

Mit dem Rad zur Arbeit | Mobility Challenge

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Subject: application
Note: voluntary participation



Every year in summertime we participate in a bike challenge organized by one of the major health insurance companies in Germany. The idea is to activate our daily lives. The goal is to go to work by bike on at least 20 days between June and August.

Your mission, should you choose to accept it, involves the writing of a small app that collects and ad-hoc analyzes GPS sensor records. It will identify and label bike tracks automatically while storing the GPS data points on the SD cards of the phone. The app will be installed on Android phones (preferably Samsung Galaxy S2).

The app shall be intelligent enough to distinguish between bike and not bike movements. Also if someone carries his bike up the hill it shall be able to detect this and does not count this part of the full track as a bike track. Full travels to work therefore can be split into phases (part of travel).

At the end we will have a short summary of records:

- Number of GPS points recorded
- Number of bike tracks to work
- Length of bike tracks (today, total)
- Average and top speed

The vision is that next year everyone participating in the challenge will use our advanced app to automatically collect all data necessary for the bike challenge.

Please do not hesitate to call if you have any question.