





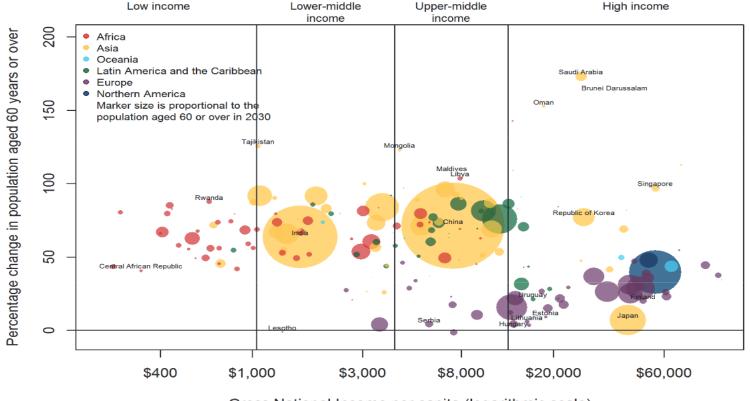


The Healthy and Active Aging in Myanmar

Professor Hla Hla Win
Rector, University of Public Health, Yangon, Myanmar

Increasing rate of older adults aged 60 or older from 2015 to 2030

Higher in Asian low or middle income countries



Gross National Income per capita (logarithmic scale)

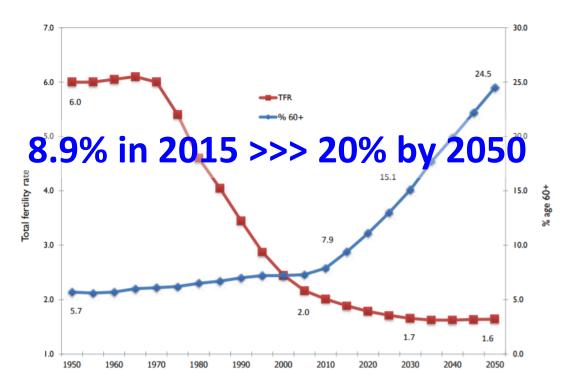
WHO: Decades of Healthy Ageing (2020-2030)



Global strategy and action plan on ageing and health (2016-2020)

A framework for coordinated global action by the World Health Organization, Member States, and Partners across the Sustainable Development Goals

Aging in Myanmar

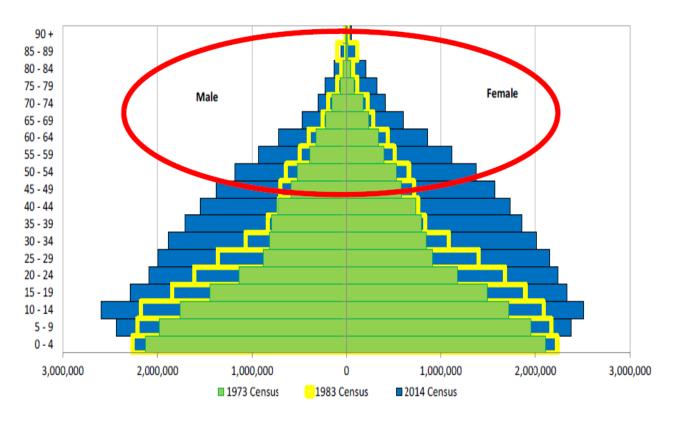


Source: United Nations 2010 assessment, medium variant (United Nations. 2011b) Note: The TFR is the number of births a woman would have if she went through the reproductive years experiencing the fertility rates at each age that prevailed in the year for which the measure is stated.



🐒 Population Pyramid of Myanmar (





Overview of the study

Myanmar

Democratized recently Changing life style, Westernized life style? Life expectancy <u>68.2y.o.</u>



Interpretation, validation, and adaptation of JAGES questionnaire in Myanmar

Conducting home visiting survey among older adults in urban and rural (1,200 participants in total)

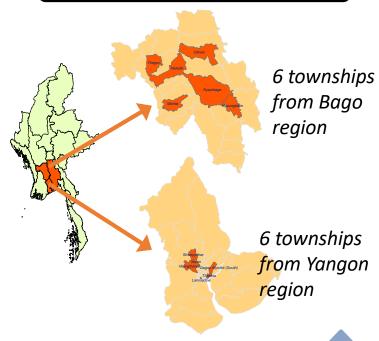
Analysis of social determinants of health and well-being in older adults

Development of assessment tool (visualization) for health equity

Estimated outcomes

Showing evidence for Healthy & Active Ageing in Asia

Development of visualization tool







Rationale

• It is essential to identify current lifestyle and social circumstance of older adults for preparing against rapid ageing which is closing in several decades.

 Visualization and assessment tool based on the survey data will be useful and helpful to detect public health problems on elderly health and to promote healthy and active ageing.

Study Aim

To contribute healthy aging and health equity for older persons in Myanmar.

Objectives

Primary objective

- 1. To conduct social epidemiological surveys in order to understand and evaluate life style, social environment, and health status in older persons.
- 2. To follow up them to monitor the longitudinal health outcomes.

Secondary objective

1. Visualization and assessment tool will be developed based on the survey data and national/regional statistic data.

Study design

A prospective longitudinal observational study using a structured questionnaire.

Study setting and population



Yangon (urban) / Bago (rural) 34 townships / 28 townships



6 townships each
(8-10 wards or village tracts /township)
10 persons will be recruited from each
ward

In total,
6 townships*10 wards or village
tracts*10 persons*2 regions
=1,200 persons
will be recruited.

Inclusion/Exclusion criteria

Inclusion criteria:

- ☐ Any person from 60 or older living in the survey areas
- ☐ Person who understand this research and agree to cooperate

Exclusion criteria

- ☐ Person who does not cooperate with this project
- ☐ Person with severe cognitive impairment
- ☐ Person who is bedridden

Survey Method

- □ Questionnaire survey
- ☐ Home visiting interview
 - Interviewers will be trained by research team members.

Base on the survey data...



☐ Develop health visualization and assessment tool

Items in questionnaire – 16 components ~based on the JAGES* questionnaire~

- ① Demographic characteristics
- Physical and functional status
- ③ Psychiatric status
- 4 Cognitive impairment or dementia risk
- 5 Individual life style
- 6 Social network and social support
- 7 Socio-economic status
- **8** Civic participation

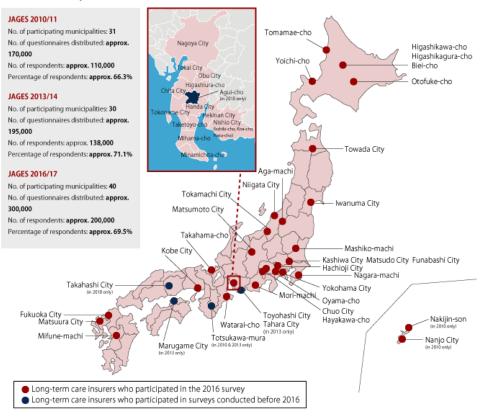
- 9 Physical activities
- 10 Family environment
- 11 Neighborhood environment
- 12 Mobility
- ① Utilization of health services
- 14 Frequency of daily laughter
- 15 Life events
- 16 Employment status

^{*}JAGES: Japan Gerontological Evaluation Study



Japan Gerontological Evaluation Study (JAGES)

JAGES Survey Fields



Questionnaire includes...

Physical status/activity:

Psychiatric status

Social network/support

Socio-economic status

Civic participation

Community environment

Mobility

Etc.

Adaptation and validation of JAGES method in Asian countries









Survey in rural and urban areas in Myanmar and Malaysia

Questionnaire modified depend on the context of each country through discussion between researchers.

Physical status/activity:

Psychiatric status

Social network/support

Socio-economic status

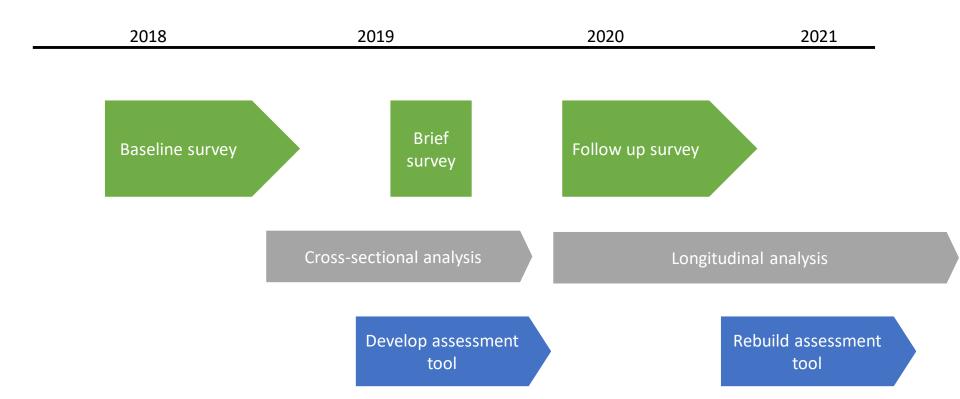
Civic participation

Community environment

Mobility

Etc.

Time period of the survey & develop assessment tool



Data collection in Yangon Region



Data collection in Bago Region



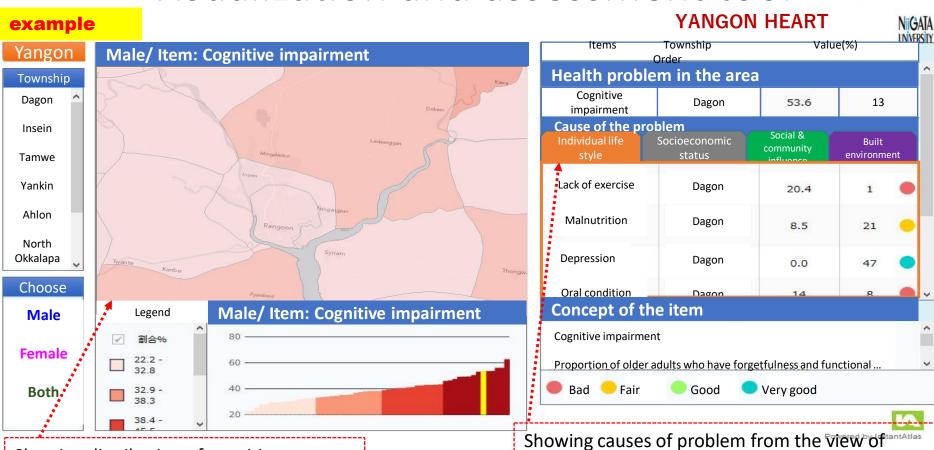
Data collection with Grandpas and Grandmas



Our team



Visualization and assessment tool



Showing distribution of cognitive impairment in Yangon by map and graph

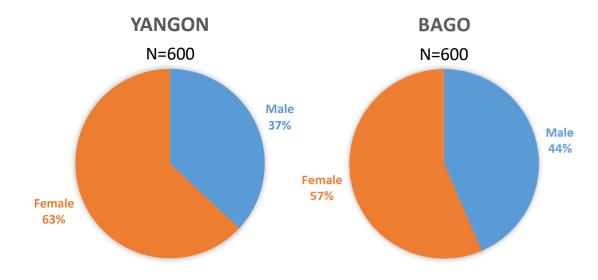
Showing causes of problem from the view of the street of t

Items shown in visualization tool

- Demographic characteristics
- 2 Physical and functional status
- ③ Psychiatric status
- 4 Cognitive impairment or dementia risk
- 5 Individual life style
- 6 Social network and social support
- 7 Socio-economic status
- **8** Civic participation

- 9 Physical activities
- 10 Family environment
- 11 Neighborhood environment
- 12 Mobility
- ①3 Utilization of health services
- Frequency of daily laughter
- 15 Life events
- (16) Employment status

Study population



 69.2 ± 7.1

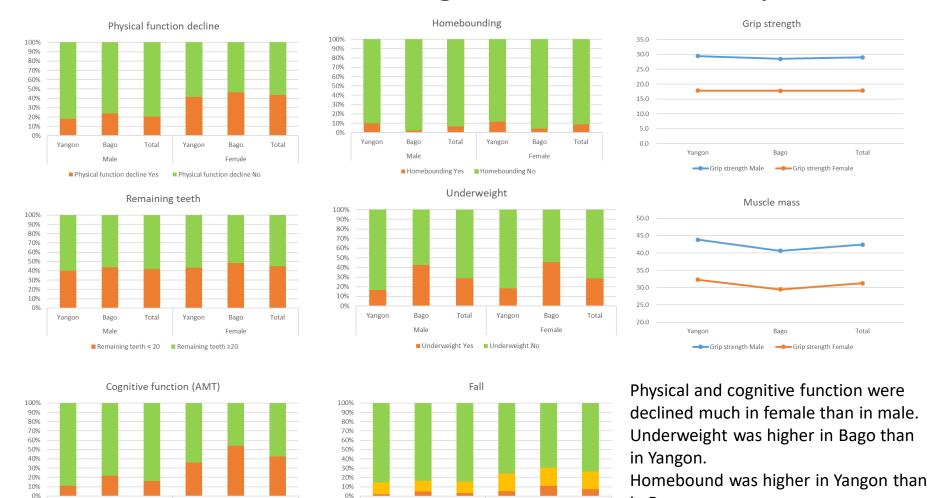
70.6±7.5

Age Male: 69.4 ± 7.6 Female: 69.4 ± 7.3

Ethnicity Barmar: 85.7% 93.5%

Religion Buddhism: 94.8% 96.3%

Risk factors of long-term care and frailty



Total

■ Fall Many times ■ Fall Once ■ Fall None

Female

Total

Female

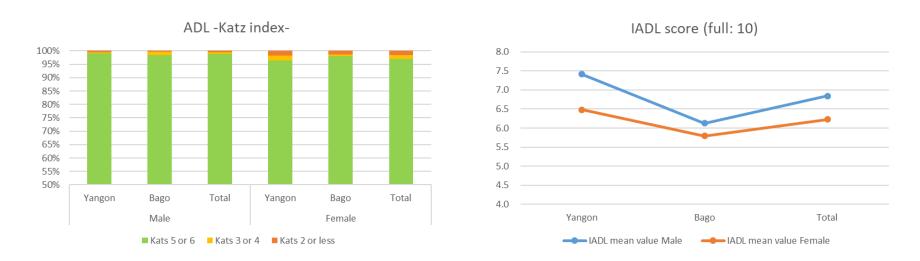
Bago

Male

■ AMT 8 or less ■ AMT 9 or more

in Bago.

ADL and IADL



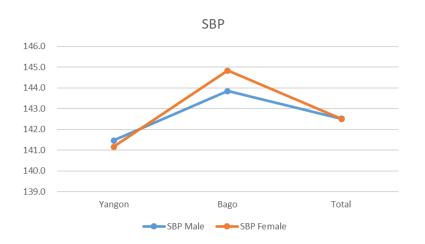
There were few disable participants. IADL scores were lower in female than in male, and were lower in Bago than in Yangon.

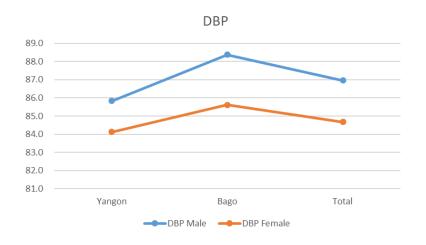
Health indicators



Higher poor self-rated health participants were shown in Bago rather than in Yangon. Similarly, higher depressive participants (GDS 5-9) were shown in Bago than in Yangon.

Blood pressure

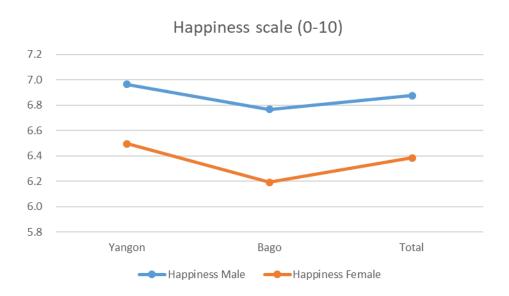






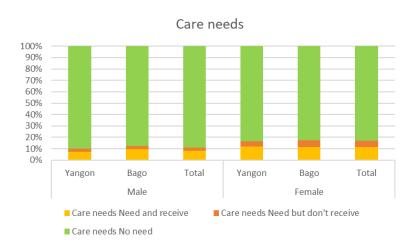
More than 50% participants revealed with hypertension (SBP \geq 140 or/and DBP \geq 90). Average blood pressure were higher in Bago than in Yangon.

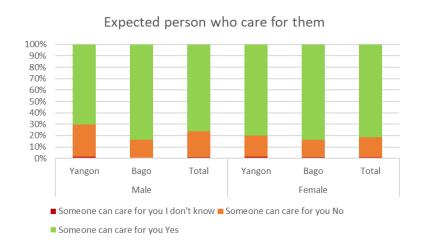
Happiness



Happiness scores were lower in female than in male, and were lower in Bago than in Yangon.

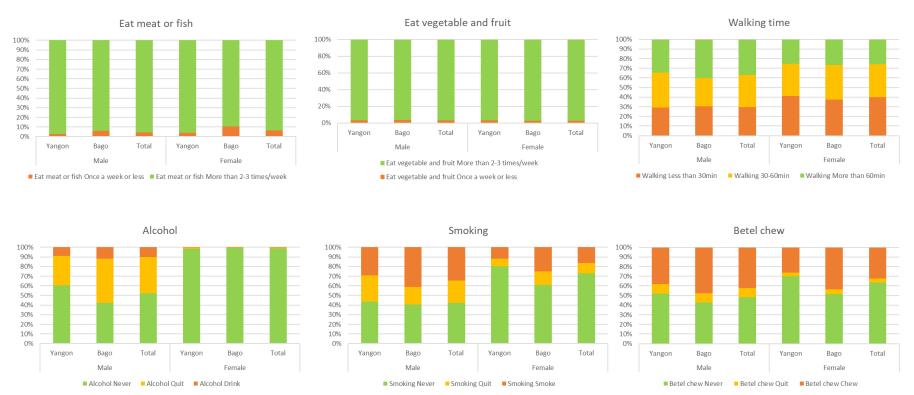
Care needs





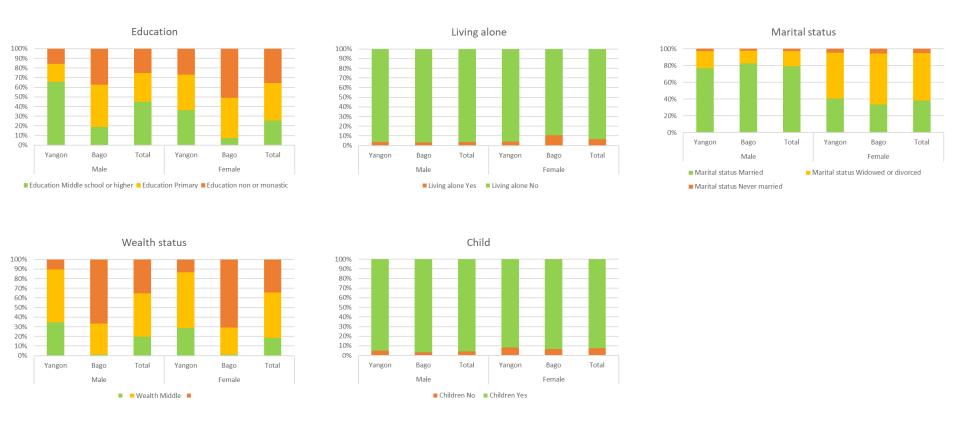
Care needs are higher in female than in male. Higher percentage of the participants in Yangon do not expect someone can care for them in future rather than those who in Bago.

Lifestyle



Alcohol and smoking are more frequent in male than in female. Betel chew is more frequent in Bago than in Yangon.

Socio-economic status and social environment



Lower socio-economic status were shown in Bago than in Yangon. Majority of female were widowed.

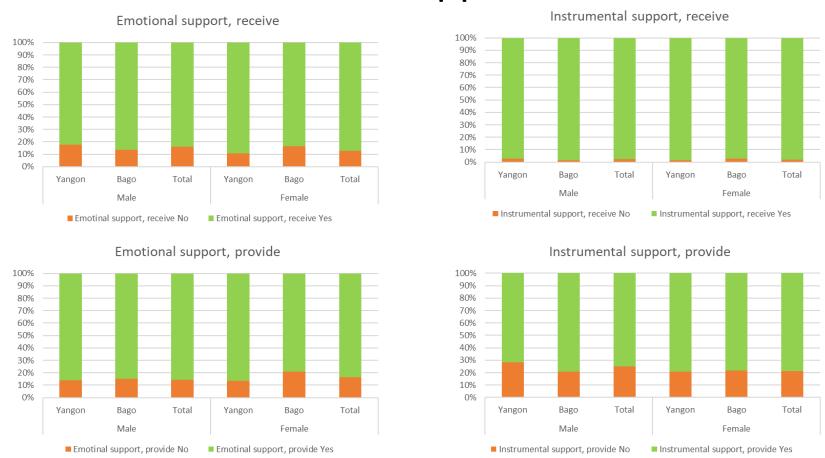
Civic participation



Men more frequently participate than women. Major activity for participation were religious and volunteer activities.

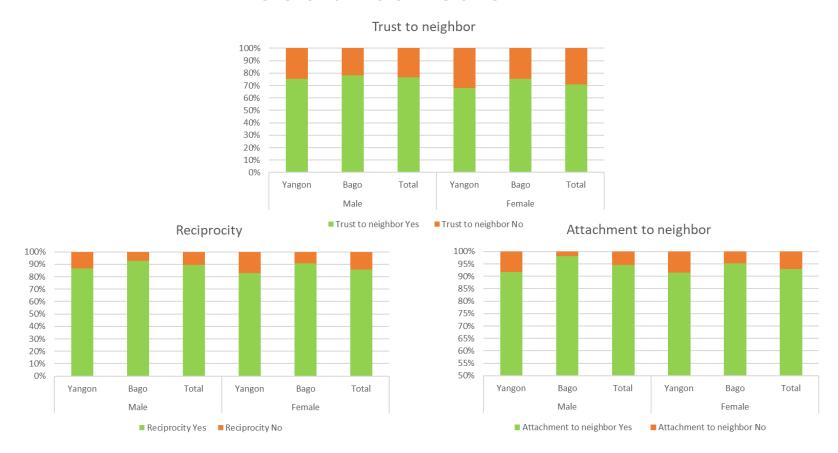
Variety of civic participation	Male	Female
Religious	15.5%	7.3%
Volunteer	9.0%	3.5%
Sport	1.7%	0.2%
Hobby	1.7%	0.3%
Community	2.9%	0%
Politic	0.3%	0.2%

Social support



Majority of the participants receive and provide emotional/instrumental support from anyone.

Social cohesion



High social cohesion were shown in all group.

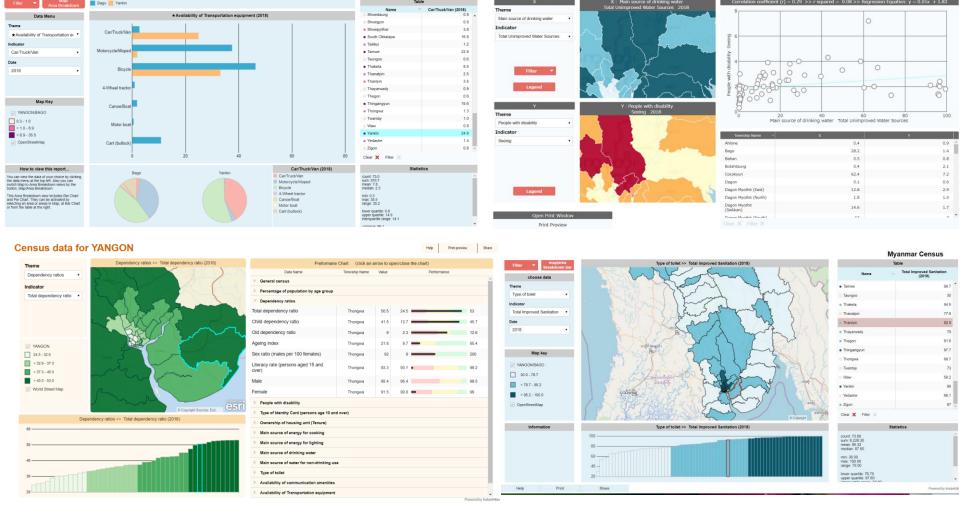
Future plan

- ✓ Detail analyses are on going.
 - Difference of social circumstance between in urban and rural.
 - Social determinants of long-term care or frailty
 - Effect of social capital on health by urbanization
 - Determinants of UHC (universal health coverage)
- √ Visualization tool is being developed.
 - Visualization of long-term care risk by township
 - Visualization of township profile

Visualization tool (e.g. Bago and Yangon region in Myanmar)

Census for Myanmar (YANGON/BAGO)

Myanmar Census



Acknowledgement

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Thank you for your attention