



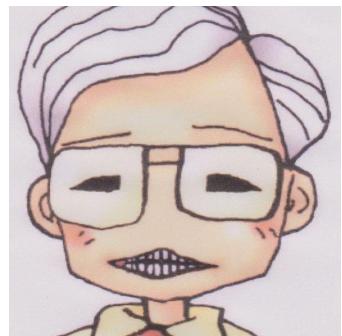
Let's talk about "Dreams" !

夢を語ろう !

October 1, 2021

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Today's Topics

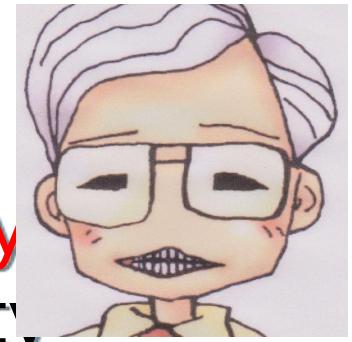


- 1. Self-introduction**
- 2. Why "dreams"?**
- 3. Dreams 100 years ago**
- 4. My dreams**
 - Building Paradigms for Senior's Social Participation**
- 5. Your dreams?**
- 6 . Conclusion**

1. Self-introduction



- 1942 Born in Tokyo
- 1965 Graduated from Department of Electric Telecommunications, Faculty of Science and Engineering
- 1970 Graduated from School of Science and Engineering, Waseda University
Received Degree of Engineering
- 1970 Joined KDD
- 1996 Joined Waseda University
- 2000 Joined GITS, Waseda University**
- 2012 Retired from Waseda University,
- 2014 Professor Emeritus, Waseda University





2. Why Dreams?



2.1 Walt Disney (1901-1966)

- An American entrepreneur, animator and film producer (Wikipedia, 2021)
- “If you can dream it, you can do it !”



2. Why Dreams?



2.2 吉田松陰 Yoshida Shouin (1830-1859)

- one of Japan's most distinguished intellectuals in the late years of Tokugawa Shogunate (Wikipedia, 2021)

“No ideals for those without dreams
no plans for those without ideals,
no execution for those without plans
no success for those without execution”



Therefore,

there is no success for those without dreams.”

3. Dreams 100 years ago



3.1 Predictions of the 20th Century in 1901

- 報知新聞 Hachi Shinbun (Newspaper) published an article on prediction of the 20th Century on January 2 and 3, 1901. The prediction shows their dreams in a sense.
- The article predicted science and technology that will be realized in 2001 on 23 items such as telecommunications, transportation, military, medical care, disaster prevention, etc.

3. Dreams 100 years ago



3.2 Examples of the Predictions (1)

- **Wireless Telegraphy and Telephone**
The radio that Marconi invented advances further, and it comes to be able to talk freely from Tokyo to London and New York by the wireless telephone.
- **Long Distance Photos**
When the war happens in Europe decades later, the newspaper journalist in Tokyo will be able to telegraph the color photograph while being in the editorial office.



3. Dreams 100 years ago

3.2 Examples of the Predictions (2)

- **Destruction of the Beast**

Beasts such as lions, tigers and crocodiles are also extinct from Africa, and very few will survive in big urban museums.

- **Sahara Desert**

The Sahara desert will gradually become fertile, and the civilization in the eastern hemisphere will develop gradually in China, Japan, and Africa.

3. Dreams 100 years ago



3.2 Examples of the Predictions (3)

- **Destruction of Mosquitoes and Fleas**

Hygiene is improved, mosquitoes and fleas gradually become extinct.

- **Wisdom for Heat and Cold**

Thanks to this instrument, an instrument to regulate the heat and cold has been invented, and Africa also advances.

3. Dreams 100 years ago



3.2 Examples of the Predictions (4)

- **Plants and Electricity**

You can grow vegetables with electricity. Therefore, the broad bean becomes the size of the orange, and the chrysanthemum, the peony, and the rose come out with the one that a black flower blooms, too. Even in Greenland, tropical plants will grow.

- **Reach of Human Voice over 10 miles**

The voice transmitter has been improved so that men and women 10 miles away can talk about their love endlessly.

3. Dreams 100 years ago



3.2 Examples of the Predictions (5)

- **Photo Phone**

The other party's face is seen on the telephone.

- **Convenience for Shopping**

Photo Phones allow you to choose and purchase items from long distances. Goods arrive instantly through underground iron pipes.

3. Dreams 100 years ago



3.2 Examples of the Predictions (6)

- **Speed of Railways**

Trains have evolved so much that all kinds of conveniences are realized, such as heating and cooling systems.

If you take an express, the speed will be more than 50 mph. It takes four and a half days today to go between New York and San Francisco, in one day and night, you will be able to do it.

Of course, because the power does not use coal, sewage of soot does not come out, and there is no need to water



3. Dreams 100 years ago

3.2 Examples of the Predictions (7)

● **Advances in Medical Practice**

It is no longer possible to take the drug, and the chemical solution can be injected into the affected area without pain with an electric needle. The development of microscopes and X-rays frees the removal and treatment of pathogens.

The internal medical operation becomes almost a surgical operation, and even pulmonary tuberculosis can be removed the lung in the future, and it is possible to sterilize after the antiseptic.

3. Dreams 100 years ago



3.2 Examples of the Predictions (8)

- **Conversation between People and Beasts**

The research of the beast language advances, and the department of the beast language can be established in the elementary school.

Persons and dogs, cats and monkeys can freely talk each other.

- **Human Trunk**

By exercise and surgery, a person's height reaches more than 180 cm.

3. Dreams 100 years ago



3.2 Examples of the Predictions (9)

● **Abolishment of Kindergartens**

Because human wisdom develops greatly by the inheritance, and there is no uneducated people in the home, the necessity of the kindergarten is lost. Both men and women are not considered independent unless they graduate from university.

● **Transportation of Electricity**

Japan uses the water of Lake Biwa, and the United States uses Niagara Falls to generate hydroelectric power. And electricity will be transported to all domestically

3. Dreams 100 years ago



3.2 Examples of the Predictions (10)

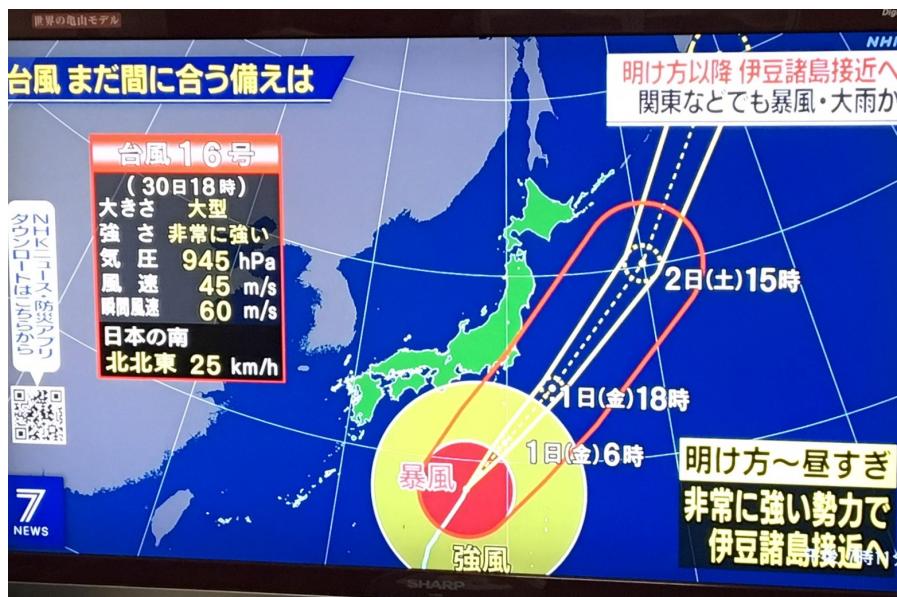
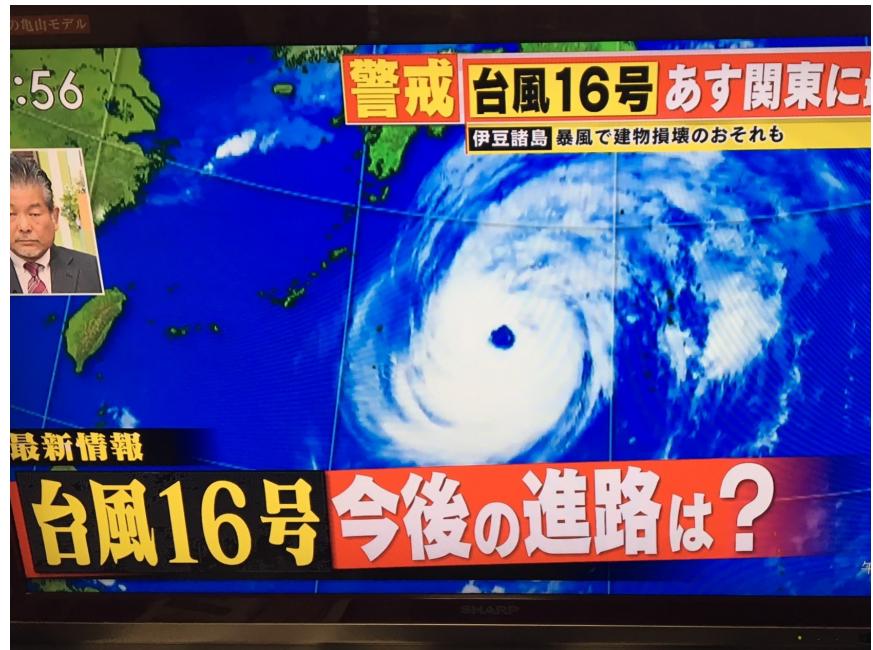
- **Prevent storms !!!**

Weather observation has progressed, allowing natural disasters to be predicted more than a month in advance.

If the most horrific natural disaster, a storm, occurs, it is possible to turn into rain by shooting a cannon in the air.

In the second half of the 20th century, there will be no shipwreck and tsunami.

Earth quakes do not disappear, but houses and roads can withstand earthquakes.



Research Institute
on Typhoons
will be established
on October 1,
2021!

の暴風域。29日に予想され
る波の高さは沖縄7
尺、奄美6尺。30日は伊
豆諸島、小笠原諸島8尺、
横浜、国大に
全国初、知見を共有
台風研究機関
横浜、国大に
台風専門の総合研究機
関「台風科学技術研究セ
ンター」が全国で初めて
横浜国大に10月1日開設
される。専門性や産官学
が所属し、新たな知見を
集約・共有しながら防災
・減災を目指す。
センター長には台風研
究の第一人者として知ら
れる同大学の筆保弘徳教
授(気象学)が就任する。
台風を制御・利用する未
來を見据え、メンバーに
は気象学や防災だけでなく
くエネルギー科学、航
空機や船舶開発の専門家
大、名古屋大、京都大、
琉球大、気象庁気象研究
所、海洋研究開発機構、
理化学研究所、民間の東
京海上研究所、川崎重工
業、デロイトトーマツコ
ンサルティング。
台風は発生・発達のメ
カニズムなど分かってい
ないことが多いほか、気
象による進路予想が難
しいケースもある。

世界の地図モデル
56
58
56
36
8
0
5
5
2
1
2
NEWS
7 NEWS
NHKニュース・防災グリ
タウンシップはもううから
QRコード
18

3. Dreams 100 years ago



3.2 Examples of the Predictions (11) · · · Translated by Google !!!

● **Wireless Telegraphy and Telephone**

The radio that Marconi invented advances further, and it comes to be able to talk freely from Tokyo to London and New York by the wireless telephone.

● 無線電信および電話

マルコニーが発明した無線は一層進歩して、無線電話で東京からロンドンやニューヨークと自由に話せるようになる。



4. My Dreams

- Building Paradigms for
Seniors' Social
Participation

4. 1. Background



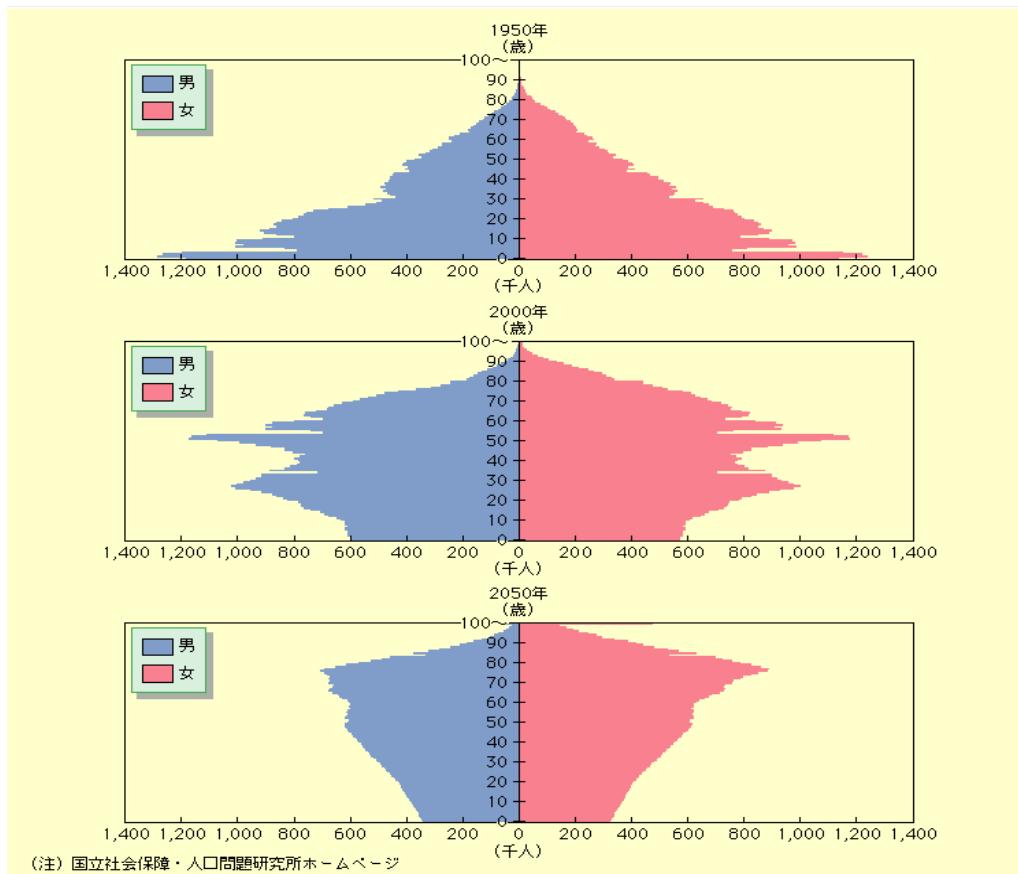
Japan has become an Aged Country !

- Total Population 125 (As 2021.09)
125.2 Million
- Japanese Average Life Expectancy (As 2021.09)
Female 87.74 years old
Male 81.64 years old



Changes in the Population Pyramid

(<http://www.mlit.go.jp/hakusho/mlit/h14/H14/html>)



Mt. Fuji-shaped
in 1950

Gourd-shaped
in 2000

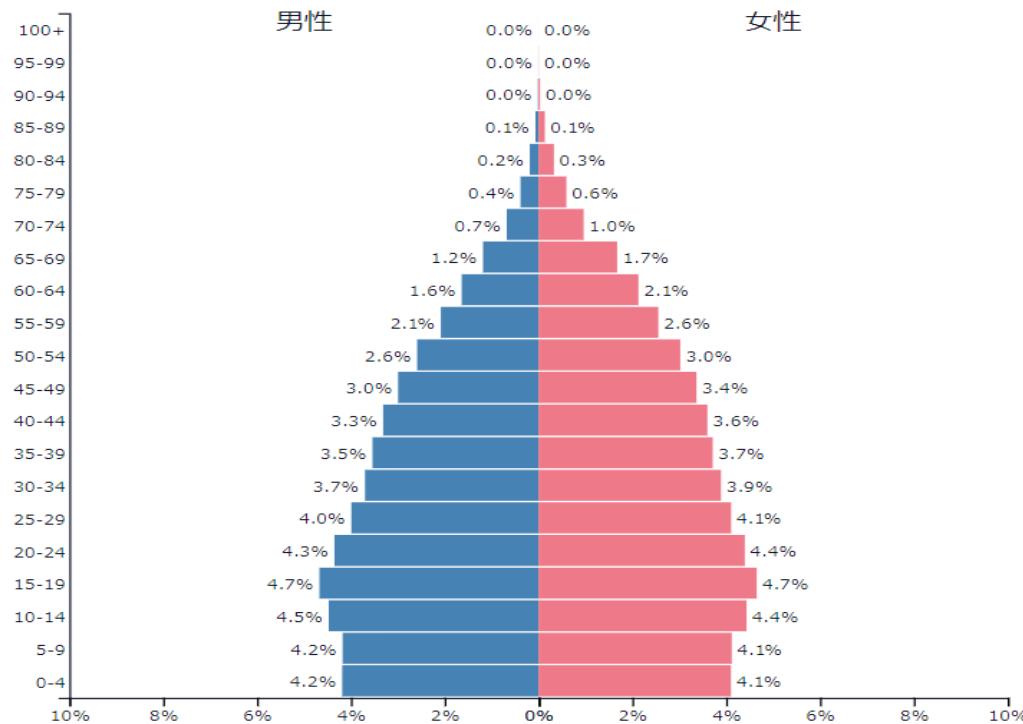


in 2050

ミャンマー ▼

2020

人口: 54,409,794



[Download](#) - [Excel](#) [CSV](#) - [Sources](#)

この国の移民の数を表示

Dear m/s more than 125 years ago !

Marquess Ōkuma Shigenobu

Founder of Waseda University

We can live to be 125 Years Old !



Urgent Needs !!



In Japan,

Urgent needs of schemes which support seniors

- to vividly and meaningfully live,

Namely,

- to live a life with high QOL (Quality of Life)

or

- to live with IKIGAI (Motivation in Life)



4.2 QOL of Senior

4.2.1 QOL

(Source: Wikipedia)

*The term **Quality Of Life** is used
to evaluate the **general well-being** of individuals
and societies.*

*The **Quality Of Life** include
not only wealth and employment,*

*but also the built environment, physical and mental
health, education, recreation and leisure time, and
social belonging.*



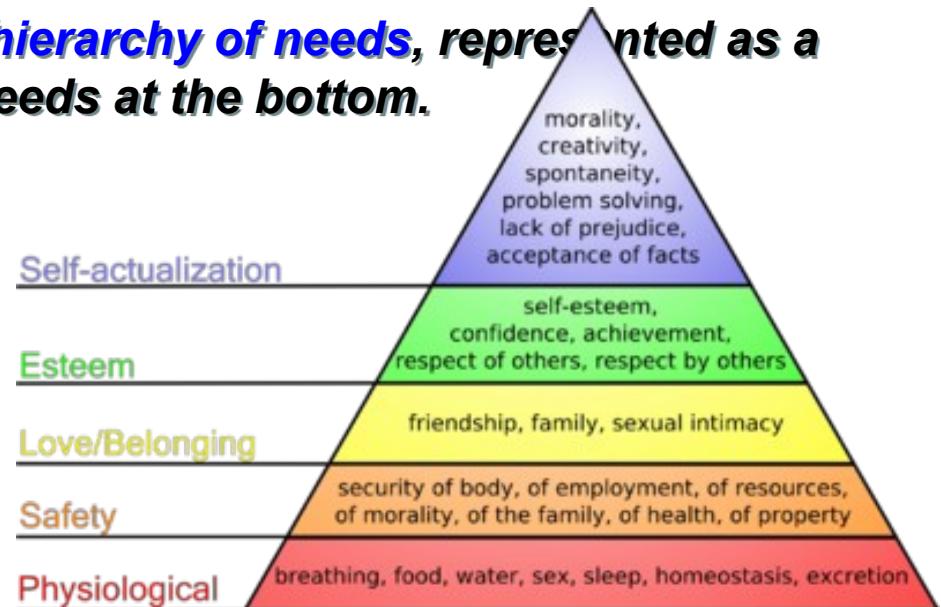
4.2.2 Maslow's Hierarchy of Needs

(Source: Wikipedia, 2021

http://en.wikipedia.org/wiki/Maslow%27s_hierarchy_of_needs)

4.2.2.1 Model

- **Maslow's hierarchy of needs** is a theory in psychology, proposed by Abraham H. Maslow in his 1943 paper, “A Theory of Human Motivation”.
- An interpretation of **Maslow's hierarchy of needs**, represented as a pyramid with the more basic needs at the bottom.





4.2.2 Maslow's Hierarchy of Needs

4.2.2.2 A conclusion

People would look for **higher level of needs** such as love/**social belongings**, esteem and self-actualization,

if **lower level of needs** such as physiological needs and safety needs are met.



4.2.3 Survey by A. Bowling et al.

(Source: INT'L. J. AGING AND HUMAN DEVELOPMENT, Vol. 56(4)
269-306, 2003)

“Let’s ask them: a national survey of definition of quality of life and its enhancement among people aged 65 and over”

4.2.3.1 Summary of the Survey

- ***This study aimed to explore older peoples’ definitions of, and priorities for, a good Quality of Life for themselves and their peers.***



4.2.3.2 Findings (1)

- 1) ***Good social relationships*** were the most commonly mentioned constituent that gave respondents' lives quality (mentioned by 81 percent).
- 2) Other important factors were ***social roles and activities, health, psychological outlook and well-being, home and neighborhood, finances, and independence.***



4.2.3.2 Findings (2)

- 3) ***Social relationships and health were judged to be the most important areas.***
- 4) ***Having health and enough money were the two most frequently mentioned things that would improve the quality of their own lives and those of their peers (though in different order of magnitude).***



4.2.3.3 Conclusion

In connection with “Social relationship” and
“ Social roles and activities”, in A. Bowling ’s
Survey,

“ Social Participation”

elements

of Seniors.

is one of Key
for improving QOL



4.3 My Dreams: Paradigms for Seniors' Social Participation

4.3.1 Social Media (Source: 2010 White Paper Information and Communications in Japan)

- **Social Media such as Facebook, Twitter and Instagram can strengthen Community Ties.**
- **Community Ties include**
 - **Ties with family and relatives**
 - **Ties with friends and acquaintances**
 - **Ties with community residences**
 - **Ties for Intergeneration**
 - **Ties for workplaces**



4.3.2 Senior Net (1)

(Source:*2010 White Paper Information and Communications in Japan*)

- 1) *As the population continues to age, there is an increasing trend towards the elderly living alone and towards requiring more support and nursing care*
- 2) *Urgent needs*
 - *Support for active social participation by active seniors*
 - *Lifestyle support for elderly*



4.3.2 Senior Net (2)

(Source:*2010 White Paper Information and Communications in Japan*)

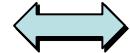
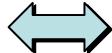
3) “*Seniornet*” managed by NPO in Japan

- *provides a venue for seniors to learn from one another about how to use ICT*
- *improves communications amongst participant members through the use of ICT*
- *widens the scope of social participation for members*



4.3.3 G2G Communication Paradigms (1)

- The survey by A. Bowling et al. points out that
“contact with grandchildren (and being able to play and go out with them) was frequently mentioned.
- My Dream : Building **G2G communication paradigms** through the use of ICT.



Grandparents

Grandchildren



4.3.3 G2G Communication Paradigms (2)

- **My dream : Building G2G communication paradigms through the use of ICT.**



Generation A (こんにちは
?_?)

Generation (う`



With an Almighty Translator



5. Your Dreams

Now is time for you to talk about your dreams !



6 . Conclusion

“ If you can dream it, you can do it !”

“ There is no success for those without d



Therefore, Let's talk about Dream