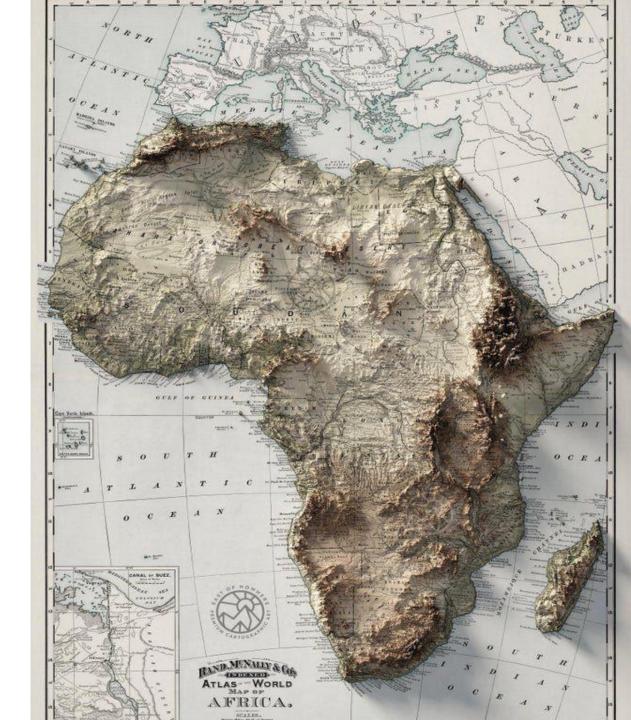
# GREEN HYDROGEN IN NAMIBIA

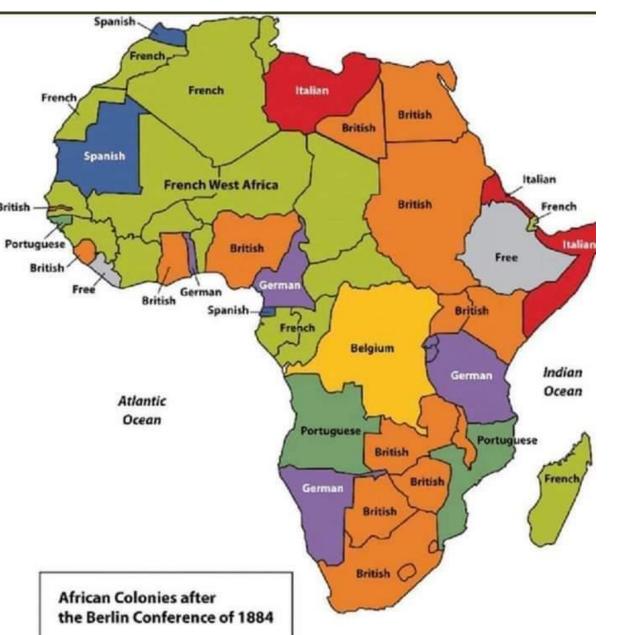
Blessing or Curse?



Africa, the mysterious continent...

... from the European perspective



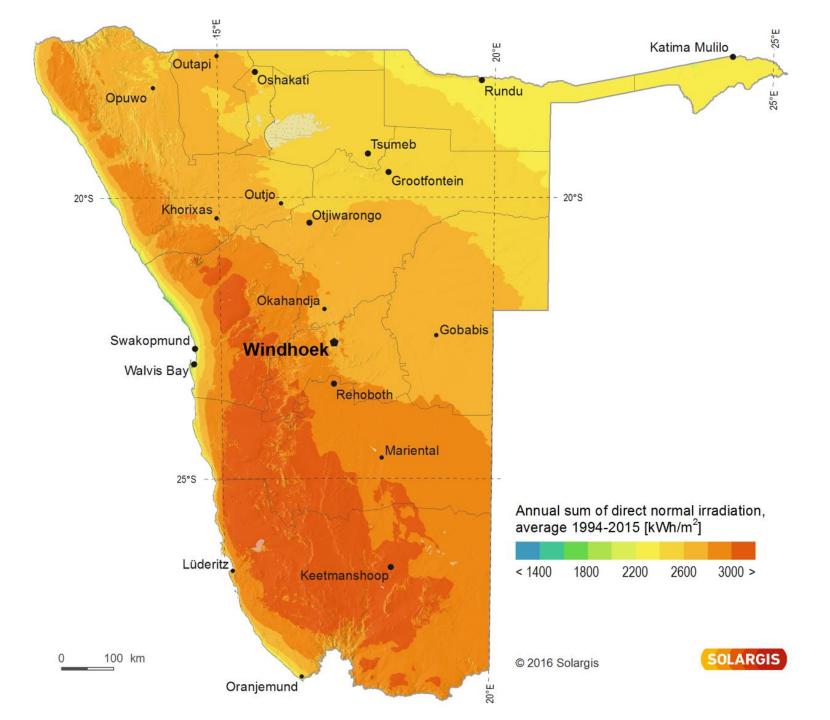




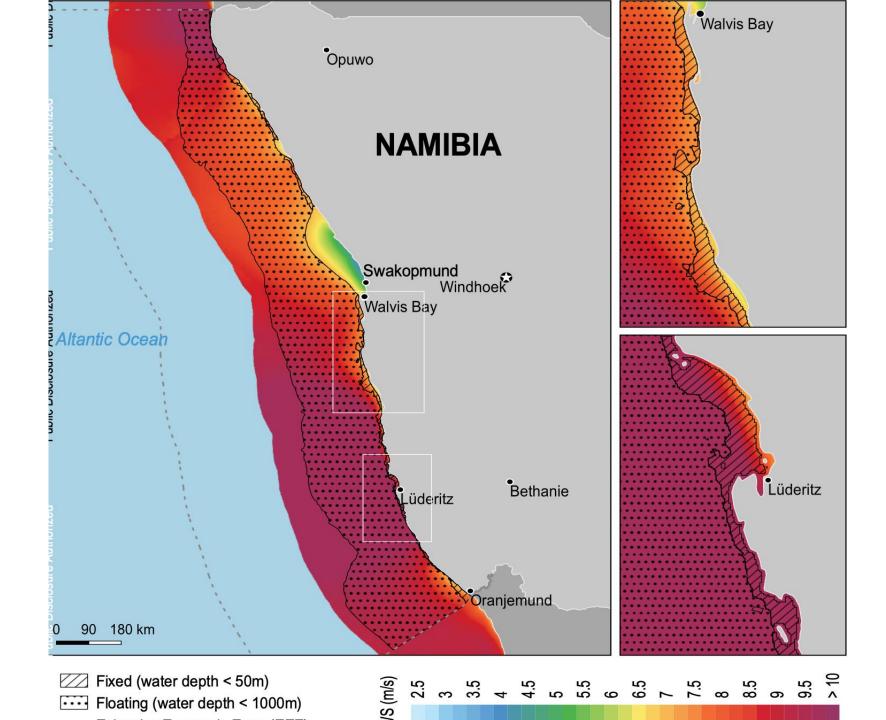
### Namibia = country of unlimited opportunities



# Unlimited sunshine



### Wind



### SIZE!

Namibia Germany 824'000 km². 258'000 km²

**Population** 

2'550'226 83'237'124 3.2/km<sup>2</sup> 233/km<sup>2</sup>

**GDP** 

4'500'000'000'000 USD 26'644'000'000 USD

GDP per capita/Year

54'076 USD 10'448 USD

Gini coefficient

0,29 (ca 140) 0.59 (2)



## The problem:

## 1,5m Namibians are hungry

... 1,4 million cannot afford healthy food

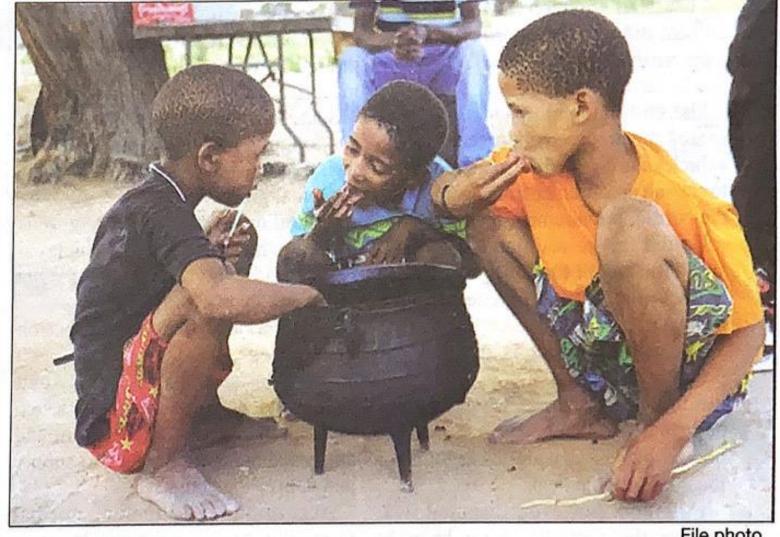
### PUYEIPAWA NAKASHOLE and SHELLEYGAN PETERSEN

MORE than half of Namibia's population has experienced moderate or severe food insecurity over the ast two years.

This is according to the latest United Nations Food and Agriculture Organisation (FAO) report.

The report, which was released this week, stated that 58% of Namibians are food insecure, which translates o about 1,5 million hungry people.

The FAO report, titled 'The State of Food Security and Nutrition in the World' states that food insecurity



File photo

in the country has continued to increase since 2014, when it stood at 53%.

It says 1,4 million Namibians were unable to afford a healthy diet in 2020.

**HUNGRY:** cont. on page 2

THE LINK ... Experts say the life expectancy of Namibians could potentially be impacted as it is linked to the ability of having a healthy meal.





### In other words:

Q If y III II II I

36 No. 218

N\$5

THURSDAY 21 JULY 2022

## N\$410 billion shared among 1 763 individuals

News - National | 2022-07-21

by **Donald Matthys** 



TALE OF TWO COUNTRIES ... Namibia's wealth remains concentrated in the hands of the few, while the majority live in poverty. Photo: Henry van Rooi

# N\$410 billion shared among 1763 individuals

... Namibia's richest hold massive private wealth while majority swim in poverty



Photo: Henry van Rooi

TALE OF TWO COUNTRIES ... Namibia's wealth remains concentrated in the hands of the few, while the majority live in poverty.

### **Wealthiest Namibians**

Multimillionaires (N\$15 million+) - 1 700 Centimillionaires (N\$100 million+) - 60 Billionaires (N\$1 billion+) - 3

- Statistics from Africa Wealth Report 2022

### DONALD MATTHYS

ABOUT 1 760 individuals in Namibia hold US\$24 billion (about N\$410 billion) of private wealth, while making up just 0,06% of the Namibian population, the Africa Wealth Report 2022 has revealed.

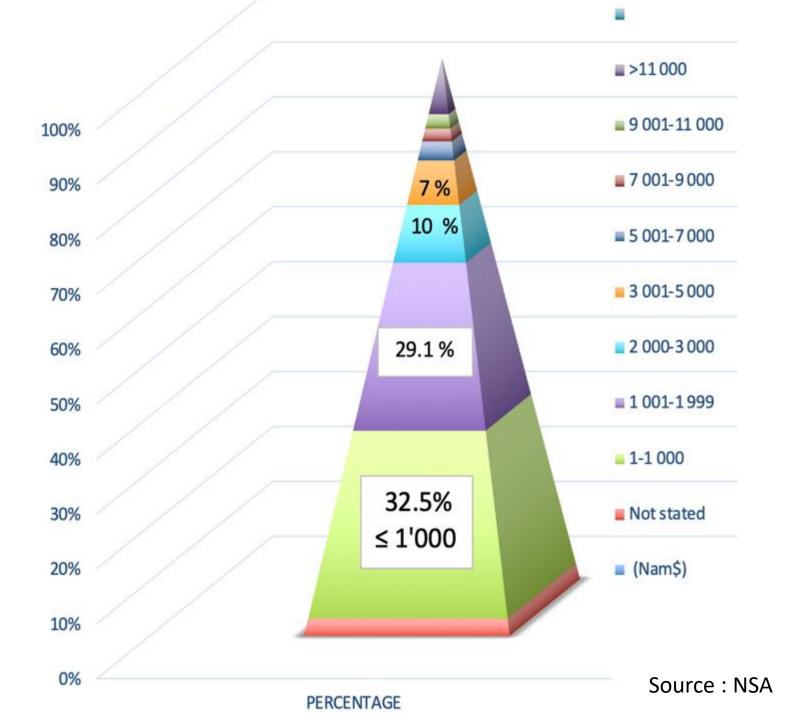
The report, drawn up by Hen-

ley & Partners, shows that there are 1 700 multimillionaires, 60 centimillionaires and three billionaires in the country.

Henley & Partners is an investment migration consultancy based in London.

BILLION: continued on page 2

# The income-pyramid 2017



Income pyramid NAMIBIA 2017				
monthly			SUM	
(Nam\$)	€	(%)	%	
Not stated	(1:18)	3	3	
1-1 000	55	32.5	36	
1 001-1 999	111	29.1	65	
2 000-3 000	167	10	75	
3 001-5 000	278	7.7	82	
5 001-7 000	389	3.3	86	
7 001-9 000	500	2.2	88	
9 001-11 000	611	2.3	90	
>11 000		9.7	100	

### That means:

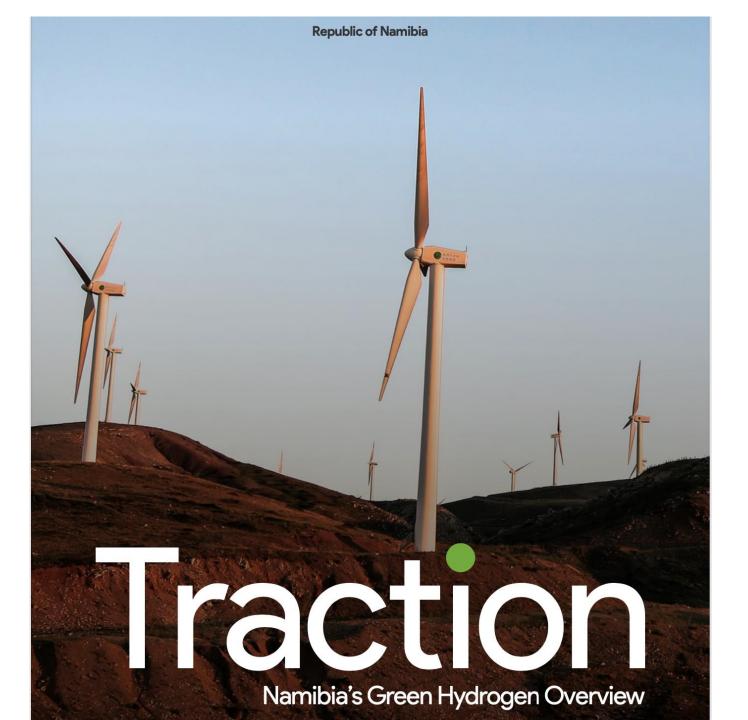
About 88 % of the Namibian population has to spend almost their entire income on immediate needs = inflation aggravates this.

Only about 12 % have disposable income

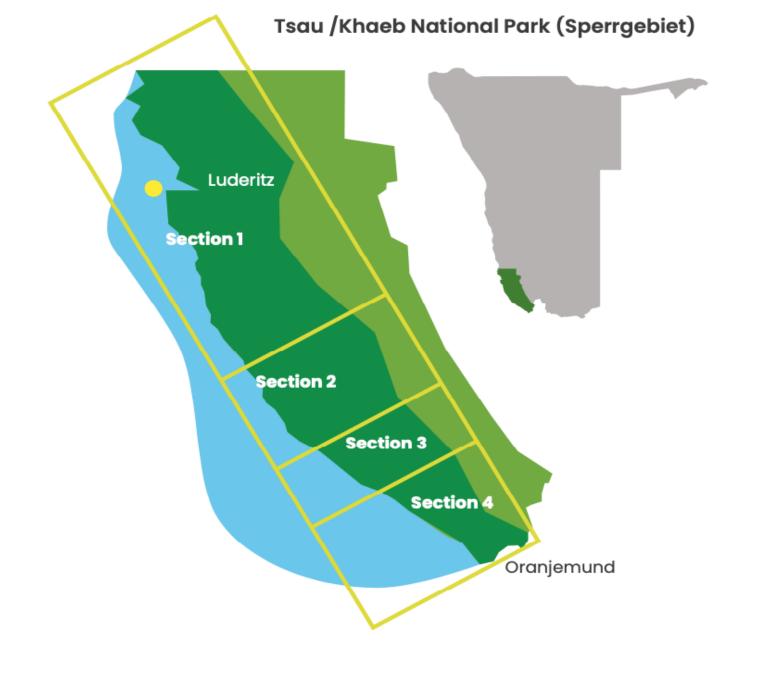
Will hydrogen help the majority ?!?

Source: Namibia Financial Inclusion Survey Namibia Statistics Agency 2017

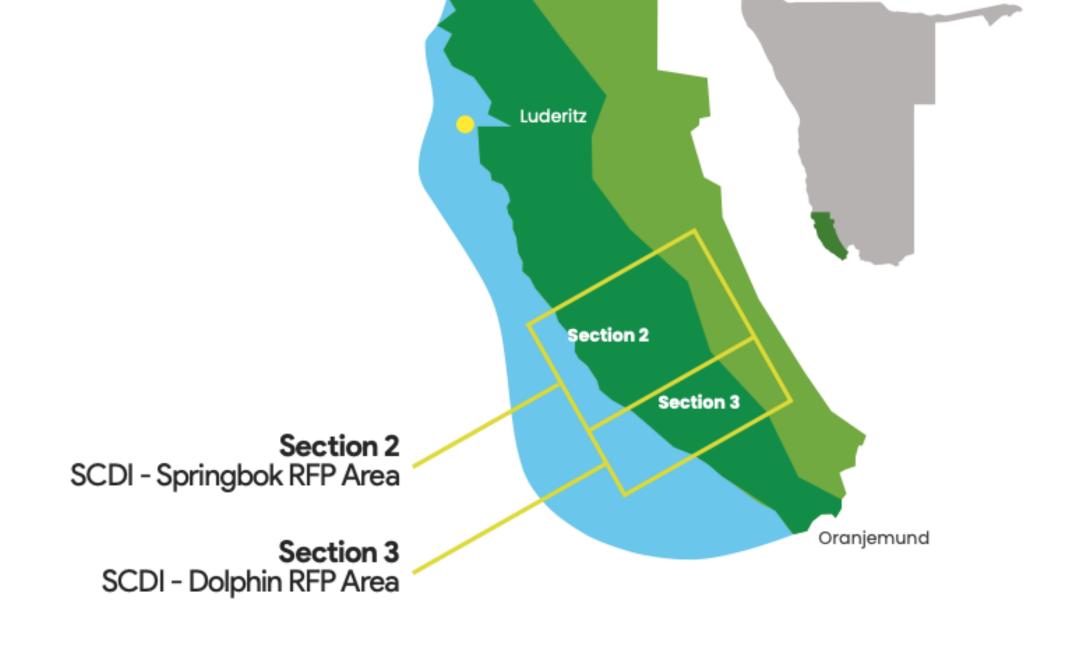








**Above:** Pre- Market sounding SCDI Layout

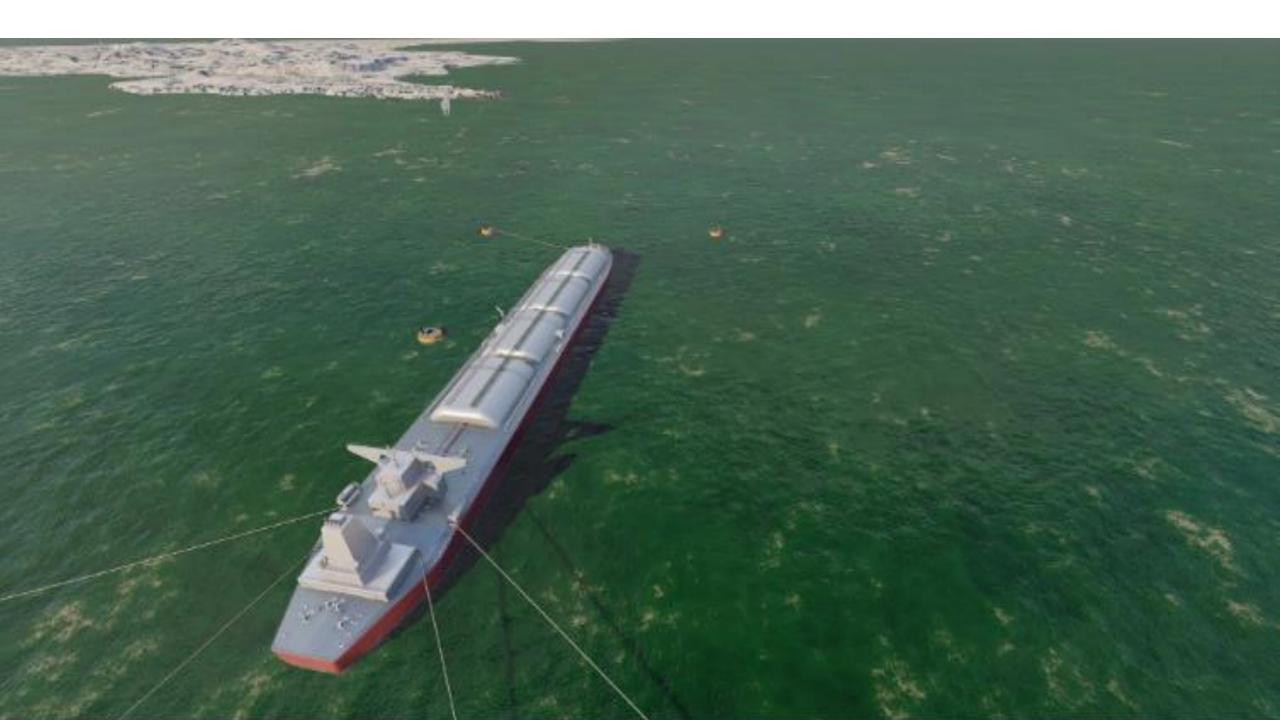


**Above:** Post- Market sounding SCDI Layout









### A few figures:

- Anticipated investment: 9,5 Billion USD +++. (= approx.171 billion Nam\$)
- 15'000 Jobs during building time
  - Out of that 12'000 for Namibians (where will the come from?)(who will train them)
- 30% local SMEs
- 20% Youth (20-35)
- 3'000 direct Jobs at full operation @ 152'000 Nam\$ average Salary (NICE!)
- 5++ GIGA-Watt renewable Energy (Wind & Sun)
  - Namibia's Peak now ca. 630 MW ( 5 GW = about Eightfold)
- 330'000'000 Nam\$ Rent for land per year = during operation + tax + royalties + others

Germany has provided 40'000'000 € already (= approx. 720 million Nam\$) (!!!) 30'000'000 for a strategic pilot plant

5'000'000 for developing a "Green Hydrogen Strategy" (oups)

5'000'000 for 200 Bursaries for Namibians (impressive)

Namibia's Green Hydrogen Overview

## Joint Communiqué of Intent (JCoI)

Website: www.gh2namibia.com/jcoi/





Bundesministerium für Bildung und Forschung

### Joint Communiqué of Intent

- Exchange on information about respective policies regarding renewable energy institutional conditions and plans as well as standards.
- Increased strategic and technical partnerships between hydrogenrelated institutions, energy regulator and National generation companies.
- Technology transfer and cooperation regarding research and development.
- Take the challenge posed by global climate change with emphasis on CO2 emissions from Power plants that are still using fossil fuels.
- Conduct feasibility studies together with partners immediately after signing, to:
- Determine and enhance Namibias' potential to produce green hydrogen for household use as well as for export to Germany and other markets.

### Other contacts & facts:

- Belgium =  $H_2$  to propel ships
- Netherlands = harbour & transport logistics (Rotterdam).

- Namibia can supply up to 3% of the estimated demand of the WORLD of green  $H_2$  = Land of unlimited opportunities
  - Namibia can produce green hydrogen for estimated 1.6 USD per Kg = 10% cheaper than the next competitor = Saudi Arabia

• All projects together can supply about 10% of the European demand.

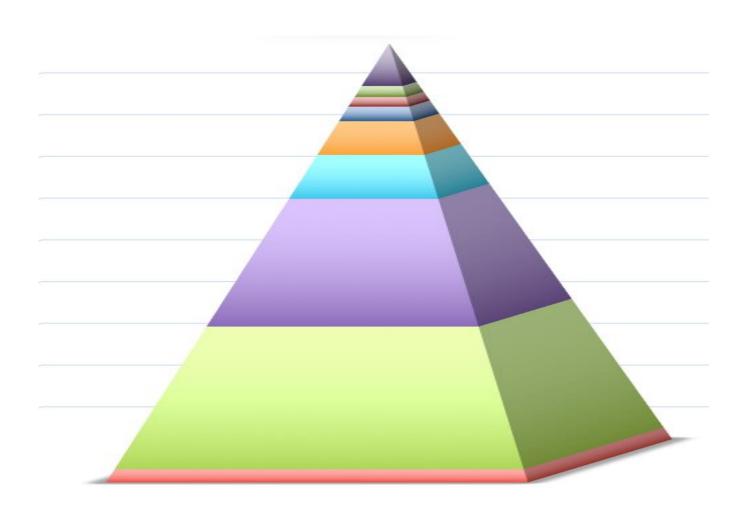
## Big plans indeed

Mindboggling!

•What will be the result ?!?



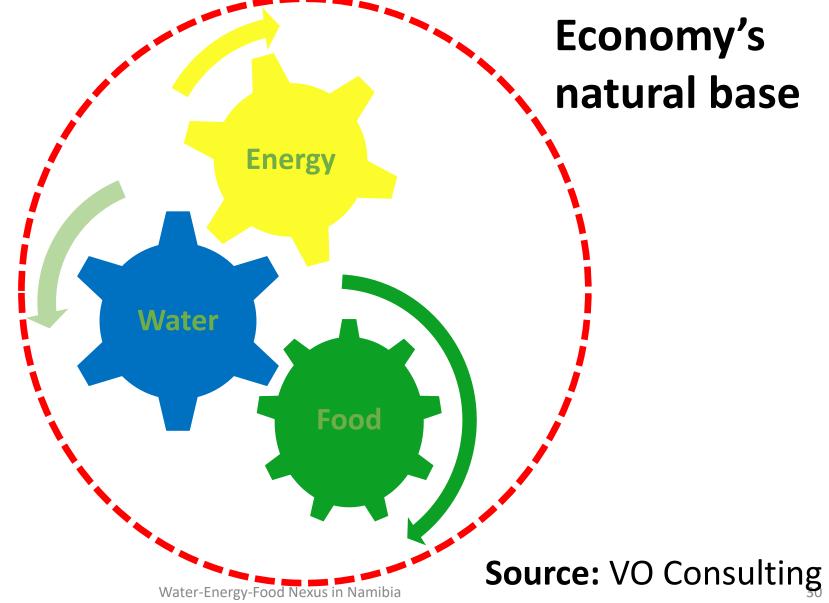
### PROGRESS



### PEACE AND STABILITY



**Energy-Water-Food Nexus** 



About 88 % of the Namibian population has to spend almost their entire income on immediate needs = inflation aggravates this.

Only about 12 % have disposable income

# Will hydrogen help the majority ?!?

## THANK YOU



Harald Schütt

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0811 291 223

One short video on rural electrification: Rural Electrification https://www.youtube.com/w atch?v=0Uz3 TIVyMk it IS that easy!!!

https://www.youtube.com/watch?v=NqafKFHyzJk
Same video = just check the best link

- watch Harald on TEDx UNAM:
- https://www.youtube.com/watch?v=byqwBVMybEg

Comments and critique are welcome!

- https://www.academia.edu/14189584/100\_DECENTRALISED\_RENEWABLE \_ENERGY\_FOR
- https://www.linkedin.com/in/harald-schütt-0a824315/detail/recentactivity/posts/

= same article => depends which link works better ...

- Rural Electrification
- https://www.youtube.com/watch?v=0Uz3 TIVyMk

it IS that easy!