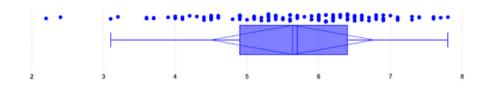
THE SCIENCE OF HAPPINESS INDEX

Factors affecting Happiness Index and Strategy to improve them

DESCRIPTIVE STATISTICS



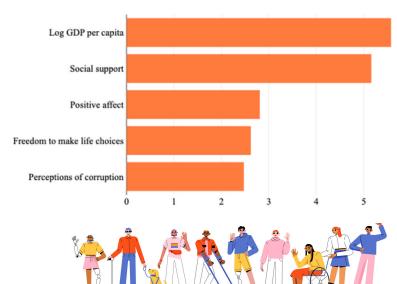
Minimun Maximum Mean Median Standard Deviation $\longrightarrow 1.10$

FACTORS AFFECTING HAPPINESS INDEX

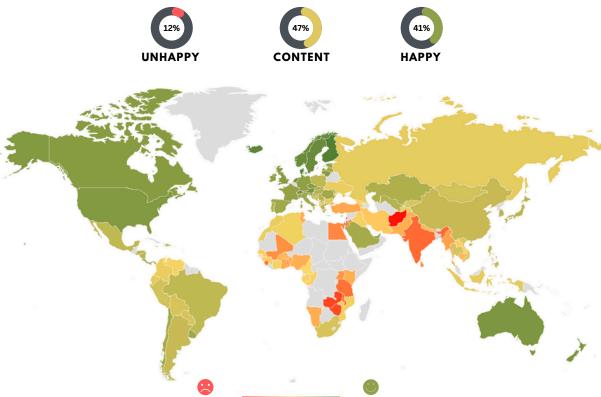


Of the total original factors in the data, only **FIVE** of them makes a significant effect on the happiness index of a country.

GDP has the MOST effect on the HAPPINESS INDEX while PERCEPTION OF CORRUPTION has the **LEAST** effect.



HAPPY PLACES



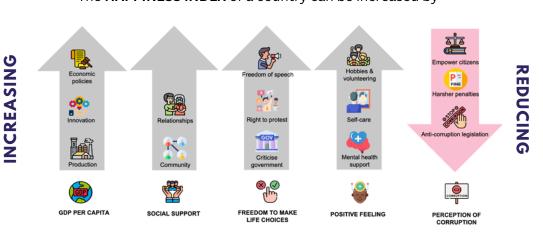
CORRELATION MATRIX

Life Ladder	Life Ladder		Log GDP per capita		Social support		Freedom to make life choices		Perceptions of corruption		Positive affect	
	.o0l	1.00										
Log GDP per capita	.00]	0.77	.00]	1.00								
Social support	.00]	0.83	.00]	0.72	.o0]	1.00						
Freedom to make life choices	.00]	0.62	.00]	0.29	.00]	0.49	.00]	1.00				
Perceptions of corruption	ail	-0.47	all	-0.42	all	-0.24	all	-0.44	.001	1.00		
Positive affect	:00]	0.58	.01	0.23	.00]	0.51	.00]	0.64	all	-0.27	.001	,

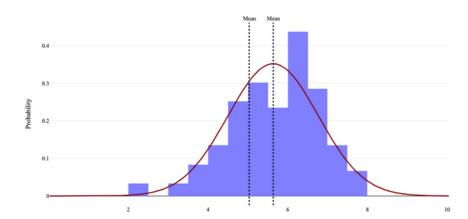
Strong positive

The **HAPPINESS INDEX** of a country can be increased by

Strong negative

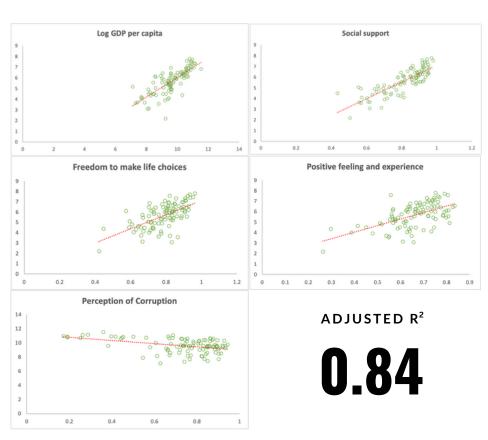


ASSUMPTIONS



- Linearity: Slope parameters are linear
 Independence of Errors: No correlations across observations
- Normality of error: Error terms are normally distributed
- Homoscedasticity: Variability of the error term is the same for all observations
- No perfect multicollinearity: No exact linear relationship among independent variables

BEST MODEL OF HAPPINESS INDEX



84% of the variation in the data can be explained by the following equation:

Happiness index = -3.66 + 0.45*GDP + 3.36*Social Support + 2.02*Freedom + 1.77*Positive feelings - 0.65*Corruption



World Happiness Report 2022

., Sachs, J. D., De Neve, J.-E., Aknin, L. B., & Wang, S. (Eds.). (2022). World Happiness Report 2022.