



Sustainable Education



Pedro Silva
15th July, 2022

Agenda

I – Sustainability: An Overview

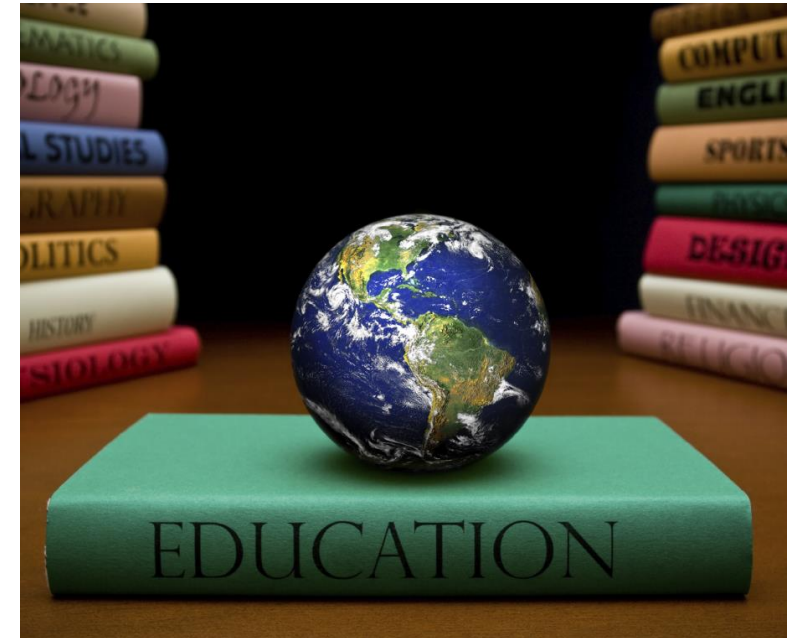
II – Sustainable Education – The Portuguese Example

III – Questions this study is answering

- ✓ Question 1
- ✓ Question 2
- ✓ Question 3

IV – Conclusions

V – Recommendations



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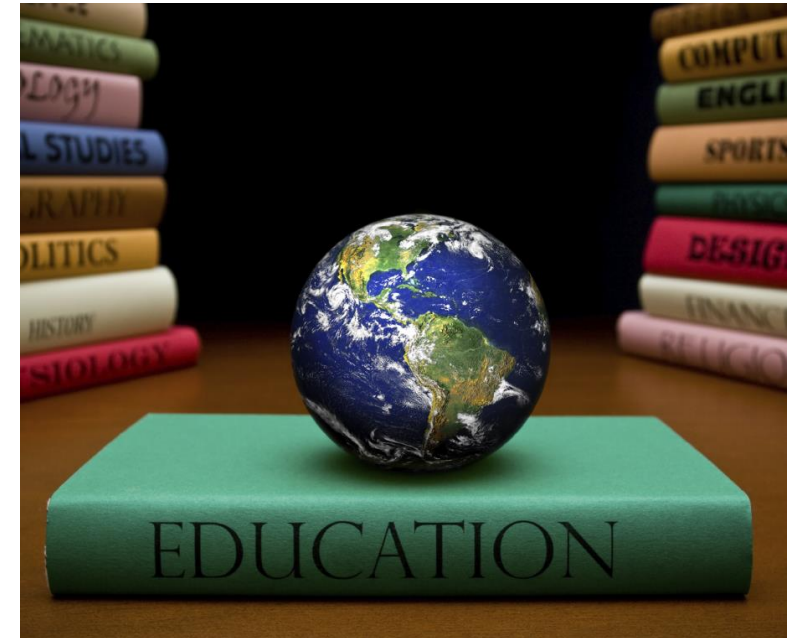
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Why is education so important?



4 QUALITY EDUCATION



Meritocracy (equal opportunities)

Ignorance undermines Democracy

Fight Fake News

Tolerance

Civism

Digitalization & re-skilling

Sustainable Development



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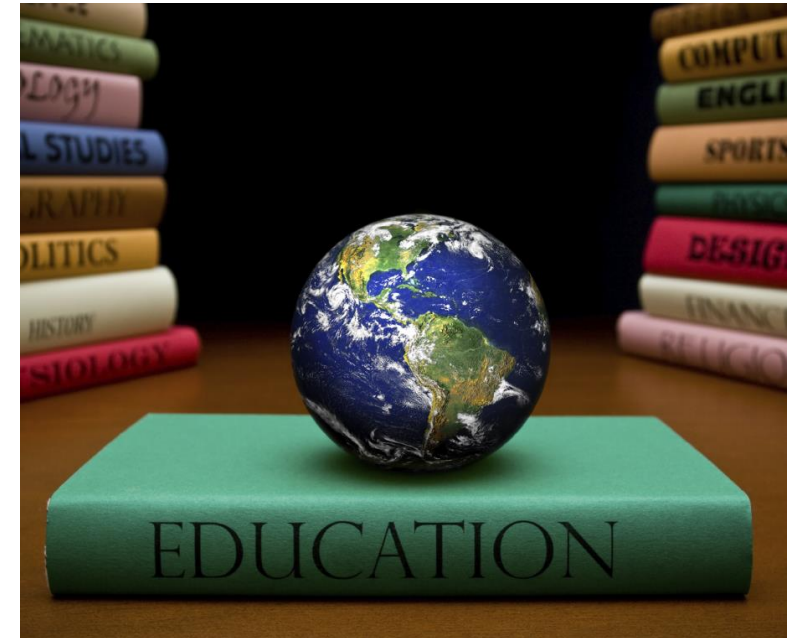
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PRINCIPLES OF SUSTAINABLE EDUCATION

- **DIGITALIZATION (Industry 4.0)**
- **No one left behind**
- **A children's future should not depend on his/her economic background**



TAKING THE PORTUGUESE EXAMPLE



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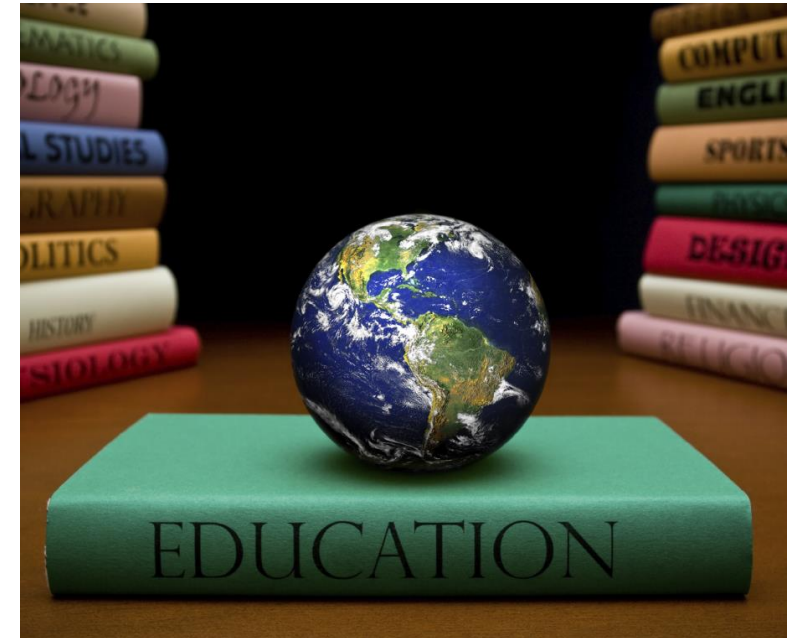
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Great Schools in Portugal, but is the access to those schools fair enough?



- **Questions1:** Do schools located in non-coastal regions require more support ?
- **Questions2:** Is the academic success of a child significantly influenced by the economic health of the family ?
- **Questions3:** Are the school's Rankings too dependent from the absolute grades of the children?



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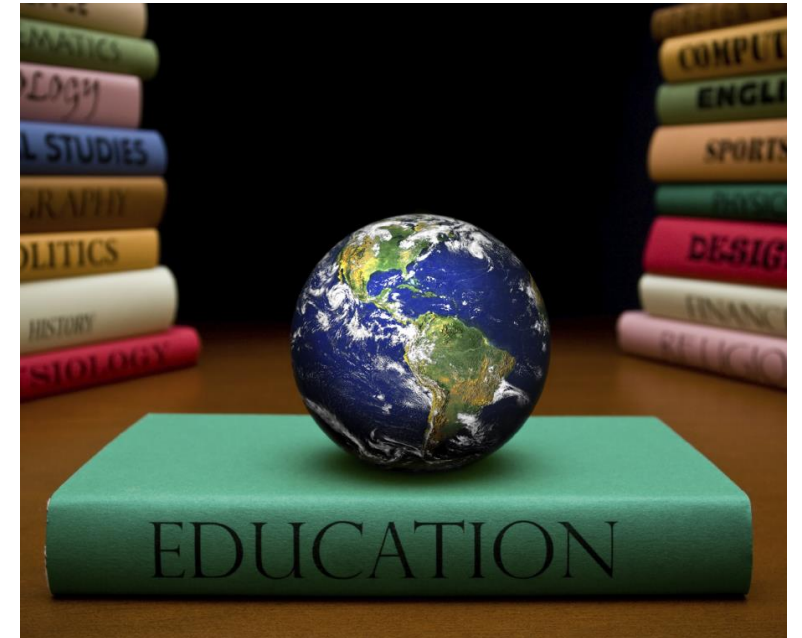
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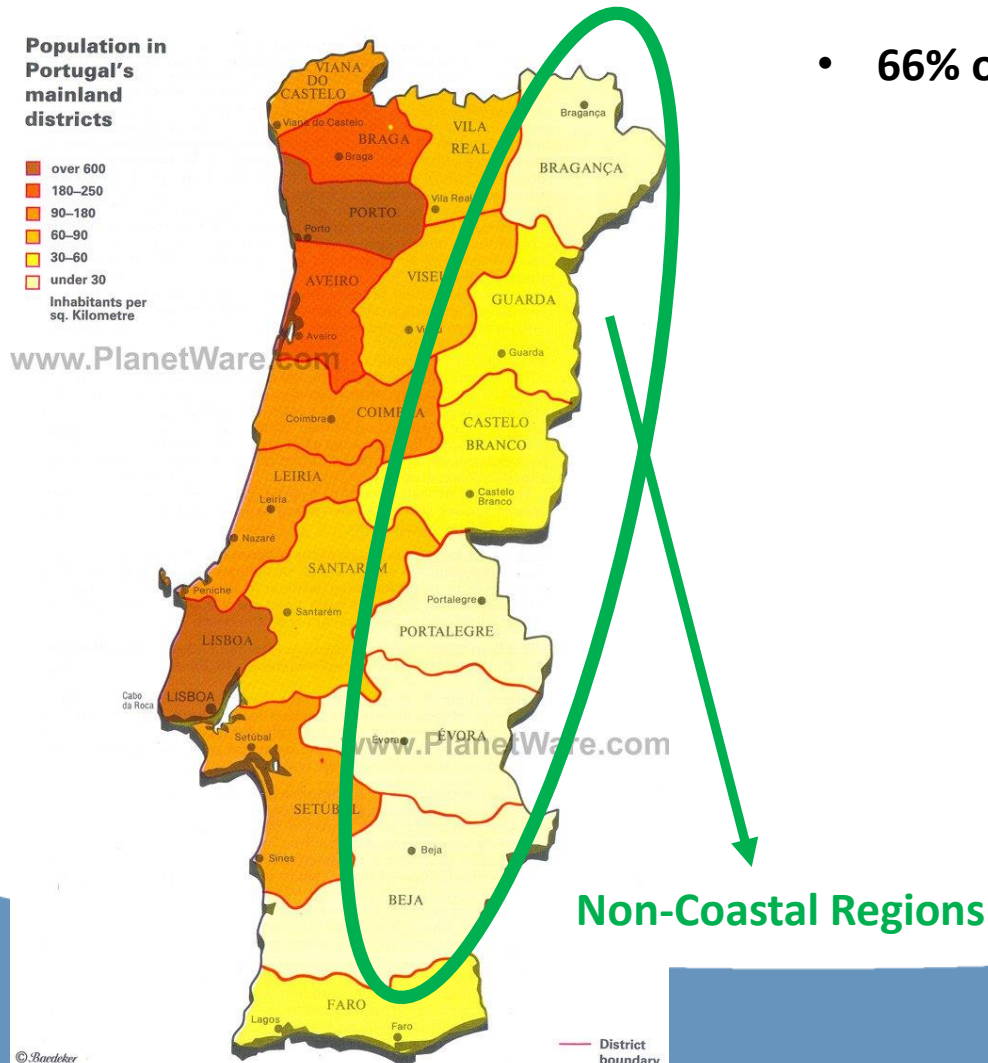


QUESTION 1:

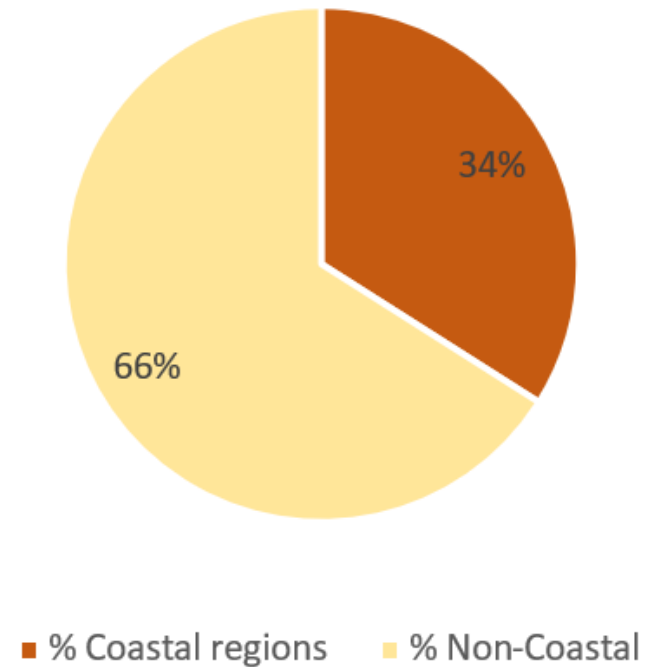
Do schools located in non-coastal regions require more support ?

Answer : Yes

- 1/3 of the Districts shows negative grades
- 66% of the districts with negative Grades are non-coastal



Districts with negative grades



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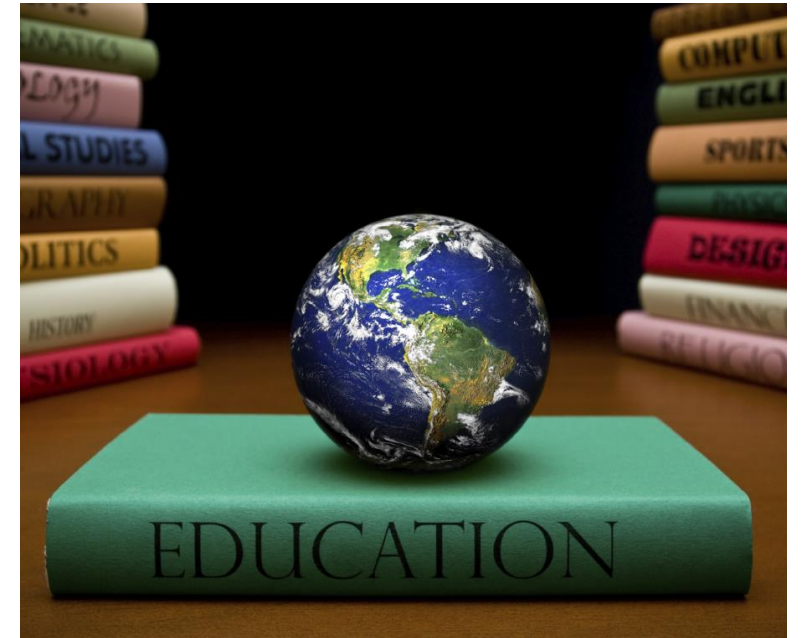
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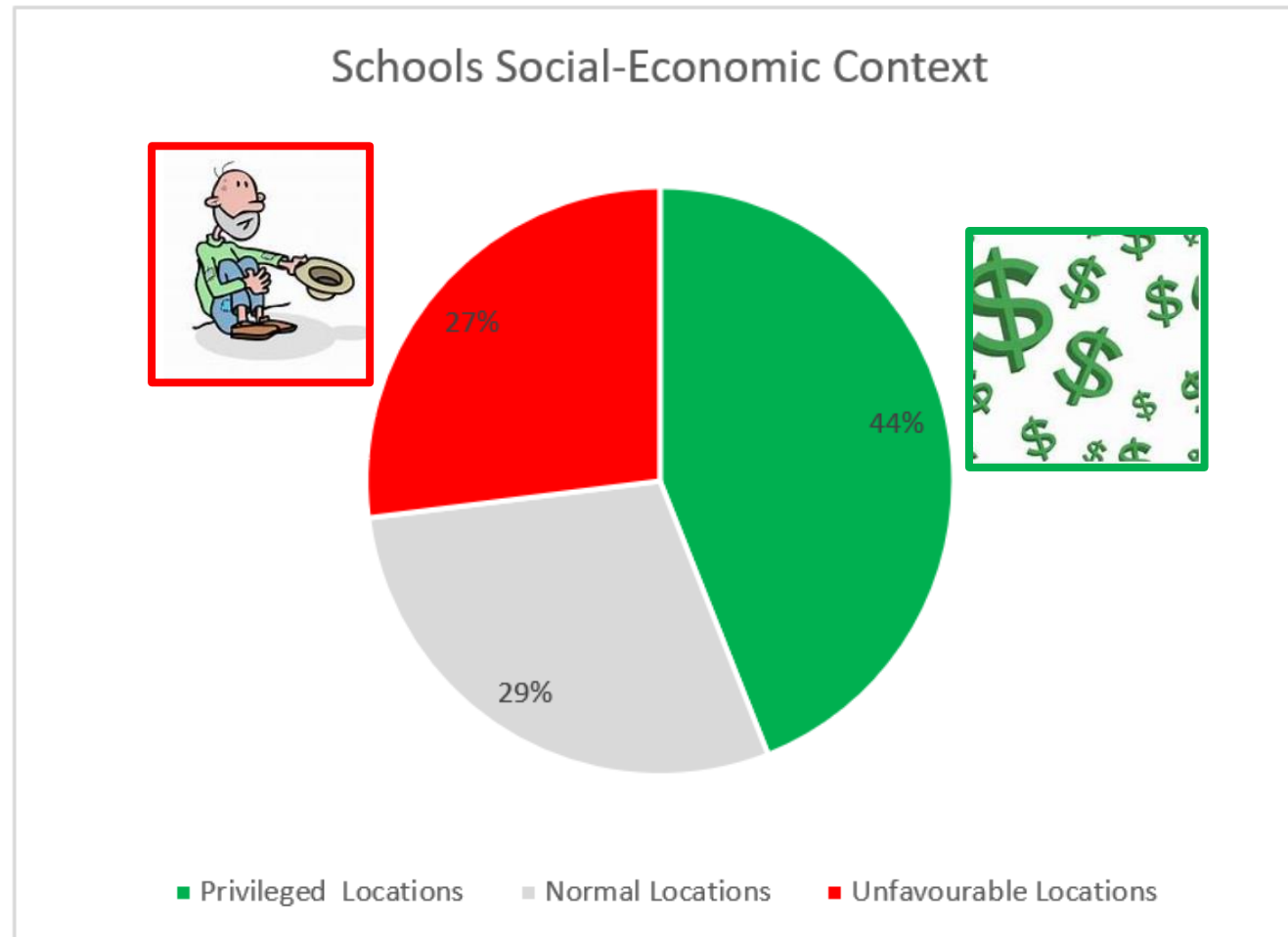
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QUESTION 2:

Is the academic success of a child significantly influenced by the economic health of the family ?

Answer :

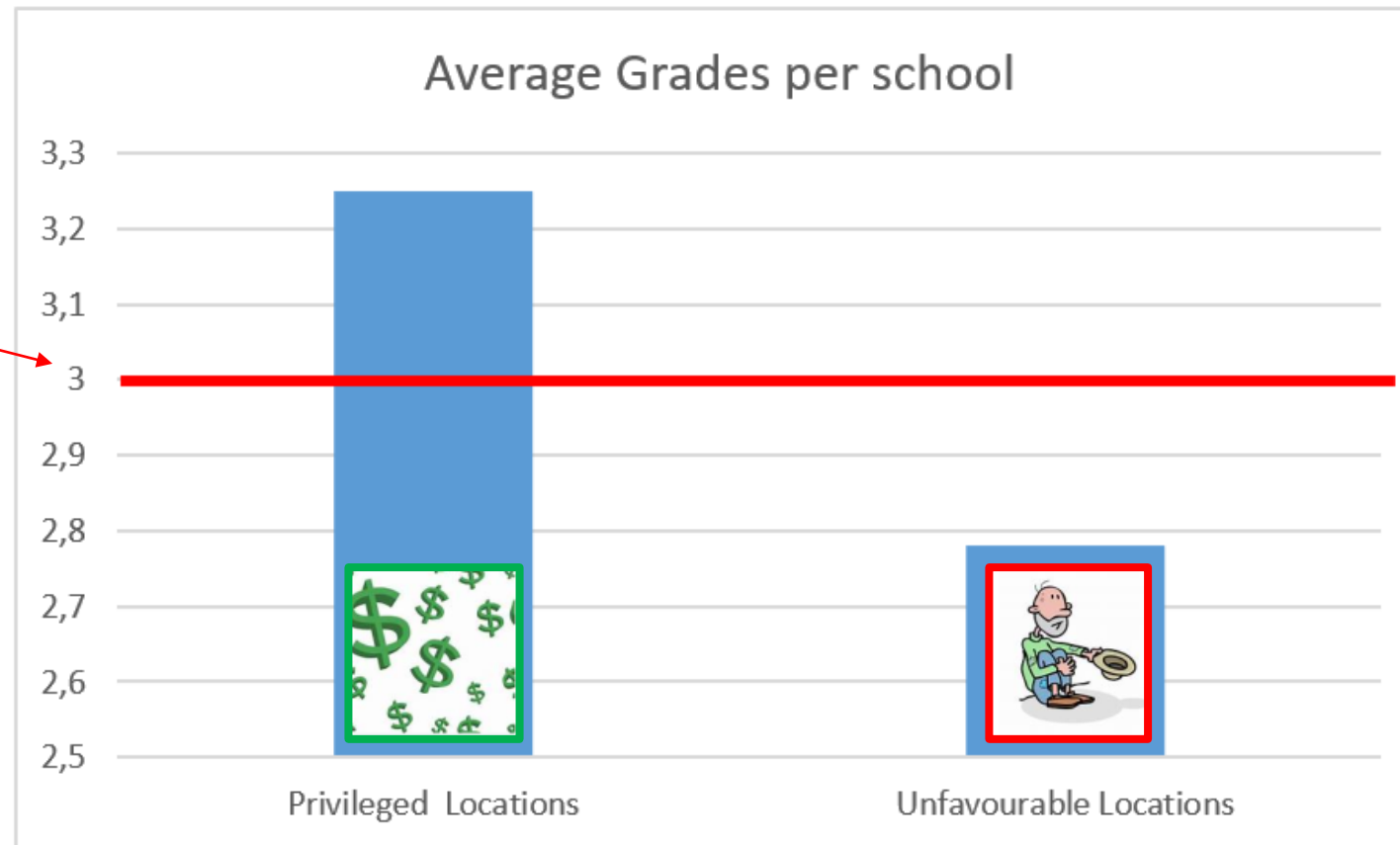


QUESTION 2:

Is the academic success of a child significantly influenced by the economic health of the family ?

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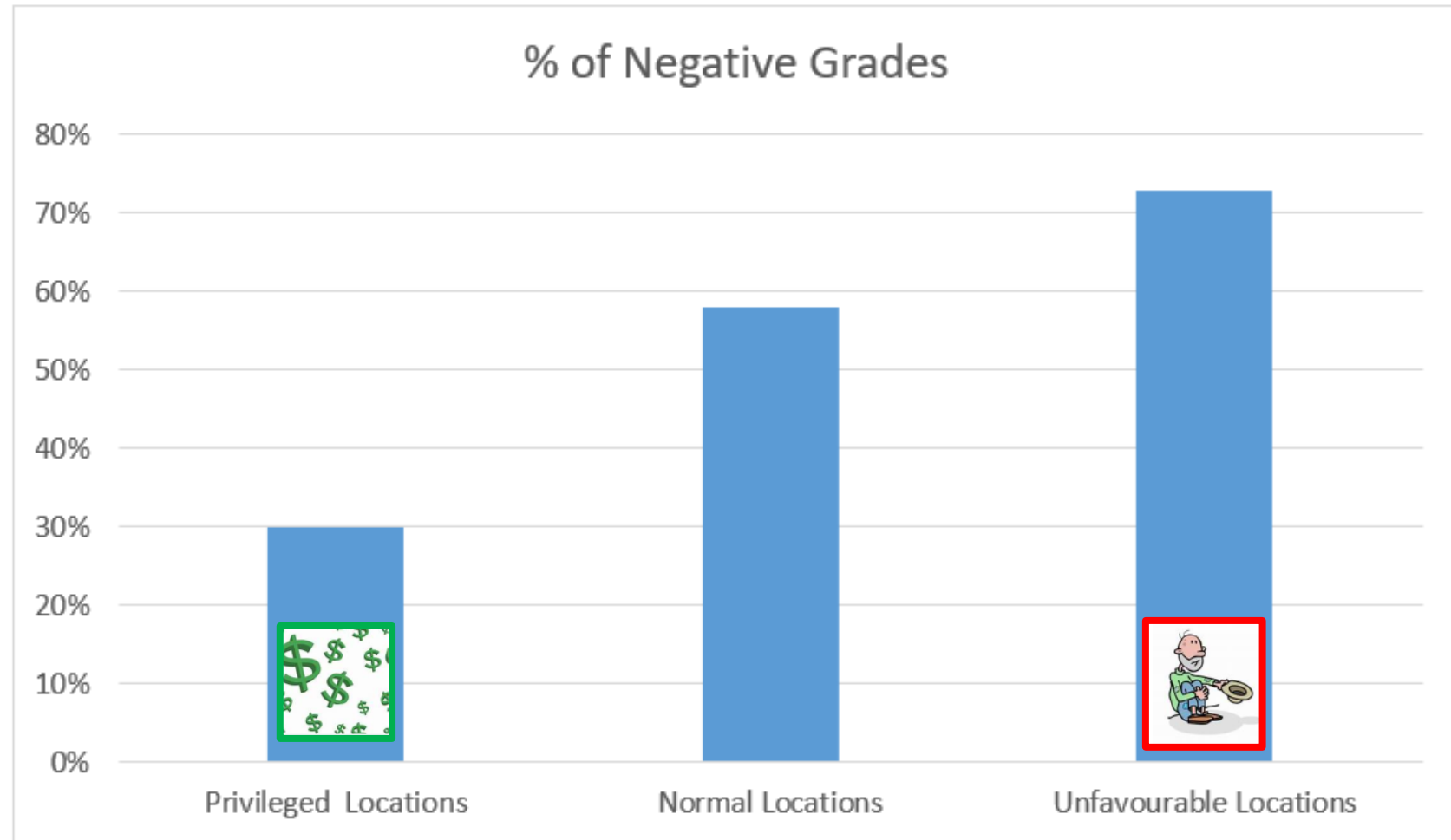
Threshold (<3 : disapproval)



QUESTION 2:

Is the academic success of a child significantly influenced by the economic health of the family ?

Answer :



QUESTION 2:

Is the academic success of a child significantly influenced by the economic health of the family ?

Answer :

Yes



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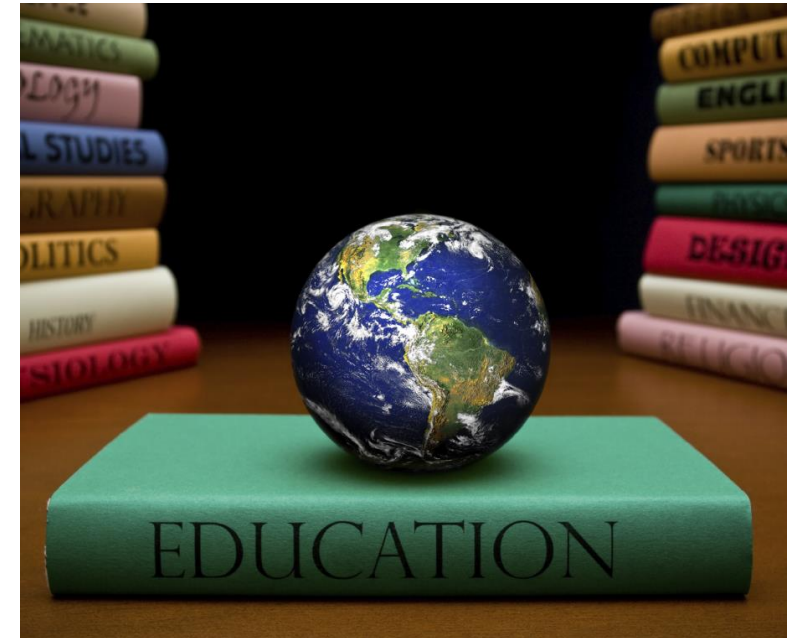
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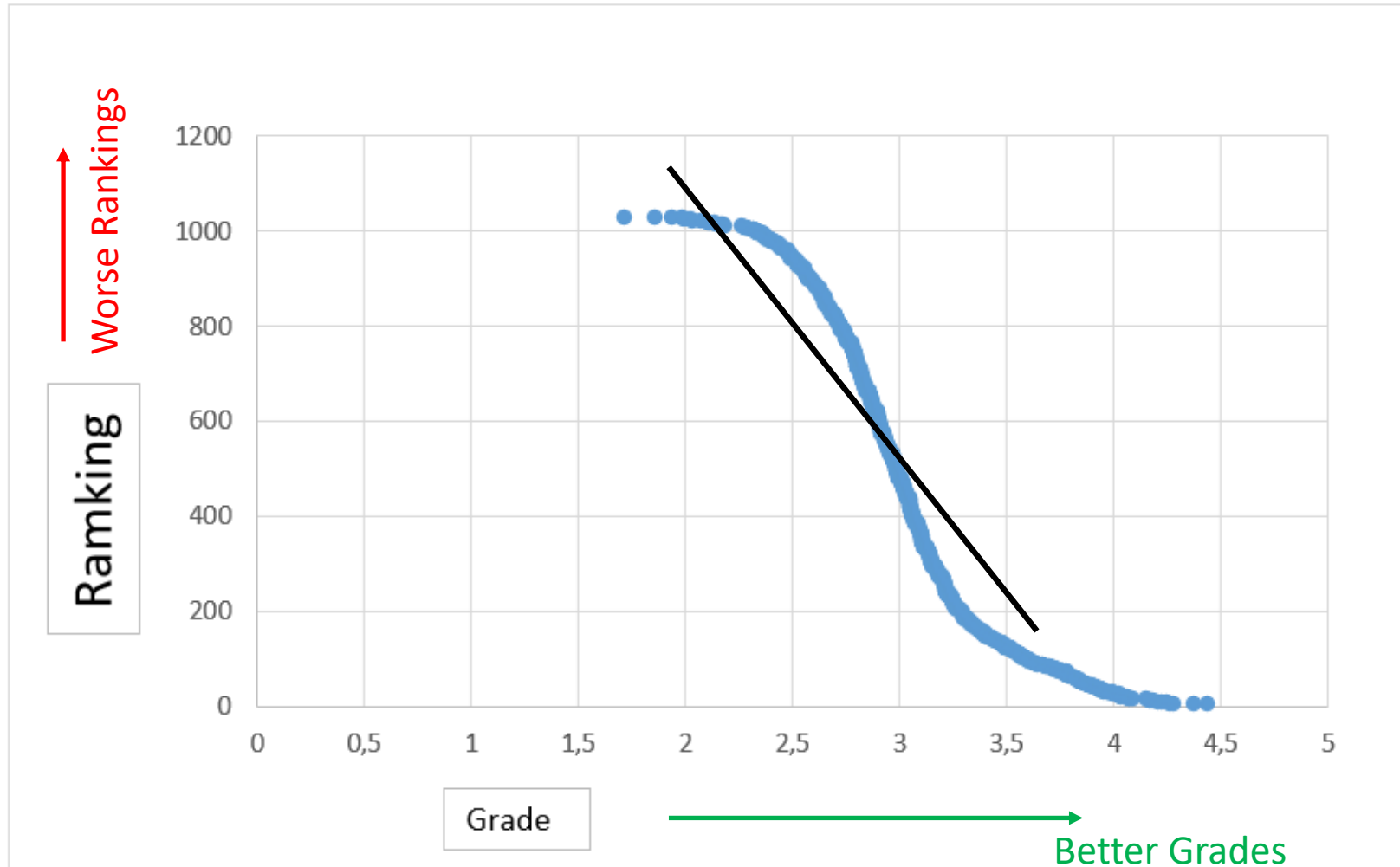
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QUESTION 3:

Are the school's Rankings too dependent from the absolute grades of the children?

Answer : **Yes**



- There is a very strong **Correlation of 95%**
- A school with students with high grades tends to be the main factor to calculate the ranking of a School
- **Social effort of Teachers in Unfavorable locations is not properly recognized**



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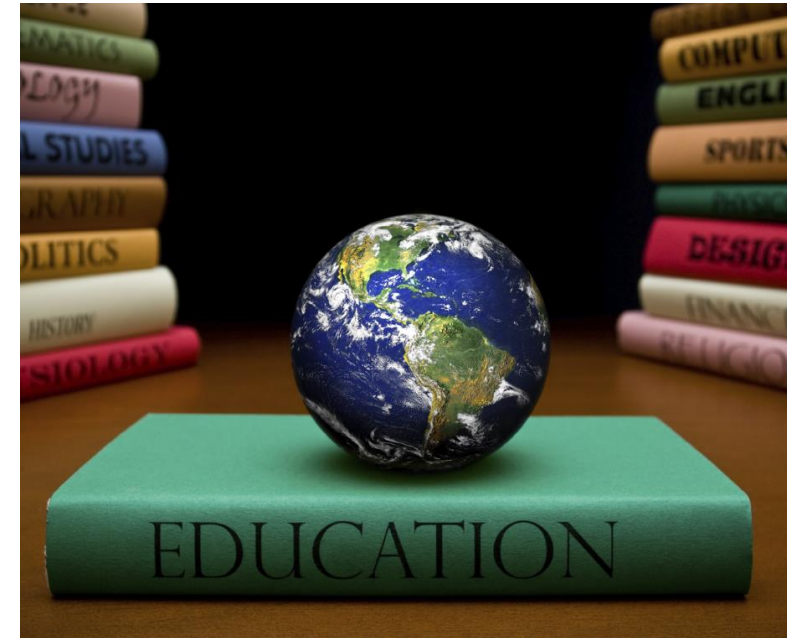
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CONCLUSIONS :

- **Questions1:** Do schools located in non-coastal regions require more support ? **Yes**
- **Questions2:** Is the academic success of a child significantly influenced by the economic health of the family ? **Yes**
- **Questions3:** Are the school's Rankings too dependent from the absolute grades of the children? **Yes**



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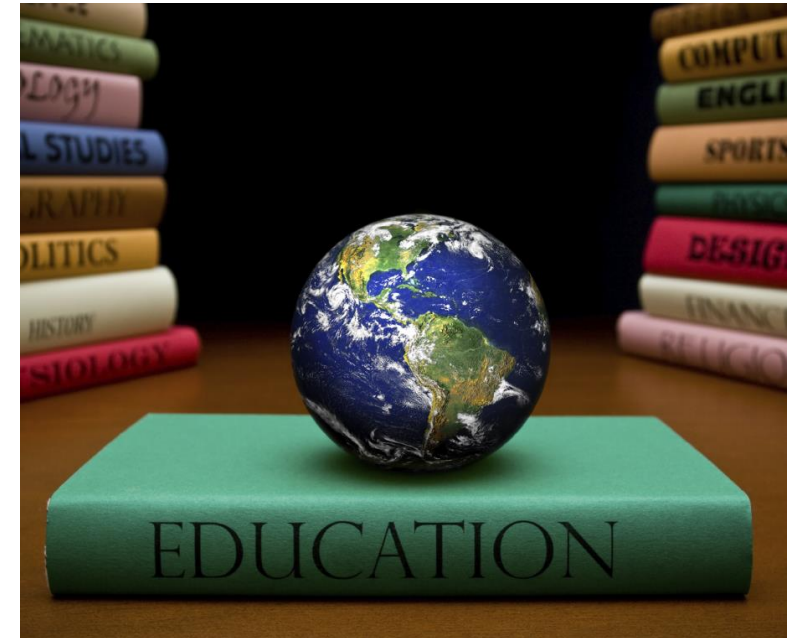
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RECOMMENDATIONS :

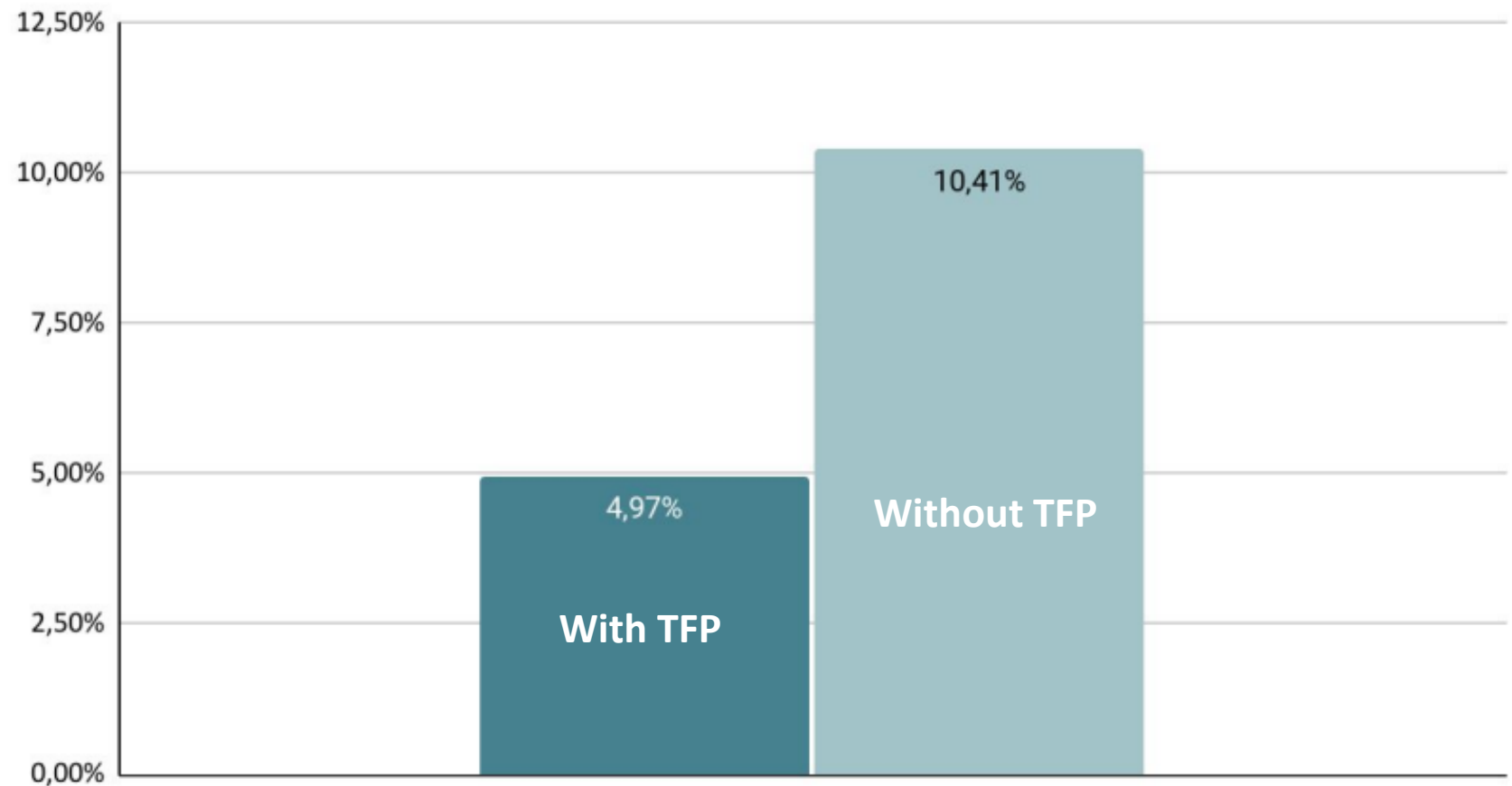
- More Governmental support to the less developed regions of Portugal, namely regarding **re-skilling**;
- Change the Way the School Rankings are calculated;
- Support the implementation in Portugal of the international NGO “Teach For All”



RECOMMENDATIONS :



% of Negative grades per classroom





Webgraph

<https://sdgs.un.org/goals>

<https://teachforportugal.org/>

<https://infoescolas.medu.pt/bds.asp>

<https://www.publico.pt/rankings-escolas-2019/lugar-sua-escola>

Note: this analysis was focused on basic schools (up to Grade 9)



Thank You !