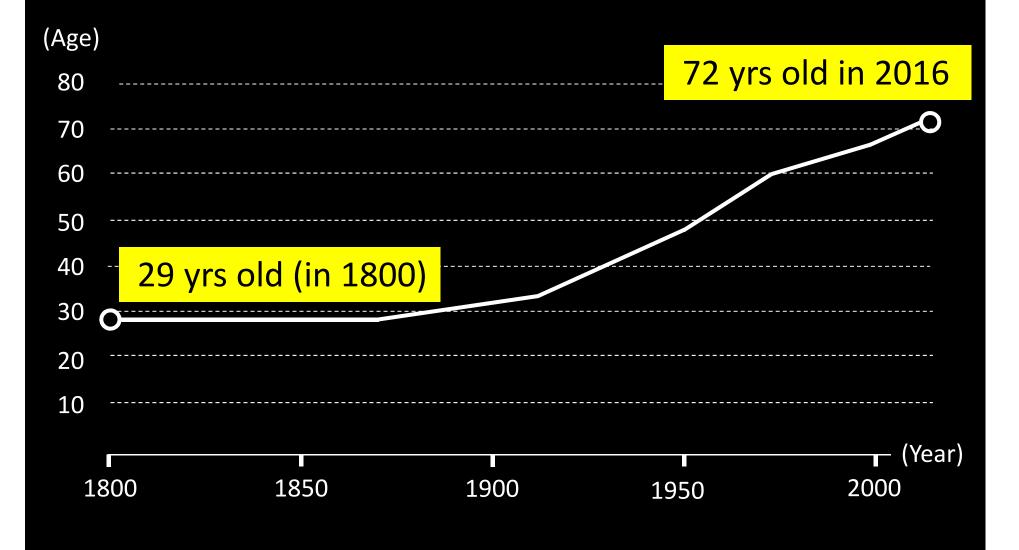


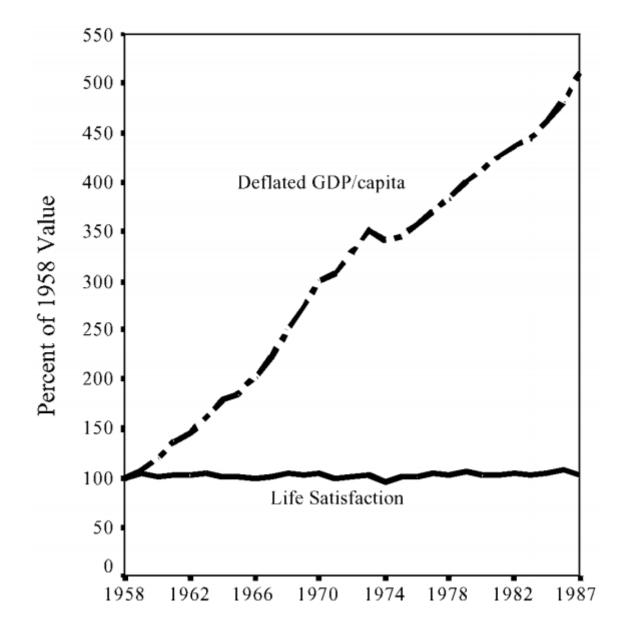
Grand challenges on well-being toward the 22nd century

Yoshiki Ishikawa, PhD

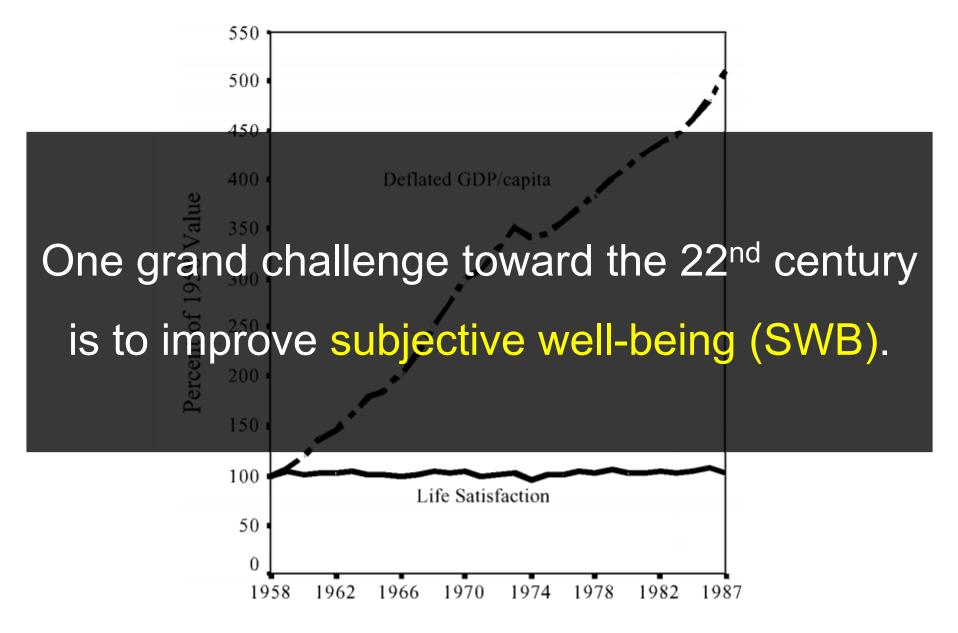
Life expectancy at birth of the global population



Subjective Well-Being in Japan (1958-1987)



Subjective Well-Being in Japan (1958-1987)



Why has SWB not improved in the past century?

Case 1: Rural Japan in the 1950s



I don't want a washing machine, since it just increases the time for farm work and decreases the fun time for chatting with neighbors.



Why has SWB not improved in the past century?

Case 2: Changes in time allocation in the U.S.

ALAN B. KRUEGER Princeton University

Are We Having More Fun Yet? Categorizing and Evaluating Changes in Time Allocation

ARE AMERICANS SPENDING THEIR time in more or less enjoyable ways today than in earlier generations? The answer to this question is central for understanding economic and social progress yet has been elusive and controversial. From 1965–66 to 2005, for example, working-age American women increased the amount of time spent working for pay, watching television, and caring for adults while they reduced the amount of time spent cooking, cleaning, entertaining friends, and reading books. Do these shifts imply that women are better off or worse off?

ALAN B. KRUEGER

Princeton University

Are We Having More Fun Vet?

Changes in time allocation (1965-2005)✓ Unpleasant time: Decreased

Pleasant time : Not changed
Neutral time: Increased

television, and caring for adults while they reduced the amount of time spent cooking, cleaning, entertaining friends, and reading books. Do these shifts imply that women are better off or worse off?

Questions:

How might we understand the nature of subjective well-being of the humanity?

How might we seek what can be done toward the 22nd century by the joint efforts of academia, government and commercial industry? One basic but imperative idea is to collect massive & real-time data on SWB.



If we treasure it, measure it. If we measure it, treasure it.

Data - Knowledge - Innovation

Three challenges for collecting quality data on subjective well-being

✓ Global survey on SWB is on a yearly basis

= GALLIP

The World Poll is based on a framework called the Gallup Macroeconomic Path, a leadership model for successful societies. Each step on the path links to a set of survey questions that Gallup asks across each country. This approach makes it possible to track historical trends and make direct cross-country comparisons.



*Gallup Macroeconomic Path: a leadership model for successful societies

Gallup conducts nationally representative surveys face to face or via telephone in more than 160 countries and over 140 languages, covering the emerging and developed world.



World Happiness Report 2019

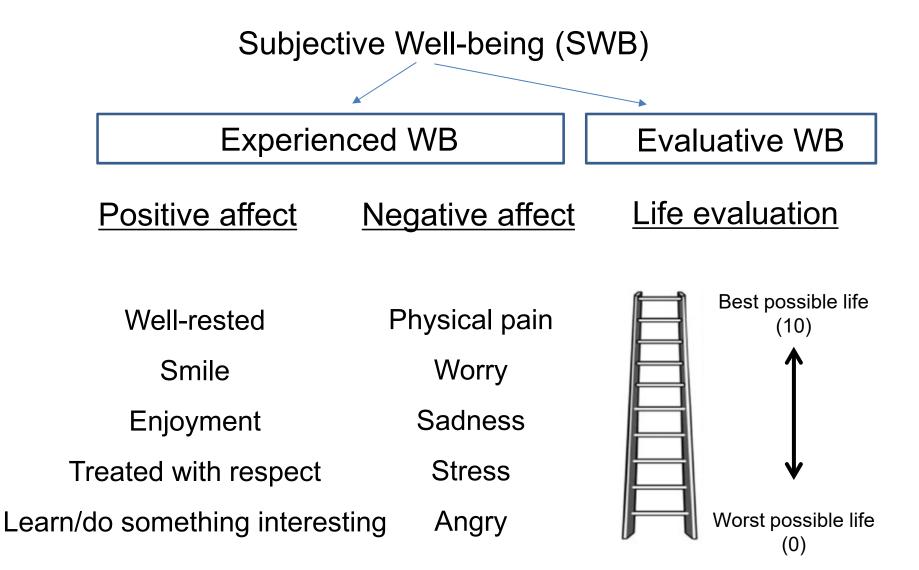
The World Happiness Report is a landmark survey of the state of global happiness that ranks 156 countries by how happy their citizens perceive themselves to be. This year's World Happiness Report focuses on happiness and the community: how happiness has evolved over the past dozen years, with a focus on the technologies, social norms, conflicts and government policies that have driven those changes.

Explore the Report

MARCH 20, 2019



Source: https://worldhappiness.report/



	Positive affect	Less Negative affect	Life evaluation
1st	Panama	Taiwan	Finland
2nd	Mexico	Singapore	Denmark
3rd	Uruguay	Mauritius	Norway
	•	Japan	:
		(11th)	
	•		Japan (Eoth)
	Japan		(58th)



Data - Knowledge - Innovation

Three challenges for collecting quality data on subjective well-being

✓ Global survey on SWB is on a yearly basis

✓ Most data on SWB is from the west

"As is true for the social science in general,

the field of SWB is heavily dominated by

Western researchers... 70% of all data on SWB

is from populations in Europe or North America

(Tov and Au, 2013)."

"The strongest models in SWB research hardly

manage an R² of 0.40... and generally lower

explanatory power in Asia, Africa and Latin America

(Helliwell et al., 2009)."

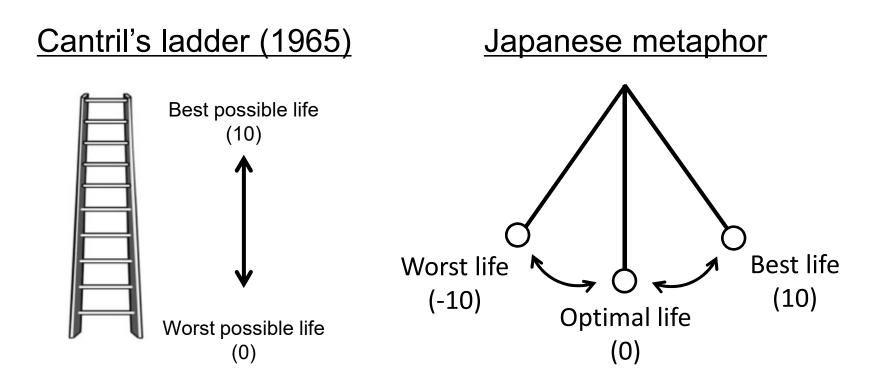
Data - Knowledge - Innovation

Three challenges for collecting quality data on subjective well-being

- ✓ Global survey on SWB is on a yearly basis
- ✓ Most data on SWB is from the west

✓ Need for reinventing the concept of SWB

Is ladder a good metaphor for evaluating good/bad life?



What I believe.

Grand challenges on well-being toward the 22nd century



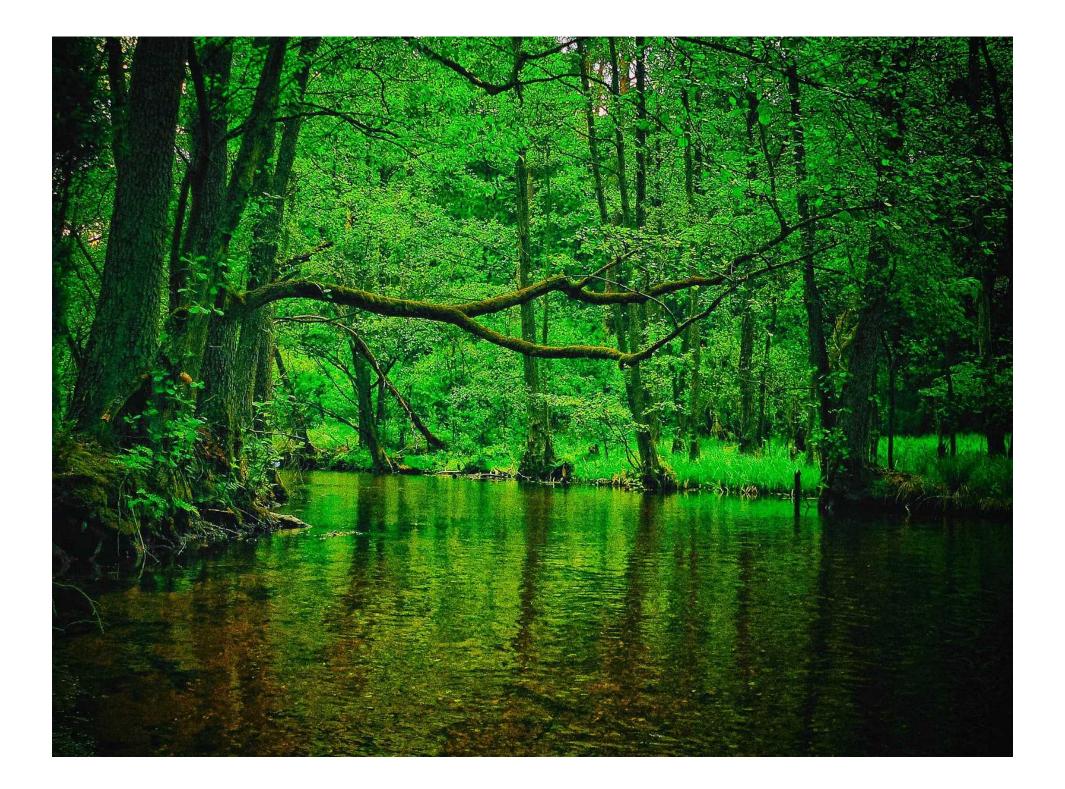
"<u>Reinvent and Reintegrate Well-being into our</u> <u>Everyday Lives</u>, so that we can breathe wellbeing without even being conscious about it."

Example:

Human-Environment interaction for optimizing

well-being at workplace

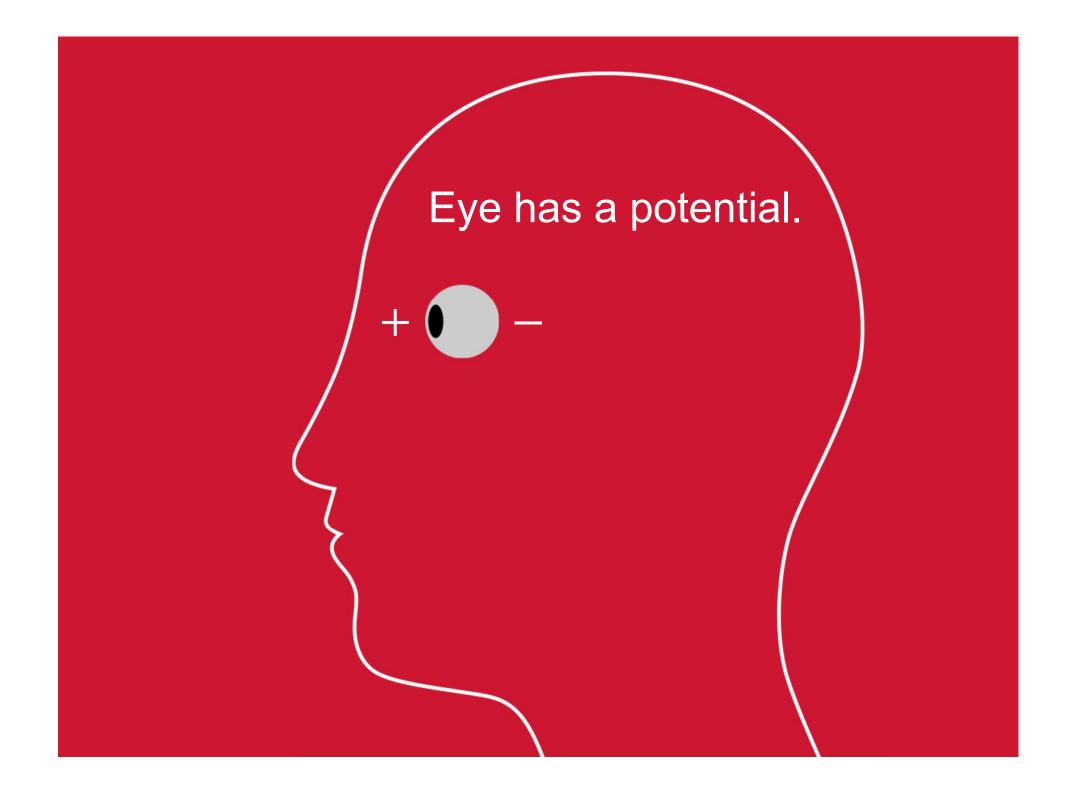




How might we create a workplace which gives autonomous feedbacks to optimize each employee's subjective well-being?







Sensor for measuring eyeball potential



-1200



544 546 548 550 552 554 556 558

Seconds

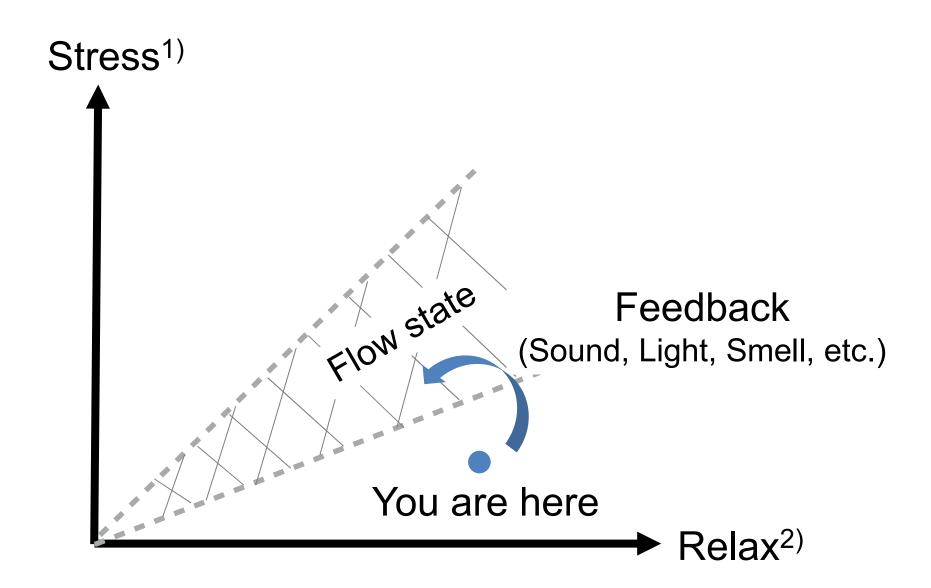
Chart1 : Electrooculography

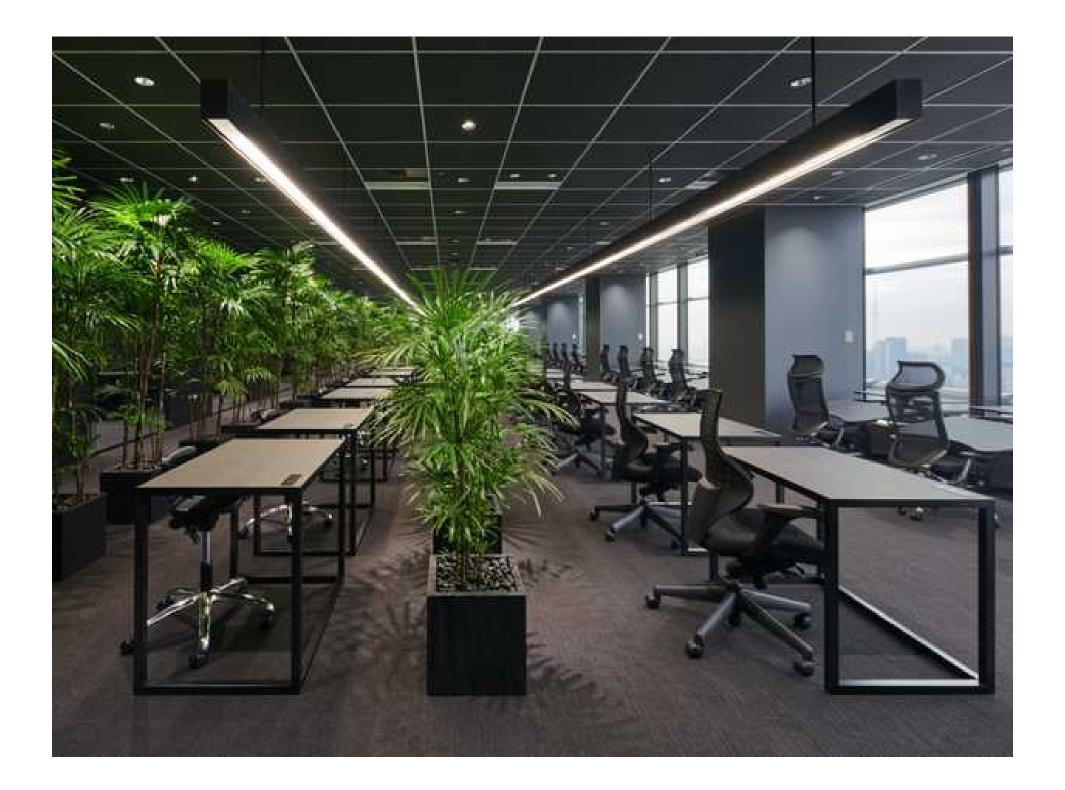
Sensor for measuring eyeball potential

Preliminary results show that the eyeball potential is associated with the level of

stress and relax.

Is ladder a good metaphor for evaluating good/bad life?





We have been studying whether this human-environment interactive system can actually increase the probability of staying in the flow state.