

**FIG**

Kathmandu, Nepal 14–16 November

**REGIONAL CONFERENCE 2024**

*Climate Responsive Land Governance and Disaster Resilience: Safeguarding Land Rights*



*Presented at the FIG Regional Conference 2024,  
14-16 November 2024 in Kathmandu, Nepal*

# Effort to keep number of field surveyors

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Japan

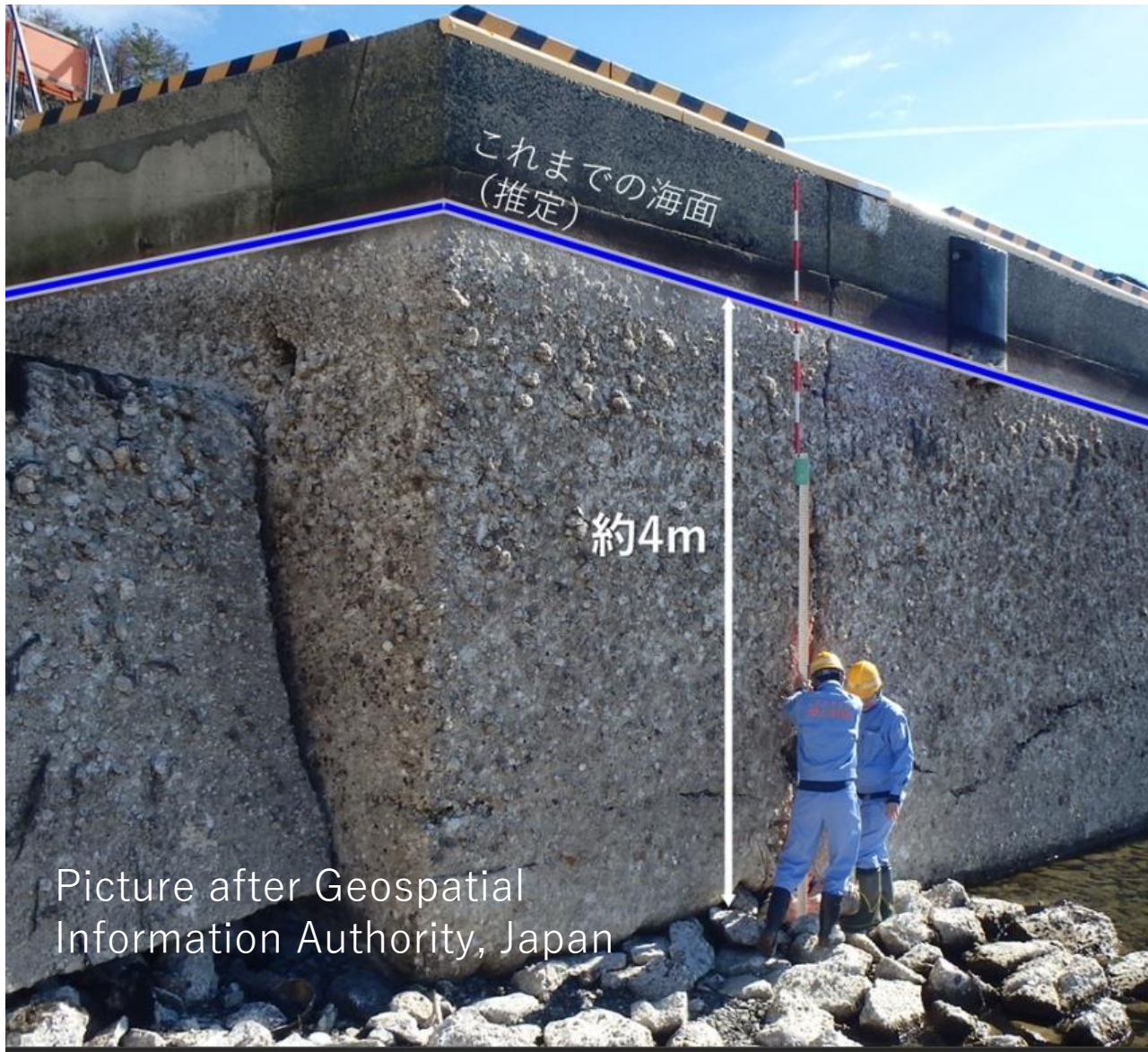
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# Surveyors in case of disasters



Picture after Geospatial  
Information Authority, Japan

- In advance: Hazard Maps, Detecting Deformation etc.
- Just after: Quantitative information on damages to assist proper plan for quick action
- After: Assist planning recovery measure
- Cadastral information is also important for recovery

# Recent problem

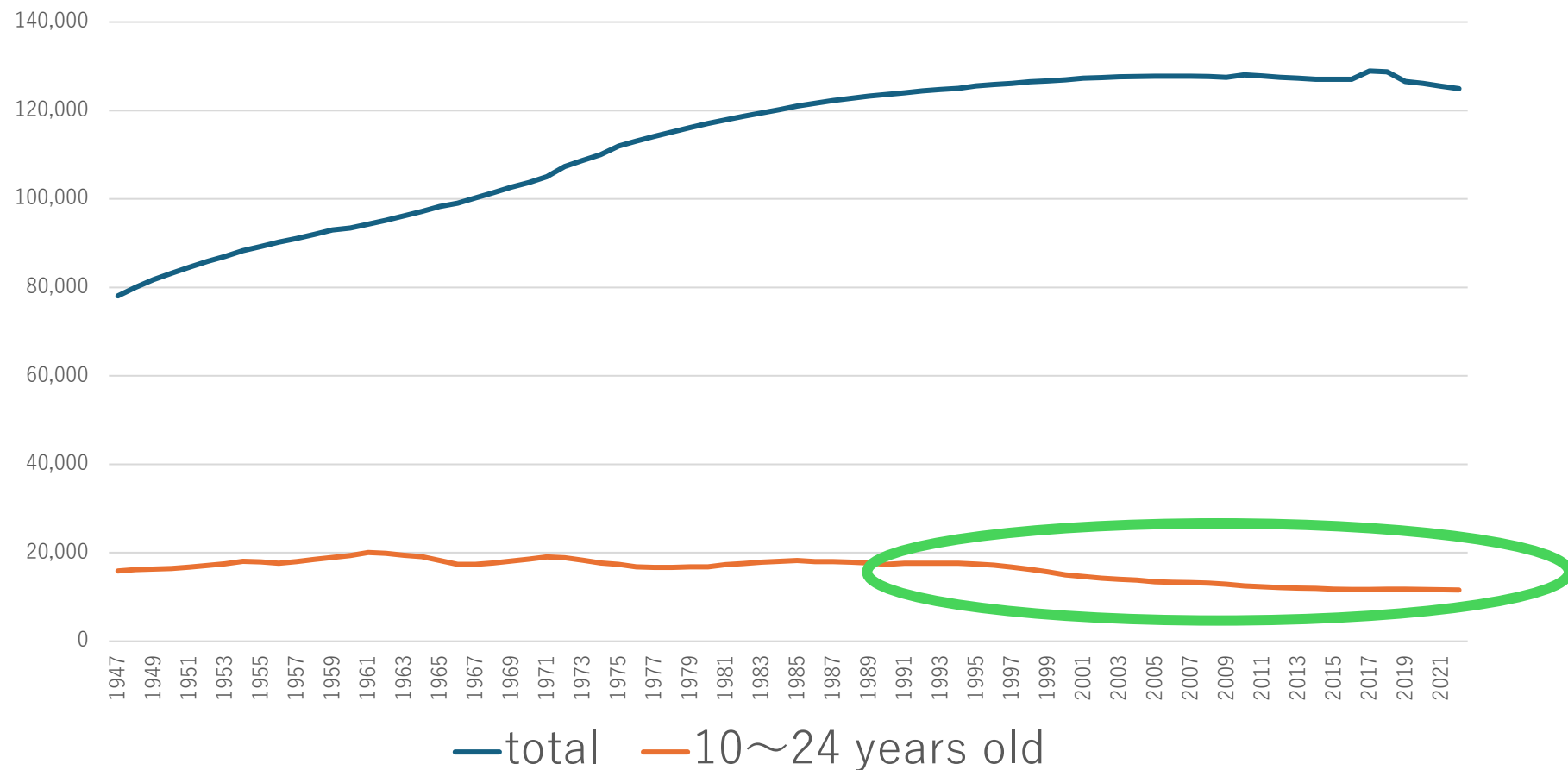
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Those who work on sites are not sufficient

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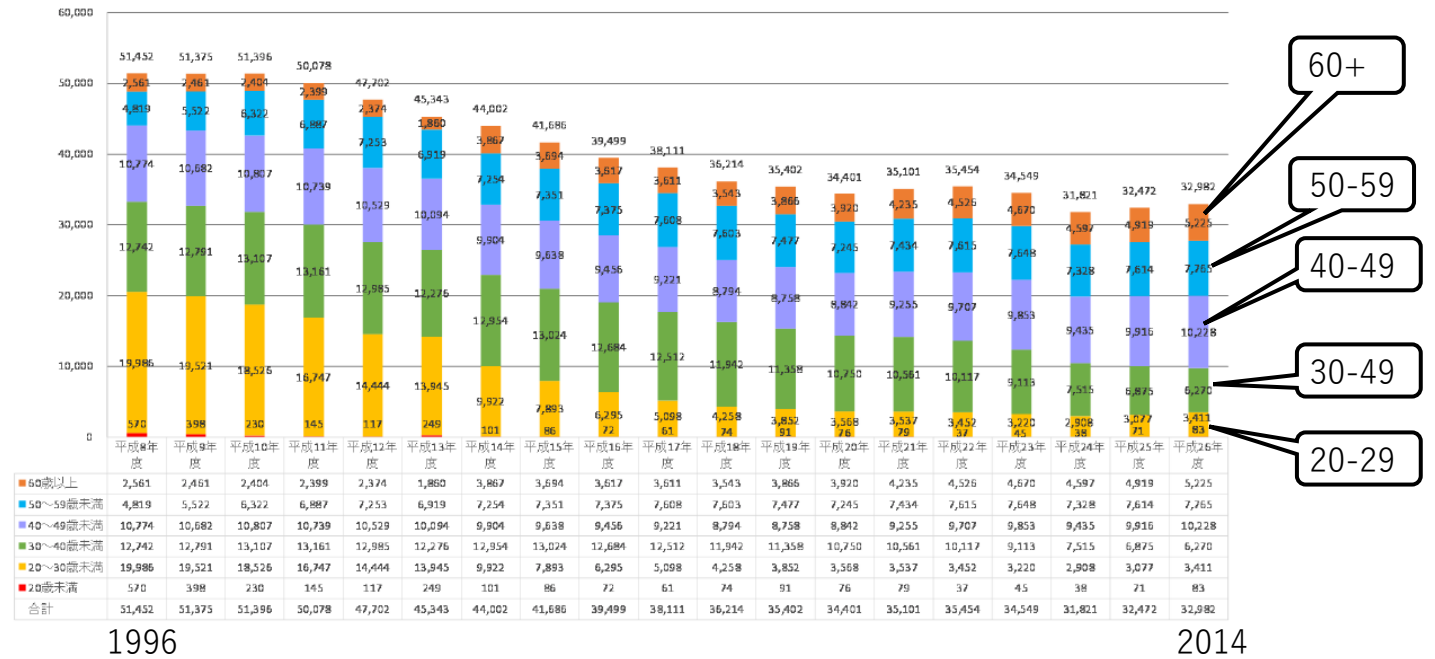
Civil engineering workers, Carpenters,  
surveyors

# Population (Thousand persons)



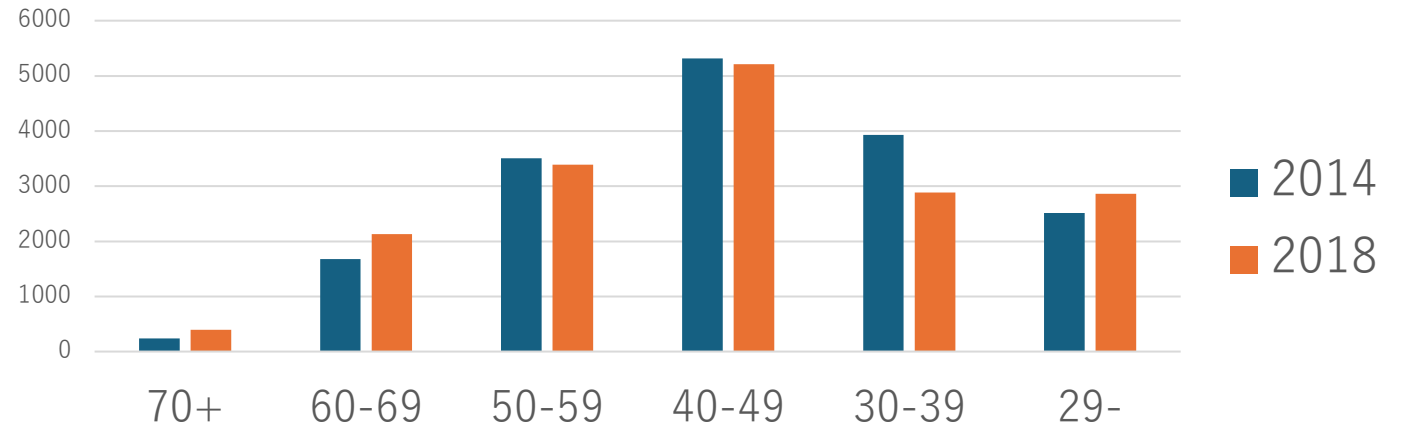
Temporal variation of Japanese population  
After Government of Japan. e-stat (2023)

# Young Surveyors in companies are decreasing



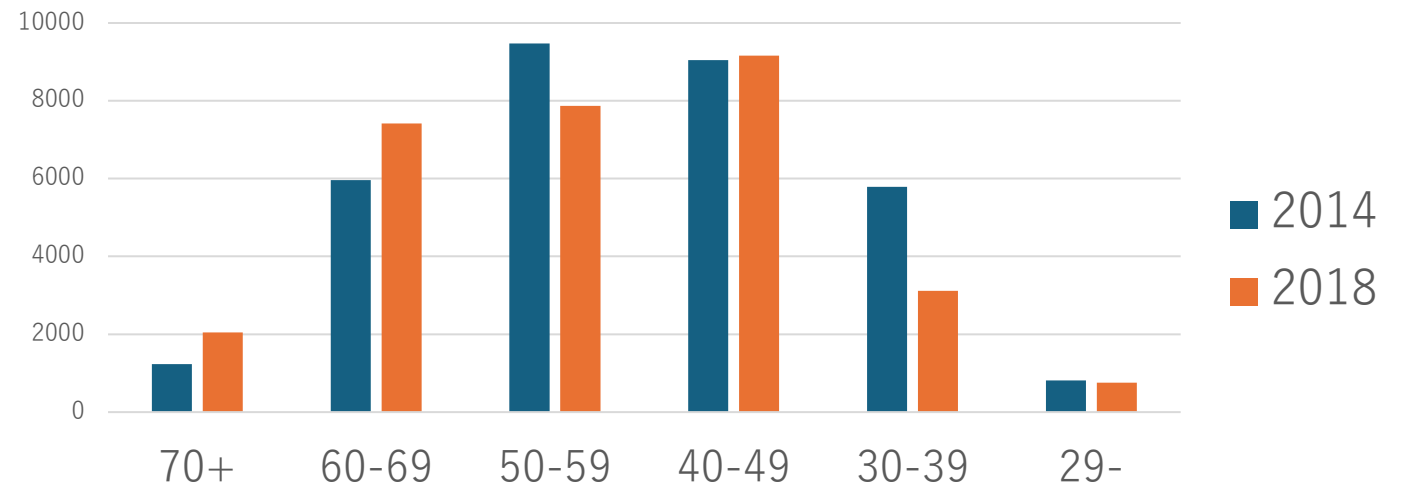
After Japan Federation of Survey and Planning Associations(2014)

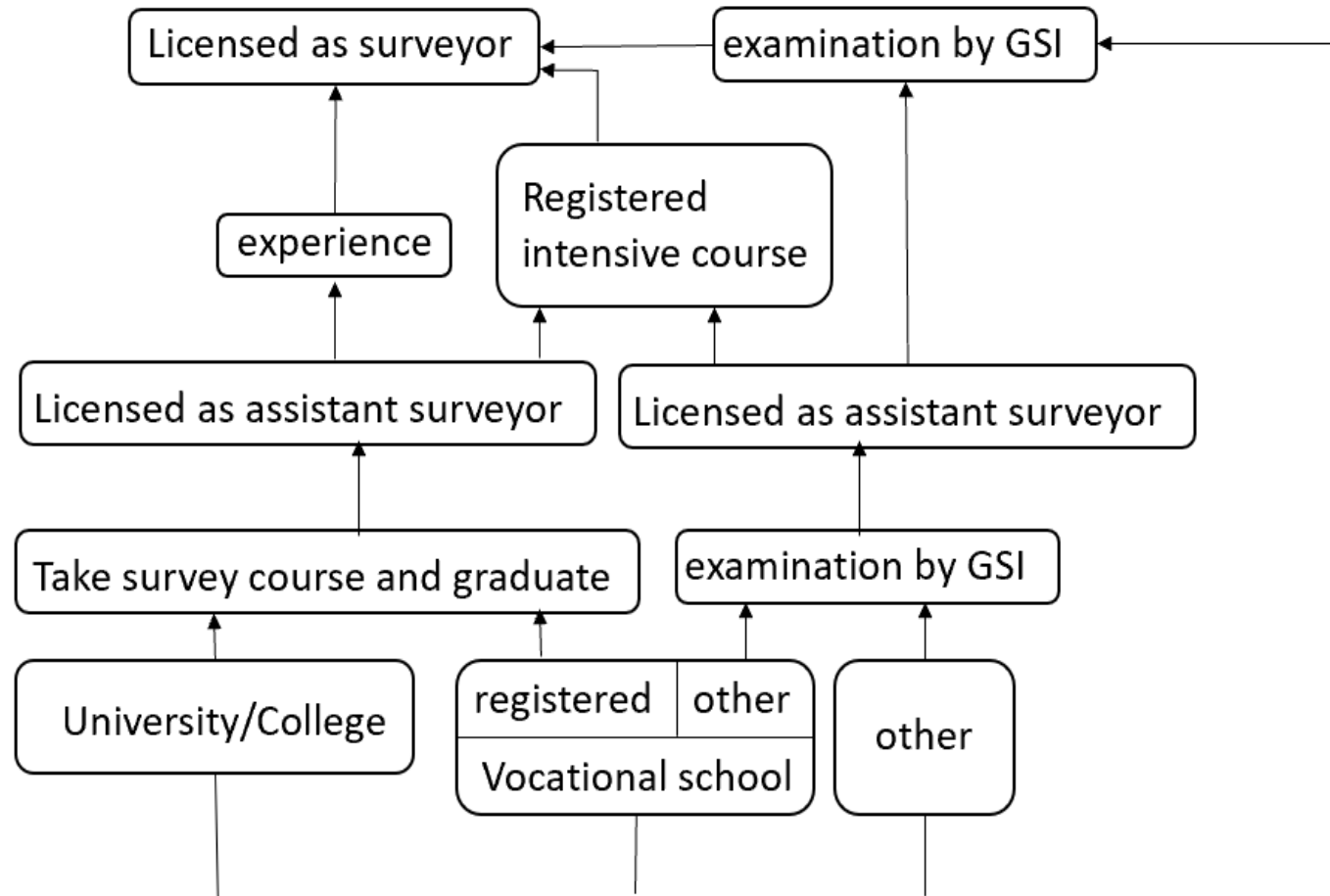
# Assistant Surveyor



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- Assistant surveyors get surveyors license in their 30's
  - We should recruit them before that

# Surveyor

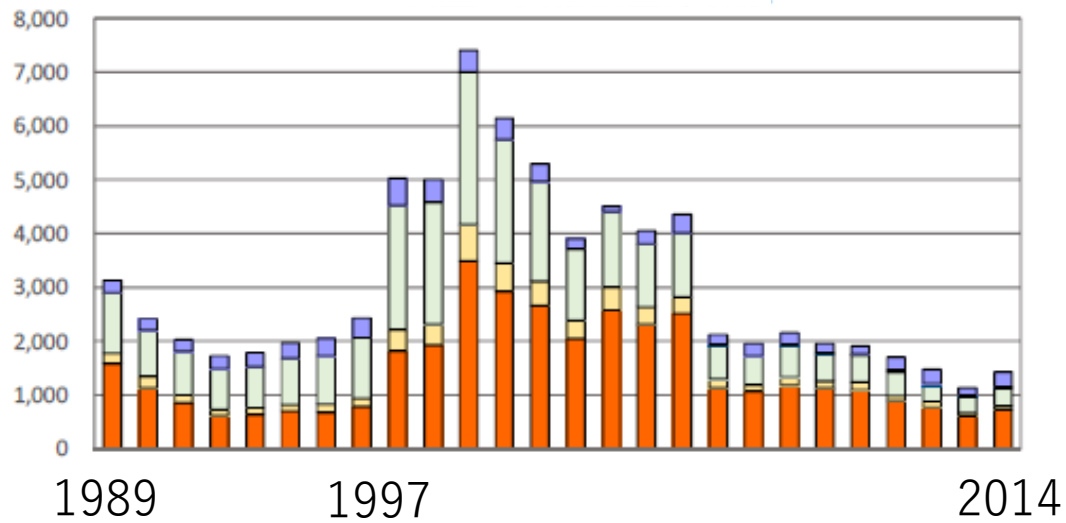




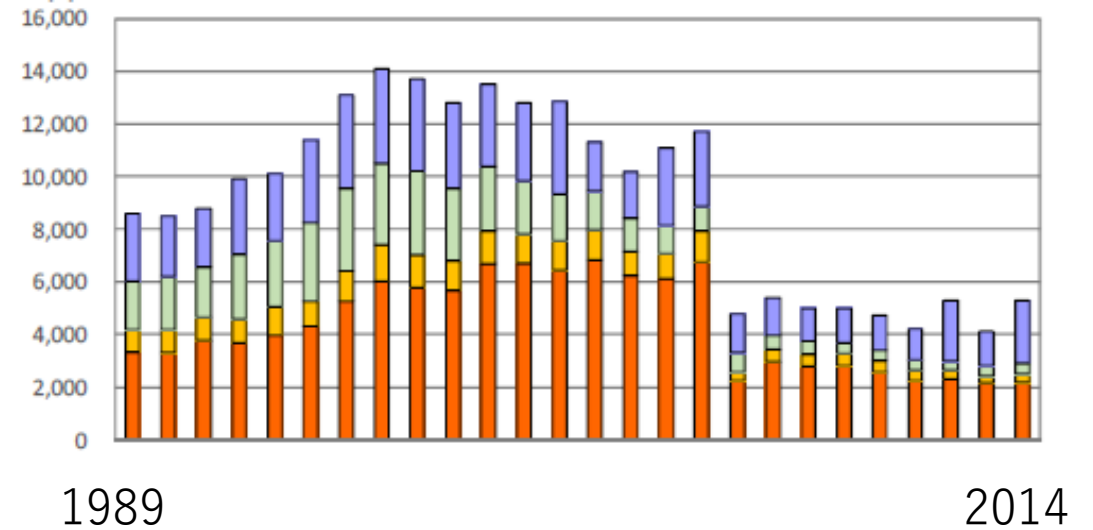
Way to obtain license of surveyor or assistant surveyor  
Simplified diagram based on Survey Act.

# Number of newly registered surveyors and assistant surveyors

Surveyor



Assistant surveyor

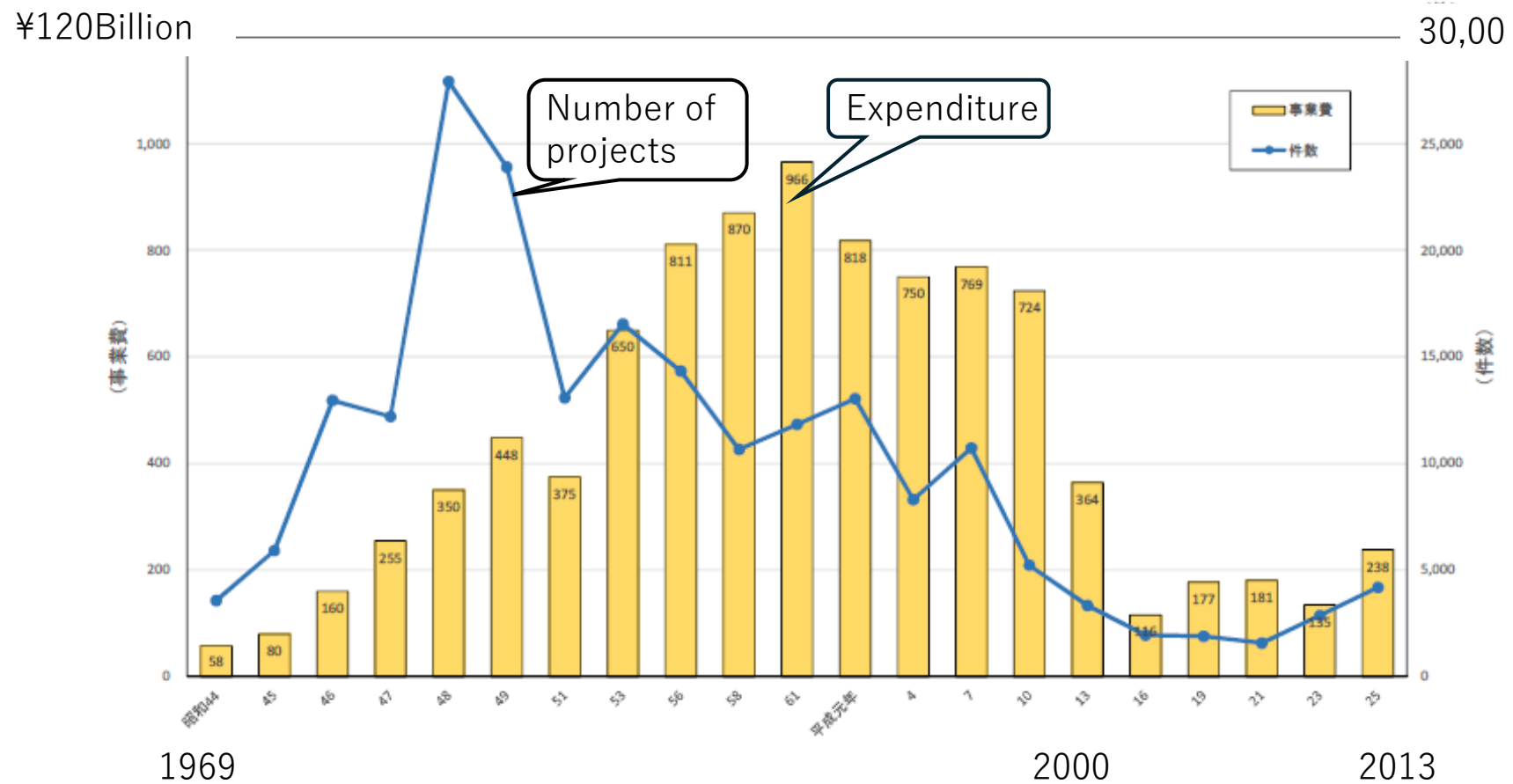


Eligibility to be licensed

- examination
- Intensive course in registered vocational school
- Registered Vocational School
- Junior College and Technical College
- Universities



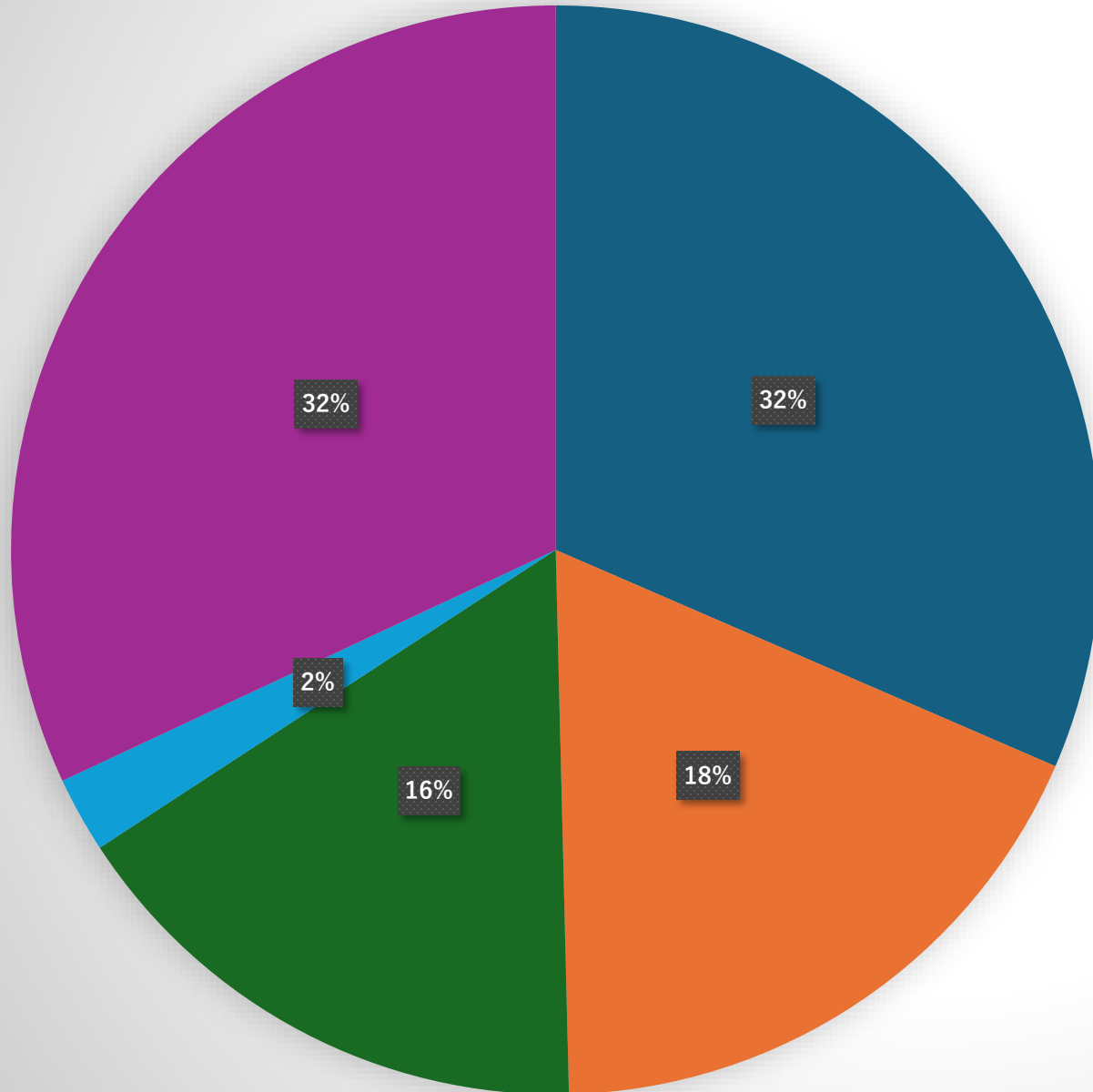
# Public expenditure for Survey



Economical  
situation is  
of course  
important


- 2000 was a year of restructuring Japanese administrative organization
- 2001 was a year of recession triggered by end of IT bubble
- Public expenditure in survey remarkably decreased
- Decrease of recruitment affects new registration of surveyors and assistant surveyors
- Even so, Survey companies face insufficient human resources today

# Fulfillment of human resources (Survey companies)




- both surveyors and assistant surveyors are fulfilled
- both surveyors and assistant surveyors are insufficient
- surveyors are sufficient
- assistant surveyors are insufficient
- technical stuffs other than surveyors or assistant surveyors are insufficient

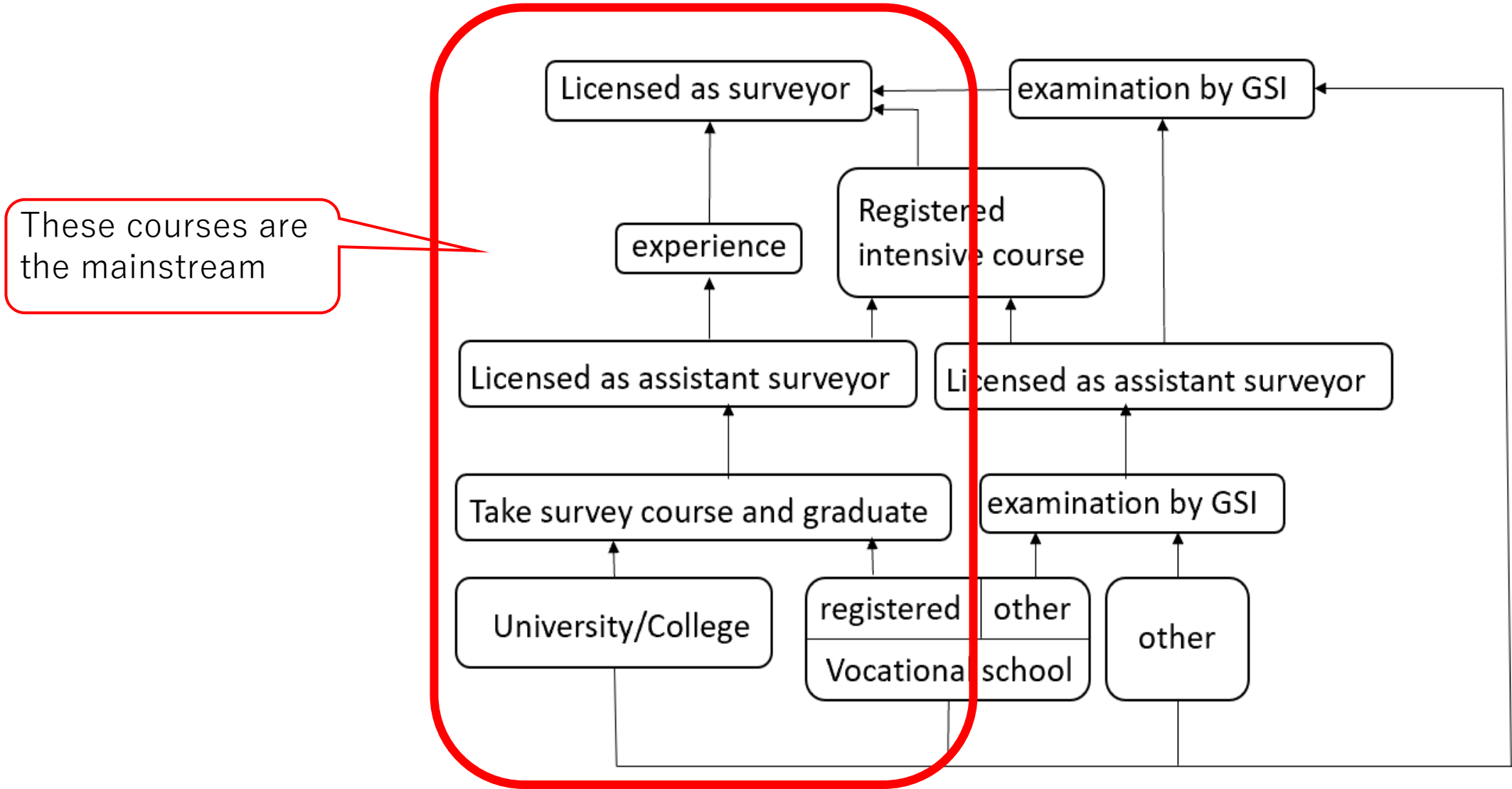
after Geospatial Information Authority (2019)



Encourage  
young students  
select survey  
for their  
profession is  
necessary



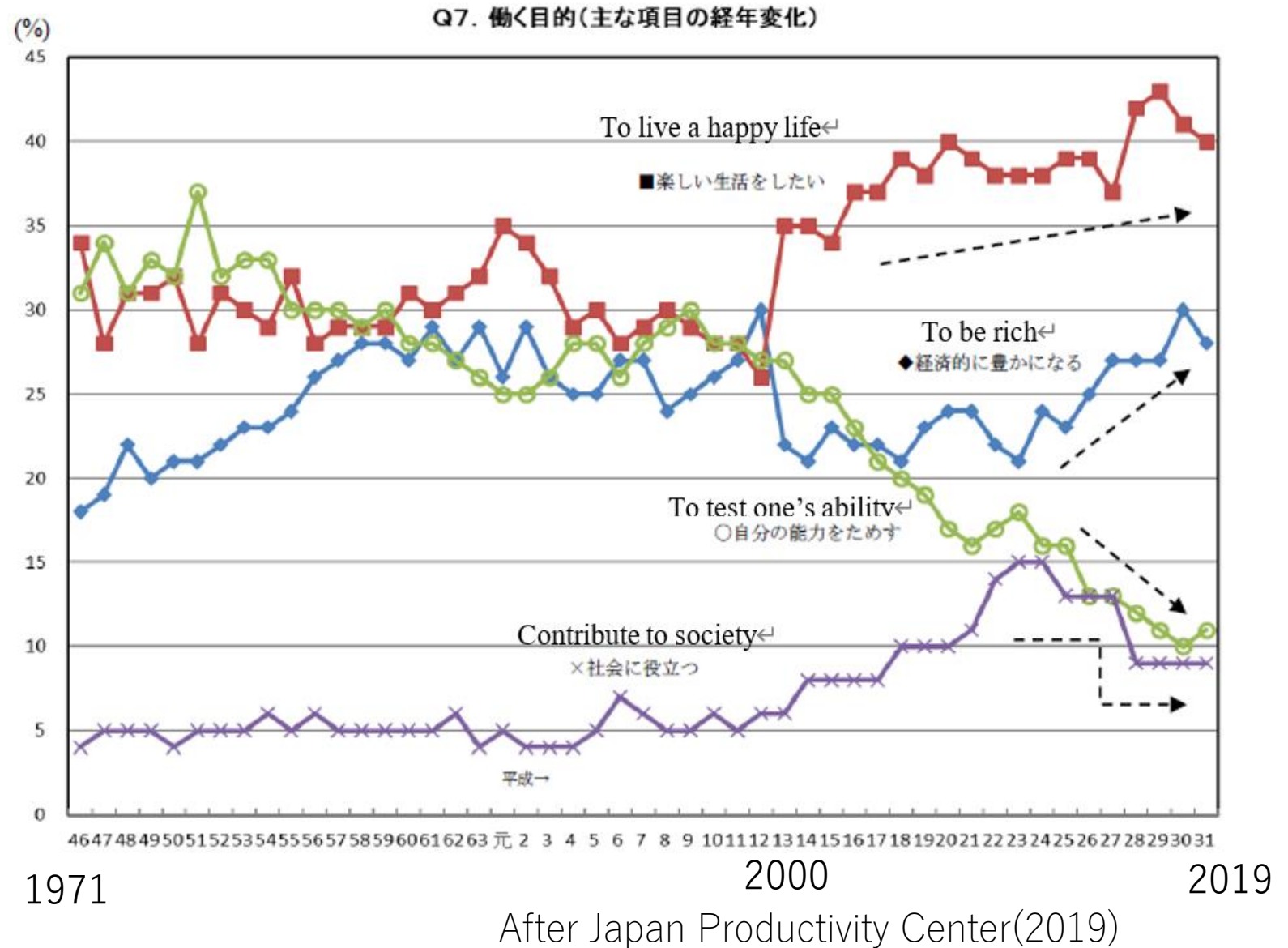
- Public Relations activities
- Opportunity to know surveyors' job through Internship
- Promote Geospatial Information literacy through education
- Technology transfer to young surveyors
- Lifelong education and training of surveyors
- **School Education should be up to date**



These courses are the mainstream

Way to obtain license of surveyor or assistant surveyor  
Simplified diagram based on Survey Act.

# Time series of young people's Purpose of working



To attract  
young people

Work-Life balance  $\Rightarrow$   
Efficiency  $\leq$  Technology

Income  $\leq$  Efficiency

Contribute to Society  $\Rightarrow$   
Public relations

Survey Act was amended in 2024

We are now working on realizing new policy



# Improved flexibility of education

- Course curriculum will be reviewed and updated
- Review instruments and equipment to be equipped with schools
- List of above are moved from Survey Act to Order of minister having jurisdiction  
=> easier to update flexibly
- And so on



# Expected effect of amendment of Survey act

- Equipment of Universities, Colleges or Vocational schools are to be modernized easily
- Students can be exposed to modern technology
- Modern technology will enhance work-life balance
- Young surveyors can enjoy private time more than before
- With modern technology, survey result will appear in News more than before and enhance public understanding of survey profession

**FIG**

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# Thank you

We are looking forward to young people selecting survey as their profession

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