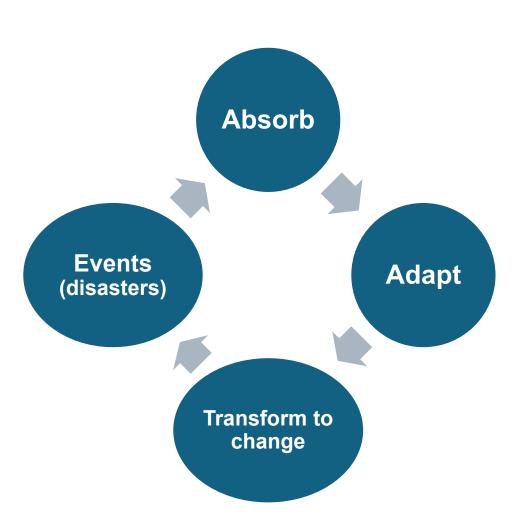


# Contents to talk: Healthcare system resilience



- …is continuous process
  - Disaster Resilience Scorecard for Cities: Public Health System Resilience – Addendum
- Japan's progress, challenges, and future directions.
- Some of this presentation contents is based on my personal view.



# **Background - Key Challenges to Resilience**

- Societal changes: Aging workforce and population.
- Universal health coverage since 1961.
- Increasing pressure on long-term care and primary care.
- Regional disparities (urban vs rural healthcare access).

 Disaster hazard exposure (e.g., 2011 Great East Japan Earthquake, flooding and landslides, volcanoes, COVID-19

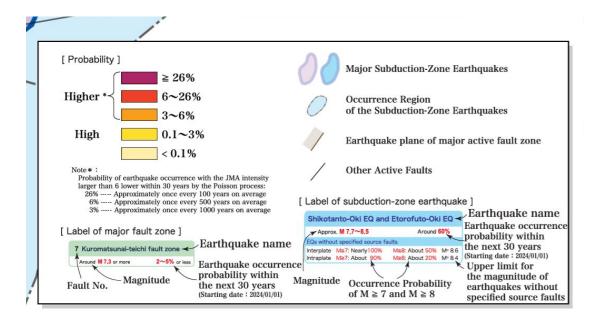
impact).





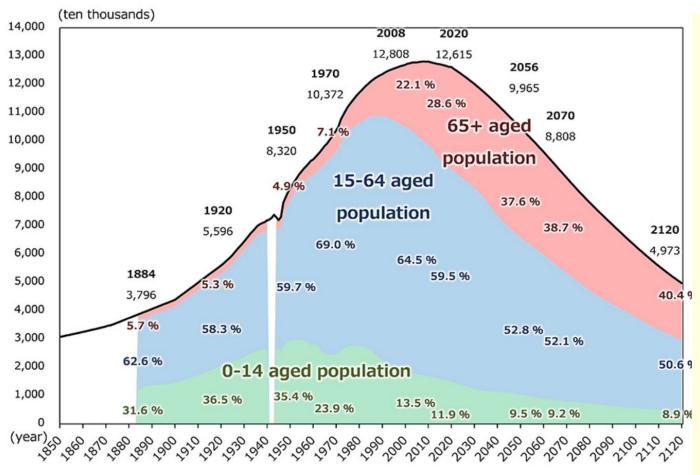
## Around M 7.3 or more 2~5% or less: Approx. M 7.5 Nearly 0% (By Poisson process: About 1%) Approx. M 7.7 Nearly 0% (By Poisson process: Albeut 3%) Around M 6.8 or more 4% or less Around M 7.8 d Around M 7.9 Around M 9.0 Mt\* 8.6~9.0 Nansei Islands Interplate Mail: About 70% Mail: About 10% Nº 8.3 Intreplate Mail: About 20% Mail: About 2% Nº 8.4 Interplate Mai? About 80% Mail: About 10% Nº 8.5 Introplate Mai? About 20% Mail: About 2% Nº 8.4 [ Major active fault zone ] Ogasawara Islands PSHM P(I<sub>MA</sub>≥ 6') within 30 years starting 2024/01/01 and Long-term evaluation for major earthquakes URL: https://www.j-shis.bosai.go.jp/?lang=e

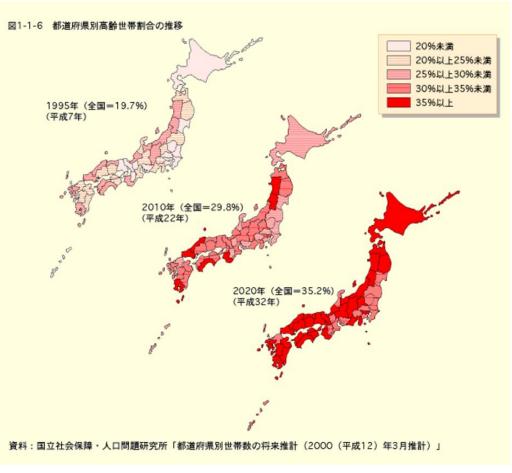
# Seismic Hazard Map as of 2024



Cite <a href="https://www.j-shis.bosai.go.jp/en/jshis-poster">https://www.j-shis.bosai.go.jp/en/jshis-poster</a>

## The population change in Japan







# Population changes in Hiroshima

Hiroshima Prefecture 2,750,540 persons in 2025 -20,083 persons (2024)

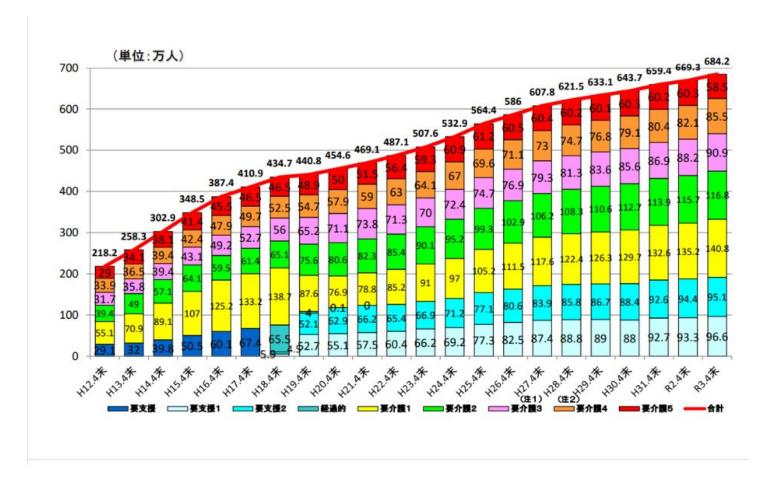
Age>65 822,599 (-578 persons compare to 2024)

29.9% (+2.0%) (compare to 2024)

Age>75 467, 041 persons in 2025 (+15,946 person)

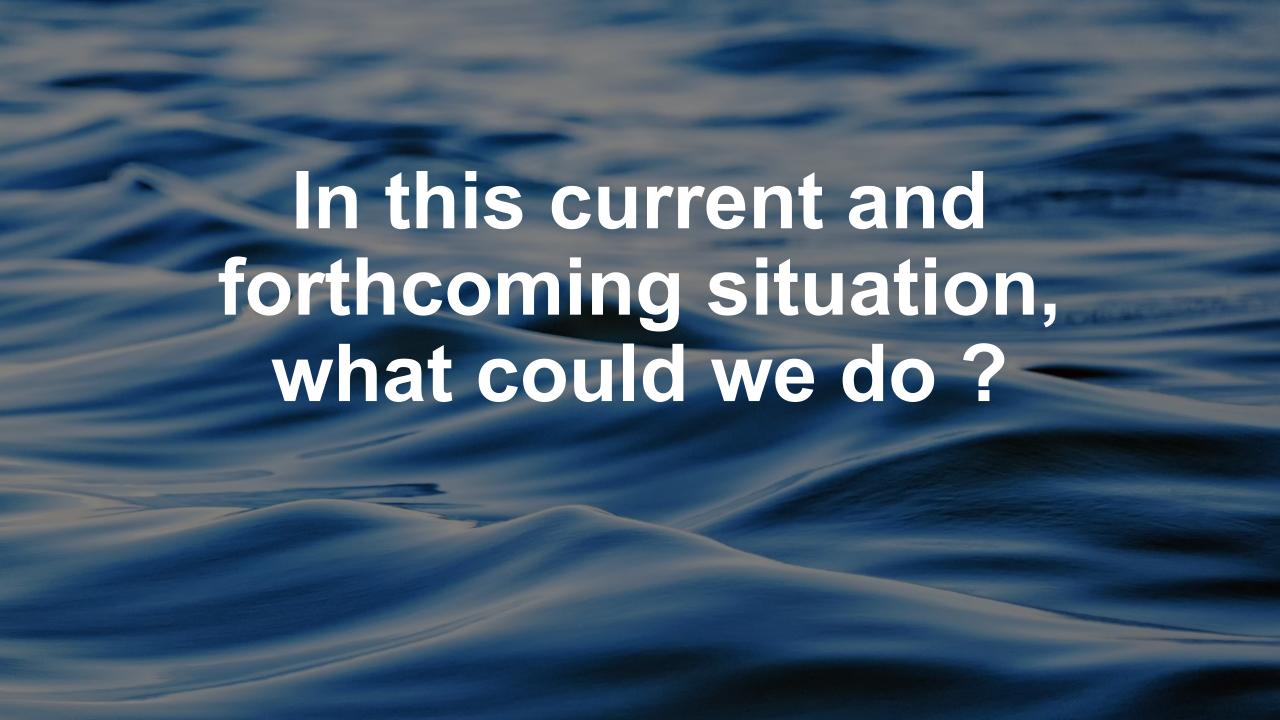
17.0% (+0.7%) (compare to 2024)

# Increasing healthcare cost and workforce burden



- Care needs level for long-term care insurance assessment
- Level 5 requires most care support.

Cite: Ministry of Health, Labour and Welfare, 98th Social Security Council Long-Term Care Insurance Subcommittee, Reference Materials



# Progress and Strengthening Measures



#### 1.Disaster Preparedness and Response

- 1995 Hanshin Awaji earthquake the lives that can be saved, avoidable deaths
- 2005 establishment with MoH DMAT (Disaster Medical Assistance Team) training commenced
- Lessons from 2011 disaster: improved hospital disaster plans, stockpiles, and evacuation systems.
- 2013 DPAT (Disaster Psychiatric Assistance Team) training commenced
- Through the past disaster exposure different functions in healthcare services and organizations formed such as DWAT, PCAT etc... different role of teams can support transition between disaster phases, population and functions of society
- In 2022, 15,862 members trained and 2,040 DMAT teams are registered
- Policy and planning along with the 8<sup>th</sup> national medical planning (filling the gaps between non-disaster time and disaster time), Business Continuity Planning and Coping with large scale of disasters

# Progress and Strengthening Measures

#### 2. Workforce and Collaboration

- Training programs for disaster medicine/nursing/health and interprofessional teams.
- (Case)- disaster volunteer nurse register with nursing association (locally trained with nursing association and deployed to the affected area)
- Municipalities, volunteers, and non-government co-ordination

#### 3. Policy and Governance

- National and prefectural-level resilience strategies (along with the national health policy such as Health Care Vision 2035, Health Japan 21, Organizational and regulation changes).
- Investment in community-based integrated care systems.

#### 4. Digitalization and Innovation

- Electronic medical records, telemedicine expansion (accelerated by COVID-19).
- Use of AI and big data for public health surveillance.



## **Strengthening governance**

## – establishing Disaster Prevention Agency in 2026(planned)

- Mobilisation and cooperation among <u>industry</u>, government, academia, and the <u>public</u>
- Serving as a command centre:
  - overseeing disaster prevention as a whole, brings together all the resources of industry, government, academia and the public, and devises and implements a medium- to long-term disaster prevention strategy.
  - with the ultimate goal of protecting the lives and livelihoods of the people.



## Core functions of the agency

1

Formulation of basic policies and national strategies related to disaster prevention

2

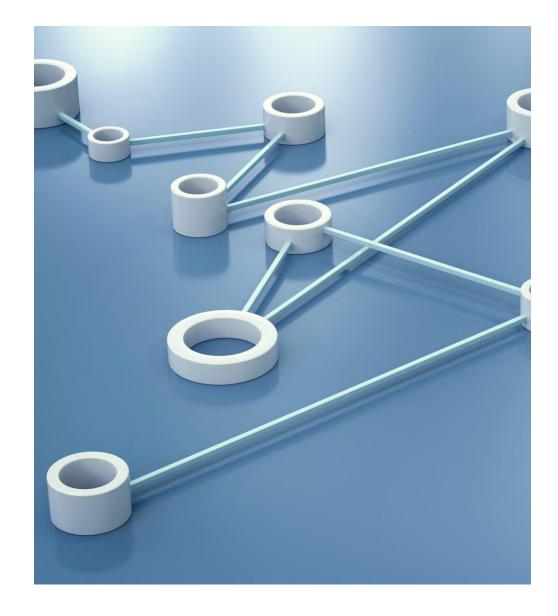
Promotion and acceleration of through disaster prevention measures in peacetime

3

Command centre for disaster response from the time of disaster occurrence to recovery and reconstruction

## Remaining Gaps and Future Directions

- Coordination and communication is becoming more critical
- Continuous <u>interprofessional and</u> <u>cross-sector collaboration</u>
- Non-disaster time and disaster time communication <u>– phase less application</u>
- Strengthening rural healthcare access and technology equity
- Integration of climate change adaptation into healthcare resilience.
- Japan has made substantial progress and ongoing adaptation is essential.
- "Resilience is a process journey, not a destination."



Thank you for your attention

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