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Ecological Momentary Assessment of Well-being.

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Background



Well-being is often measured as a relatively stable trait in life (e.g. general satisfaction with life). However, wellbeing is known to fluctuate over time and in different environments. To assess these fluctuations and interaction with the environment, well-being should be measured as a momentary state (i.e. momentary happiness). We aim to identify the causes of individual differences in fluctuations of well-being over time and the interaction with the (social) environment.

Methods

The planned design is a combination of Ecological Momentary Assessment (EMA)¹ and passive mobile sensing using smartphone applications.

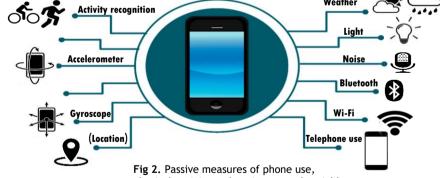
EMA: 8 prompts per day

- 1. How happy do you feel right now? (0-100)
- 2. How satisfied are you with your life at the moment? (0-100)
- 3. With whom are you? (Partner, friends, colleagues ...)
- 4. Where are you? (Home, work, on the way ...)

A large sample of (partly genotyped) monozygotic and dizygotic twin pairs of the Netherlands Twin Register (NTR) are asked to install two different smartphone applications 4 times a year (each season) for 7 days.



Fig 1. Example of an EMA design².



physical activity and environmental variables.

Research questions

- How can we explain individual differences in well-being fluctuations?
- How does well-being relate to environmental variables, phone use and physical activity?

Accelerometer -10 Gyroscope Noise (db) Light (lux) 10000 ₹ 5000 Day 1

Fig 3. Example sensor data from two days (N=1). Each dot is a data point.