Applying gamification to improve quality of life

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Applying gamification to improve Quality of life

Exploration of the effectiveness of a game that empowers users to improve their quality of life

**Problem investigation**

**Quality of life** is the degree of excellence of life

- **People**
- **Planet**
- **Prosperity**

**Challenge:** Empower people to improve their quality of life

The municipality of Eindhoven aims to offer tools that empower people to improve their quality of life.

**Tools**

- Serious games are games in which education is the primary goal, rather than entertainment
- Gamification is the application of game design elements and principles in non-game contexts

The municipality of Eindhoven commissioned this research to evaluate the effectiveness of games as a tool to empower people to improve their quality of life.

**Implementation evaluation**

**Methodology**

Case study design, including quantitative analysis of current and future state.

**Results**

To enhance the game, it is advised to simplify the game. Approximately 87% of non-value added time that has previously been required to play the game can in the future be made obsolete, e.g. by implementing an automated activity tracker.

Furthermore, it is advised to allow users to review (and "down-vote") the activities that others have claimed, in order to increase perceived fairness.

**Solution design**

**Goal:** design a game that empowers users to improve perceived health and decrease their ecological footprint.

Perceived health (people) and ecological footprint (planet) are chosen as antecedents of quality of life.

To motivate users to physically move and travel "green", 2 challenges have been designed that challenge users to walk, cycle, run, work-out and commute by bike, instead of by car.

The challenges are hosted by a service provider, the platform GameBus. The best-performant users have a chance to win an appealing prize.

**Solution implementation**

**Target audience**

Anybody who lives or works in the city of Eindhoven

The marketing campaign has been aimed particularly at government officials of the municipality of Eindhoven and students of Eindhoven university of Technology.

**Sample** (n = 16)

Quasi-experimental research design, including pre- and post-tests for both the experimental group (n = 9) and control group (n = 7).

**Pilot planning**

**Challenge 1**

- Move Consciously

**Challenge 2**

- Green & Smart, Blue & Healthy

**Distribution of user activity per type**

- 80% walking / cycling
- 8% working-out (physical)
- 10% social activity
- 2% "green" commuting