

**Generating population weights for the Well-being of older people measure  
(WOOP)**

**Sebastian Himmler, Job van Exel, Werner Brouwer**

Methodological choices, Pre-study and next steps

[himmler@eshpm.eur.nl](mailto:himmler@eshpm.eur.nl)

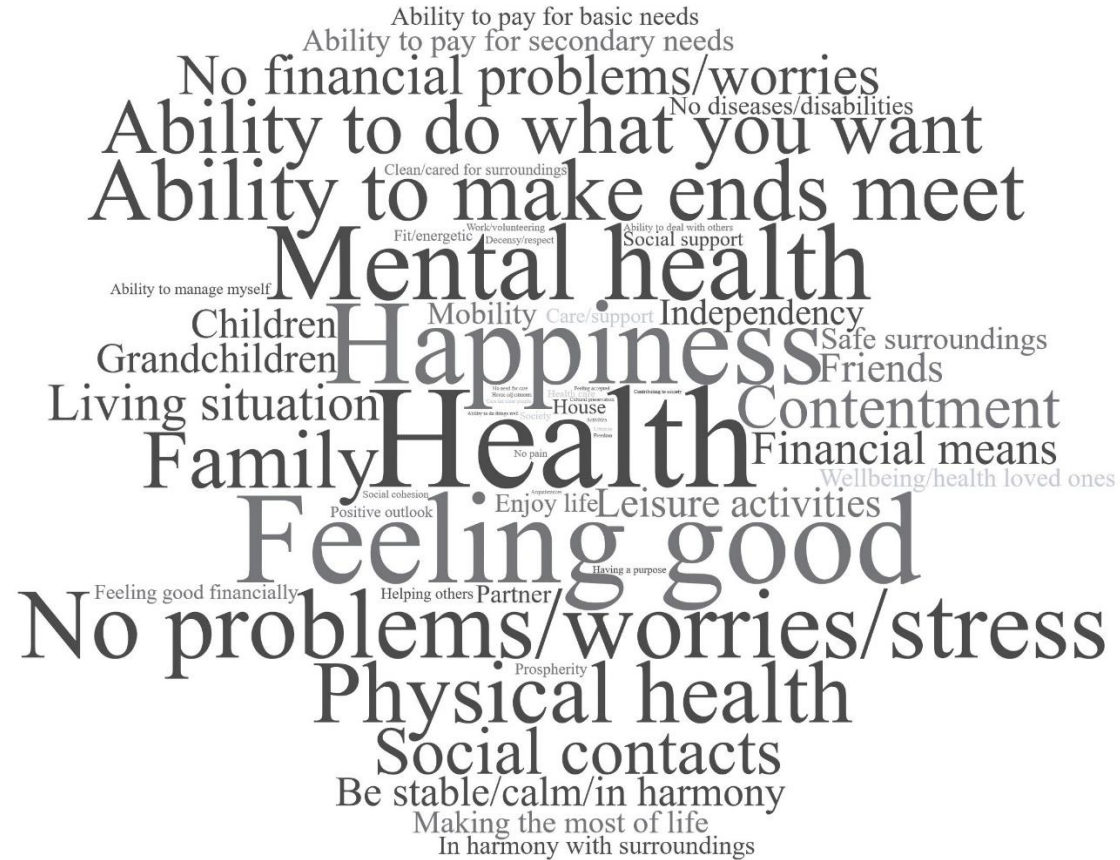
# Disclaimer

- Was not involved in the generation process of the measure
- Not a complete expert in health/well-being state valuation (yet)
- At this stage any input welcome, as it is before data collection



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# Wellbeing of older people



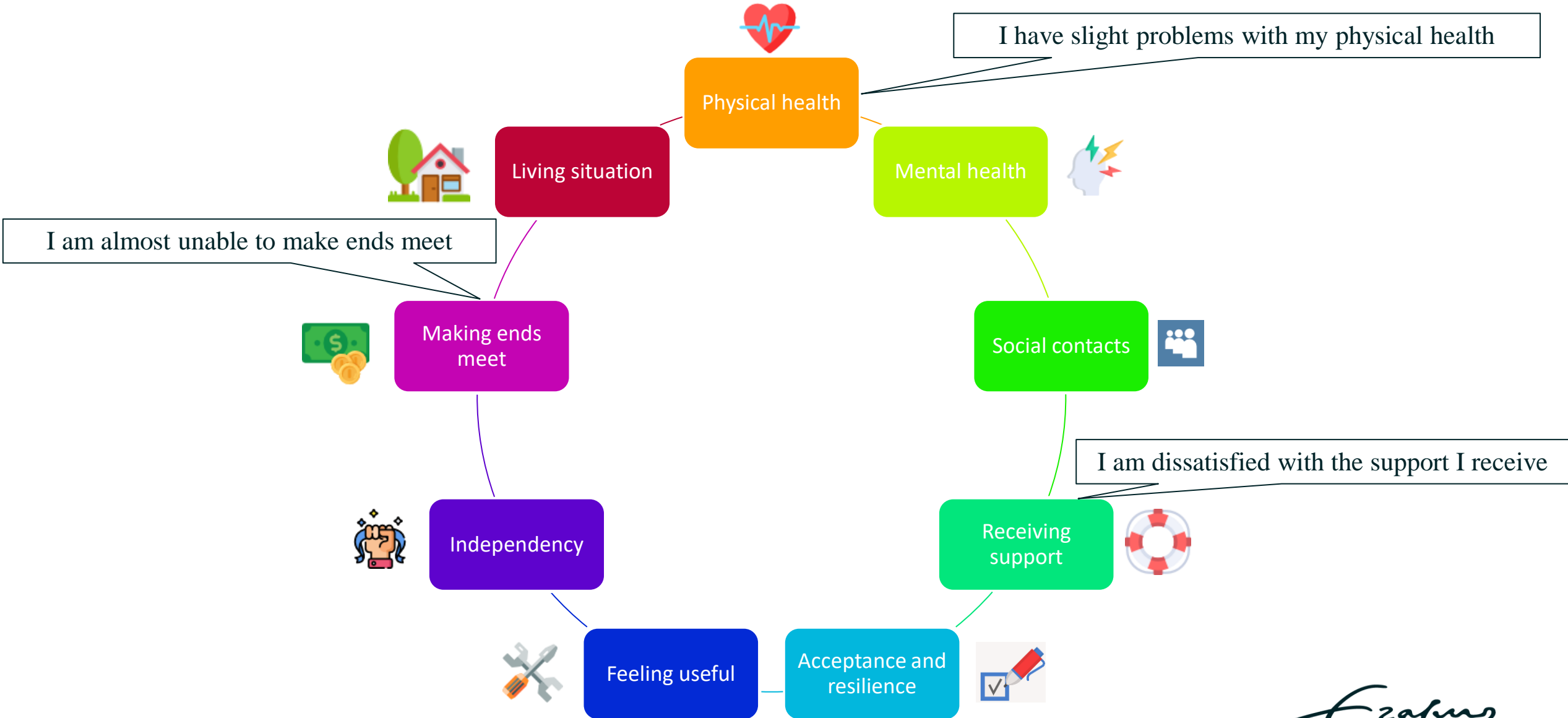
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# The wellbeing of older people measure (WOOP)

- Measure aims to capture all relevant wellbeing domains in older people (65+) in terms of functionings (Hackert et al., 2019)
- Selection of nine dimensions based on the findings of a Q-methodology study among Dutch seniors (n=53)
- First promising results for validity and test-retest reliability in the Dutch context (Hackert et al., 2020)
- A 5-point Likert response scale was assigned to each item, to ensure relatively easy choices while keeping sufficient discriminatory power

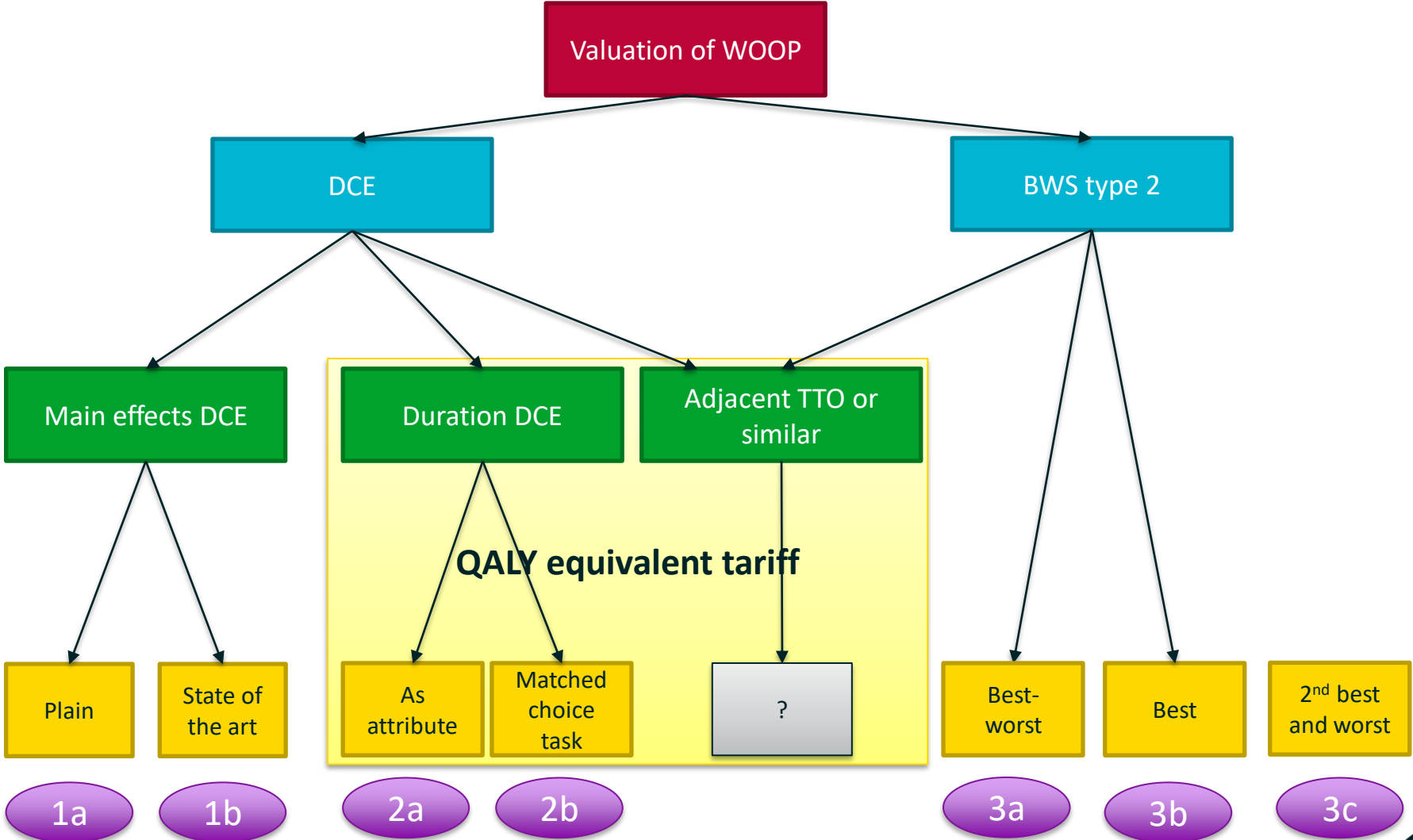


# The nine dimensions of wellbeing in the WOOP



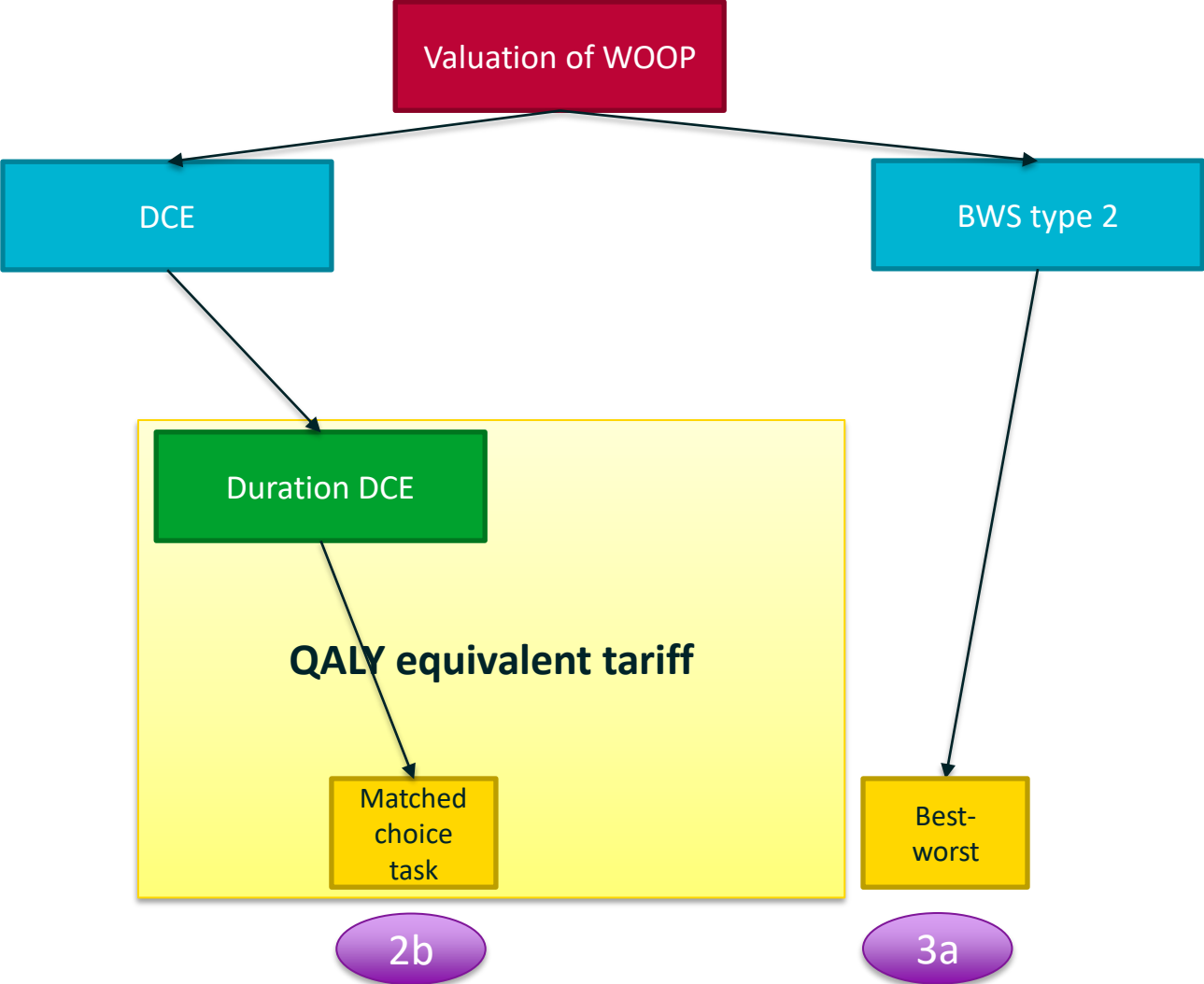
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# Considered options for valuation



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# Considered options for valuation



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# How to choose?

- Cognitive burden and feasibility were our main concern
- Cognitive burden of BWS exercises was claimed to be lower than the cognitive burden of answering DCE tasks (Flynn, 2010)
- So far, however, only little evidence exists pointing toward lower cognitive burden of BWS tasks (Whitty et al., 2017)



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# Pre-study for assess cognitive burden of

...this task...

Example: Which of the described well-being states do you prefer, A or B?  
Hint: Put the cursor above the underlined elements to receive further information on the dimensions.

	A	B
<b><u>Physical health</u></b>	<b>Very well</b> able to cope	<b>Very well</b> able to cope
<b><u>Mental health</u></b>	Feeling dependent	Feeling dependent
<b><u>Social contacts</u></b>	<b>Reasonably</b> able to meet ends	<b>Barely</b> able to meet ends
<b><u>Receiving support</u></b>	Feeling unuseful	Feeling unuseful
<b><u>Acceptance</u></b>	<b>Dissatisfied</b>	<b>Dissatisfied</b>
<b><u>Feeling useful</u></b>	<b>Moderate</b> problems	<b>Slight</b> problems
<b><u>Independency</u></b>	<b>Slight</b> problems	<b>Moderate</b> problems
<b><u>Making ends meet</u></b>	<b>Very dissatisfied</b>	<b>Satisfied</b>
<b><u>Living situation</u></b>	<b>Dissatisfied</b>	<b>Dissatisfied</b>

- Color coded and level-overlapped DCE task (Jonker et al., 2018)

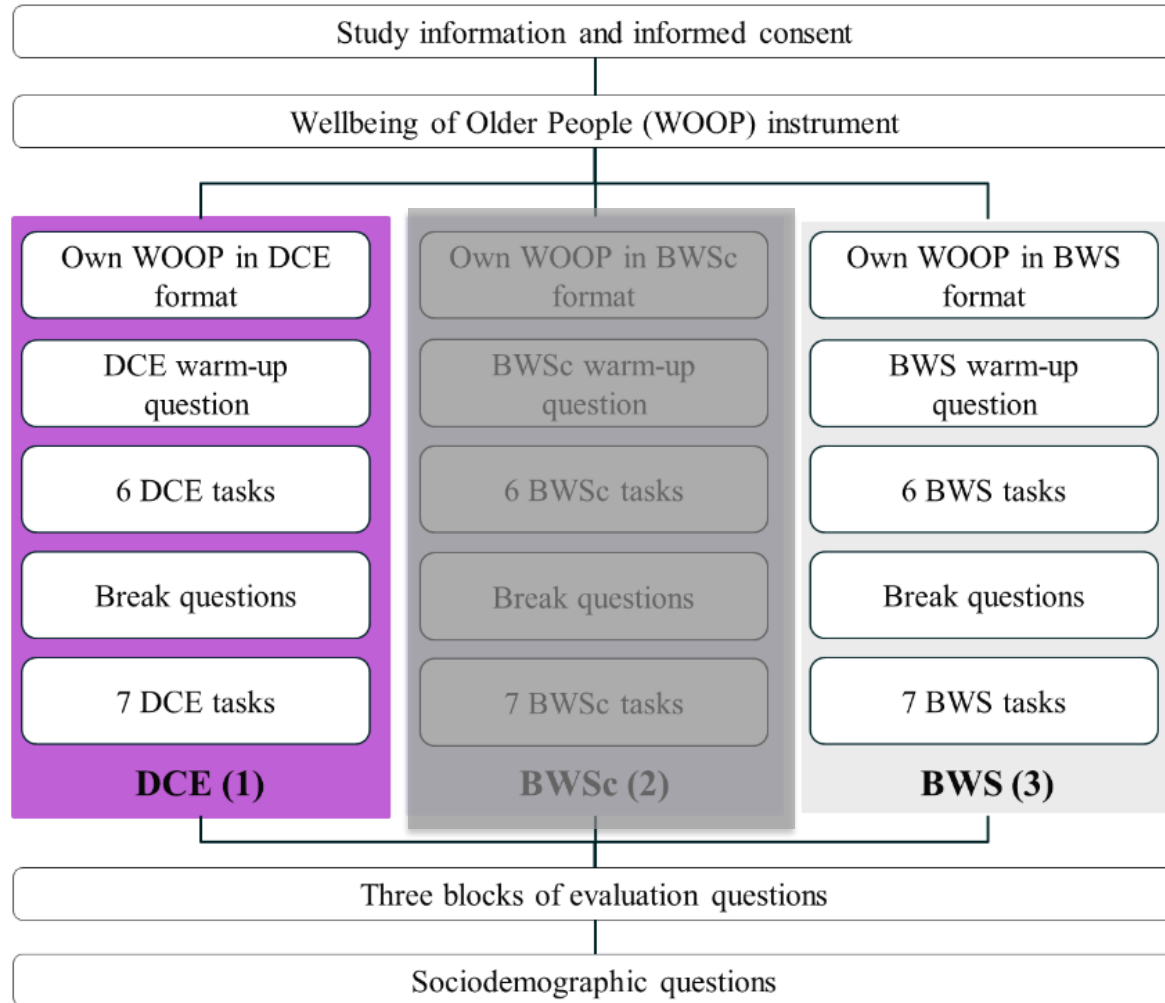
...or this task.

Imagine living in the well-being state presented below and think about which aspect you would most prefer, and which aspect you would least prefer. Please select one answer per column.

Most	Well-being state	Least
<input type="radio"/>	I am dissatisfied with my social contacts	<input type="radio"/>
<input type="radio"/>	I am reasonably satisfied with the support I receive	<input type="radio"/>
<input type="radio"/>	I am reasonable able to deal with my circumstances and changes therein	<input type="radio"/>
<input type="radio"/>	I feel reasonably useful	<input type="radio"/>
<input type="radio"/>	I have slight problems with my physical health	<input type="radio"/>
<input type="radio"/>	I have very severe problems with my mental health	<input type="radio"/>
<input type="radio"/>	I feel very dependent	<input type="radio"/>
<input type="radio"/>	I am very well able to make ends meet	<input type="radio"/>
<input type="radio"/>	I am dissatisfied with my living situation	<input type="radio"/>

- Standard BWS task

# Pre-study: Design



- Programmed in SAWTOOTH and administered using online platform Prolific.ac
- 469 respondents were randomized to one of the three arms
- UK or US citizens aged 65+ were included

# Pre-study: Results

- All in all no indication that cognitive burden or quality of answers from BWS is better compared to DCE
- Many elements actually point in the other direction, which is also in line with the study by Krucien et al. (2017) and the review by Whitty et al. (2017)
- Unclear how transferable results are to different contexts and DCE/BWS formats

Question on Likert scale from 1 to 5 (5=strongly agree)	(1) DCE (N=159)	(2) BWSc (N=158)	(3) BWS (N=152)
The choice tasks were clear	4.45	4.11	4.25
I could easily choose between the alternatives	3.55	3.65	3.62
I fully understood the choice tasks from the beginning	4.75	4.26	4.36
The tasks got easier after answering several	3.77	3.87	3.84
I found some of the presented states difficult to imagine	3.43	2.97	2.84
I compared all dimensions/items before making my choice	4.72	4.77	4.79
I decided all dimensions/items are equally important	2.86	3.00	3.20
I always used the same 1 or 2 wellbeing dimensions to make my choice	3.04	2.65	2.57
The color coding made the choice task easier	3.67	3.32	-
I made my choices mainly based on the colors	1.57	1.68	-
The number of choice tasks was manageable	4.64	4.54	4.50
It was difficult to stay concentrated over all choice tasks	1.72	1.94	1.92
I could have answered more choice tasks	4.07	3.91	3.66
Answering another block of six 6 choice tasks would be manageable	4.43	4.19	4.18
<b>Quality of answers etc.</b>			
Failed consistency I	4.4%	19.6%	17.8%
Failed consistency II	2.5%	46.8%	19.1%
Lexicographic score	28.9%	79.1%	80.1%
Dropout rate	0%	1.9%	3.8%
Mean total completion time (minutes)	20.5	22.4	20.4
Mean choice task completion time (minutes)	6.0	7.6	7.2

# Moving forward with DCE including duration: Visual presentation

From this.....

Which options do you prefer, A or B?

(1 of 1)

**1. Physical health**

*Concerns physical disorders or defects, and physical limitations in your daily functioning.*

**2. Mental health**

*Concerns anxiety or depression, problems with your thinking ability, and other mental limitations in your daily functioning.*

**3. Social contacts**

*Concerns the relationship with your life partner, family and other people who are important to you. Think about the quality and the quantity of contact.*

**4. Receiving support**

*Concerns receiving the help and support you need, for example from your life partner, family, friends, locals, volunteers or health professionals. Think about the quantity and quality of support.*

**5. Acceptance and resilience**

*Concerns accepting your current circumstances and adapting to changes therein, possibly with the support of your religion or belief.*

**6. Feeling useful**

*Concerns contributing or getting appreciation by doing something for other people.*

**7. Independency**

*Concerns feeling free to make your own choices or do the activities you consider important.*

**8. Making ends meet**

*Concerns having no financial worries and having enough money to meet daily needs.*

**9. Living situation**

*Concerns living in a house or neighbourhood where you feel comfortable.*

**10 years** in this state, followed by death

I have slight problems with my physical health

I have no problems with my mental health

I am very satisfied with my social contacts

I am dissatisfied with the support I receive

I am almost unable to deal with my circumstances and changes therein

I feel useful

I feel reasonably independent

I am very well able to make ends meet

I am very satisfied with my living situation

Select

**7 years** in this state, followed by death

I have no problems with my physical health

I have severe problems with my mental health

I am reasonably satisfied with my social contacts

I am reasonably satisfied with the support I receive

I am barely able to deal with my circumstances and changes therein

I feel reasonably useful

I feel independent

I am well able to make ends meet

I am dissatisfied with my living situation

Select



# Visual presentation (similar to Jonker et al. 2018)

*Concerns physical disorders or defects, and physical limitations in your daily functioning*

Which option do you prefer, A or B?

...to this...

	A	B	
	<b>10 years</b> in this state, followed by death	<b>10 years</b> in this state, followed by death	<b>5 years</b> in this state, followed by death
<u>Physical health</u>	Severe problems	Severe problems	No problems
<u>Mental health</u>	Moderate problems	Very severe problems	No problems
<u>Social contacts</u>	Very satisfied	Reasonably satisfied	Very satisfied
<u>Receiving support</u>	Very dissatisfied	Very dissatisfied	Very satisfied
<u>Acceptance</u>	Very well able to cope	Reasonable able to cope	Very well able to cope
<u>Feeling useful</u>	Feeling completely unuseful	Feeling reasonably useful	Feeling very useful
<u>Independency.</u>	Feeling reasonably indep.	Feeling dependent	Feeling very independent
<u>Making ends meet</u>	Almost unable to meet ends	Almost unable to meet ends	Very well able to meet ends
<u>Living situation</u>	Very dissatisfied	Very dissatisfied	Very satisfied

- Positive aspects are light blue and negative aspects are darker purple
- Put the cursor above the underlined items for descriptions

*Ezra*

# Visual presentation (similar to Jonker et al. 2018)

Which option do you prefer, B or C?

...and this.

		<b>B</b>	<b>C</b>
		<b>10 years</b> in this state, followed by death	<b>5 years</b> in this state, followed by death
<u>Physical health</u>	→	Severe problems	No problems
<u>Mental health</u>	→	Moderate problems	No problems
<u>Social contacts</u>	→	Very satisfied	Very satisfied
<u>Receiving support</u>	→	Very dissatisfied	Very satisfied
<u>Acceptance</u>	→	Very well able to cope	Very well able to cope
<u>Feeling useful</u>	→	Feeling completely useless	Feeling very useful
<u>Independency.</u>	→	Feeling reasonably indep.	Feeling very independent
<u>Making ends meet</u>	→	Almost unable to meet ends	Very well able to meet ends
<u>Living situation</u>	→	Very dissatisfied	Very satisfied

- Positive aspects are light blue and negative aspects are darker purple
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# Visual presentation (similar to Jonker et al. 2018)

Which option do you prefer, A or B?

	A	B	
	<b>10 years</b> in this state, followed by death	<b>10 years</b> in this state, followed by death	<b>5 years</b> in this state, followed by death
<u>Physical health</u>	Severe problems	Severe problems	No problems
<u>Mental health</u>	Moderate problems	Very severe problems	No problems
<u>Social contacts</u>	Very satisfied	Reasonably satisfied	Very satisfied
<u>Receiving support</u>	Very dissatisfied	Very dissatisfied	Very satisfied
<u>Acceptance</u>	Very well able to cope	Reasonable able to cope	Very well able to cope
<u>Feeling useful</u>	Feeling completely useless	Feeling reasonably useful	Feeling very useful
<u>Independency</u>	Feeling reasonably indep.	Feeling dependent	Feeling very independent
<u>Making ends meet</u>	Almost unable to meet ends	Almost unable to meet ends	Very well able to meet ends
<u>Living situation</u>	Very dissatisfied	Very dissatisfied	Very satisfied

Which option do you prefer, B or C?

		B	C
	10 years in this state, followed by death	<b>10 years</b> in this state, followed by death	<b>5 years</b> in this state, followed by death
<u>Physical health</u>	Severe problems	Severe problems	No problems
<u>Mental health</u>	Moderate problems	Very severe problems	No problems
<u>Social contacts</u>	Very satisfied	Reasonably satisfied	Very satisfied
<u>Receiving support</u>	Very dissatisfied	Very dissatisfied	Very satisfied
<u>Acceptance</u>	Very well able to cope	Reasonable able to cope	Very well able to cope
<u>Feeling useful</u>	Feeling completely useless	Feeling reasonably useful	Feeling very useful
<u>Independency</u>	Feeling reasonably indep.	Feeling dependent	Feeling very independent
<u>Making ends meet</u>	Almost unable to meet ends	Almost unable to meet ends	Very well able to meet ends
<u>Living situation</u>	Very dissatisfied	Very dissatisfied	Very satisfied

- Positive aspects are light blue and negative aspects are darker purple
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## Next steps

- Currently creating full survey including several warm-up tasks introducing respondents to visual format, overlap, duration
- Think aloud interviews, testing whether the format makes sense to respondents
- Generating designs for DCE
- Pilot testing



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# Conclusions

- It will be important to measure well-being of older people or what is relevant to older people
- Weighting the dimensions is crucial for informing trade-offs of well-being, economic consequences and health risks
- The WOOP and our study is just one example on how this could be implemented in the future



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**institute of  
Health Policy  
& Management**

**Thank you for your attention!**

**Questions and comments in the chat or to**

**[himmler@eshpm.eur.nl](mailto:himmler@eshpm.eur.nl)**

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