

Quality of Life(QoL) Indicators in KOREA

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I

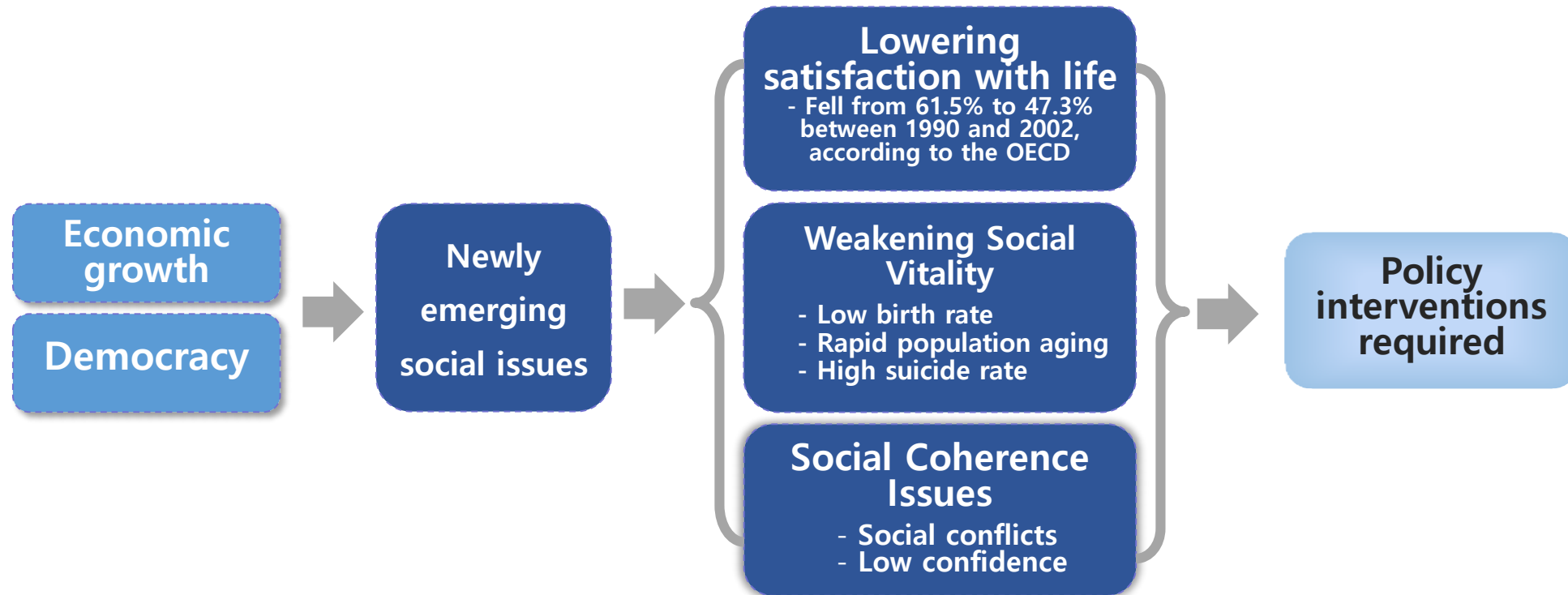
Background



I Background

◀ Domestic Circumstances

- Despite of successful economic growth and democracy, Korean society was faced with emerging social issues





I Background

International circumstances: gaining momentum of measuring well-being

Growing awareness

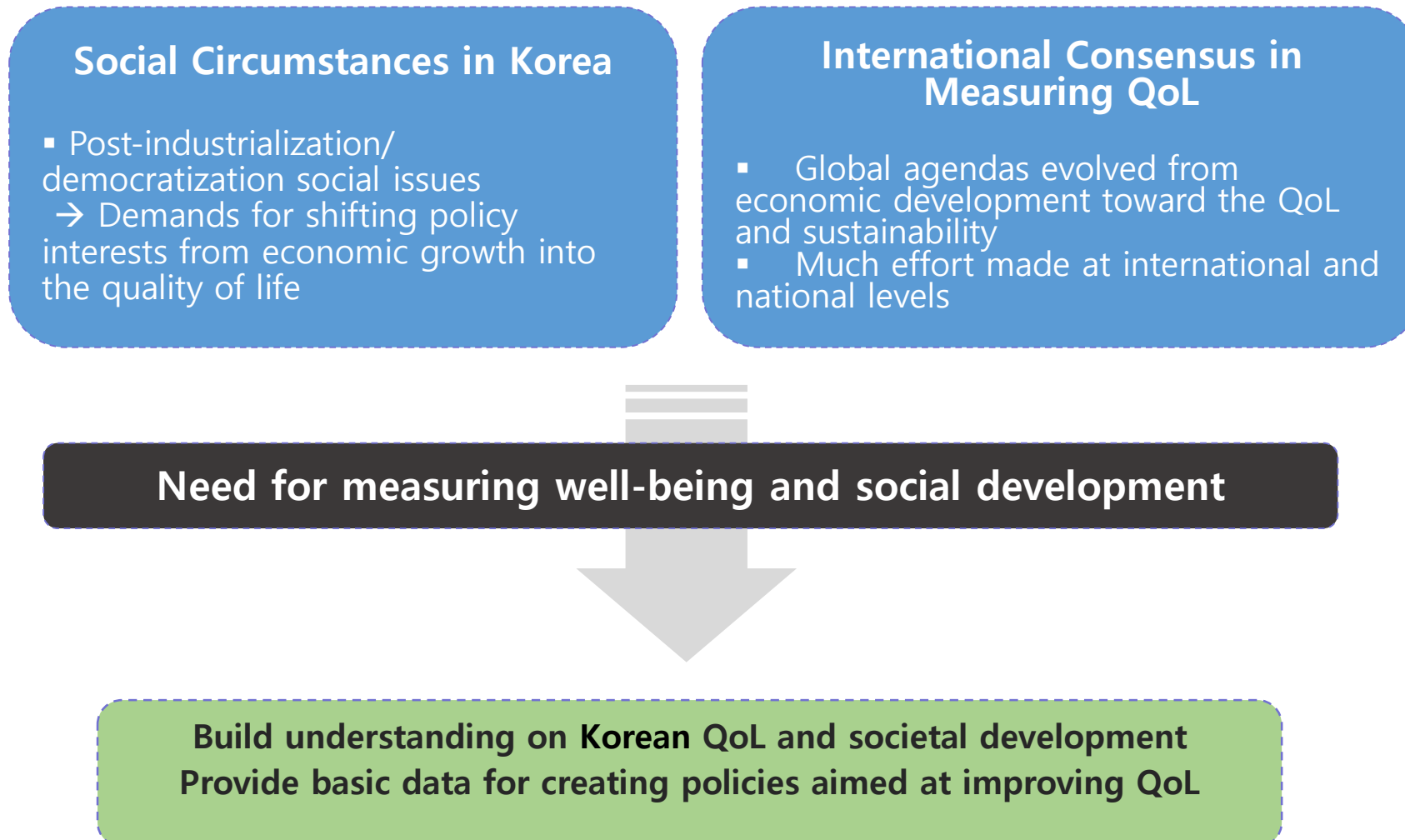
- The focus shifting from the economic growth into the QoL and environment since 90's
 - Growing recognition of the importance of QoL and sustainability
 - Need for overcoming the limitations of the GDP and its economic focus

International and National Efforts

- The OECD Global Project (2004)→3rd World Forum in Busan (2009)→ BLI Report (2011)
- The Report of Stiglitz Commission (2009)
- Country Cases
 - Canada – CIW (Canadian Index of Wellbeing)
 - Australia – MAP (Measures of Australia's Progress)
 - Britain – MNWB (Measuring National Well-being)
 - Japan – MNWB (Measuring National Well-being)
 - Bhutan – GNH (Gross National Happiness)
 - Italy – BES (Benessere Equo e Sostenibile)
 - Mexico
 - Portugal



I Background





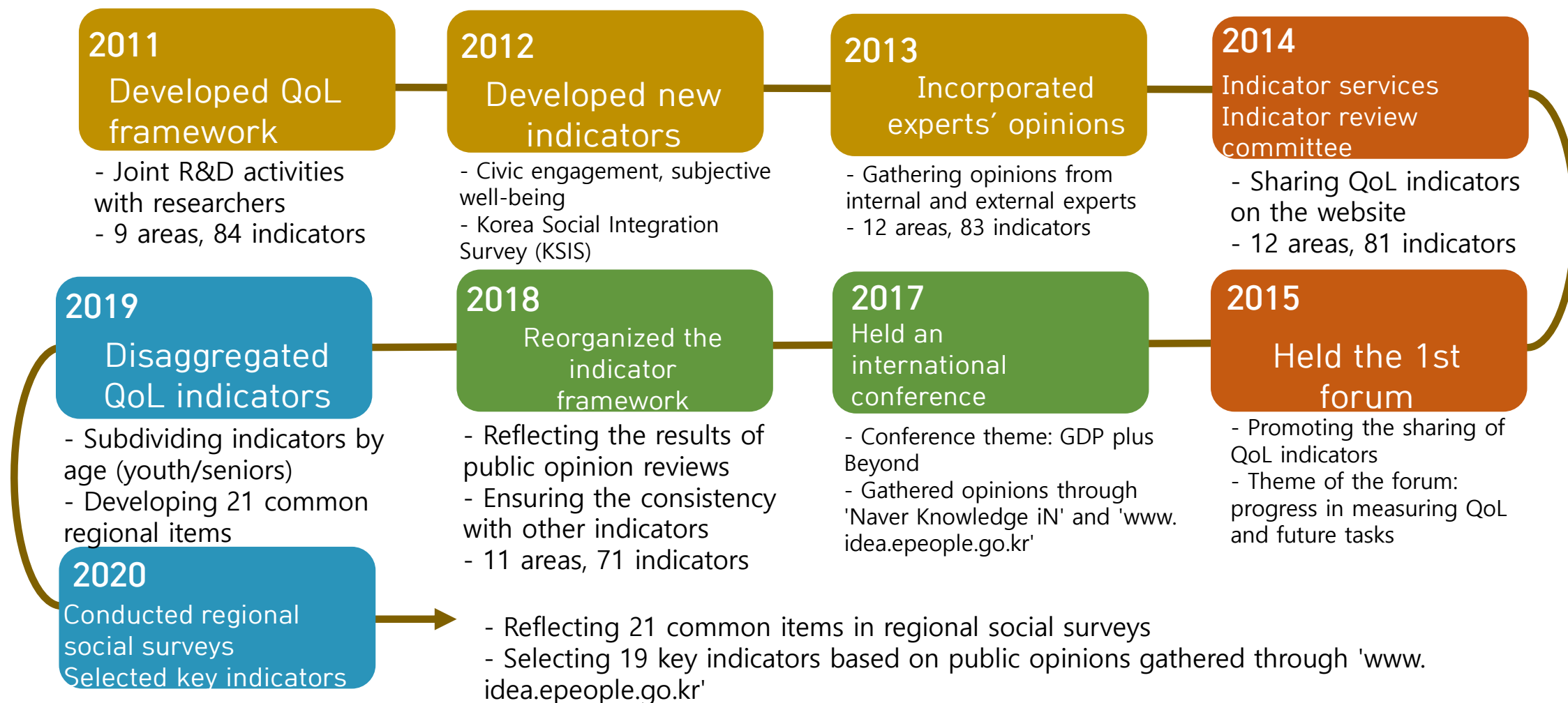
II

Progress



II Progress

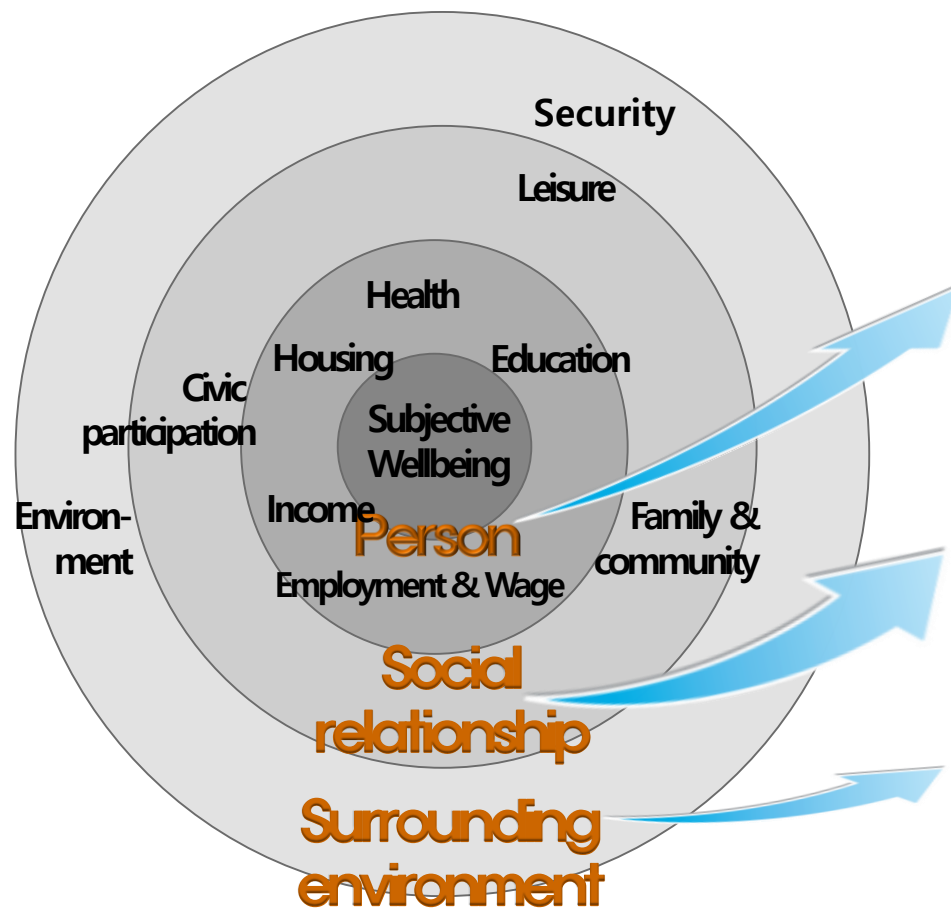
➔ What We've Achieved So Far





II Progress

➔ QoL Measurement Mandala: 3 dimensions, 11 areas



Dimensions	Targets	Specifications
Person	Capable and empowered individuals	Each individual will: <ul style="list-style-type: none">• Have education to acquire knowledge and work ability;• Benefit from economic comforts and social assurance; and• Enjoy a healthy life.
Social Relationship	Active and caring communities	Communities will: <ul style="list-style-type: none">• Cultivate social coherence;• Foster civic engagement; and• Provide leisure activities and cultural experience.
Environment	Safe and sustainable environment	The environment will be: <ul style="list-style-type: none">• Free from dangers; and• Protected for a sustainable living.



➔ Criteria for Selecting Indicators

Data Quality

- Official Statistics
- Coverage
- Time-series

Relevance

- Face Validity
- Output orientation
- Understandability
- Policy responsiveness
- Relevant to National context

Impartiality

- Not influenced by political orientation



II Progress

➔ Summary of Korean QoL Indicators : 11 dimensions, 71 indicators

Dimension	Objective indicator (42)	Subjective indicator (29)
Family and Community (3, 2)	live-alone elderly rate, participation rate in social institutions, social isolation	family relationship satisfactory index, sense of belonging to a community
Health (5, 2)	life expectancy, healthy life expectancy, obesity rate, suicide rate, physical activity rate	self-reported health, stress self-recognition Index
Education (3, 3)	pre-school enrollment rate, population with tertiary education, employment rate of college graduates	efficiency of school education, school life satisfaction index, degree of education cost burden
Employment and Wage (5, 1)	employment rate, unemployment rate, average earned income of workers(real), working time, proportion of low-paid workers	job satisfaction index
Income, Consumption, Wealth (5, 2)	GNI per capita(real), equalized median income(real), household net financial wealth(real), relative poverty rate, household debt rate	income satisfaction index, consumption satisfaction index
Leisure (4, 2)	leisure time, travel days per person, participation in culture-art-sports event, ratio of consumption expenditure on cultural or leisure activities	leisure satisfaction index, leisure time satisfaction index
Housing (5, 1)	living space per capita, dwelling without basic facilities, commuting time to office, rent to income ratio, home-ownership rate	housing environment satisfaction index
Environment (3, 6)	air pollution(PM2.5), public park size per person in a city, water supply of rural area	climate change recognition index, air quality satisfaction index, water quality satisfaction index, soil satisfaction index, noise satisfaction index, green environment satisfaction index
Safety (7, 2)	homicide rate, crime victimization rate, child abuse rate, road casualty rate, safety accident-induced child death rate, industrial accident mortality, number of fire fatalities	society safety evaluation, feeling safe walking alone at night
Civic Engagement (2, 5)	voting rate, voluntary work participation rate, civic consciousness	perception of political empowerment, corruption recognition, interpersonal trust, trust on authorities
Subjective Wellbeing (0, 3)		life satisfaction index, positive emotions, negative emotions



➔ Showing recent trends



Improvement

The recent measure indicates an improved QoL compared to the previous one.

$$X_t - X_{t-1} > 0$$



No change

The recent QoL measure is the same as the previous measure.

$$X_t - X_{t-1} = 0$$



Deterioration

The recent measure indicates a worse QoL compared to the previous one.

$$X_t - X_{t-1} < 0$$

➔ Key Indicators: 19

Domain	Indicators
Family and Community	social isolation
Health	life expectancy, suicide rate
Education	school life satisfaction index
Employment and Wage	employment rate, unemployment rate
Income, Consumption, Wealth	GNI per capita(real), relative poverty rate
Leisure	leisure time, leisure satisfaction index

Domain	Indicators
Housing	dwelling without basic facilities, rent to income ratio
Environment	air pollution(PM2.5), water quality satisfaction index
Safety	feeling safe walking alone at night, , industrial accident mortality, road casualty rate
Civic Engagement	corruption recognition
Subjective Wellbeing	life satisfaction index



III

Results



III Results

➔ Dashboard(Mar. 2022)



- Improvement : 51 (71.8%)
- Deterioration : 19 (26.8%)
- No change : 1 (1.4%)

Total : 71

Note1) 😊 Improvement

😞 Deterioration

😐 No change

2) The 25 parts marked with * are based on the 2021 measurements. The 44 parts marked with ^ are based on the 2020 measurements.



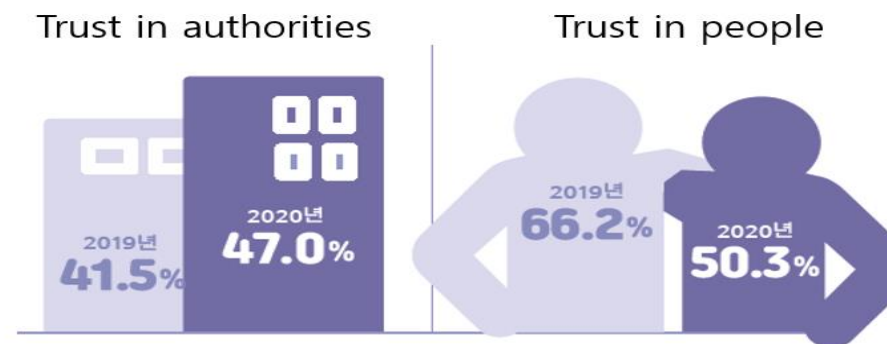
III Results

➔ Covid-19 and QoL

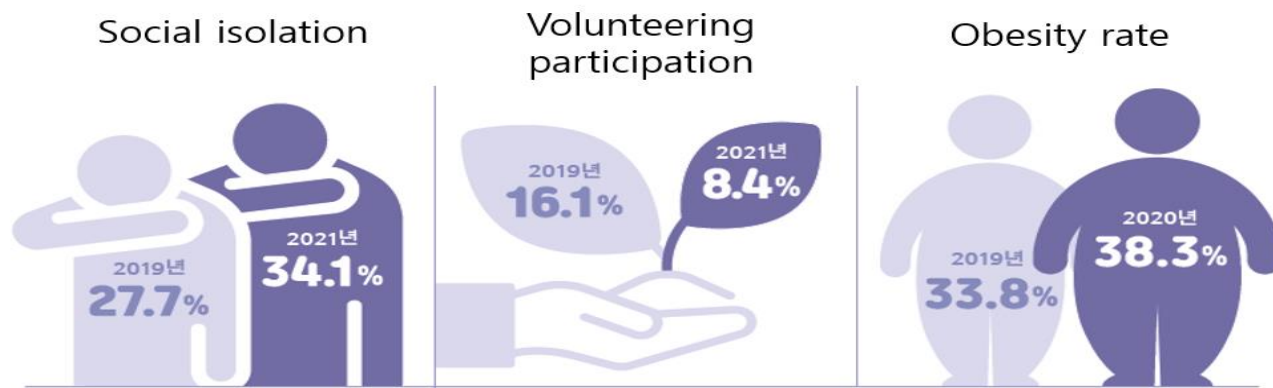
Leisure activities



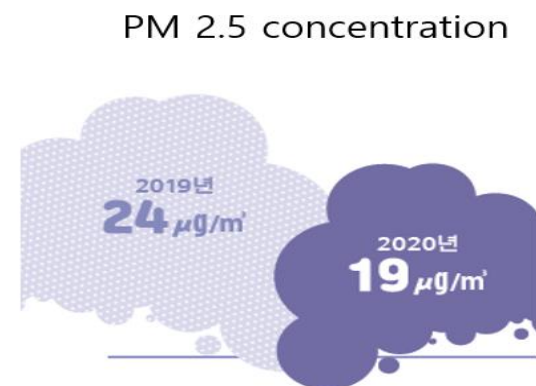
Trust in authorities & people



Social activities and network



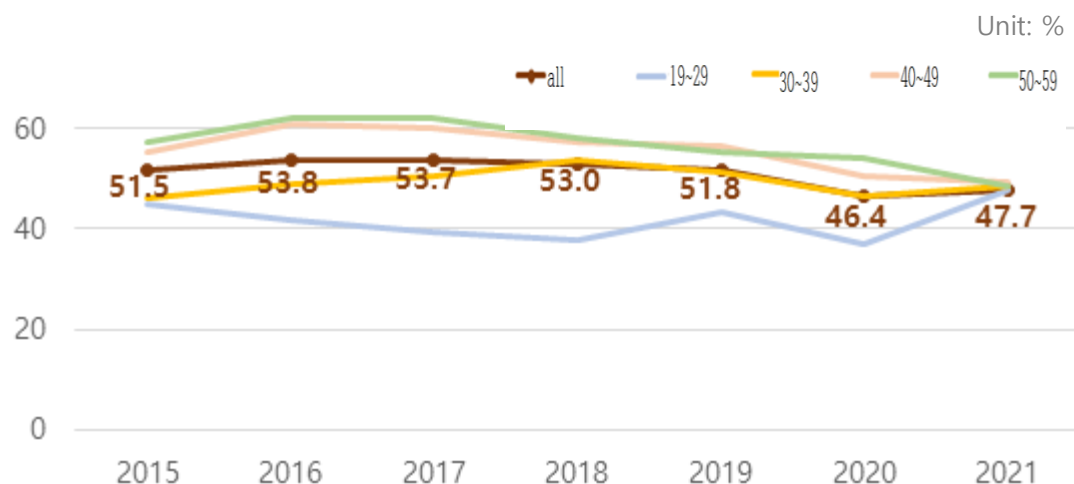
Environment





➔ Korean QoL 2021 : Family and Community

Participation rate
in social institutions (2015-2021)



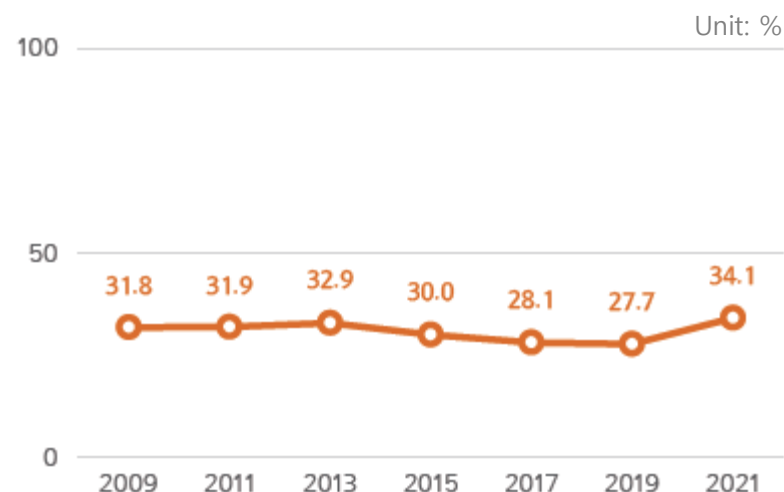
Source: Korea Social Integration Survey (Korea Institute of Public Administration)

Note 1) The chart displays the share of those who are frequently or actively engaged in the work of social institutions.

2) In 2020, the survey target changed from those aged 19-69 to those aged 19 and above.

- The participation rate decreased in 2020 during COVID-19 but slightly recovered in 2021.
- Only the 19-20 age group showed a higher participation rate after the pandemic outbreak.

Social isolation (2009-2021)



Source: Social Survey (Statistics Korea)

Note 1) The chart shows the share of respondents who answered they could get help from others either 'when they are sick and need help with housework' or 'when they need someone to talk to' or in both situations.

2) Survey target: those aged 19 and above

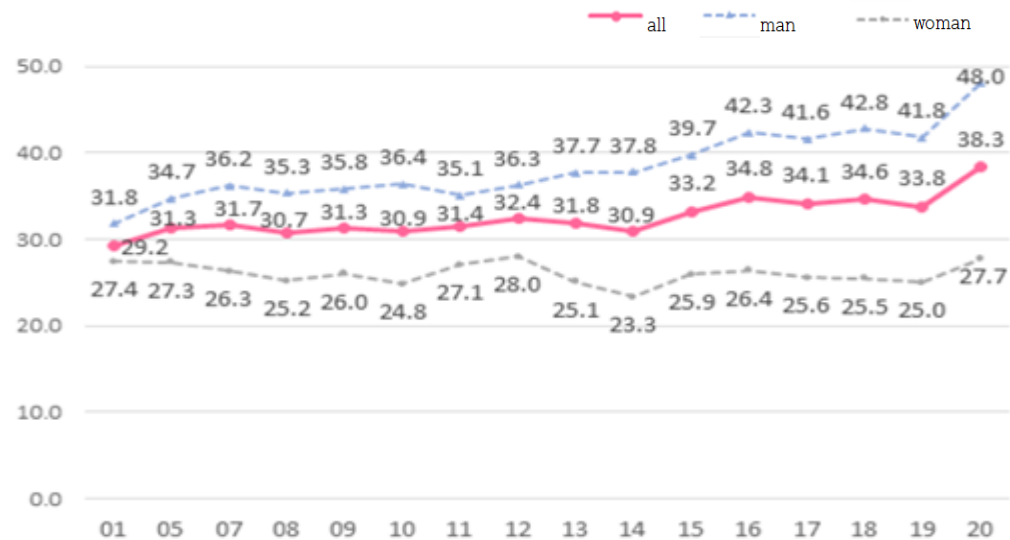
- People who could not get help increased by 6.4%p during COVID-19.



→ Korean QoL 2021 : Health

Obesity rate (2001-2020)

Unit: %

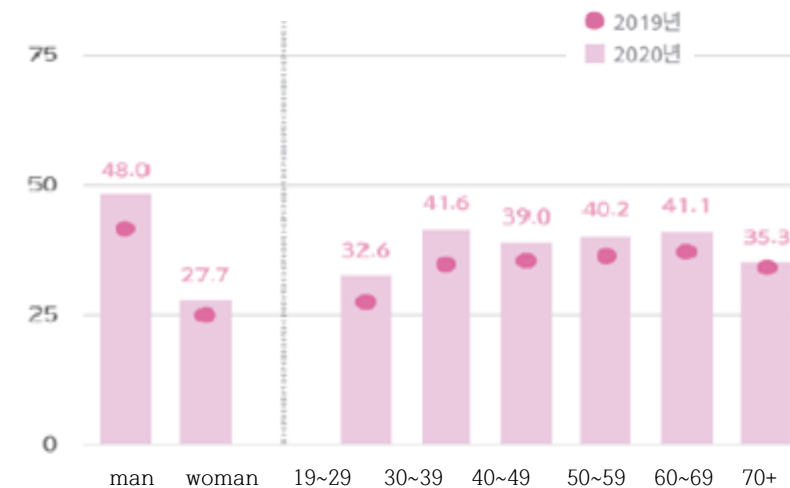


Source: Korea National Health & Nutrition Examination Survey (Korea Centers for Disease Control and Prevention)
Note: The figures depict the share of people with a BMI of 25 or higher and are age-adjusted using the 2005 population estimate.

- The obesity rate was 38.3% in 2020, a sharp increase from 2019.
- The obesity increase rate was higher for men than for women.

Obesity rate for age group (2019-2020)

Unit: %



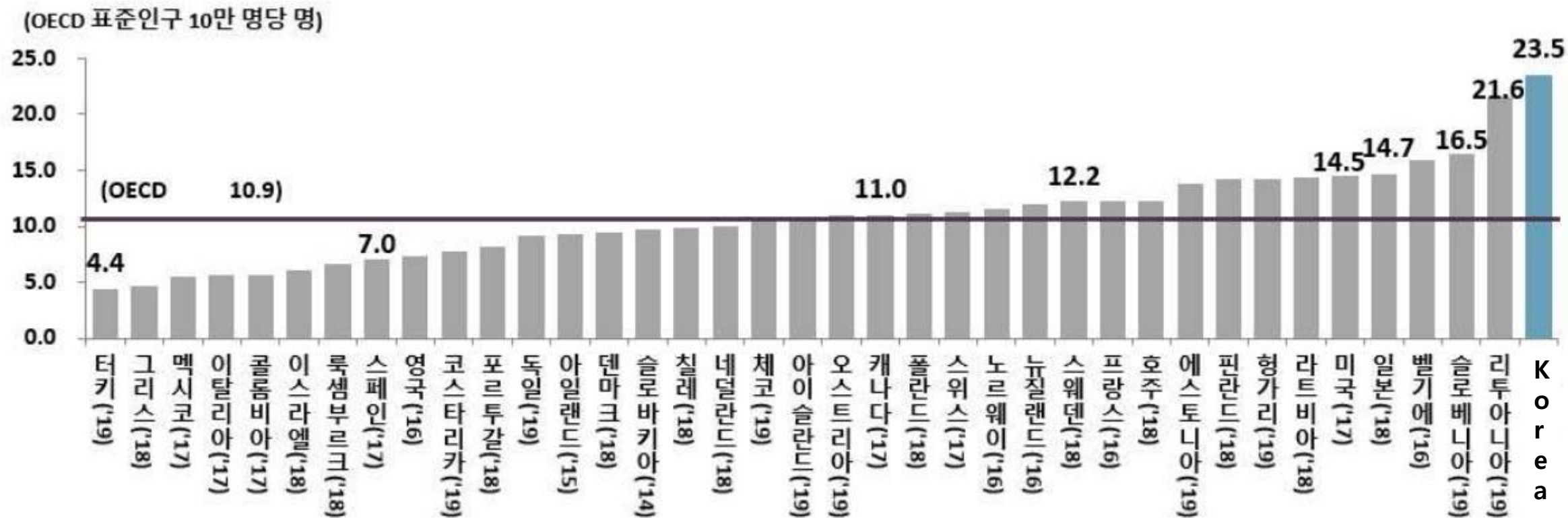
Source: Korea National Health & Nutrition Examination Survey (Korea Centers for Disease Control and Prevention)

- Those aged 20 and below and those aged 70 and above showed a relatively low obesity rate.
- Those aged 30 and below showed a sharp increase in the obesity rate from 2019 to 2020.



→ Korean QoL 2021 : Health

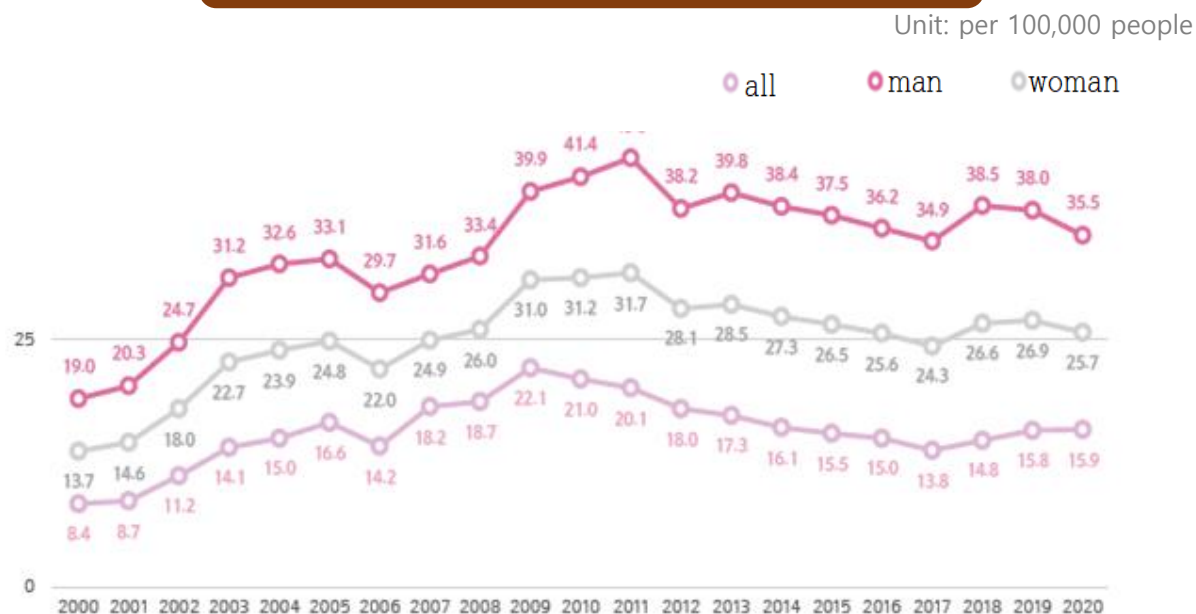
Suicide rate in OECD





➔ Korean QoL 2021 : Health

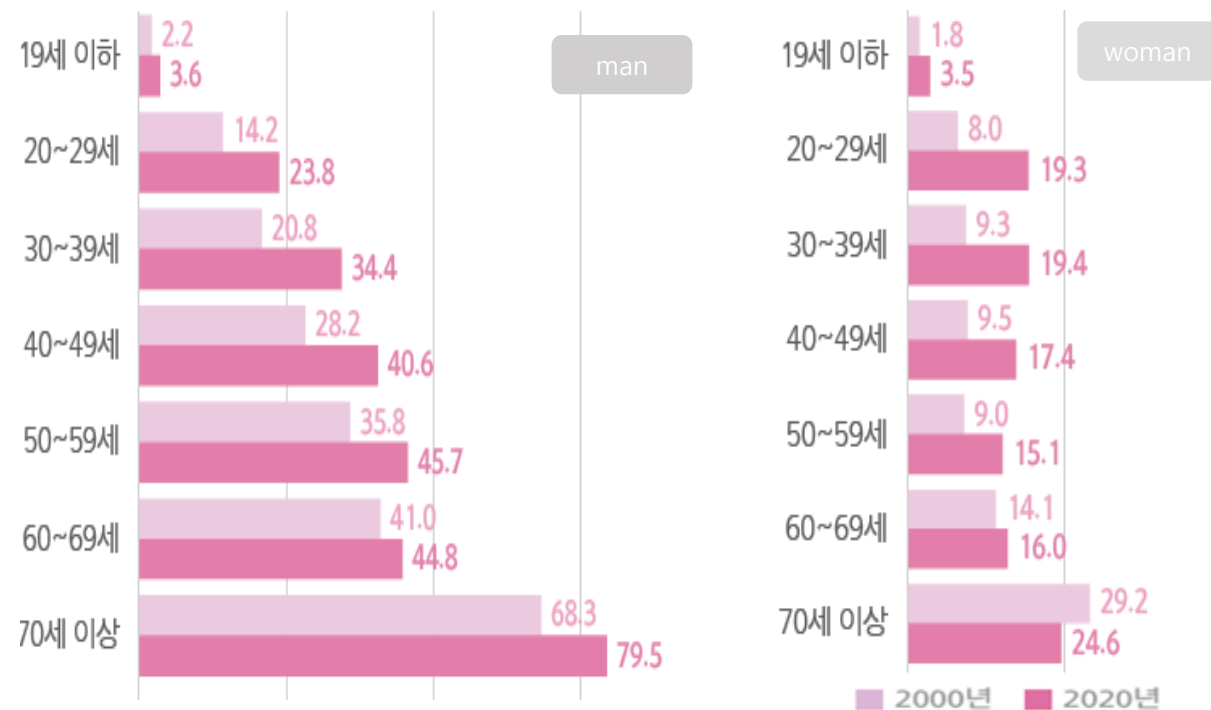
Suicide rate (2001-2020)



Source: Causes of Death Statistics (Statistics Korea)

- In 2020, the overall suicide rate decreased from the previous year. But the rate for women in their 20s and 30s increased (due in part to the impact of COVID-19).

Suicide rate for age, gender (2000-2020)



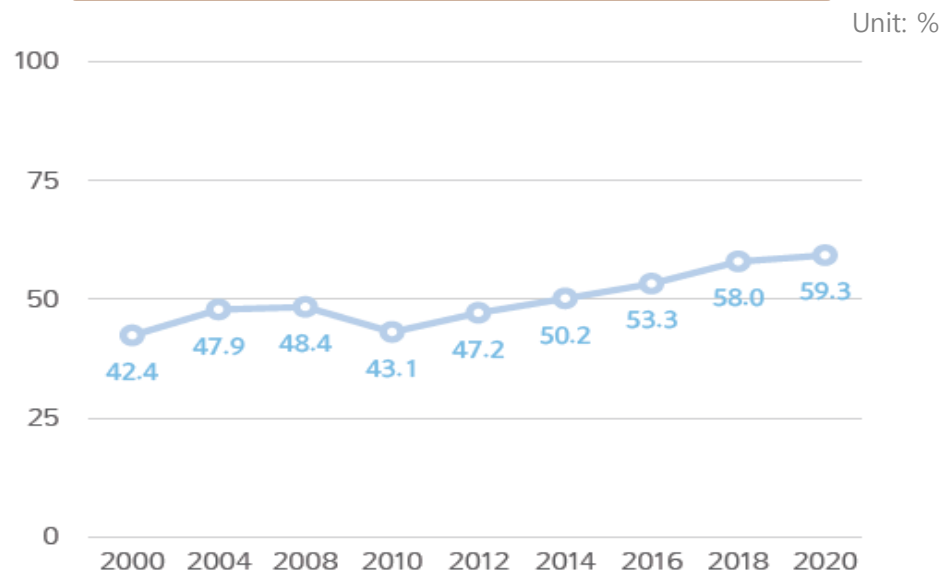
Source: Causes of Death Statistics (Statistics Korea)

- The suicide rate for men increased in all age groups from 2000 to 2020.
- The suicide rate for men aged 70 and above was the highest and continuously increased.
- The suicide rate for women in their 20s and 50s increased significantly from 2000 to 2020.



→ Korean QoL 2021 : Education

School life satisfaction index (2000-2020)

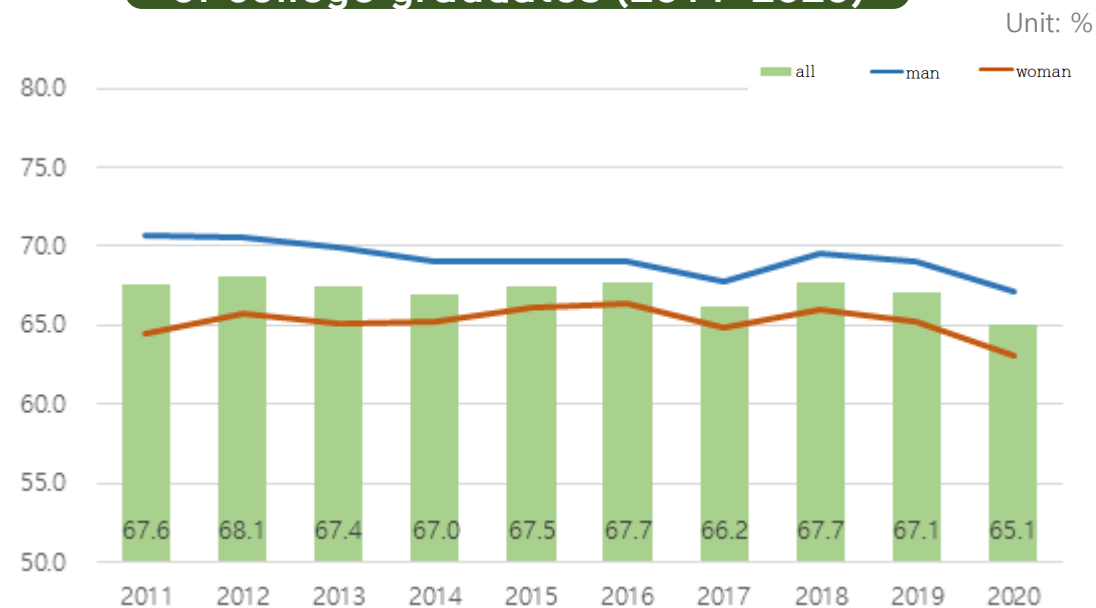


Source: Social Survey (Statistics Korea)

Note: The chart depicts the share of middle and high school students who answered the question about the overall school life with 'very satisfied' or 'slightly satisfied'.

- School life satisfaction among middle and high school students continuously increased.
- Friendship satisfaction declined from 76.6% in 2018 to 73.3% in 2020.

Employment rate of college graduates (2011-2020)



Source: Employment Statistical Yearbook (Korea Educational Development Institute)

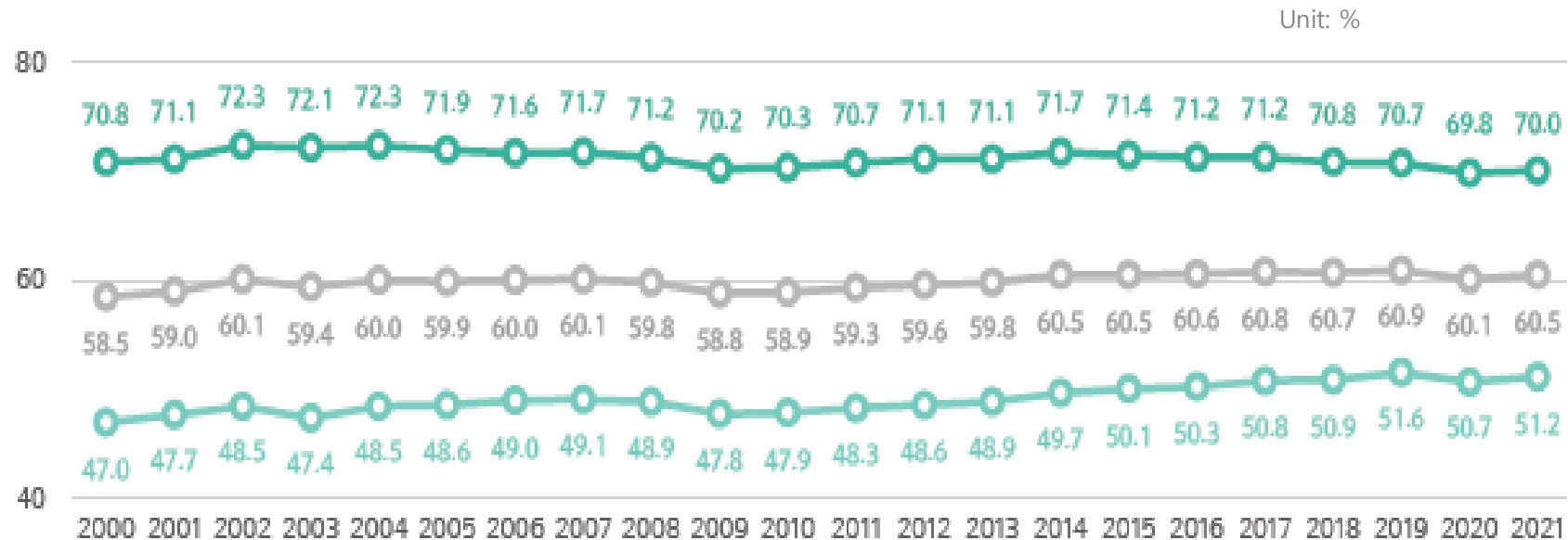
Note: Higher education institutions include universities, 2-year colleges, industrial colleges, and educational colleges.

- The employment rate was 65.1% in 2020, down by 2%p from 2019.



➔ Korean QoL 2021 : Employment and Wage

Employment rate (2000-2021)



Source: Economically Active Population Census (Statistics Korea)

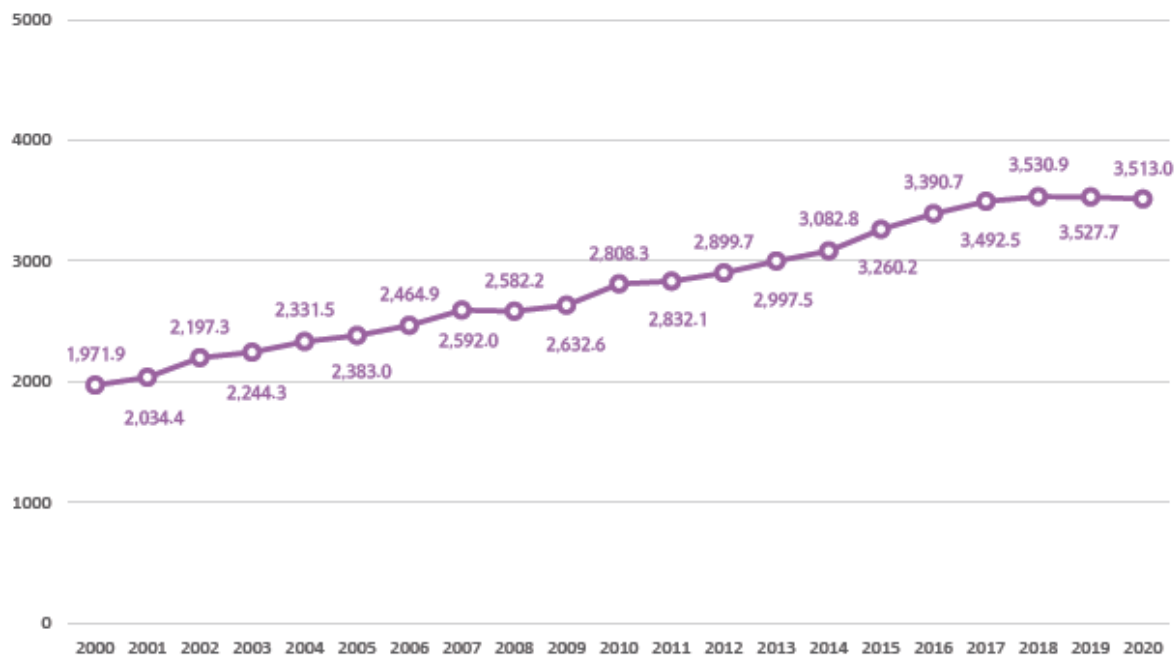
- The employment rate decreased during COVID-19.
- The employment rate slightly increased from 2020 to 2021.
- The male employment rate fell below 70% for the first time since 2000.



➔ Korean QoL 2021 : Income, Consumption, Wealth

GNI per capita(real) (2000-2020)

Unit: 10,000 KRW

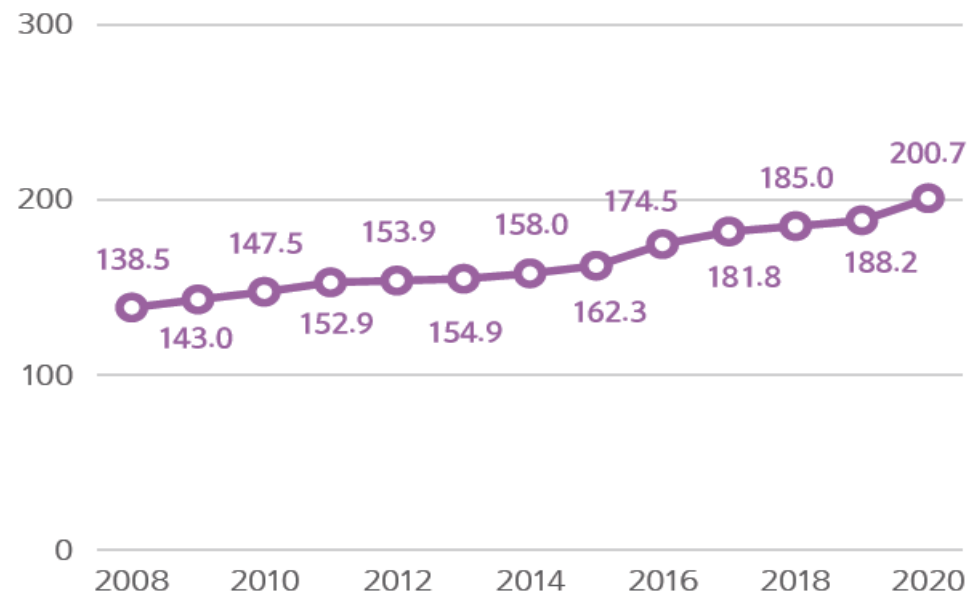


Source: National Account (Bank of Korea), Consumer Price Index (Statistics Korea)
Note: Real GNI was calculated based on CPI (2015 = 100).

- GNI per capita showed an upward trend except for 2008.
- The figure slightly decreased from 2018 to 2019 and declined further in 2020 to 35.13 million KRW.

Household debt rate (2008-2020)

Unit: %



Source : OECD, Stat(stats.oecd.org, 2021년 12월 기준)

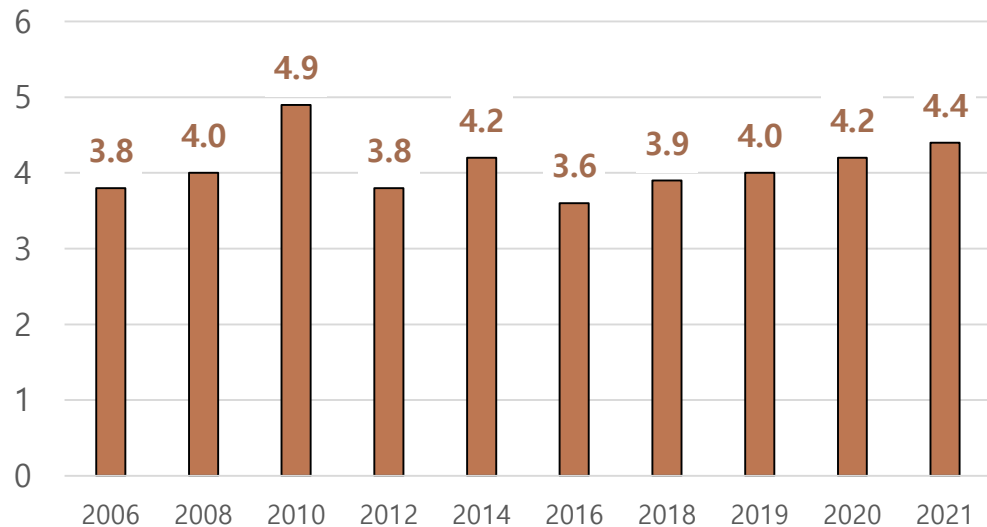
- Household debt rate sharply rose from 188.2% in 2019 to 200.6% in 2020 (an increase of 12.5%).
- Household debt rate has continuously increased since 2008.



→ Korean QoL 2021 : Leisure

Leisure time (2006-2021)

Unit: hours/day



Source: National Leisure Activities Survey (Ministry of Culture, Sports and Tourism)

- Average daily leisure time has increased since 2016.
- Reported leisure time increased during COVID-19.

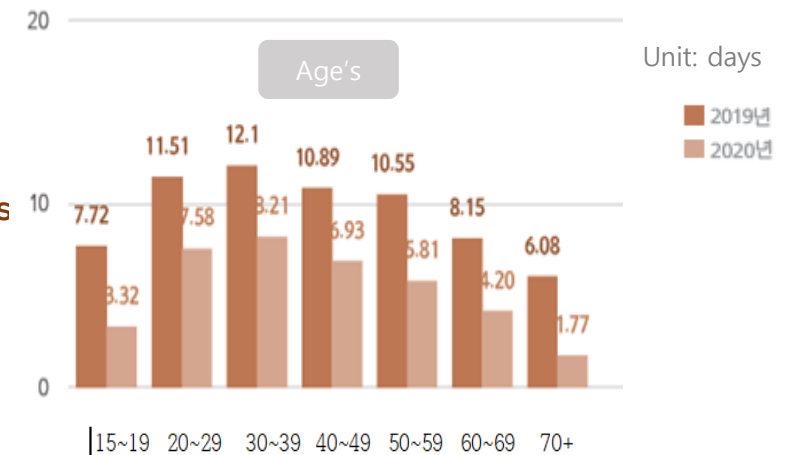
Travel days per person (2018-2021)

2018: 9.49 days

2019: 10.01 days

2020: 5.81 days

2021: 6.58 days



Source: National Travel Survey (Ministry of Culture, Sports and Tourism)

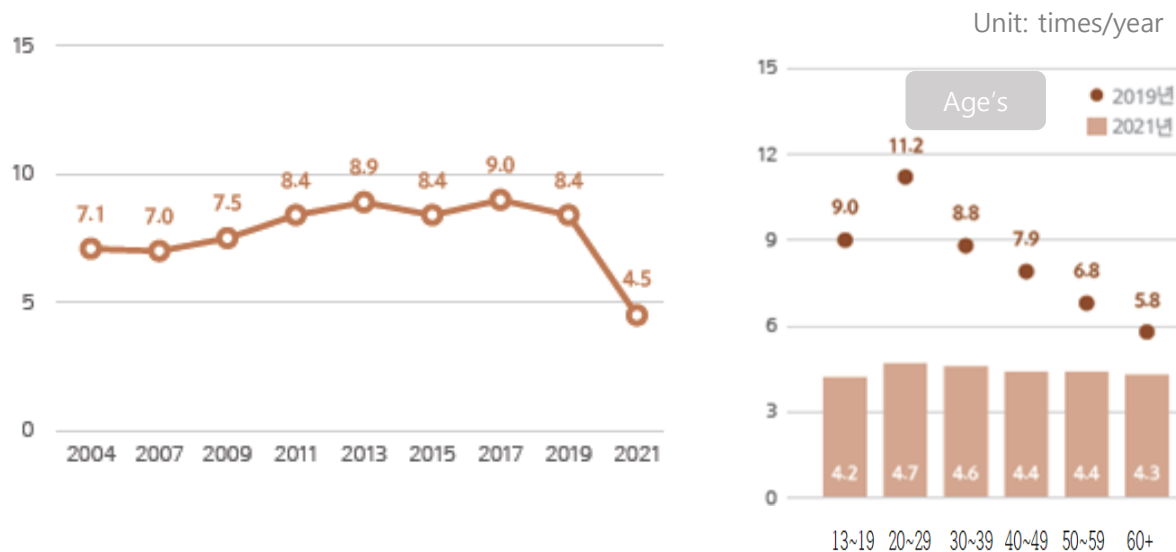
Note: The figures show the domestic travel days per person aged 15 and above.

- Domestic travel days per person fell by half during the pandemic.
- Those aged 70 and above, those aged 15-19, and those aged 60-69 showed a relatively small decrease in travel days.



→ Korean QoL 2021 : Leisure

Participation in culture-art-sports event (2004-2021)

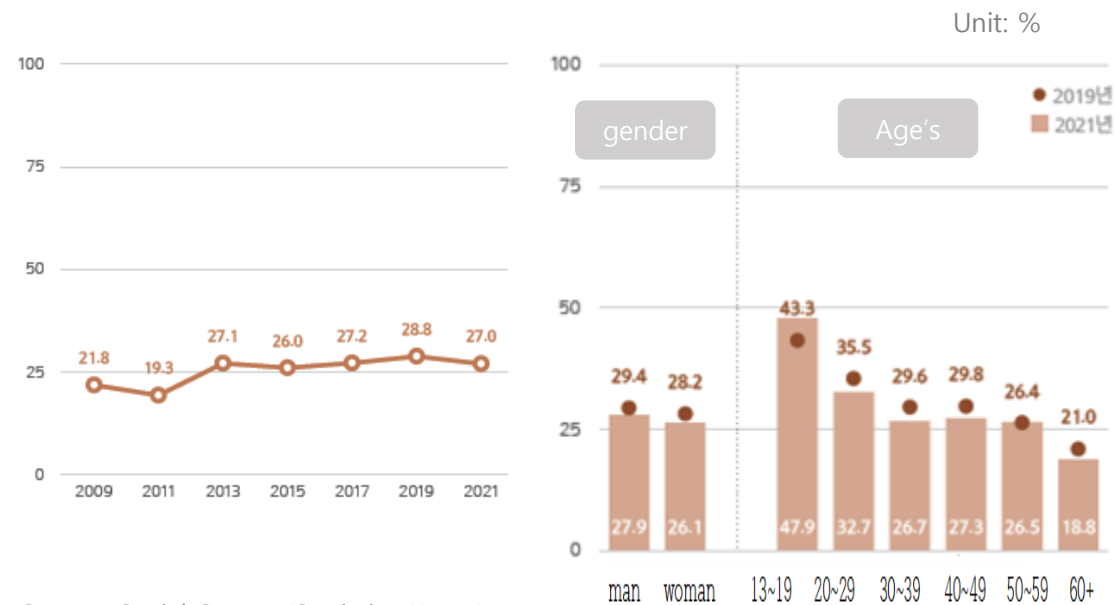


Source: Social Survey (Statistics Korea)

Note: The figures show the average participation in culture-art-sports events per person over the past year.

- Participation in culture-art-sports events decreased by half during the COVID-19 period.
- Different age groups showed different decrease rates, narrowing the existing gaps between age groups.

Leisure satisfaction index (2009-2021)



Source: Social Survey (Statistics Korea)

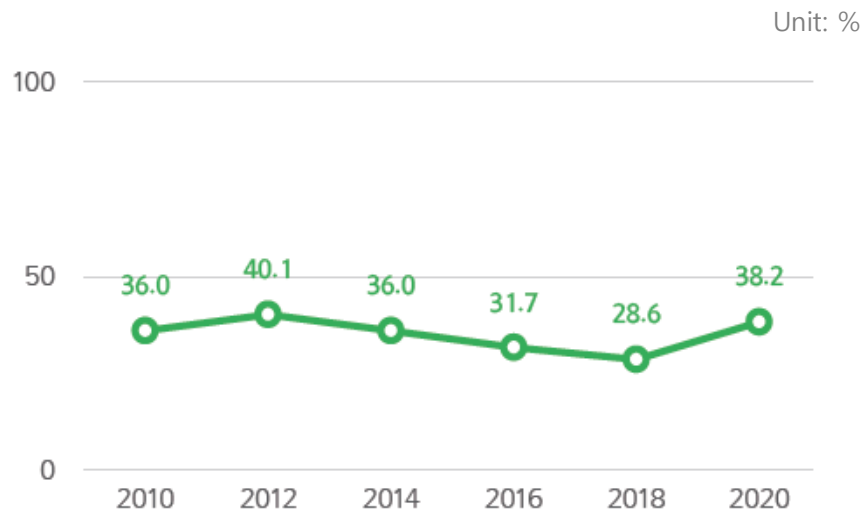
Note: The chart depicts the share of respondents aged 13 and above who answered the question about leisure satisfaction with 'very satisfied' or 'slightly satisfied'.

- Leisure life satisfaction decreased slightly in 2021.
- Those aged 13-19 showed a higher leisure life satisfaction compared to the pre-pandemic level.



→ Korean QoL 2021 : Environment

Air quality satisfaction index (2010-2020)

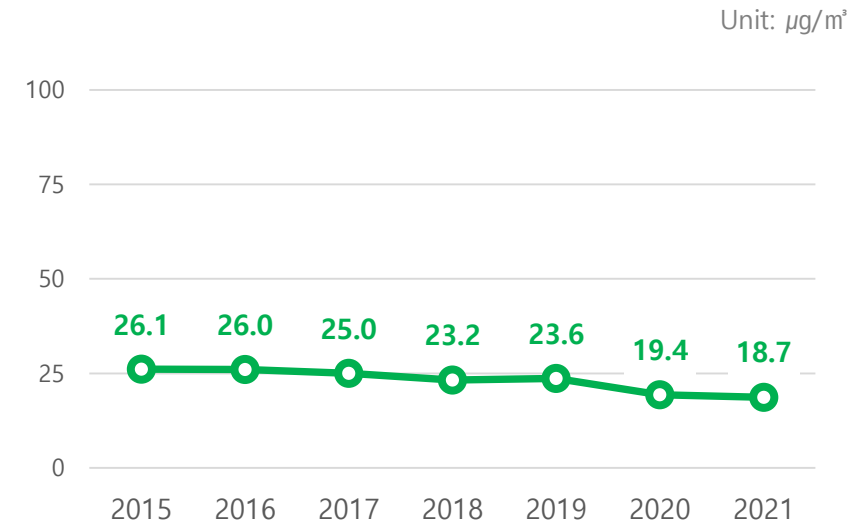


Source: Social Survey (Statistics Korea)

Note: The chart depicts the share of respondents who answered the question about ambient air quality with 'very good' or 'slightly good'.

- Air quality satisfaction was the lowest among other environmental satisfaction levels.
- The figure increased in 2020 by 9.6%p from 2018.

Find dust (PM2.5) (2015-2021)



Source: Annual Report of Ambient Air Quality in Korea (National Institute of Environmental Research)

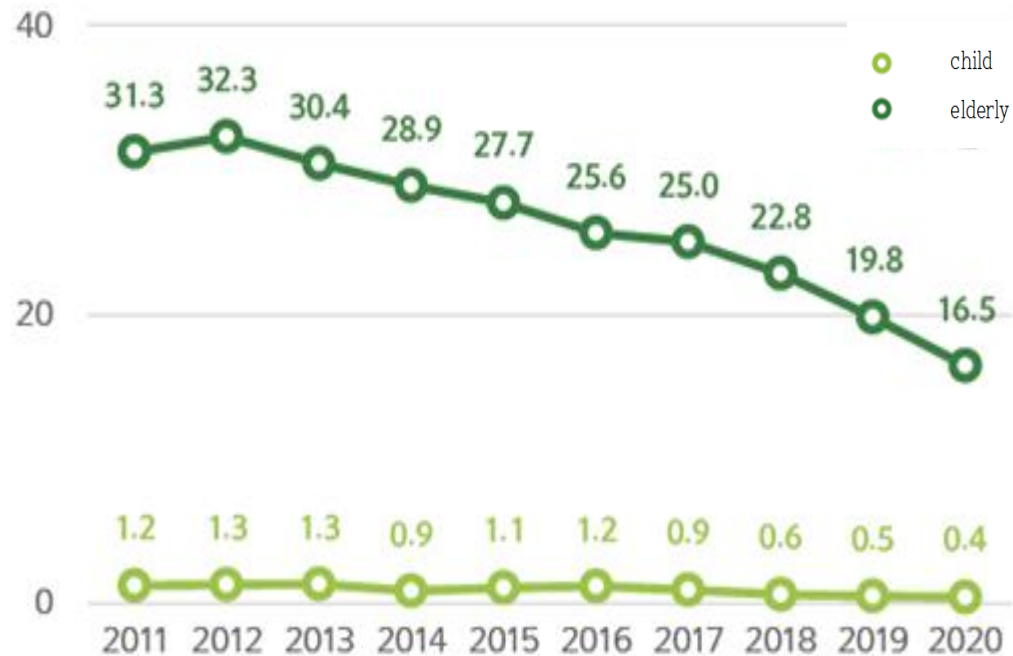
Note: The chart shows the annual population-weighted average concentration of PM 2.5 in 17 cities and provinces.

- PM 2.5 level decreased in 2020 and 2021 during the pandemic.



→ Korean QoL 2021 : Safety

Road casualty rate for child, elderly
(2011-2020)



Source: Traffic Accidents Statistics (National Police Agency), Population Projections (Statistics Korea)

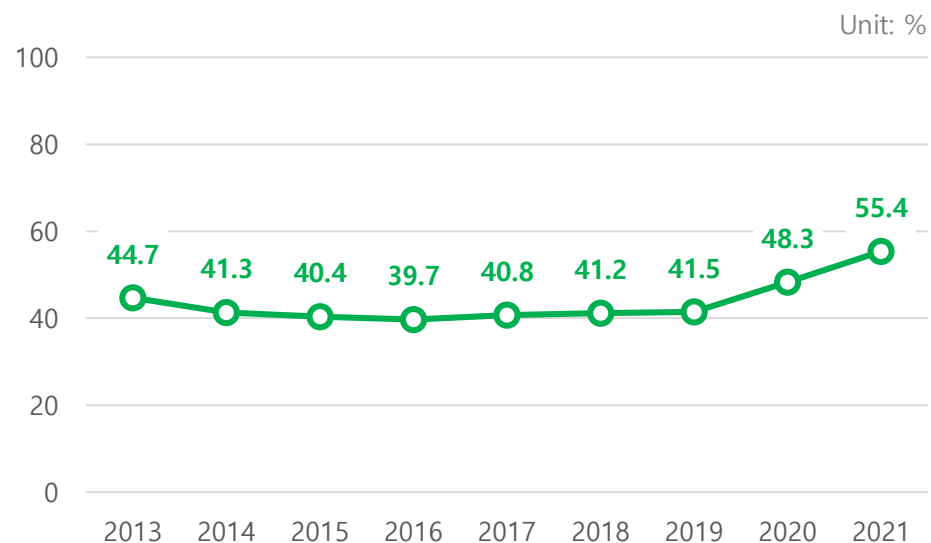
Note: The chart shows the traffic-related death rates of children aged 12 and below and senior citizens aged 65 and above.

- Traffic-related death rates of children and senior citizens have decreased since 2012. (due in particular to the decrease in outdoor activities of the elderly during COVID-19)



➔ Korean QoL 2021 : Civic Engagement

Trust in authorities (2013-2021)



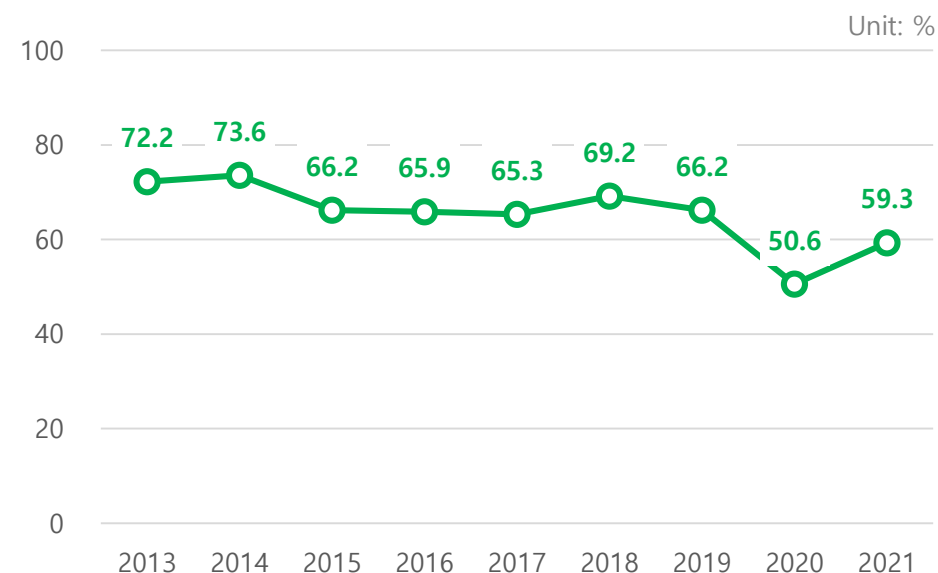
Source: Korea Social Integration Survey (Korea Institute of Public Administration)

Note: 1) The chart shows the share of respondents who answered the question about trust in 26 authorities with 'very trustworthy' or 'somewhat trustworthy'.

2) In 2020, the survey target changed from those aged 19-69 to those aged 19 and above.

- Public trust in the authorities significantly increased during COVID-19.

Interpersonal trust (2013-2021)



Source: Korea Social Integration Survey (Korea Institute of Public Administration)

Note: 1) The chart depicts the share of respondents who answered the question about interpersonal trust with 'very trustworthy' or 'somewhat trustworthy'.

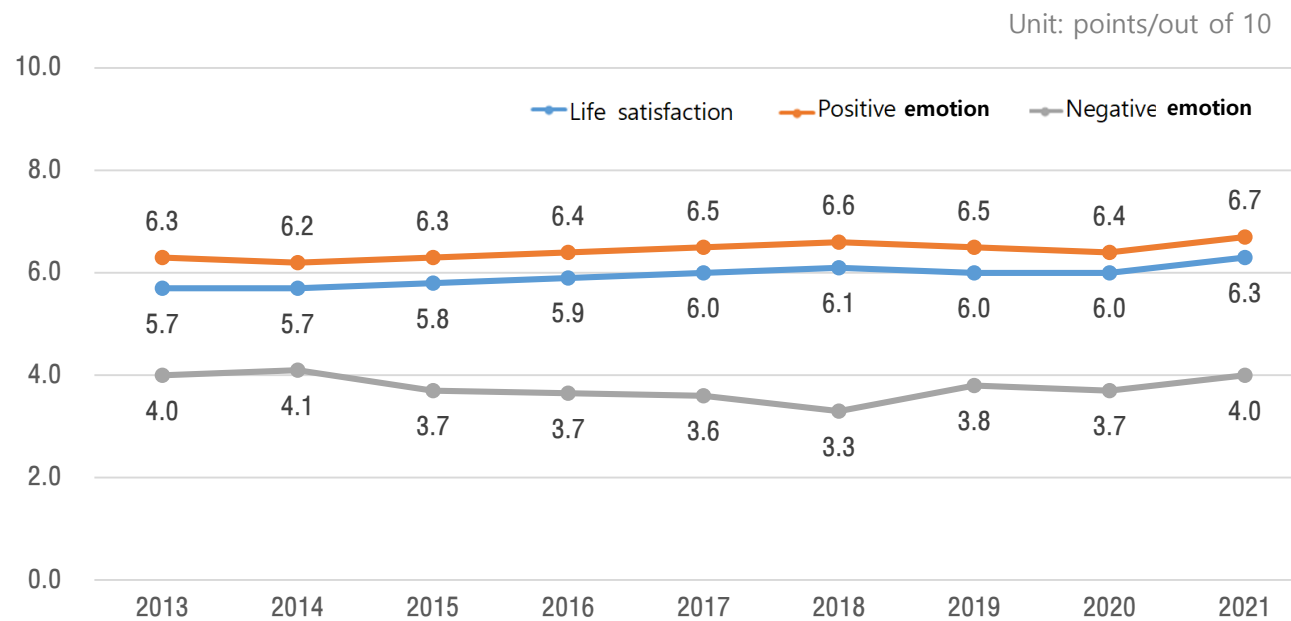
2) In 2020, the survey target changed from those aged 19-69 to those aged 19 and above.

- In 2020, the beginning of the pandemic, interpersonal trust rapidly decreased.
- In 2021, interpersonal trust increased but did not recover to the pre-pandemic level.



→ Korean QoL 2021 : Subjective Wellbeing

Life satisfaction index and emotions (2013-2021)



Source: Korea Social Integration Survey (Korea Institute of Public Administration)

Note: In 2020, the survey target changed from those aged 19-69 to those aged 19 and above.

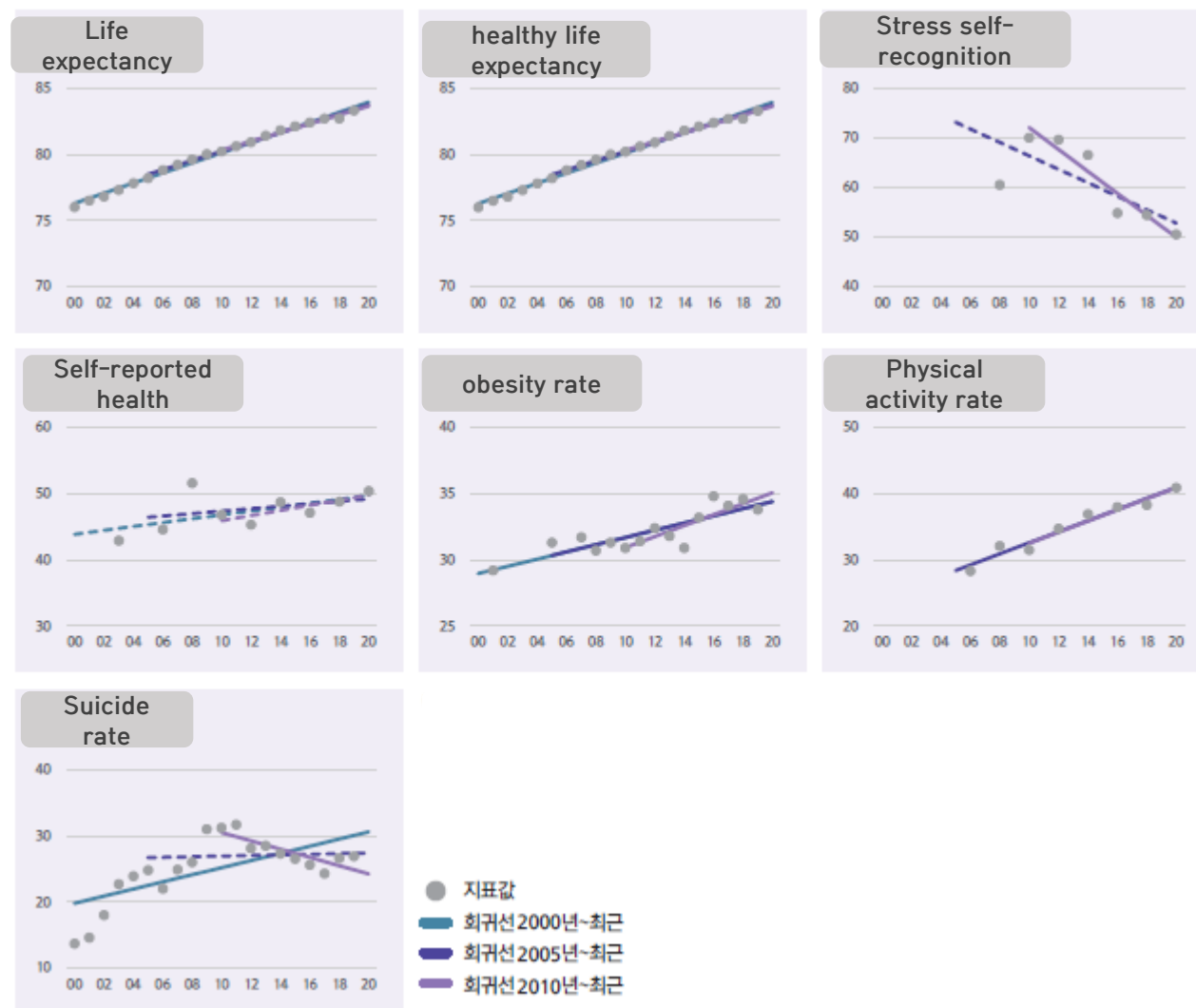
- Index of life satisfaction and positive states stagnated in 2020 before increasing in 2021.
- Index of negative states increased further in 2021.



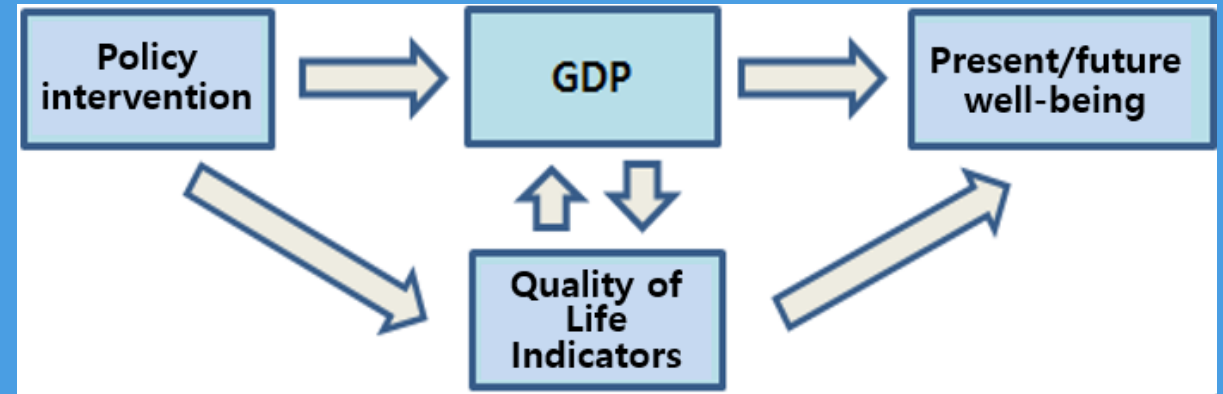
III Results

➔ Korean QoL 2021 : Long term - Health

- Life expectancy, healthy life expectancy, and obesity rate have increased since 2000.
- Stress self-recognition index has decreased since 2010.
- Self-reported health is not statistically significant.
- Physical activity rate has increased since 2005.
- Suicide rate has increased from 2000 to recent years, but shows a downward trend after 2010.



IV



Using for Policy



IV Using for Policy

➔ Policy Use

◀ 3-Step Process

- **(Step 1) Develop instruments (indicators) for an accurate measurement of the QoL**
- **(Step 2) Identify factors influencing the QoL and establish their causal relationships in order to make their use for policy purposes**
 - ➔ Produce and disseminate study reports
- **(Step 3) Apply the lessons in the process of policy formulation, administration, and evaluation**
 - ※ The history of evolution in social indicators proves an extinction of any indicator having failed to make its use in policies.
 - ➔ Relate to the government's vision (ex. the goal of national affairs)
 - ➔ Provide grounds for budgetary and policy decisions (incl. institutional mechanisms)



IV Using for Policy

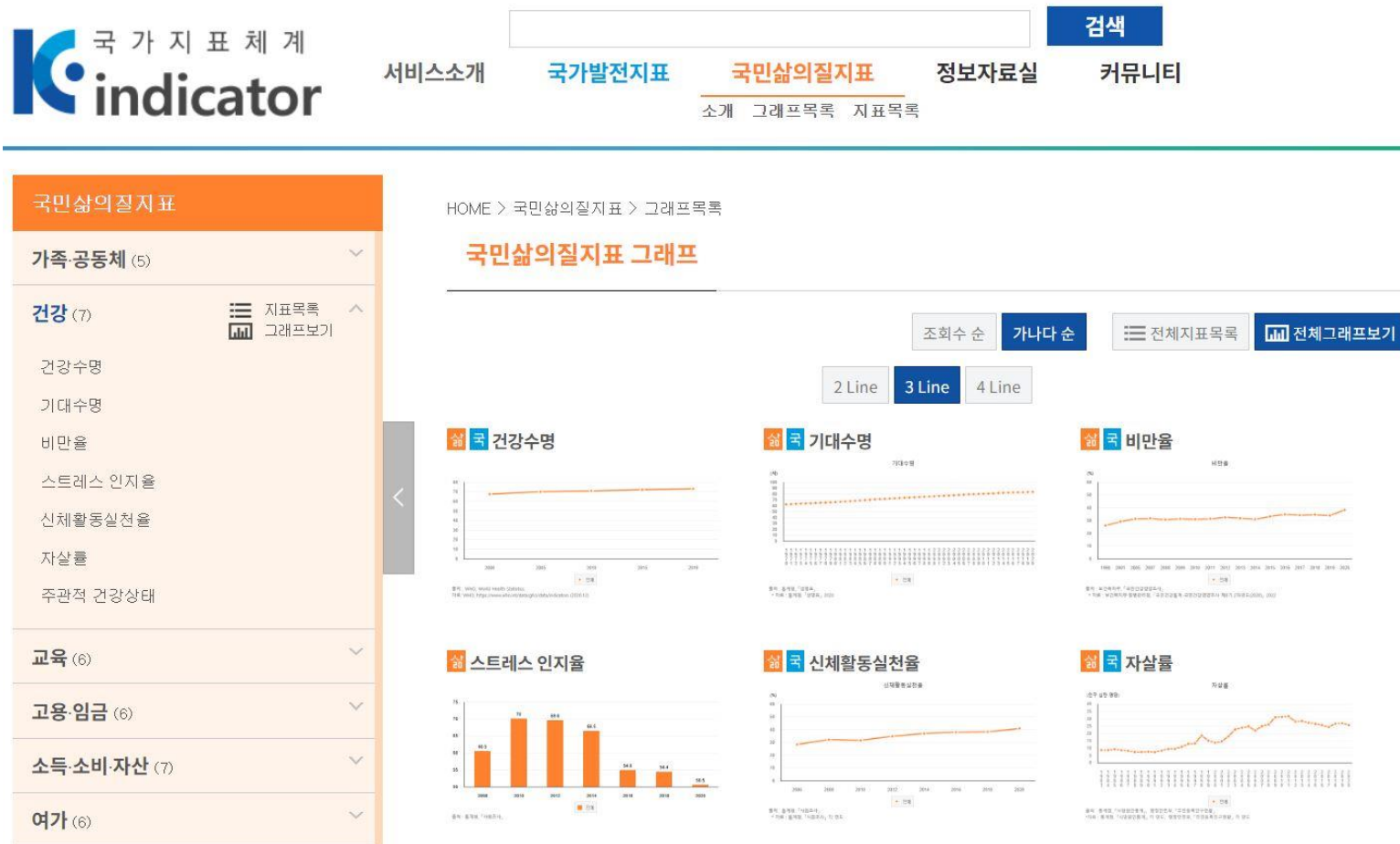
➔ Using Indicator for Policy Action

- ✓ Cases of using well-being indicators for policy-making
 - [New Zealand](#) prioritized the well-being budget when deciding on budget allocation (May 2019).
 - [Italy](#) linked 12 representative indicators with the budget following the Budget Law. Italy also identified the effects of policies on well-being indicators and compared the current well-being trends with policy forecasts.
 - [Iceland](#) allocated a budget based on well-being indicators (2020).
- ✓ Korea has shown a greater policy interest in improving quality of life and happiness and reflected QoL in policy goals.
- ✓ Statistics Korea provides QoL indicators online and creates annual reports, monitoring the QoL status.
- ✓ It is necessary to further disaggregate indicators by population group and region and make better use of them in policy-making.

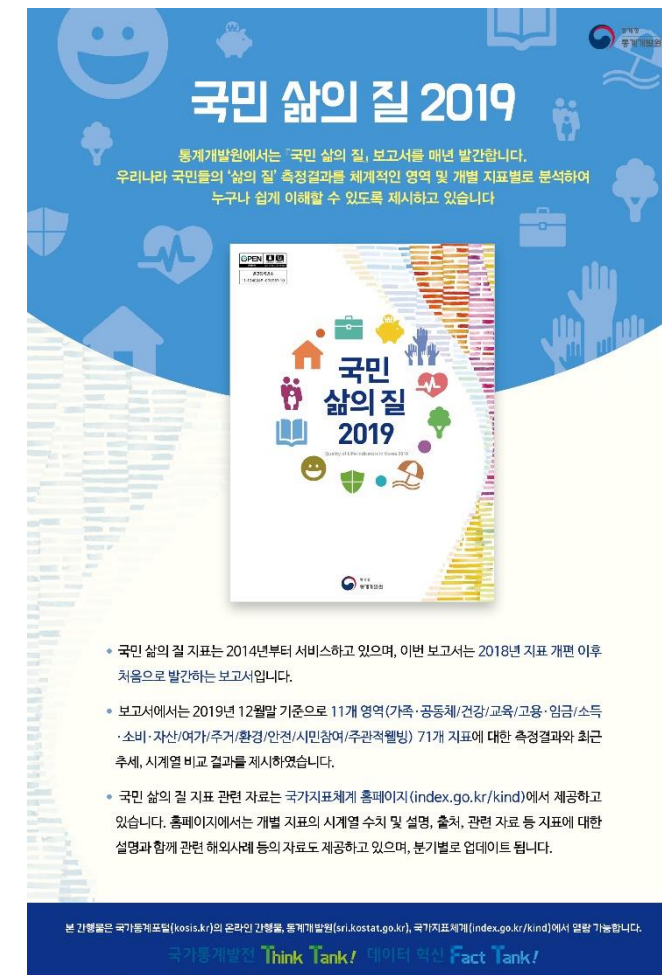
IV Using for Policy

➔ Sharing QoL measures

- Quarterly update QoL indicators on the website (www.index.go.kr/kind)



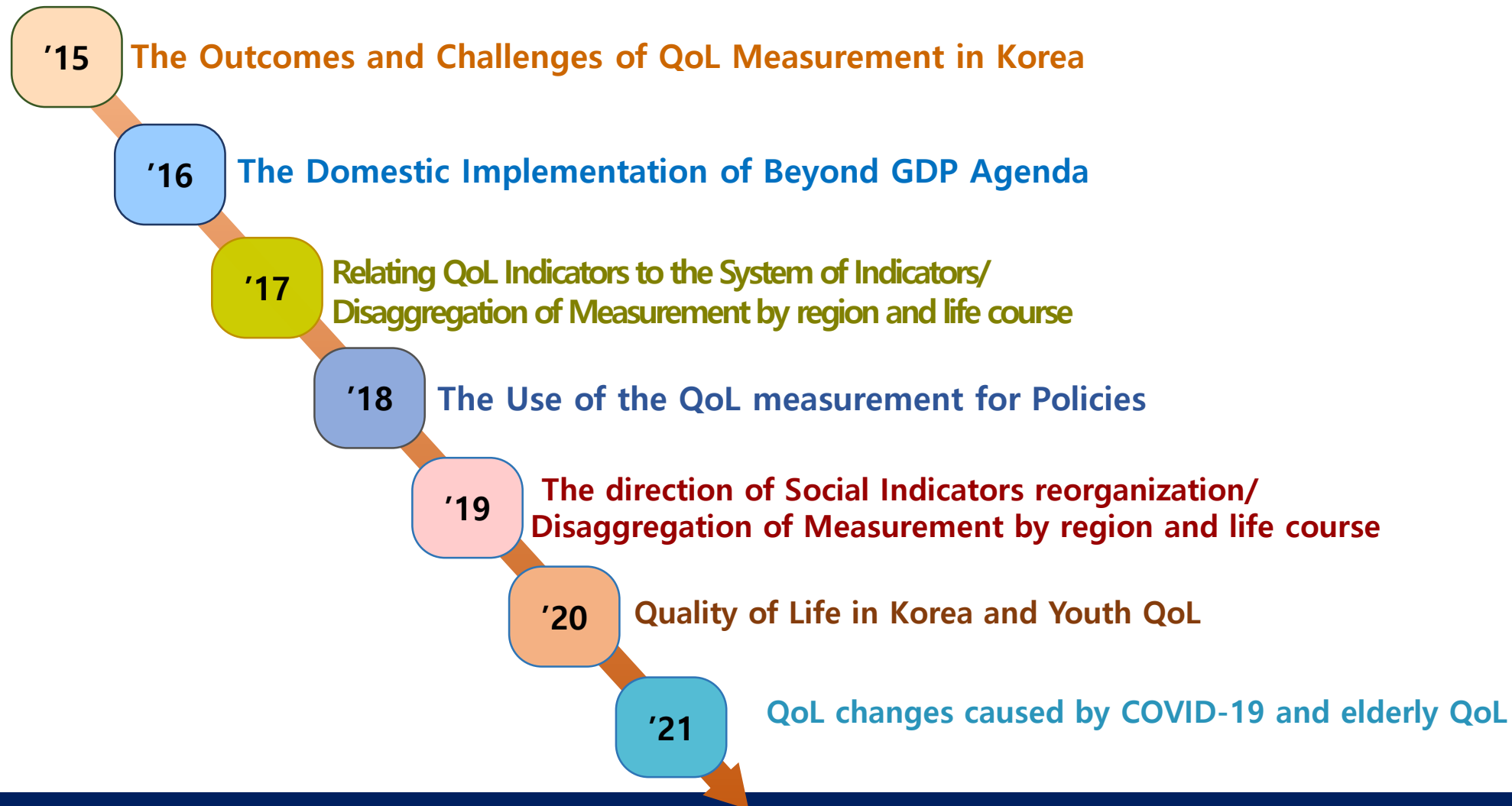
- Publish annual analysis reports





IV Using for Policy

➔ Korean Quality of Life Measurement Forum Held Annually





IV Using for Policy

➔ Measurement Enhancement

- ◀ **Disaggregation by life stage:** measuring the QoL of specific target groups of policies

Life Stages	Current Indicators	Plans	Timeline
Children · Youths	The Statistics on Youth	Revise existing indicators on children and youths	Research in 2018 Production in 2019
Adults	Korean Social Indicators	Use existing indicators	
Seniors	The Statistics on the Aged	Develop a new set of indicators	Research in 2019 Development in 2021

- ◀ **Sub-national Disaggregation:** Standardizing disaggregated sub-national indicators by means of promoting common indicators
 - ▾ Encourage policy makers to use sub-national social indicators and provide continued support for the advancement of indicators

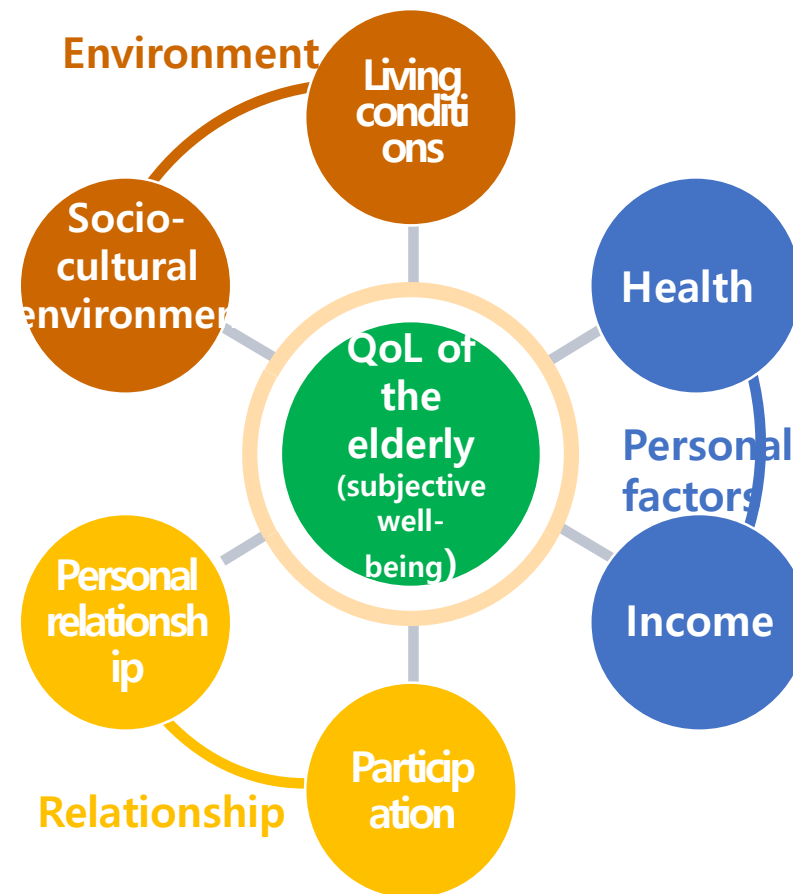


IV Using for Policy

➔ Child Well-being Framework



➔ Elderly Well-being Framework





Thank YOU !

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