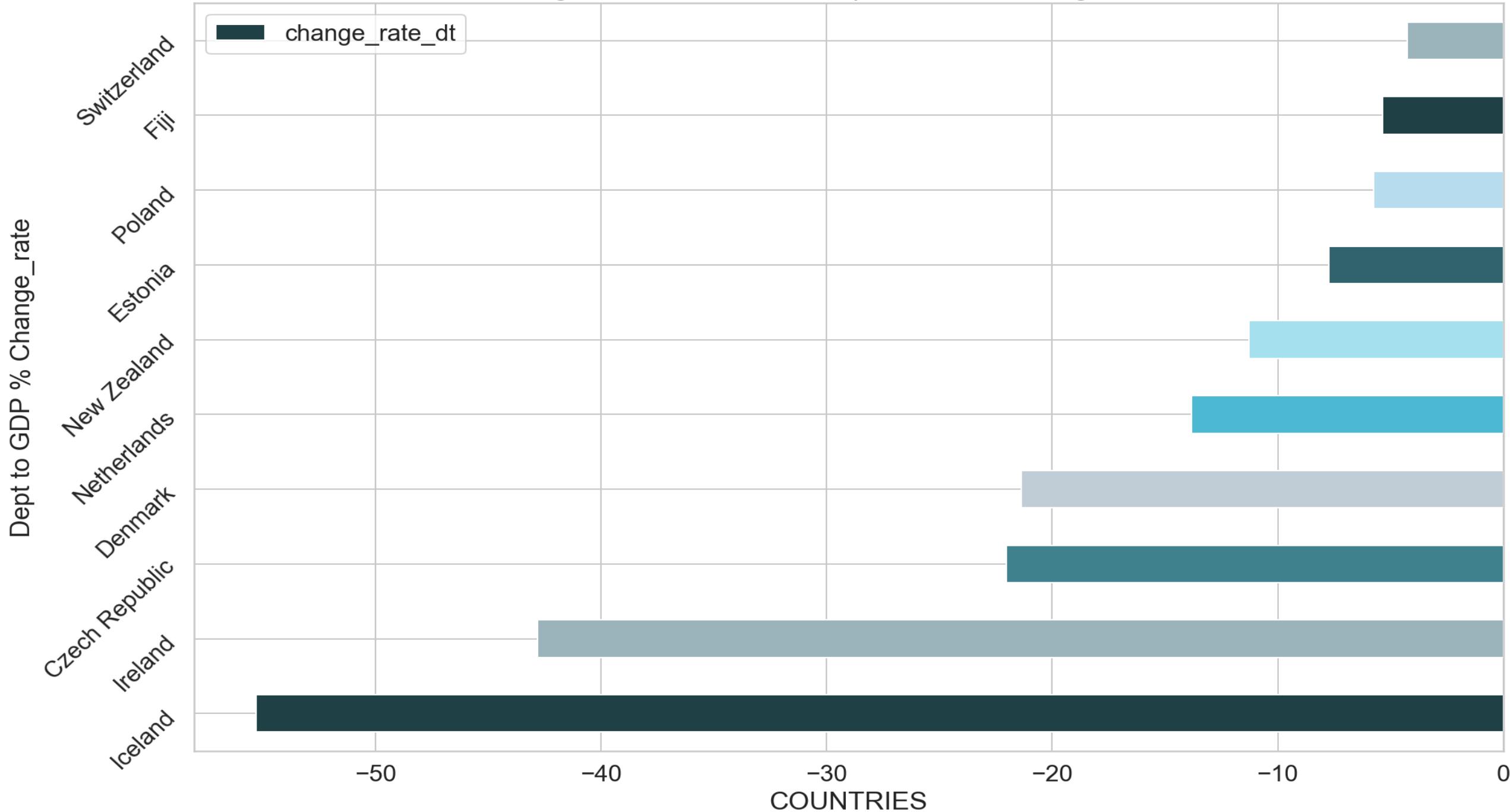
Percentage of countries regarding their behavior towards Dep-to-GDP%



Highest Increase In The Dept to GDP % Change Rate

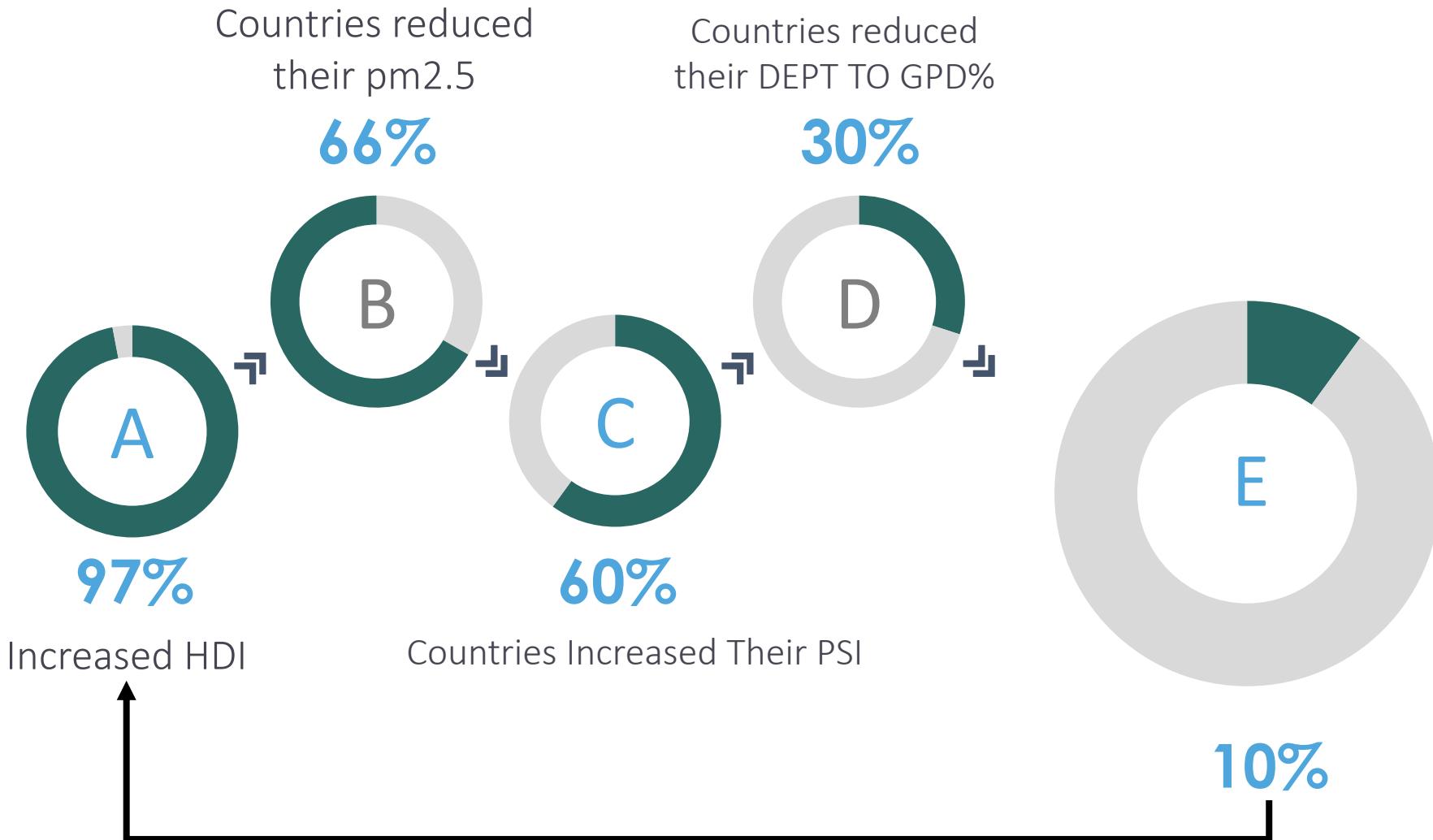


Highest Decrease In The Dept to GDP % Change Rate

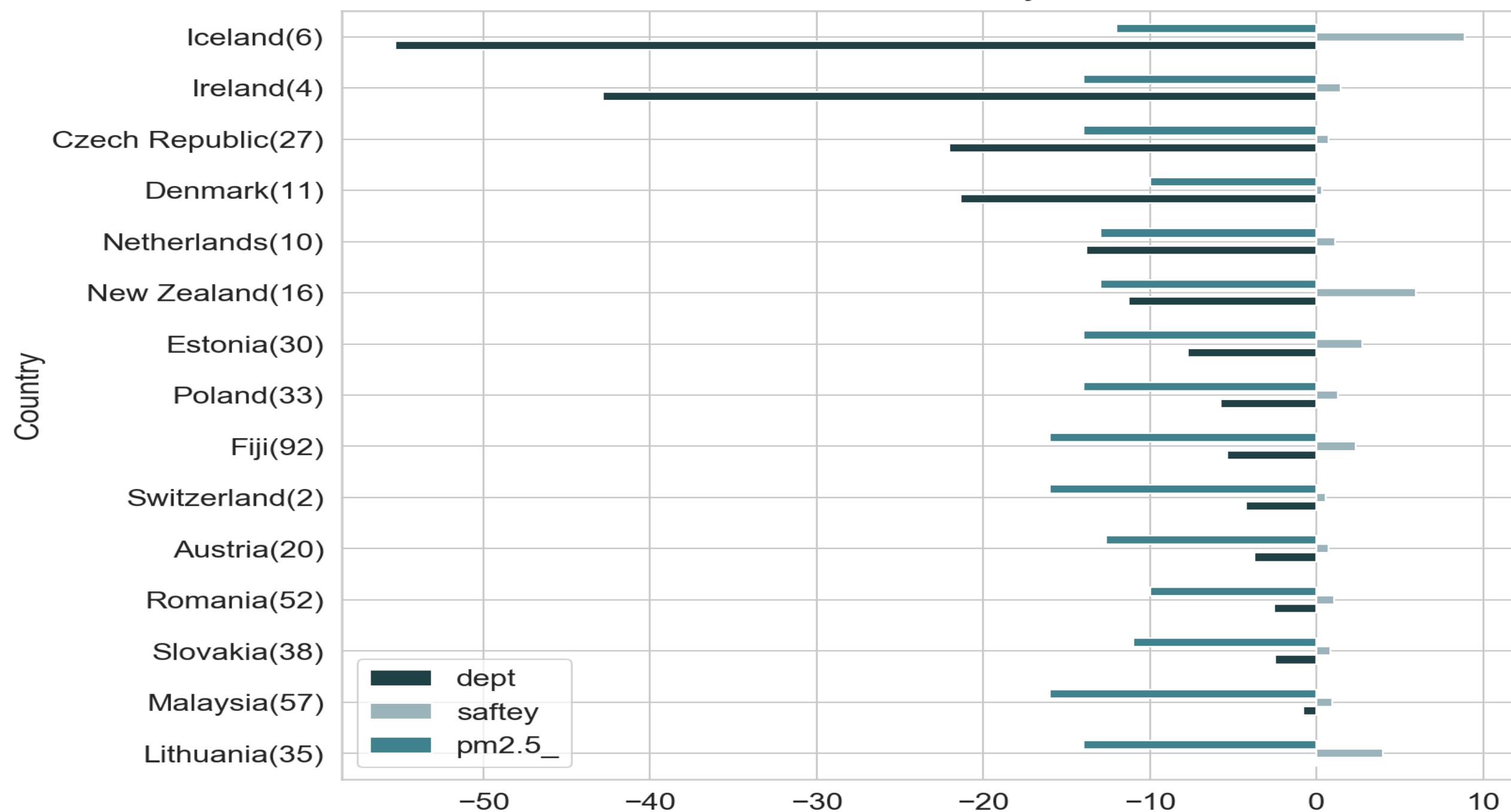


Theories findings checklist !

Theories	First : Environmental	Second : Security	Third : Economy
Findings :	<ul style="list-style-type: none">• 33 % increased against 66% decreased• 86% of the Arabic countries fall in the increasing pm2.5 rate	<ul style="list-style-type: none">• 60.6 % increased against 39.3% decreased	<ul style="list-style-type: none">• 70% Increased against 30% decrease
Matches the statement ?	<ul style="list-style-type: none">• Yes	<ul style="list-style-type: none">• Yes	<ul style="list-style-type: none">• Yes
Intervention of further research ?	<ul style="list-style-type: none">• -Find out why the Arabic countries have a disappointing behavior towards the Environmental health.• - Identify the suitable country that decreased its pm2.5 rate in order to see how to apply its method of controlling pm2.5 rate in Saudi Arabia.	<p>-were their new guidelines and rules implemented ? Find them out .</p>	<ul style="list-style-type: none">• -was the policies countries followed to decrease change rate affected the people?-taxes revenues-



Countries with healthy behavior



Conclusion:

- The HDI generally doesn't pay attention to the behavior of countries regarding Environmental, security and economic health, it doesn't necessarily reflect the prolonged life quality.
- This is a starting point project for a series of other researches aiming to identify and search for the healthiest countries managing a positive behavior policies in order to implement them locally.



A large, semi-transparent blue diamond shape is positioned in the upper left quadrant of the image, partially overlapping the city grid. A smaller, solid blue rectangle is located at the bottom center of the image.

THANK YOU