

## **Second focus group, held on 17-10-2017**

### **Replaced names of the participants:**

Elisabeth

Eric

Felix

Gabrielle

Jelmer

Johanna

Moderator

### **Notes:**

The replaced names correspond to the names used in the paper.

Other anonymised information is marked with [], e.g., [city in South Holland], [omitted description of the company], [30-39 years old], throughout the transcript. Settlements with less than 100'000 inhabitants are named 'towns'; with more than 100'000 inhabitants – 'cities'.

Indication [gap] means that the discussion could not be transcribed from the audio recording. Usually the reason for this is cross-talk: participants talking at the same time. Sometimes, some words of a participant are not audible or are unclear.

[Introduction movie]

Moderator: I think this was it, is it clear?

Moderator: He made quite a nice video, didn't he?

Jelmer: It is very clear.

[gap]

Jelmer: Nothing is good or wrong, right?

Moderator: No, you can say everything.

Elisabeth: Is it still a tricky question you ask. What do you expect from the future? In the past, I always thought, I do not want to be available during the day.

Moderator: That's pretty funny.

Jelmer: And now you think: where is my mobile phone? Did I leave my phone at home? I would like to return to get it.

Moderator: And now they cannot imagine that this did not exist in the past.

[gap]

Moderator: Maybe just before we start some short introductions? So, just your name and your job or something else.

## Introduce yourself shortly.

Moderator: I will start myself, Niek Mouter, I am a university lecturer here at TU Delft. I do research on other things than what we are talking about today, but I was asked by the researcher to lead the discussion because I speak Dutch.

Elisabeth: Okay, Elisabeth, I've studied here too in the past.

[omitted discussion about studies]

Elisabeth: And in my daily life, I am an [omitted details] consultant and by chance I now work at a parking company in [a city in South Holland].

Moderator: Okay, funny.

Eric: I'm Eric, together with a companion, I own a company [omitted details of the company]. During my free time, I regularly participate in research and visit festivals in the Netherlands and abroad.

Moderator: What kind of festivals?

Eric: Electronic music, techno.

Moderator: Okay.

Eric: And to be able to pay for that, I often participate in this kind of interesting research.

Moderator: Okay.

Gabrielle: Have you been to [an event in the US]?

Eric: No, I have to do participate in a lot of research to be able to pay for that. Yeah, have you been there?

Gabrielle: Yes.

Eric: Wow.

Gabrielle: You really have to do that.

Eric: Yes.

Gabrielle: That's the best in the world.

Felix: I work at a logistics service provider, I work on the service department.

Moderator: Okay and where do you work?

Felix: [Village in South Holland]. I live there too.

Moderator: And Gabrielle?

Gabrielle: I am a teacher in special education, not anymore since one moth, I have turned [60-69]. I am now retired, and now I am going to travel.

Moderator: Is it nice?

Gabrielle: Yes, fantastic.

Moderator: My father also retired a month ago, also a teacher.

Gabrielle: Yes.

Moderator: Always worked at the same school?

Gabrielle: I have worked on schools all over the world.

Moderator: First trip goes to?

Gabrielle: I just returned.

Moderator: Okay.

Eric: Was it this year, [the event in the US]?

Gabrielle: 2012, 2014 and 2016.

Eric: Wow.

Moderator: Okay, Johanna.

Johanna: I'm Johanna, I work at [company in a city in South Holland], a catering assistant, I live in [a town in South Holland] and I am [20-29 years old].

Moderator: Okay.

Jelmer: I'm Jelmer, I'm older, [40-49 years old] and I work as a contractor for [omitted details of the company].

Moderator: Okay, clear, let's go to the first question.

## Q1 How do you usually travel?

Moderator: So the first question is about a normal journey you make. People who travel a lot must think of a normal car trip. So not a holiday trip. Are there any people in the room who often travel with public transport? Then you have to think of a public transport trip that you make more frequent. So not a very special trip to a festival but one that you make a lot more often. I'll make a quick round for the first question. How long does your normal journey take and what do you do during the trip? Yes? Elisabeth.

Elisabeth: I travel by public transport, so train and subway 40 minutes or I go by car which is 40 minutes to an hour and a quarter.

Moderator: Okay.

Elisabeth: Yes, what I do, I make phone calls in the car, I look at my mailboxes on my phone, I will do it anyway. I do not answer them but I take a look at them. Yes, phone calls, watching my phone and the radio.

Gabrielle: Inside the car? When you drive? Your emails?

Elisabeth: Reading, not typing. Yes, just a quick look at your navigation screen. Not all the time but just occasionally, I just check it out. I know it's not allowed.

Moderator: Job related often?

Elisabeth: Yes.

Moderator: So you listen to the radio and sometimes work-related things. Okay Eric.

Eric: Yes, the train trip just like my neighbor. It does not really change, just do nothing, just rest, sometimes I'm busy with my mobile phone, reading things, finishing things I have to do, I do not really have a real ritual.

Moderator: And reporting on your laptop?

Eric: Yes and sometimes on my phone.

Moderator: Okay.

Felix: I mainly travel by car, it takes about 20 minutes when I have no traffic jams.

Moderator: Also for work?

Felix: Yes, for work. Indeed, listening to music, I occasionally send a WhatsApp, not much more. Occasionally I go by subway, then it takes a little longer, about 40 minutes. Then I usually listen to music with my phone, surf on social media, stuff like that.

Moderator: Yes and Gabrielle?

Gabrielle: When I drive my car, I use my phone but with Bluetooth.

Moderator: Okay.

Gabrielle: I think that's easier, so I can talk a little longer and more relaxed with the people I am calling. If I travel by train then I do a lot of work on my phone.

Moderator: Also for work yes.

Gabrielle: Yes.

Moderator: Okay, Johanna.

Johanna: Yes I travel to work by car, around 15, 20 minute. Yes, what do I do in the car? Listen to music, singing, I sometimes do my makeup, mascara when I'm in front of a traffic light, if I forgot that, so that is it. I try to avoid my mobile phone as much as possible. Sometimes I take a look at it, send a little message, but not often. Almost never actually. I really try to avoid it.

Moderator: Okay.

Jelmer: Yes, I have to admit that I send WhatsApp's while driving, but it is not possible to do it differently for me, for my work, I'm really a solution orientated person.

Moderator: Yes.

Jelmer: On my way, I make phone calls, I try to put it on Bluetooth, for phone calls, I usually do. Often my boss sends me a WhatsApp, that's the only time I have contact with that man.

Moderator: Yes.

Jelmer: For the rest, someone is sick, I have to arrange a new guy.

Moderator: Yes, exactly.

Jelmer: And I actually travel throughout the country.

Moderator: Constant things to solve.

Jelmer: Yes, we have people in [city in North Holland], [city in Brabant] and [city in South Holland], we have many people, so all the work projects have to be done, and on the way I'm just making phone calls.

Moderator: You are just working in the car?

Jelmer: Yes.

Moderator: And is there a moment of rest, or does it almost never occur?

Jelmer: Almost never, I also eat on the way and when I'm at Mac Donald's, then I'm using my computer.

Moderator: Yes, clear, we will go to the second question.

## Q2 Are you satisfied with the amount of time you use to travel or would you rather use this time differently?

Moderator: Again you have to answer separately, afterwards we will open up the discussion. The question is, what do we do during this trip. Are you satisfied with that? Or would you rather use it differently? Is that a clear question? Yes? Will we just start again with Elisabeth?

Elisabeth: I do not know if it is a clear question for me, I would like to use my time in the public transport differently. But, I often travel in the peak hours, I do not like to open my laptop, so you're on your cellphone for a bit, just on the internet doing nothing.

Moderator: A moment ago I was in the tram, there it was also not possible to use your laptop.

Elisabeth: I think it's good at other times in public transport, but it's just not a good idea in the peak hours.

Moderator: Yes.

Elisabeth: And in the car I think it's a kind of a resting moment.

Moderator: Okay, so in the car you are satisfied, but when you use the public transport you don't like it unless it is a bit more comfortable.

Elisabeth: But I think it also depends on the connection you have, so if you have a long intercity trip then you open your laptop, that's different from when you travel say from [city in South Holland] to [city in South Holland]. Then you have to switch to the subway, you have short trips and you just don't.

Moderator: Okay clear.

Eric: I'm happy when I look at the travel planner and I see that the trip takes one hour and twenty minutes and it actually takes also an hour and twenty minutes. Then I am satisfied, then I have slept or whatever I have done. But, if it takes longer then I get annoyed. It has to do with the time that I used during the train journey. If the time indicated for it, is taken, then I'm going to leave the train much more relaxed. Once late with the first trip, it goes wrong all day, I get late on other appointments. Then I regret I went by train and not by car.

Moderator: Yes exactly.

Eric: I do not really have a regular ritual, what should happen in the train. That is something I decide when I am sitting inside the train, if I've got a seat anyway. Otherwise, the whole plan will be. Sometimes I do quite a bit, I used to do, prepare a whole meal, cruelsli, yogurt and then I started. But yes, I do not do that anymore. It is getting more and more busy.

Moderator: You have several appointments on a regular day?

Eric: Yes.

Moderator: And if you are late on your first appointment then everything goes wrong.

Eric: Yes, behind schedule.

Moderator: So you're well satisfied with the time. But, if something goes wrong then you really have a problem.

Felix: I would also like to organize it differently, if the car would drive itself and stop at the right points, I could watch Game of Thrones.

Moderator: Netflix.

Felix: Yes, for example, have a rest or just do other things.

Moderator: Clear, Gabrielle.

Gabrielle: Well, I'm using the time to do something fun, for example, people that I have not seen in a long time, I can call them when I am in the car, if I have enough time then I say I'm in the car, so if you don't hear me anymore or when I'm at my destination then I have to hang up the phone. But then I do not think it is lost time. If I have to do that at home, than I think it is lost time to call people.

Moderator: Yes exactly.

Gabrielle: That's an option for me if I'm in the car. Call people, whom I really have to call.

Moderator: Yes, exactly, and if you're home, you'd like to..

Gabrielle: Yes and other things that you are doing.

Moderator: Okay clear.

Johanna: Yes, I really like to drive the car, so I really see it as relaxation. I'm also driving too fast, I like to cross. Those 20, 25 minutes to my job, that's still doable, yes, I always like it. But, I have to say, I'm annoyed by people who are driving too slow, so that's not nice.

Moderator: Sometimes you get very annoyed in your car.

Johanna: Yes, yes. Only if I really have to drive large distances, for example, to my parents, for 50 minutes, I think it's a bit boring, but generally if I have a co-driver, I like to chat.

Moderator: Of course yes.

Johanna: Then I like it.

Moderator: Are you satisfied with your WhatsApp and calling?

Jelmer: Yeah, automated car, I'm in for it.

Moderator: Yes, good for your heart?

Jelmer: Then the car would be my office in fact.

Moderator: Yes, what it actually is already.

Jelmer: Yes, that's actually it.

Moderator: Only a little more relaxed.

Jelmer: Well, safer yes, I also have 2 children at home, who cycle in the morning and then I say, do not use WhatsApp on the bike. Then I drive to my work at 5 o'clock in the morning and then .. Well I could use my time very efficiently in such a car.

Moderator: I would like to say that everything here is anonymous. Your children will not get this information.

[gap]

Moderator: The transcriber also records only 1, 2 and not your names, so just to let you know.

Eric: Sometimes you can see someone on the internet in an Audi driving fast. Then, the police retrieves who it was, via Facebook.

Moderator: Yes?

Eric: Yes, really. These guys that are showing of. They come along really fast. They are really going to try to catch that person.

Moderator: I do not work for the police, I have my blue suit but I have no legal background.

### Q3 Imagine traveling with an AV. What are these pros and cons, compared to your normal way of traveling?

Moderator: Okay, from now on, a group discussion, just thinking about this topic together with the six of us. What are the benefits of those AV's? What are the benefits and cons compared to the normal way of traveling that we have just discussed.

Jelmer: Well, safety in the first place.

Moderator: Yes, that's really a big advantage.

Jelmer: You are working efficiently regarding your time schedule, you keep your own anatomy in traffic, so you can just change your calendar on the spot, you do not always know exactly, oh yes, Tom Tom, you can just adjust the settings, the right address. You can just adjust the settings. Yes, what else?

Moderator: It's a lot of convenience too.

Eric: Yes, it's just convenience, it's an extension of what you're doing.

Moderator: Are this all the benefits more or less?

Eric: The advantages are actually that people cannot do stupidities anymore, if everyone would drive automatically. No traffic jams, no accidents, very minimal, almost never.

Gabrielle: A disadvantage would be that it is getting busy on the roads, people who do not use the car at the moment, visually disabled or elderly. Or they have to be reviewed when they reach a certain age, which will go back on the road again. So the roads are getting more crowded.

Jelmer: Yes, it may be more crowded, but it's all a lot faster because it's all automatic.

Felix: Yes, automated.

Jelmer: Then traffic jams will not occur anymore.

[gap]

Elisabeth: I'm really annoyed when I'm on the highway, stuck behind a slow car for a long time, and it just does not go smoothly. [gap]

Felix: Yes, but you do not have to look in front of you anymore.

Elisabeth: Yes, that is not necessary. But, I assume that there are windows.

Eric: Yes, if you now enter the car, you get in, then you have the sense of freedom. You can decide what's going to happen, music, no music, it also works a bit therapeutically so to say. Having thoughts about whatever. Later on you will think, drive across the country, I have a 2 hour drive, this means that there is a workload because you have a 2 hour drive. You assume it's all going to happen. It just becomes working time.

Gabrielle: Yes absolutely.

Eric: Unpaid, though.

Elisabeth: Well, that's not necessary.

[gap]

Eric: The expectation pattern is present, you cannot choose anymore. You may want to spend some quality time with your partner in that car if it drives on its own. [gap] You can just say there's nothing to check, data and that kind of things. What you just said, I also understand that, email, if the content of the email is not positive, you are really busy in your head with that email. Definitely if you're behind the wheel, if you drive an electrical car, of course, you're supposed to do it anyway. You almost have to, while you are now...

Elisabeth: Well, you do not have to.

Eric: Yes.

Elisabeth: Of course, it's just your own travel time. There is nobody who obliges you about how to use your travel time.

Eric: No, but at the moment it is possible, someone is going to do that. It is over 30 years before they will be available, but it will be a very big cultural change. You do not have to pay any attention, that's unimaginable of course.

Elisabeth: Perhaps you will not have to go to work anymore in the future.

Moderator: You have to assume that the automated car is there but the rest stays the same.

Elisabeth: The rest stays the same.

Moderator: The expectation pattern is changing, so...

Eric: No, normally the working day starts at 9 o'clock in the office or anywhere else, [gap] not at 6:30, some time for yourself, that you can determine by yourself, how you are going to use your time. [gap]

Gabrielle: But you're no longer free. I agree with you on that point. Your boss then says 1,5.

Eric: Yes, I pay for that.

Gabrielle: Then you plenty of time to...

Eric: [gap] going to do. Currently people, but especially in the Netherlands, a lot of people do not even know how an Ipad works. So, I really wonder if the majority of the nation will understand it, how it will work so to say.

Jelmer: It also works the other way round, if you want to go home, at 6 o'clock 7 o'clock, and I have such a pile of work, I can do it in a rush, or I can take it into the car.

Elisabeth: You can just take it into your car.

Jelmer: By the time I'm at home, everything is done properly.

Eric: I would also deal with it efficiently. But, I think it is nice to close the office door behind you and really be ready, so to say.

Gabrielle: Yes, it's an extension of your office when you use it like that. Before you start, but also when you finish. You take your job with you. And I think that if you like to drive a car, when you're finally done at your work, get in your car and you can cross with your car for a bit. That's already relaxing, that is how I see it.

Johanna: That's also when you've worked and you close the door behind you, at least, it's a sense of freedom, imagine you have to enter your car [gap] then I would say it is no good option for that.

Eric: Sometimes you want to do something else. How many kilometers can you drive with these cars? If you suddenly want to change your plan.

[gap]

Felix: I think we're just focusing on going to work, but in the weekend the car is also automatic, so you can drink a beer at the pub.

[gap]

Eric: If this really happens, rules will also change. So many cars can use the road today, or something like that. You cannot just say, families who are going on vacation on black Saturday<sup>1</sup>, I don't know what they call it. But, that's just not allowed, to go all together at the same time, that is what I think at least. It really cannot be the case that they are all allowed at once on the roads, now that is allowed, on one hand, that is an advantage, however, we will not have this freedom anymore.

Moderator: The expectation is that they can drive closer to each other, now there is quite a big distance between cars. But then there can be more cars per hour.

Eric: Yes, if people do not, how do you call that? I imagine that we all ride the same kind of cars, the same kind of blue green, that Audi's design and performance is no longer necessary. It seems to me that this might be possible in the future but it seems very strange to me. Then design does not make any sense anymore.

Gabrielle: No, that does not matter anymore.

Eric: It seems very strange to me, design does not matter anymore, yes functionality. Pub inside it.

Gabrielle: Yes.

Elisabeth: I think design matters.

Jelmer: I think it's especially for the inside. One directs it as an office, the other one like a pub, [gap] I think that's what they will focus on.

Moderator: Are there any other pros and cons?

Elisabeth: I wonder if we need to assume that there is still public transport, so when do you choose to go with your own car in your own customized car and when you do you just take a busy NS train.

Jelmer: I think that they go bankrupt to be very honest.

Felix: I do not see the value of public transport anymore in the future.

Moderator: There are people who say, imagine that you are going to an enormous sports event and when all those people go home at the same time with 50.000 automatic vehicles..

[gap]

Felix: I assume that those cars are electric, so you do not have to do anything for the environment anymore. Well, at least in other ways. But if you take the bus, if it still exists. Or does it not exist anymore?

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<sup>1</sup> Term for the peak moment when most of the people in the Netherlands are going on vacation.

Johanna: I think in terms of employment, I think there will be a lot of jobs that are going to disappear, for example: taxi drivers, why would you need them, police I do not know how often they are along the road, checking speeds, getting a lot of money with that. These are all things that will disappear. I think there are even more jobs that will disappear.

Jelmer: But that is currently also happening, all sorts of technologies begin to outperform the people. That's not just the automated car.

Eric: This would only be for the happy few in the near future.

Moderator: We assume that everyone can afford it.

Eric: Yes okay. But we still have, for example, groups who want to travel together.

Johanna: School trip.

Eric: Yes. That group transport continues to exist in electronic form, which can also mean that you do not have to have it yourself. You must be able to share if you are already that flexible.

Moderator: Yes, sure if you want a bar one time. And the other time you can order something else.

Jelmer: Yes, if you have such an automatic car and you drive it, the highway becomes a kind of express train, so the buses would all be automated.

Moderator: Yes, yes, I think so too.

Jelmer: Maybe it still exists in that form. Check-in will be automatic. Otherwise, that would never fit.

Eric: Perhaps such a system like in Spain, there it was all over the place, these bikes you can take, also the Vodafone ones, you can just put them somewhere else when you are done cycling. I think that is possible with the car too ..

Johanna: Greenwheels actually.

[gap]

Moderator: Other types of pros and cons we missed?

Jelmer: Great advantage is that you do not have to bring your children anywhere. They do not need a driver's license, just get inside the car.

Felix: Yes.

Gabrielle: What about electricity, I suppose they need something like an energy source somewhere.

Moderator: Yes, that's also a good question.

Gabrielle: Is this not harmful for the environment? Because we must have a lot of those things.

Moderator: Large windmills, solar cells, maybe even solar cells on top of the car.

Gabrielle: But also in the streets of course. Now we have 2, 3 power poles in the street. But if we all need a pole.

Jelmer: The TU is busy with that, right? They are now in touch with Tesla. The race, the solar race.

Moderator: Yes.

Jelmer: And I believe that a number of TU students are starting a business.

Moderator: That happens quite often.

Jelmer: Such a solar car, building one.

Moderator: I think there is a lot of development.

Jelmer: Yes.

Moderator: Not at this faculty but at others.

Jelmer: Those who are talking with Tesla, yeah.

Moderator: That is also with the new battery.

Jelmer: I really believe that electricity will be clean, but at the start it's for the happy few. Who can pay for it.

Moderator: You've actually taken us to the next question a little bit. Unknowingly.

Jelmer: Sorry.

Moderator: Very good. So that's a nice bridge.

## Q4 Imagine having an AV and being able to customize the interior as you like. What would you like to do while traveling and why?

Moderator: Imagine that you would be able to adjust the interior. That's possible, I think the car does not have to look like a regular car. What would you like to do when you travel? Especially the things you don't do at the moment.

Gabrielle: Do my makeup.

Moderator: A nice chair to have a seat.

Gabrielle: Yes with a mirror.

Johanna: I like sewing in my free time, which takes a lot of time. Sometimes I'm busy for 3 hours, it's going very fast. But, I would also like to do that in the car.

Eric: Full sweaters come out of your car.

Moderator: Then you put it on when it's cold.

Johanna: Yes, it always takes a lot of time, so it's time to kill.

Eric: You should not kill time, you should just enjoy it. [gap] The freedom itself is nice, when I get in, I'm just going to do nothing or I'm going to eat or have a conversation, maybe even do sports in the car.

Moderator: Yes, sports.

Gabrielle: Yoga.

Eric: Because you save time, that is why you have time, so if you step out of the car, you now have more time to do other things that you might not do at the moment. Now, you can almost make sure you're at 7 or 8 o'clock at your location and currently you just cannot say that properly. You do not know what traffic situations you might face, you'll know that later. Sign in and then you know, so I'm late. Especially afterwards. [gap]

Eric: This ensures that you save time eventually. Then I would just like to have a luxury car, just a good bed. I rest in my case.

Moderator: More? Next to Game of Thrones?

Felix: I notice it at the moment, I've been trying to start for so long, but then you have sports, need to do this and that. At the end of the day I think I will quickly watch an episode, but that results in staying up until midnight, then I am broke again the next day. So I can just do that in the car. Then I think you're spending more time on leisure activities. Now I feel so time pressed, I want to watch my series in a rush. So now it's not really relaxing if I'm watching an episode at home. So, I would indeed do that in the car.

Moderator: And if you have watched all Game of Thrones episodes?

Felix: Then I will pick another one. Yes, no idea, or my administration, which I've been trying to do for weeks, stacks of posts that I need to take a look at. That's all possible.

Moderator: Things that need to be done.

Elisabeth: Yes, I think that I would do that too. The administration, which is already stupid, if you do it on the way, you have already done it when you are on the way. Or a nice big screen, or read the newspaper, Netflix.

Felix: Yes.

Elisabeth: That you can make a phone call for a bit or FaceTime. Those kind of things.

Gabrielle: Card games, games.

Elisabeth: A kind of work meeting. I mean your colleagues are also on their way home, you can just do it on the way.

Jelmer: In your car, skype.

Gabrielle: Yes a good screen and a good sound system.

Felix: Massage chair.

Johanna: Imagine a kitchen inside it, you can prepare everything, and when you're home, you can eat everything, everything's done.

Eric: It's funny because the things I hear now are already occurring in the train.

Moderator: Yes, cooking?

Eric: Almost, yes. A sandwich with salmon, olives. People are looking at me and thinking: what's up.

Jelmer: Just to make things clear for me, we really are talking about big things now, but let's assume that they are small person cars. Now we are with a bus I think.

Moderator: Yes, a kitchen.

[gap]

Elisabeth: Yes, we think in the model of a regular car, but we don't have to. There is probably no steering wheel at all.

Johanna: You may be able to build into the height.

Felix: Yes, of course, they do not have to keep the same shape.

Moderator: Yes, you can cook, and you do not have to cook at home anymore.

Johanna: Or cut vegetables indeed.

Moderator: Yes, indeed, cutting.

Elisabeth: I'm also wondering, where they will be parked, because you can, you can plan your trip exactly, imagine you work in Amsterdam, there is no parking space. So, should you order it?

Eric: That is already arranged. The tax authorities and the government and employers will play a very important role in this. That it's not your own car, so to say. But, the advantage is that everything is already arranged. And you just know that if there are no really good benefits imaginable, then it's not a good idea, people should also see practical benefits. If you decrease the freedom of people and return something for it, no problem, no whining. On holiday, get off to Italy or whatever, that really makes people think, also comfort, you can relax with your family sitting inside a car. And in return you have lost your freedom. [gap] Advantages may be more important.

Moderator: There is another freedom as return.

Eric: Yes, so do not worry about tax matters or counts that is all already arranged, you do not own it at all. I can imagine if you drive to Amsterdam and you work for 8 hours if this still exists, or whatever, the car is already gone to someone else.

Moderator: I'm very curious about that. Whether you own it.

Elisabeth: That is, of course, a question.

Moderator: That you can even drink with your friends.

Jelmer: Than you cannot customize your own car based on the person.

Eric: Depends a bit on the wishes of the next generations, but we are very possessive and even so culturally determined. It is truly a materialist society. How will the culture be at that time? Perhaps people will no longer have anything in possession or whatever, maybe other things are possible. Even in housing, you live here and there.

Moderator: I am wondering if that is going to be affected.

Elisabeth: The question is whether there is still public transport and private transport, or the car in an ideal world is the public transport.

Eric: Yes exactly.

Elisabeth: Actually a kind of taxi.

Moderator: That's really interesting, yes.

Felix: But, I do not think this will be in the very far future.

Moderator: No?

Felix: Lastly, I had such an electric car, then you put it on the cruise control, and if you drive a car, it automatically brakes, and then goes on again, if you are driving over the side line it turned you back to the middle, yes I was very lazy at that time. It automatically brakes, it had lane control, you do not have to do anything, just push the gas pedal and it was automatic shifting too. That's already there, so I think development of this is much further than you think.

Moderator: Okay, we have already talked about this for a while.

Q5 Do you think that doing activities inside an AV, instead of outside, can save you time for the rest of your day? If so, how would you use this time?

Moderator: People are likely to do other things in the car, so they will have more time outside the car. It might be a tricky question but how would you use that extra time that you now have.

Jelmer: Quality time with your family.

Moderator: Work in the car and more time with family.

Jelmer: Yes if that is possible, I don't have to take my laptop home. Than my wife is also a lot happier. Definitely.

Moderator: So, an extra benefit.

Jelmer: Yes, I really think that's an advantage that you are really at home when you are at home.

Moderator: Yes.

Felix: We are talking about a travel time of 20, 40 minutes. It is not that you can produce miracles in such a timespan. Half an hour longer inside the car and then your work is complete.

Jelmer: No, but I'm in the car almost the whole day.

Felix: Yes, for you, but for the rest.

Moderator: For him, a lot more productive.

Felix: Yes, yes. But for me that's 20 minutes inside the car, that work, how much work is that?

Moderator: That's an hour to sleep longer. You can go to bed earlier.

Felix: Yes, or watch an episode of my series.

Moderator: Another extra episode. I think it's good for people with a longer travel time [gap] but for the rest it's a quarter inside the car.

Johanna: Yes quarter to 20 minutes.

Felix: 15 minutes, mascara just finished.

Johanna: Yes.

[gap]

Moderator: If you have already finished cutting your food.

[gap]

Eric: What you just explained to us, you take into account the scenario that anyone can drive such a car. But not everyone has the same time format and same day format.

Moderator: No, not at all.

Eric: Also for work, therefore, if you have a variation. [gap] If you have 2 hours then it really matters. I think about holiday breaks. Then you build up your trip differently, if you need more time so to say.

But, within a short time there is nothing to do. The risk when you are busy and you arrive at your destination when you are not ready yet. That might be a negative thing, at least for me. I'm worried about that.

Moderator: And Elisabeth, if you could have done the things that you need to do?

Elisabeth: Nice to be home and do nothing. This time is, of course, very short, so to say, I fill it in, but you get used to is very fast, so you do not even appreciate having that extra time.

Moderator: Playing card games inside the car.

Gabrielle: Yes, if I'm home earlier, say 20-30 minutes, then I'm at the gym earlier. That's another bonus.

Moderator: Fitter.

[gap]

Elisabeth: Then you may leave 20 minutes earlier.

Moderator: More ideas, or yes, the time we spend in the automated car, will we have more time for something else?

Eric: Good rest, really have nothing to do, because yes, eventually you drive for yourself, but at some point you really have to go out. You have to appear somewhere, you cannot just been woken up, you're not doing that normally either. If you do not have to worry about paying attention, it also gives you mental rest. That could be the overall benefit.

Moderator: Also for you Jelmer?

Jelmer: [gap] Or the rush you have, that can be quite stressful yes, quite big even, still if you drive, two phones, one on the app and the other one on Google, then you are sending a WhatsApp, then the next one sends you a message. And then you're half in traffic jam. Then I get stressed pretty fast indeed. [gap] Phone off, now it's done when I arrive at home. Then everything suddenly goes a lot better. If I'm stressed, then everything goes wrong. Then I make the mistakes. I can see the benefits, yes. [gap] And a lot safer.

Moderator: Do you get annoyed by the slow..

Johanna: Yes, sure.

Moderator: And you have that...

Johanna: No, you have that a lot less then, because everyone drives at the same speed. But, especially those old people, nice and easy, [gap] that's how it goes.

Moderator: But then you may miss the fun and the rush of...

Gabrielle: I'm afraid it's too slow. If you're in such a thing, you're out of control, I'm afraid that I just get stressed.

Moderator: You cannot go faster.

[gap]

Felix: You cannot catch up others on the emergency lane.

[gap]

Jelmer: You can still show your frustration with your middle finger.

Elisabeth: Of course, that has no effect anymore.

Gabrielle: No one seems to look at you anymore. You have your own world in that car. So nobody is looking at each other anymore. Once you get in, you're doing something. Then you look through the window, o a cow. It will be a completely different dimension.

Moderator: Yes and those cars also follow the rules.

Gabrielle: Yes, those who are in fact complying with the rules.

Moderator: Cut off someone.

Gabrielle: It gets very boring.

Elisabeth: You are no longer a road user, not having to pay attention and having a responsibility.

Moderator: And that TV show about road misusers will no longer exist.

Gabrielle: No, and no cosy petrol pump anymore with croissants.

Johanna: Also, less crime, anyway. No fleeting criminals you still need to catch.

Eric: No ram-raiding anymore.

Jelmer: Yes, how in heavens' name would they do that? The automated ram-raiding.

[gap]

## Q6 Would you change something in your daily routine if you would have an AV?

Moderator: On to the next question, that's about, you have seen the example of Bob. That he had a deadline and then decided to not pick up his daughter from a piano lesson, but keep on working and finish it. Then he let the car pick up his daughter. Then they drove back together. These are, of course, fairly reasonable impacts and a relatively small impact. But, what we are thinking about now is whether you would change something in your daily routine in your daily pattern. Maybe not such an easy question.

Felix: I actually have exactly this, I work for four and a half days, and [one afternoon a week] I pick up my son from school. [gap] has to finish this, I would leave 10 minutes before half past from [my work] and in 10 minutes I arrive [at my son's school], that would be really ideal. [gap] And if the range is a bit bigger. And if he goes out by himself or something. That car can also pick up your children at night. Then you do not have to stay awake for that.

Moderator: Yes, exactly.

Gabrielle: But that car is driving automatically. And the car has already been preprogrammed. What if he ends up in Belgium?

[gap]

Gabrielle: Maybe such a boy gets in the wrong car.

Felix: Yes, but it is completely customized in principle.

Gabrielle: Okay.

Felix: All children kidnapped.

[gap]

Moderator: We can also do research on how to solve this.

Felix: No, but I like that a lot, my son is 10 years-old now, but if he's going to go out, and I feel like I do not want him to go over the streets alone. Then I do not have to pick him up but then the car can.

Jelmer: He goes by himself, I mean, often the question arises: who is driving tonight? An evening out, good food, this is your last beer, right? I say yes, fuck. We should have taken the bike or...

Johanna: In that case, it's actually healthier, because you're going to drink more, because it's so easy. Oh yes, I can still have some wine.

Jelmer: But yes, I do not think the responsibility lies with the car to live healthy. That lies with you.

Johanna: But it's more attractive to do.

Jelmer: Yes, that's true.

Moderator: It will also be very sponsored by Heineken, etc. Great sales. When picking up children, but also assuming that you can drink more easily with the two of you. Still other changes in your routine? Or other habits that you can imagine?

Johanna: Yes, later to your work, maybe a shower can be built in, you can still shower. Yes.

Moderator: So sleep longer.

Elisabeth: Yes, it will be a kind of extension of your work or from your home. Of course, it works in a similar way [gap] if I can wake up slowly.

Moderator: Yes, breakfast maybe.

Elisabeth: Yes, if you can make a sandwich, yes.

Eric: What seems to me the biggest benefit, is that disabled people who need to get a taxi, which needs to pick them up at home, will not need it anymore. They can travel independently, longer. There is a lot of loneliness in the Netherlands, dramatically put, that would be a lot less. That people are supposed to be able to...

Gabrielle: Would people go out more often you think? Independently.

Elisabeth: Well, if you...

Eric: The point is, I see how difficult it is to load a wheelchair into a car, if you want to drive yourself. In my last job I helped someone carry things out. Then I think, that's well organized. Because someone might be assertive, so to say, but most people have the idea that they could do something, but then they are not able to. If it was just a matter of programming it: the arrival time and go.

Johanna: I think that is very impersonal. You get inside a car, you're going somewhere.

Eric: Plan this, plan that. That's just a disaster. The only thing they are assigned to is just that. For a day out, an hour late and all day is ruined. That would be that way...

Johanna: You cannot chat with anyone anymore.

Eric: Yes.

Johanna: With the other one who is inside it or?

Eric: Yes.

Johanna: okay.

Jelmer: You have all those media systems, I mean you can skype.

Johanna: Yes, but personal contact is also more fun than just media and a screen.

Eric: If you really give people the freedom of going out, that many old people are on the train. Certainly early in the morning, I like it that people go out instead of just being alone, it is fun right, from Breda to Rotterdam? They are right, those people, and that is made even easier, to go out. Just what someone said...

Gabrielle: Yes, people that cannot see well, cataract or whatever. Then it's done, they hand in their car. Then their freedom is again gone.

Eric: Certainly when the children and grandchildren live far away. Yes, that could be an advantage.

Moderator: Yes, grandpa and grandma can be easier on birthdays.

Gabrielle: But then grandpa and grandma can pick up the child.

[gap]

Eric: Together with cameras and phones you can see how and what. Now entering the car, arrives, you have to hand in privacy.

Gabrielle: A kind of tracker system.

Moderator: Yes, definitely with children.

Elisabeth: Do you still put your child inside of the car?

Jelmer: You just have apps that allow you to check your own child.

Gabrielle: Does he have to have a device with him or?

Jelmer: No, that's just his phone.

Gabrielle: Yes.

Moderator: Okay, this is a nice one too.

Q7 Would you, if you had an AV, travel to new places (further or nearer) to carry out your activities? Would you travel more often or less often?

Moderator: Yes, if you would travel to other places you are not traveling currently. Further away or closer?

Gabrielle: Further away yes.

Moderator: Yes, would you do that easier?

Gabrielle: Yes, yes, you are less tired. You do not have to account for a return trip, you do not have to go back in the evening, if I go far away, I want to eat and drink, but that's not possible. In this way, it is, you can easily go to Brussels or Paris or so.

Moderator: To have diner there?

Gabrielle: Yes.

Moderator: Yes, of course.

Gabrielle: Yes.

Felix: That would be an invention, to Paris, God.

Gabrielle: Yes, nice right? Eat there and then go back and sleep in your car.

Elisabeth: Then you are not talking about commuting anymore, but really about fun trips.

Moderator: Yes, exactly, very wide.

Jelmer: You have a daughter who wants to study fashion in Paris? Yes, go. I'll see you tonight.

Moderator: Yes, that's all possible.

Jelmer: That's possible, with, I don't know, 900 km/h inside your car.

Felix: Yes, you just have a speed lane.

Gabrielle: Yes, the left lane just goes straight on, it does not have to get off anywhere.

Jelmer: Then I see, the borders of the countries are suddenly very small.

Moderator: Yes, your child can live at home if he wants to, and study where he wants.

Jelmer: Yes exactly.

Moderator: Other places you would visit far away.

Eric: I think in some countries at the moment, it's still 1592 so to say, (in terms of) the local infrastructure. Even if you say everyone drives it, if it is only in the western part of the world, then you would think – if only all of us could be so mobile, that other countries could also participate. Get food somewhere in an inhospitable area. That's all possible, actually for everyone.

Moderator: Yes.

Gabrielle: Instead of just the happy few. The businessman with his newspaper who is showing off. Then you would think, whom is it all made for? Should everything be faster? I mean within 2 hours I'm on La Rambla in Barcelona when I fly from Rotterdam airport. 2 hours later. Even faster? 10 minutes? How? Do you understand what I mean? If we do, I am not such a world improver, but still thinking about it, there are still people who cannot have access to clean drinking water. Well, if we can be so mobile, then let's mobilize that. Instead of: o, I've got another quarter left. As we begin to think about this subject, I think yes too, the happy few, the people who do not know what to do with their money. Our big problem is time. I mean, how to use it.

Moderator: You can also find people who are..

Eric: Yes, yes, if it would go that way then, yes. Finally, someone has to pay for it. If everyone must have it, you just hope that more people will benefit from it. (Not only) That someone may do his squash lesson because he has saved time.

Moderator: And how would you...

Eric: No, I mean when we look at those natural disasters, so to say. America, also on paper in any case a civilized country. That they just cannot deliver food and things. Now, or it seems to me, we send the car there, so that it is used in that way, instead of the benefits that are already available, which everybody can fill out for himself.

Moderator: Yes, but indeed in case of a disaster, you would...

Eric: Yes, if it is only for the authorities, say for the government. In case of the police, if the police are late for only one minute then it can just be over for someone, so to say. Now a helicopter is used, but then that car. I would really like it if my great grandchildren could see this when they grow up, that the world no longer, what I just mentioned no more borders, but also the benefits must be for everybody.

Moderator: Yes, original.

Jelmer: Well, I have to say it is idealistic.

Eric: Yes, it is, right?

[gap]

Moderator: Now we can have a look if you can go even further.

Eric: No, look, I've also been in Morocco, to conclude, the differences are enormous, between the country itself and between poor and rich, really huge. Let's create an advantage for more people. Do you do that too? Developing things to get fresh water?

Moderator: Yes, I think that belongs to TU Delft. This technology has been developed for more efficiency. But you could indeed also have more justice, then there are other things.

Eric: Yes exactly.

Jelmer: Yes, but I think the problem of a world improver is, that the nature of mankind is this way, so once I have money, I want to keep it and that holds for almost everyone, besides some. And there's the problem, I mean, if we do everything efficiently, then all the companies will be all over it, how can we invest in this and earn money? Then it's in the first place because it's so fucking new, only the rich people will enjoy it. Until it's really exploited and easy on a certain moment also the middle class

can own one. That only works if we keep those poor Africans working for us. That's why we live life as we do.

Moderator: Okay, maybe back to the question again, if you do not mind. For the others, what kind of place would you visit?

Elisabeth: Just a weekend winter sport, I used to do that often, then you think it's only a 10 hour drive. You will just do that. Then you leave at 12 in the afternoon with your car. It's always going well on the way to it, but when you drive back you just think, in the morning we can do a little skiing, and you'll be back home broke. The next day you have to work again and then it's nice if you're just... I think that too many new things of which you think at the beginning: I have a lot more time but at one point it's just normal and then you think yes...

Moderator: The novelty is off.

Elisabeth: The novelty is off. And then it's no longer necessary. I can imagine, yes your range just gets bigger.

Moderator: I especially hear you about relaxation.

Elisabeth: Yes, but that's just for yourself, you can just plan and do what you want to do. I do not think that when I have an automatic vehicle, I am going to work in Groningen.

Jelmer: You'll just get these people who move for seasons. Then I go away, because it's bad weather today, and the rest of the Netherlands does that too, then half of the Netherlands is in Italy.

Moderator: All year round.

Jelmer: And throughout the winter.

Moderator: Yes.

Jelmer: It is also the other way around, all those Italians suddenly arrive in the Netherlands.

Moderator: It will be more crowded in cities like Paris, if I understand you.

Eric: Venice has 60,000 people, permanent residents and 26,000,000 tourists a year.

Moderator: That is not going to be less.

Eric: That's not normal. The ships are currently chased away. A cruise ship may not moor. The locals say, no, not here. I think what you're saying, it would only work if it's regulated. That people do not have a free hand in it. So, yes, it's October now, it is not your turn to travel more than 1500 km. If you want to, please sign up to the group.

Gabrielle: I think it will be something like that. That's what you said about black Saturday. That this is not the case anymore, that you are getting a certain period in which you are allowed to travel. You want to go on vacation with your family? Oh, there's another place left. Something like that.

Eric: That also does not work, if everyone can take vacation at the same time.

Gabrielle: Of course, that is what the schools actually do.

Eric: That is also a strange system. Back in the days, this was not the case right?

Gabrielle: No, back in the days, that was not the case, no.

[gap]

Elisabeth: Maybe it will regulate itself. Perhaps in the beginning, everyone thinks it's possible, but at one point you do not think it's necessary.

Eric: Yes with airplanes you also have offers, 30 euros anywhere in Europe.

Eric: Was not like that before.

Gabrielle: Earlier, it was not the case.

Elisabeth: Maybe it regulates itself, it just cannot...

Eric: Airplane is also that you can, for 30 euros...

Moderator: Yes, it is interesting. How that happens when everyone wants to go for skiing. The slopes are full at one point.

Elisabeth: And bald.

Eric: Everyone has other needs as well. There are people who like skiing, I should not think about it. I just can't.

[gap]

Moderator: An increasing number of people going skiing, Barcelona, Venice, Paris, that is getting bigger.

Eric: Yes, if you are going to book a flight at Transavia, the flight is fully booked, bad luck. Then you just have bad luck.

Moderator: Yes, that's true, of course.

Eric: I was in [popular city in Europe] in August and I wanted to go to [another popular city in Europe not too far away]. Just could not go by train, full. Yes, then we just don't.

Elisabeth: It's also not free, it's available, it's affordable. I mean bread is also affordable and you also have all kinds of bread and different sizes. I can imagine that you say, I have to be there and there on Monday morning. That it is more expensive or takes me longer.

Moderator: That might be the case, that it is the market.

Elisabeth: That scarcity is there anyway.

Moderator: Yes.

Eric: Some people just want to be really anonymous, if the term anonymity would not exist, then this could work well. You just do not want to go home, you can just say fuck you or just something else. At a certain point there is nothing that you can really keep for yourself. You'll see the car coming. Then you have to go home.

Elisabeth: You can drop off yourself somewhere else.

Eric: Yes exactly. At home you will be followed on the screen.

Gabrielle: Yes, where you are, of course.

Eric: It is thinkable that the car be used for other purposes.

Moderator: I think that my girlfriend then sends that car to me.

[gap]

Moderator: Okay, I'll think about it. Just have a look at the following question.

## Q8 Would you consider moving, if you had an AV?

Moderator: Yes moving, I would not go to Groningen you said.

Elisabeth: No I would not want to work in Groningen at all, even if I could still live in [a city in South Holland]. You still have the travel time. I can use that time just as well for other things.

Moderator: You can say: yes, I would move. If they are there, I would go to live somewhere else. If you do not think of it that way, you should imagine that it may affect location selection.

Felix: I think so.

Moderator: Are you left or right?

Felix: I think I might move, I live in the center, which is quite expensive. For the same money I can have a much bigger house at another location. Also traffic jams will not exist anymore. If your employer also takes into account that your travel time is also your working time, then you can also stop earlier. Then you take your work into the car so you do not have a disadvantage at all from travelling.

Eric: Yes, if we are so far, I said that in the beginning right? There is no physical work anymore that has to be done at the office. Then everyone is going to work at home.

[gap]

Felix: Factories still have to be employed. He can stay at home, but if he stays at home, your furniture will not be installed.

Johanna: It is just like at IKEA, they have a web-shop, but everyone likes to go shopping at IKEA. I think so too. You want to feel it, how it is put together. These are just things that remain.

Felix: What you see is for example at ware houses, all going bankrupt.

Johanna: Yes.

Felix: A friend of mine used to have a bicycle shop before, then they come by, they watch a bike and then say: perfect, I buy it online, it is cheaper. That's really ugly of them.

Jelmer: Yes, you have to be innovative.

Elisabeth: Yes, I might move, but not far beyond [gap] having a trip. Because you're just locked up. I mean you can do a lot, you can have a lot of contact, but of course not really. Of course you can shop on the web or cut your stuff. You're just locked up in a small physical space. It's nice if it's more efficient, but I would not want to live much further from my work. Maybe a little further. But I don't feel like traveling 2 hours for work. Or: a nice assignment in Paris, we can do that.

Jelmer: I feel like this: my house is my house. I am a [inhabitant of a city in South Holland] now. I have nice neighbours who will not move for me. I like it there. If my son is home, we'll go outside. There is no car that is better than that. But there is one possibility, if I can work more, want to work elsewhere, other boss, career opportunities, a job offer in Paris, I would do it. I would not move, but I would make other choices because I can travel further.

## Follow-up question: if you had to move, would having an AV influence your decision?

Moderator: And the second question, you say I would stay here. Suppose you should move, would the fact that automated cars are available play a role in your choices?

Jelmer: Yes, it would, yes. But that would really have to be for some reason. But it would play a role.

Moderator: Hard to imagine.

Jelmer: In that sense, my choice would be more broad, I have to move, than I would go somewhere in the countryside, somewhere near the sea more easy, beach house. Yes, I definitely would.

Moderator: Others who would move?

Gabrielle: Yes, I would do that too.

Moderator: And where?

Gabrielle: Wherever there is less regional tax.

[gap]

Gabrielle: Yes, if I look at the whole county, some villages you pay only 40. I think like this: then I will live in that village.

Moderator: Yes.

Gabrielle: Yes.

Moderator: The barrier is less big, yes. Johanna?

Johanna: Well, I live in [town in South Holland], I already have plans for moving. But if I was living in a place where I felt fine already. Now, I see myself living in [city in South Holland] in the future, I think it is such a cute little town. You walk into the town, a pub for example. I think I would not move for that. Because it is cozy, the atmosphere.

Gabrielle: The social events.

Johanna: Exactly, social events. Friends, going out. In that case: no.

Moderator: Last question.

## Q9 What would change most in your daily life if you would have an AV?

Moderator: Okay, maybe again in a round. What would be the biggest impact for you if that automatic car would be available. So we have addressed a lot of things, what would be the biggest change for your daily life?

Gabrielle: Yes, the stops at gas stations are gone.

Felix: They will be there, but you cannot refuel, or get a cup of coffee.

Gabrielle: Then you will not get dirty hands and that kind of stuff. That's so filthy.

Elisabeth: I think you can no longer decide about what your route will look like at this time and how you experience it at that moment. You're just handed over to the device you're in. While I normally thought, here you can gain some nice speed. Or stop at the petrol pump.

Felix: That is still possible, I think?

Elisabeth: Yes, you can, but you have to re-enter and schedule it again. That vehicle will not pass other cars at the moment you're in a hurry.

Johanna: You just have a little less control actually.

[gap]

Elisabeth: Just the drivers role, I'm going to miss that.

Felix: I think if you're just a car lover, that you get a fulfillment from nicely racing. That it's really a racing event.

Elisabeth: Yes, if I'm in the car and someone else is driving through the mountains, I do not think it's nice. But if I'm behind the wheel, I think it's fun. [gap]

Gabrielle: Look under the hood.

Felix: Yes, if you have a V8 or some 1.0 car, it does not matter anymore. If you are a car lover. But the biggest change, I mean, you look in the area from your house for a job, I'm also going to switch jobs now. But then I could look way broader now.

Moderator: More possibilities.

Felix: Yes, I think so.

Moderator: Eric, what would be the biggest change for you?

Eric: I'm trying to think positive, I'm currently experiencing a structural sleep shortage of 1 to 1,5 hours a day. I would really use it for that, if I had to give something out of control than yes. Then I'm going to rest, I also notice that now, when I'm on the train and the ride takes longer, the train stops for a while, that's not supposed to happen, what we're going to do now? It just has to go on. Panic in my head, so to say. As soon as I am moving, I'm relaxed. Then I sometimes come out of the train much more relaxed than when I got on it. If it just goes well, I can benefit from it. I would just take some rest. I would have more rest in my head. Now you really need to pay attention, that is really a lot less when they are available.

Moderator: Would you also sleep in the car?

Eric: I like to take risks, if things go well. At the starting face I have to see how things go. But in the bus I close my eyes, also in the train, in the plane or on the bike sometimes too.

Moderator: Not so handy.

Johanna: I think I would travel a lot, I think that would be a big difference. Going out in the weekends. Going abroad. Or to a city where I earn more, than I would definitely do that. That's what I think about what are the two big things for me. So travel and work.

Jelmer: The most immediate effect if I would have such a car tomorrow would be, less stressed because the work pressure is less. Or actually I can do much more. For the long run, I will only work more. So for the long run, that does not work. But for the rest, what effect would it have. Yes, less stress.

Moderator: Are there any other things?

Gabrielle: Yes, the control factor of course. That's gone. Completely gone. You are only in control when you are programming it. What kind of stop you're going to make, but that's it. Nothing more. I think your mental function is going to decrease. Now, of course, you must be alert and respond ad hoc if something happens. I think that little bit in your brain just dies. You do not use it anymore. If you do not do that for 2 years, well, we'll throw it away.

Elisabeth: Then you will play games to compensate it.

Moderator: Card games.

Elisabeth: Yes, card games.

Jelmer: It seems to be that gamers, I saw that on a test, that older people, regarding to multitasking, after they had spent 3 months doing games, they gained 20% of..

Elisabeth: Faster and more alert.

Jelmer: The alertness has increased. All because of the gaming, because they have a certain multitasking.

[gap]

Moderator: Still good.

Felix: Now let's get a playstation 4.

[gap]

## Would you like to ask anything to us?

Moderator: Perhaps, finally, closing questions, questions for the researchers? Tips?

Eric: Can we do a test drive?

Moderator: We have one on campus.

Felix: Yes, I believe that.

[gap]

Eric: Nice subject though. [Soon] I'm going to [a city in Europe]. Five and a half hours in a bus. Cozy, having a look around, see the scenery. [Another city in Europe] last week, 2 hours. It's all fine right now. It must have substantial benefits to really do it. [gap] It's also nice to do nothing, so to say.

Moderator: I am very curious.

Elisabeth: I am very curious when you watch the video again in 30 years. Then you think: what are these people...

[gap]

Felix: A colleague of mine had no smartphone 2 years ago. He really did not want that. He said, you always look on your phone, it really does not add anything. Then the Iphone 5 came out, which he got. He's on Facebook all day long.

Moderator: There is now a lot of research being done on the automatic cars, but it is still a difficult point about how they will interact with cyclists, children playing on the street.

Felix: That Golf GTE that just stops, that was so scary at the beginning, you just drive [gap]

Moderator: That's pretty good, but imagine I'm a pedestrian and I am crossing the road because I know that the car will stop. How does that work?

Eric: A pedestrian who crosses quickly is just dead.

[gap]

Moderator: Are those cars still in town? That is the question.

[gap]

Jelmer: What you now see is that they already refuse old cars in the city [GAP]

[gap]

Gabrielle: I have another question: are there any belts in those cars?

Moderator: I really have no idea.

Gabrielle: I have my doubts on that. I'm going to do this, I am going to do that. But when you sit inside the vehicle, being trapped in the seatbelt...

Felix: Then suddenly the broccoli flies through the car.

Gabrielle: Are there also belts in those cars?

[gap]

Moderator: Thank you very much.