Group 06 Transcript

Control group, student experiment

All participants are male

Third recording has not been transcribed as this concerned the documentation of the model, not the design session

Respondent	Text
	Recording 01 8:27
0:00:01.5	Alright. So the first one's gonna be the functional view, second one
PERSON 1	is gonna be the information view, third one functional again, and
	the fourth one information view and the context view we do more
	high level. General [inaudible] dutch expression
0:00:24.2	Yeah I guess four can be functional
PERSON 2	
0:00:27.3	That's the automated [inaudible] from one to another [inaudible]
PERSON 3	time
0:00:33.1	Yeah state diagram
PERSON 1	
0:00:34.2	Yeah essentially, yeah but it's, three for example, this is fairly
PERSON 3	simple. Compared to [inaudible]
0:00:42.2	Yeah but it adapts, state diagram. Ok.
PERSON 2	
0:00:45.1	That's the easiest notation that you're going to use
PERSON 1	
0:00:48.7	Yeah
PERSON 2	
0:00:50.1	So this would be the functional state, I guess. At number four this-
PERSON 3	
0:01:07.3	Would it be possible to create a busy, seldom-used, any variation of
PERSON 1	road? How exactly this is declared by the user and depicted by the
	system is up to you. Broadly, the tool should be easy to use, and
	[inaudible]
0:01:27.1	I have an idea, because with all the requirements that we have that
PERSON 3	they don't expect complete- I mean you cannot be accurate. But in
	my experience, in my bachelor's I did it in requirements engineering
	and there's four types of requirements you have which [inaudible].

	It's called MoSCoW prioritization
0:01:46.0	Yeah
PERSON 1	
0:01:46.7	Yeah, you know it?
PERSON 3	
0:01:47.9	Yeah
PERSON 1	
0:01:47.6	So, must, should, could and wish. I think if we outline the must and
PERSON 3	should, those are the first two that we model.
0:01:58.5	Mhm
PERSON 1	
0:01:58.1	And the rest is optional. Because, no seriously, because-
PERSON 3	, , , , , , , , , , , , , , , , , , , ,
0:02:01.8	Yeah I know. An optional is-
PERSON 1	·
0:02:04.2	Is never
PERSON 2	
0:02:05.1	It is. It is essentially, that's how you-
PERSON 3	
0:02:07.9	I know. If it's optional
PERSON 2	
0:02:10.9	Yeah, but it's specified like this
PERSON 3	
0:02:12.1	Ok
PERSON 2	
0:02:12.8	I mean
PERSON 3	
0:02:13.5	Yeah
PERSON 1	
0:02:13.8	Must is very different to should
PERSON 3	
0:02:16.7	Yeah. Well, three of them are must and one of them is should.
PERSON 1	Three of the four are must. So, I don't think, in the design of this
	document that they paid attention to the words must and should
0:02:32.5	I know but it's-
PERSON 3	
0:02:34.9	Probably what they want us all to do this-

PERSON 1	
0:02:36.4	I know but in the end it's-
PERSON 3	
0:02:37.4	If you're making [inaudible] if you look at the software engineer,
PERSON 2	someone, or programming.
0:02:43.4	Yeah, these are the instructions you're given, if you look at the
PERSON 1	words
0:02:47.3	If we make a wrong software architecture, the software is going to
PERSON 2	get build wrong
0:02:54.2	No, because these are-
PERSON 1	
0:02:55.1	We have to reduce this. Follow the exact word they give
PERSON 2	
0:03:14.1	You should design the basic appearance of the program. As well as
PERSON 1	the means by which the user creates a map, sets traffic timing
	schemes, and views traffic simulations.
0:03:41.5	You also should not be allowed but- all intersections will be four
PERSON 2	way. There are no T intersections nor one-ways ok. Must be able to
	design each intersection- who wrote this.
0:05:00.4	Maybe once we have all the requirements outlined we can kind of
PERSON 3	move them into logical components and for example, visual display,
	editor of the map, I don't know, logical sensors and then we can
	maybe build that into a contextual model. A very high level one. Or
	maybe not, it might actually be functional. And then-
0:06:15.4	If you want to design a traffic road simulation program, why are
PERSON 2	there restrictions to the user interaction, intersections in the
	software. So these restrictions also have to be made on the real
	world.
0:06:34.2	Which intersections?
PERSON 1	
0:06:37.1	[inaudible] software
PERSON 2	+
0:06:40.4	That's [inaudible]
PERSON 1	Vach was did finandiala
0:06:41.0	Yeah you did [inaudible]
PERSON 2	Doob able to the control of the cont
0:06:56.8	Probably yeah

PERSON 1	
0:06:58.5	[inaudible]
PERSON 2	
0:07:04.1	You know they have to transcribe this
PERSON 1	
0:07:08.7	What did I say
PERSON 2	
0:07:09.5	I don't know
PERSON 1	
0:07:11.1	[inaudible]
PERSON 3	
0:07:12.0	What? [inaudible] some weird verb [inaudible]
PERSON 2	
0:07:21.2	Now they have two minutes of transcribing. Something in here they
PERSON 1	have to do with a moderator but not, don't want everyone to know
	that [inaudible]
0:07:41.7	This program is not meant to be an exact scientific simulation but
PERSON 3	aims to simply illustrate the basic effect that traffic signal timing has
	on traffic. If you wish, you may assume that you will be able to reuse
	an existing package that provides relevant mathematical
	functionalities, statistical distributions, random number generators,
	and queuing theory.
0:08:26.2	You want to press on pause?
PERSON 2	
	Second Recording 65:12
0:00:01.3	Again
PERSON 1	
0:00:02.1	Maybe [Person 2]
PERSON 3	
0:00:04.0	Since you're good at this, maybe these parts, like, these are our
PERSON 2	outcomes but these are like four. One, two, three, four, so, these
	are like four different processes that can be modelled, I think quite
	quickly and-
0:00:27.3	What does creating a map- what does a map need.
PERSON 1	
0:00:30.2	That's an activity
PERSON 2	
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0:00:33.0	Essentially it's a process
PERSON 3	
0:00:34.3	This is one process. I know, this should be a process, but we don't
PERSON 1	have the requirements-
0:00:40.2	We do
PERSON 3	
0:00:40.2	Of what is-
PERSON 1	
0:00:41.2	We do, we do, we do. It's on top here, look, for example, should be
PERSON 3	able to create a traffic density, that enters the map blablabla.
	Where is it. The simulator should be able to simulate traffic flows on
	a map, and essentially this is- if you compare the number desired,
	outcome number one, with the four requirements that are there, a
	lot of the stuff relates to each other. Like the restrictions. So that
	could be a thing that exists with the way that the-
0:01:11.8	Yeah yeah
PERSON 1	
0:01:13.7	With the-
PERSON 3	
0:01:17.3	We start with the context alright?
PERSON 2	
0:01:18.6	Do we need to record this as well?
PERSON 3	
0:01:19.9	I'm recording
PERSON 2	
0:01:21.0	You're recording?
PERSON 3	
0:01:21.9	Yeah
PERSON 2	
0:01:22.0	We need to record?
PERSON 3	
0:01:23.1	Ah yeah let's try to record as much as possible. But I have not seen
PERSON 1	anything about its relations to software systems so the context view
	should be quite basic, general.
0:01:41.1	Yes
PERSON 2	
0:01:44.3	Where is my paper, did you take it? Or do you need it?
	<u> </u>

PERSON 3 0:01:46.4 PERSON 2 0:01:47.0 PERSON 3 0:01:48.0 PERSON 1 0:01:51.5 PERSON 2 0:01:51.9 PERSON 1 0:02:01.4 [inaudible] PERSON 2 0:02:01.8 PERSON 1 0:02:01.8 PERSON 2 0:02:01.8 PERSON 1 0:02:01.8 PERSON 2 0:02:01.8 PERSON 1 0:02:30.6 PERSON 2 0:02:40.7 PERSON 3 0:03:45.0 PERSON 2 0:03:47.0 PERSON 3 0:03:47.0 PERSON 3 0:04:00.0 PERSON 2 0:04:00.0 PERSON 2 0:04:00.0 PERSON 2 0:04:00.0 PERSON 2 0:04:00.0 PERSON 3 0:04:00.0 PERSON 3 0:05:49.1 PERSON 3 What. It's lovely weather outside right PERSON 1 0:06:29.0 Mhm very nice weather		
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like, view model that will be- 0:04:00.0 PERSON 2 0:04:00.7 PERSON 3 0:05:49.1 PERSON 1 like, view model that will be- [inaudible] model yeah PERSON 3 What. It's lovely weather outside right PERSON 1	0:03:47.0	But that's the first start I would go from, normally. But-something
0:04:00.0 PERSON 2 0:04:00.7 PERSON 3 0:05:49.1 PERSON 1 [inaudible] model yeah PERSON 3 O:05:49.1 PERSON 1	PERSON 3	like this because- what are your opinions? You have information of,
PERSON 2 0:04:00.7 You have to right? Because this is [inaudible] PERSON 3 0:05:49.1 What. It's lovely weather outside right PERSON 1		like, view model that will be-
0:04:00.7 You have to right? Because this is [inaudible] PERSON 3 0:05:49.1 What. It's lovely weather outside right PERSON 1	0:04:00.0	[inaudible] model yeah
PERSON 3 0:05:49.1 What. It's lovely weather outside right PERSON 1	PERSON 2	
0:05:49.1 What. It's lovely weather outside right PERSON 1	0:04:00.7	You have to right? Because this is [inaudible]
PERSON 1	PERSON 3	
	0:05:49.1	What. It's lovely weather outside right
0:06:29.0 Mhm very nice weather	PERSON 1	
	0:06:29.0	Mhm very nice weather
PERSON 2	PERSON 2	
0:07:08.1 More anybody?	0:07:08.1	More anybody?
PERSON 1	PERSON 1	
0:07:09.0 Yes	0:07:09.0	Yes
PERSON 3	PERSON 3	
0:07:10.1 Ok	0:07:10.1	Ok

PERSON 2	
0:09:30.2	Thanks.
PERSON 1	
0:09:34.0	Alright, you started with the context one. Work on that together or
PERSON 3	you gonna work on that on your own?
0:09:40.5	We can start with the context view, I was trying to find out the
PERSON 1	functional view in number one but we can start the context view.
0:09:47.8	Just do that one.
PERSON 2	
0:09:48.9	You have a paper on which we can draw?
PERSON 1	
0:09:51.7	I have this one
PERSON 3	
0:09:52.9	Right
PERSON 2	
0:09:54.7	Well, we opened the one-
PERSON 1	
0:09:56.8	Right, so we start with-
PERSON 2	
0:10:00.9	Context
PERSON 1	
0:10:02.4	So-
PERSON 2	
0:10:04.1	So you would have the traffic simulator as one thing. I guess in the
PERSON 1	middle.
0:10:09.0	I'm just gonna start. So that would be the traffic simulator.
PERSON 3	
0:10:14.3	Yeah. Let me see
PERSON 2	
0:10:25.3	Also these on this- which was relevant here. Oh yeah, if you wish
PERSON 3	you may assume that you would be able to use an existing software
	package that provides relevant mathematical functionalities such as
	statistical distributions, random number generators, and queuing
	theory. So these could be part of the context diagram as in
0.40.54.5	providing additional functionality yeah. So-
0:10:54.5	Sure
PERSON 2	

0:10:54.9	I would go with queuing. I don't even know what it is but I'm
PERSON 3	guessing queuing theory is something relevant. No? I mean, for cars
	and shit. Yeah, for cars and things.
0:11:14.9	Yeah I agree
PERSON 2	
0:11:19.8	Yeah sure, I-
PERSON 1	
0:11:25.0	I don't know what statistical distributions, why would we need to-
PERSON 3	traffic simulations
0:11:32.9	Why would we need statistical distributions or queuing-
PERSON 2	
0:11:38.8	Mathematical functionality you would, speed and all
PERSON 1	
0:11:43.3	That's more physics but
PERSON 3	
0:11:44.3	Yeah but- traffic lights not- we don't have to do anything with the
PERSON 2	speed
0:11:50.0	No but you still have to create the road, the density of the cars, the
PERSON 3	number of cars, their speed, the left turns. So I think mathematical
	functions here are needed. Just in terms of the user perspective, for
	example, there enter three cars, one would be 90 kilometers per
	hour and the first one would be 5 kilometers per hour.
0:12:11.1	Let's then create one entity and we call it mathematical
PERSON 1	functionality
0:12:15.3	Yeah mathematical
PERSON 3	
0:12:17.0	Let's not go too much into detail.
PERSON 1	
0:12:18.2	Yeah yeah, that's all I wanted. Functionality. So we have traffic
PERSON 3	simulator, queuing theory, mathematical functionality. Alright, did
	you want to combine queuing theory with mathematical as well.
0:12:30.8	Yeah
PERSON 2	
0:12:32.9	Combine. Basically it's all, ok. Separate functionality. And there was
PERSON 3	another, as in high level, I think it fits into the environment that this
	is part of their curricula, I think. They're part of the- some course or
	something. Their teacher wants to provide

0:12:52.0	Civil engineering course
PERSON 2	
0:12:52.8	Yes. So the environment would be-
PERSON 3	
0:12:56.1	The software itself doesn't necessarily have a- what kind of relation
PERSON 1	does it have?
0:13:01.2	No, it's just- when you model the environment we then have to
PERSON 3	explain each of the components that we drew, so environment
	would be the engineering course, that's part of their studies
0:13:11.2	Yeah I know, would you going to-this software program, it's going to
PERSON 2	be created not for the civil engineer student
0:13:20.8	Yeah it is
PERSON 3	
0:13:21.8	Not for a student right?
PERSON 2	
0:13:23.3	Yeah
PERSON 3	
0:13:24.0	By a student
PERSON 2	
0:13:26.1	No for the students
PERSON 3	
0:13:27.0	Ah ok
PERSON 2	
0:13:27.6	Yeah
PERSON 1	
0:13:30.7	Because this is a particular challenging subject for the student
PERSON 3	
0:13:32.9	For practice
PERSON 1	
0:13:33.9	Yeah. It's just for their purpose, so I think environment is just, UCI
PERSON 3	course, whatever.
0:13:41.6	Yeah
PERSON 2	
0:13:42.0	So this would be- the environment would be Uni. Ok. So if we do
PERSON 3	the- I guess the traffic simulator
0:13:54.8	That would be in the middle yeah.
PERSON 1	

0:13:55.7	Traffic simulator and the context, is it FAM? Right?
PERSON 3	
0:14:05.5	It is functional architecture model
PERSON 2	
0:14:06.9	Yeah right, isn't it?
PERSON 1	
0:14:07.8	Sure
PERSON 2	
0:14:09.1	[inaudible] And it takes the mathematical functionality
PERSON 3	
0:14:14.4	From outside, yeah
PERSON 2	
0:14:17.8	Math function? This would be the environment, this would be the
PERSON 3	UCI civil-
0:14:28.6	HCU
PERSON 1	
0:14:30.3	What? UCI.
PERSON 3	
0:14:33.9	UCI yeah. UCI is fine I think. And a user I guess. Do you wanna draw
PERSON 2	a separate user. For them to-
0:14:46.2	Student
PERSON 1	
0:14:48.7	Cause there- so this would take- maybe for the sake I would, maybe,
PERSON 3	queuing theory, I would put that separate. But it's still math I guess,
0.15.03.3	so we can just lead to -
0:15:02.2	The usual-
PERSON 1	Laborraba abour bations hat was not be
0:15:03.1 PERSON 2	I thought the relations between the-
	Vesh that was my question. Do you show interaction between a
0:15:05.2 PERSON 3	Yeah, that was my question. Do you show interaction between a
PERSON 3	user and the system in the context, do you, already? Or do you just
0.15.15 7	show the high level overview
0:15:15.7	Yeah, you do show the relationship between the system and the
PERSON 1	user. Would you?
0:15:20.5	But how do you show it, just with arrow?
PERSON 3	Vaala
0:15:22.1	Yeah

PERSON 1	
0:15:25.1	Ok. Just draw, like, an arrow that says- what do they have to-
PERSON 2	they're gonna create a visual map of an area. So one arrow could be
	like creating or editing or
0:15:39.6	Then you're going more to use cases. And a model because traffic
PERSON 3	system isn't one functionality. I mean there's one package-
0:15:47.7	Well, then you can call it like, editing. Which is more general, what
PERSON 1	they do
0:15:51.3	Or interaction
PERSON 2	
0:15:52.4	Or interact. Well, the arrow already is
PERSON 1	, , , , , , , , , , , , , , , , , , , ,
0:15:55.4	Yeah I don't know, but maybe something more as in, well, using the
PERSON 3	system more. Modelling? Within the system?
0:16:04.0	Yeah, that's what they-
PERSON 2	
0:16:05.7	Simulating within the simulation system of [inaudible]
PERSON 3	
0:16:09.6	Simulating, I like simulating. You can just call it simulating.
PERSON 1	
0:16:11.2	The users do not simulate, the software is simulating
PERSON 2	
0:16:15.2	Right
PERSON 1	
0:16:16.3	It's a map. Ok. We remodel this. I guess this is our context, I don't
PERSON 3	know.
0:16:24.2	Does it have any other, well, it doesn't say
PERSON 1	
0:16:26.3	No
PERSON 2	
0:16:26.6	Does it say any other external-
PERSON 1	
0:16:28.8	This would be the context one
PERSON 3	
0:16:30.9	Relations
PERSON 2	
0:16:31.5	Well you gave up on the-

PERSON 3	
	1115.2
0:16:33.6	Huh?
PERSON 1	V 1 ft 1911 1
0:16:34.5	Yeah [inaudible]
PERSON 2	
0:16:35.5	What happened to you
PERSON 3	
0:16:36.8	So much for [inaudible]
PERSON 2	
0:16:39.3	Do we have any other?
PERSON 1	
0:16:41.3	Of context, I don't think so. It's basically just explaining, this
PERSON 3	shouldn't be too difficult. Yeah, some mathematical functions, this
	can be explained in an environment like this
0:16:53.1	Does the user do anything else besides simulating?
PERSON 1	
0:16:56.0	No nothing
PERSON 3	
0:16:58.2	No?
PERSON 1	
0:16:58.7	No. not really no.
PERSON 3	
0:17:02.5	It's the students
PERSON 2	
0:17:03.1	Yeah, one of the-
PERSON 1	
0:17:04.0	Do anything
PERSON 2	, 0
0:17:05.7	Ok, so that's the context one. So then the next one was information.
PERSON 3	No seriously, what were you doing when you stopped.
0:17:14.4	I was doing this. [inaudible]
PERSON 2	
0:17:24.1	[inaudible] and I was searching through here, for which activities I
PERSON 1	can use.
0:17:29.0	Ok. This was for what
PERSON 3	
0:17:32.0	The process of creating a map
0.17.32.0	The process of creating a map

PERSON 1	
0:17:37.1	Ok. Or something.
PERSON 2	
0:17:39.5	And in that process there are activities like create a visual map,
PERSON 1	create a road
0:17:45.0	Ok.
PERSON 2	
0:17:45.4	Yeah
PERSON 1	
0:17:45.7	Create a car
PERSON 2	
0:17:47.8	Ok
PERSON 1	
0:17:48.3	Really?
PERSON 2	
0:17:49.9	Yeah sure. I think it should be because you need to place cars and
PERSON 3	then you also, I'm guessing
0:17:58.0	Do you actually- I was under the assumption that they were only
PERSON 1	busy with roads and traffic lights, and not necessarily cars as
	entities.
0:18:07.7	Yes, because you need a model of how the cars will flow evenly
PERSON 3	through the intersections. So you need to time everything, but you
	still need the entity that will travel on the simulation to show that
	you've actually done something-
0:18:21.4	Right
PERSON 1	
0:18:21.4	In an about way
PERSON 3	
0:18:22.3	It doesn't specify if one of the systems does that for you
PERSON 1	automatically, or if you-
0:18:26.3	I think it does
PERSON 3	
0:18:27.4	Does it? I was under the assumption that there was only changing
PERSON 1	like, traffic
0:18:37.1	For example you may choose to depict individual cars, or to use a
PERSON 3	more abstract representation
0:18:42.0	Right

PERSON 1	
0:18:43.4	I think the easiest way to go would be creating the car. It should be
PERSON 3	possible to create a busy road or seldom used one. Or any variation
	in between. That means that you need to specify, for example, I
	want 50 cars on these two roads. So I think, yeah
0:19:01.8	I don't- you can go either way
PERSON 1	
0:19:04.6	Yeah I guess
PERSON 3	
0:19:05.8	It's ambiguous so you can assume-
PERSON 1	
0:19:07.0	Yeah
PERSON 3	
0:19:07.6	Either one
PERSON 1	
0:19:08.9	My pic would be, go with the car instead of guessing that the
PERSON 3	program would do that, or else
0:19:14.5	Yes
PERSON 1	
0:19:16.1	There is also, create light timing. [inaudible] so create visual map,
PERSON 3	create road, create car, create light timing. And you also have-
	maybe change create to set light timing.
0:19:47.5	Define lights, on track of light timing or something
PERSON 1	
0:19:50.7	Yeah
PERSON 2	
0:19:51.9	I like the timer set, yeah
PERSON 1	
0:19:54.7	And he goes with setup
PERSON 3	
0:19:56.6	Whatever
PERSON 2	
0:19:59.5	So create a car, maybe we can set a create car. Specify number of
PERSON 3	cars, that would be, I guess, better. Because you don't necessarily
	create a car but you would more specify.
0:20:15.8	Specify
PERSON 2	

	<u>, </u>
0:20:16.6	Entity number
PERSON 3	
0:20:18.6	[inaudible] track this
PERSON 2	
0:20:22.6	That sounds more [inaudible]. Also you need to see the
PERSON 3	visualization. So from the entire one you need-
0:20:31.8	But is this done to create a map?
PERSON 1	
0:20:34.5	Oh you mean-
PERSON 3	
0:20:35.2	This is only one process.
PERSON 1	
0:20:37.7	Oh, so now you're doing, creating the map only. Ok. So-
PERSON 3	
0:20:40.5	That's what you-
PERSON 2	
0:20:41.9	Ok. That's fine.
PERSON 3	
0:20:43.4	I wasn't really sure
PERSON 2	
0:20:48.2	You must design the interaction-
PERSON 3	
0:20:50.7	Oh the students
PERSON 1	
0:20:51.4	But we can't really [inaudible] because every [inaudible] we have to
PERSON 2	go into more detail.
0:20:59.4	Better to have more, but I don't know if-
PERSON 3	
0:21:02.1	What would be the second process? In this case. We have create
PERSON 1	map, traffic timing scheme, program, appearance, and traffic
	simulation. Yeah, maybe I can delete this one and this one-
0:21:16.5	What do we wanna do
PERSON 3	
0:21:17.3	And keep program and appearance
PERSON 1	
0:21:19.3	I would, yeah ok, program and appearance, but maybe I would just
PERSON 3	go with one-

0:21:23.0	Yeah
PERSON 1	
0:21:23.1	One high level, and then for the specific parts, for example, creating
PERSON 3	a visual map and setting the lighting timing-
0:21:31.6	We can go into a process
PERSON 2	
0:21:33.2	Yeah, but that would be more a petri net. It's as a logical
PERSON 3	representation of what can actually be done.
0:21:39.4	Ok
PERSON 1	
0:21:40.1	I don't know, what do you guys think.
PERSON 3	
0:21:45.6	I think, yeah, it's gonna be really difficult to specify an entire process
PERSON 1	of the other ones that you have, because there's not enough
	information. A lot of this is going to be under the assumption of-
0:21:55.9	Yeah true, but then again. I don't know. For example, if we think of
PERSON 3	for example, first you need to specify the road, or the map
0:22:08.1	Yeah
PERSON 1	
0:22:08.1	So you specify the map and then the second part would be, you
PERSON 3	specify the pipe of the road, basically
0:22:15.6	Yeah
PERSON 1	
0:22:16.0	Like the length and, yeah, and also if it's like the really populated- or
PERSON 3	if it's really abandoned one or something.
0:22:28.1	[inaudible] this, we need to [inaudible] interactions
PERSON 2	
0:22:32.3	[ook]
PERSON 1	
0:22:33.9	Apologies to the transcribers, pausing too much
PERSON 3	
0:22:41.0	So we're done with the context view yeah?
PERSON 1	
0:22:42.2	I think so yes. What I would suggest is that we help [Person 2] out
PERSON 3	and outline all the interactions that we can find from the text
0:22:52.1	One of these [inaudible]
PERSON 1	

0:22:53.3	Or I'll give this to [Person 2]. So we basically go, for example, the
PERSON 3	first model is creating the interaction. And we outline all the steps
	that are there, and then the second one and then he can model it
	quicklier and we can also just transfer it into documentation
0:23:10.0	Alright
PERSON 1	
0:23:12.9	Ok so-
PERSON 3	
0:23:14.0	So this one is finished. I don't- for now
PERSON 1	
0:23:16.5	Yeah, it's -
PERSON 2	
0:23:16.8	We can [inaudible] can you get me another paper so I don't ruin this
PERSON 3	for any-
0:23:22.9	Functional view
PERSON 1	
0:23:23.8	Ok so, are we going to functional or are we doing the-
PERSON 3	
0:23:27.9	Which one do you wanna do?
PERSON 1	
0:23:29.9	Maybe it would be good if we covered this one first? Because this
PERSON 3	essentially is the functional view, but if, for example, right now
	[Person 2] has five different entities, and if we go into each of those
	and outline all this, the entire subprocess-
0:23:44.4	What is the fifth entity?
PERSON 2	
0:23:46.8	You only have four? I don't know if there's a fifth one. So yeah,
PERSON 3	basically, going into creating a map, the process of picking- you can
	pick one or the second. You shouldn't, yeah
0:23:56.9	For sure
PERSON 1	
0:23:57.3	Alright so-
PERSON 3	
0:23:58.4	Only the visualization of the map isn't in there, in this process.
PERSON 2	Should it be added, or in a different process?
0:24:08.8	I would go- I would put it in that one and-
PERSON 3	

0:24:11.1	Creating an actual map-
PERSON 1	
0:24:12.2	Yeah
PERSON 3	
0:24:12.7	Should be there right?
PERSON 1	
0:24:13.7	I would put it as the last one, as create a visualization of whatever
PERSON 3	you've modelled. But ok, so, students must be able to create a
	visual map, so ok.
0:24:25.9	That's a first activity
PERSON 2	
0:24:27.9	Yeah so create-
PERSON 3	
0:24:28.8	Create visual map, create road, specify a few numbers, set up light
PERSON 1	timing and?
0:24:36.0	And, well interaction. Visualization sorry. Or interaction, I don't
PERSON 3	know. So create a visual map would have laying out roads and a
	pattern of their choosing. So this would be first, would be choose a
	pattern.
0:24:55.4	How do you mean, choose a pattern
PERSON 1	
0:24:57.5	Students must be able to create a visual map of an area, laying out
PERSON 3	roads in a pattern of their choosing
0:25:03.4	Right
PERSON 1	
0:25:05.2	So, select an area pattern
PERSON 3	
0:25:07.5	Yeah I'm not sure if they mean that. I don't know what they mean
PERSON 1	by pattern in this case. I thought you could just pick roads, varying
	sizes and like, broads of roads.
0:25:21.4	Yeah probably
PERSON 3	
0:25:22.0	Automatically creating a pattern. You don't just pick a pattern
PERSON 1	
0:25:26.0	No yeah exactly, but you would have them provide, it's a pattern,
PERSON 3	it's a different type of road but essentially you would select- how
	would you call them, selecting a-

0:25:36.3	Yeah, selecting a- I don't know
PERSON 1	
0:25:38.0	Pattern preference maybe? As in, maybe we can explain this in the
PERSON 3	documentation
0:25:43.9	What kind of patterns though. Would you be able to select
PERSON 1	
0:25:47.4	Maybe, I don't know it's-
PERSON 3	
0:25:48.5	[inaudible] a road pattern
PERSON 1	
0:25:50.5	Maybe it's one-sided road for example-
PERSON 3	
0:25:52.6	Right
PERSON 1	
0:25:52.9	Well not one-sided, but it could be double like, on the highway,
PERSON 3	coming into the intersection. And two coming out and maybe you
	could have one-
0:26:00.4	Right
PERSON 1	
0:26:00.6	So that type of thing, but I think that's too
PERSON 3	
0:26:02.8	Right that makes sense, I just [inaudible] in a road. Context, but
PERSON 1	sure.
0:26:08.7	Ok, so select a road pattern, then we agree on that one. Yeah? So
PERSON 3	that would be the first one. So after you select the pattern-
0:26:18.2	You select the length
PERSON 2	
0:26:21.8	The resulting map need not to be complex but should allow for
PERSON 3	roads to vary in length, to be placed in different arrangements of
	intersections to be created. So maybe select a road pattern has two,
	or three sub options. One would be, selecting the type of
	intersection you want to have although they give kind of a
	restriction that they cannot be T
0:26:41.2	Yeah
PERSON 1	
0:26:41.8	But it still says that you can select, and also I think it's placing the
PERSON 3	intersection where you want it. As in, on the map, so-

0:26:48.8 PERSON 2 0:26:50.5 I would go with selecting the intersection PERSON 3 0:26:55.5 Select type of intersection yeah 0:26:57.5 PERSON 1 0:26:57.5 Yeah ok. PERSON 3 0:27:00.2 That's more activity and [inaudible]couple of other types of intersection. 0:27:08.5 PERSON 3 0:27:08.5 Yeah yeah PERSON 3 0:27:18 We don't know, but it doesn't matter because we're just modelling the process. So that could be in petri nets, just one or the other. Going backwards and forwards. Intersection selection, ok. Road length, specify road length 0:27:30.7 PERSON 1 0:27:33.7 Road PERSON 3 0:27:35.2 Only length? PERSON 3 0:27:36.8 I'm just-length to be placed in different arrangements of intersections to be created. So intersection selection arrangements. 0:27:46.2 PERSON 1 0:27:50.4 Specify road characteristics maybe? Or as measurements? PERSON 3 0:27:58.0 True. Characteristics PERSON 3 0:27:58.0 True. Characteristics PERSON 3 0:27:59.4 Yeah PERSON 1 0:28:01.7 Ok. so that would be that. Your approach should readily		
0:26:50.5 PERSON 3 0:26:55.5 PERSON 1 0:26:57.5 PERSON 3 0:27:00.2 PERSON 2 0:27:08.5 PERSON 3 0:27:09.8 PERSON 3 0:27:11.8 PERSON 3 0:27:30.7 PERSON 3 0:27:35.2 PERSON 3 0:27:36.8 PERSON 3 0:27:36.8 PERSON 3 0:27:36.8 PERSON 3 0:27:50.4 PERSON 1 0:27:50.4 PERSON 3 0:27:50.4 PERSON 3 0:27:59.4 PERSON 1	0:26:48.8	Yes
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PERSON 3 intersections to be created. So intersection selection arrangements. O:27:46.2 Yeah if you call it, specify road measurement. PERSON 1 O:27:50.4 Specify road characteristics maybe? Or as measurements? PERSON 3 O:27:54.1 Yeah that's better, then you're also done with [inaudible] PERSON 1 O:27:58.0 True. Characteristics PERSON 3 O:27:59.4 Yeah PERSON 1	PERSON 2	
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0:27:50.4 PERSON 3 0:27:54.1 PERSON 1 0:27:58.0 PERSON 3 0:27:59.4 PERSON 1	0:27:46.2	Yeah if you call it, specify road measurement.
PERSON 3 0:27:54.1 Yeah that's better, then you're also done with [inaudible] PERSON 1 0:27:58.0 True. Characteristics PERSON 3 0:27:59.4 Yeah PERSON 1	PERSON 1	
0:27:54.1 Yeah that's better, then you're also done with [inaudible] 0:27:58.0 True. Characteristics PERSON 3 0:27:59.4 Yeah PERSON 1	0:27:50.4	Specify road characteristics maybe? Or as measurements?
PERSON 1 0:27:58.0 True. Characteristics PERSON 3 0:27:59.4 Yeah PERSON 1	PERSON 3	
0:27:58.0 True. Characteristics PERSON 3 0:27:59.4 Yeah PERSON 1	0:27:54.1	Yeah that's better, then you're also done with [inaudible]
PERSON 3 Yeah 0:27:59.4 PERSON 1 Yeah	PERSON 1	
0:27:59.4 Yeah PERSON 1	0:27:58.0	True. Characteristics
PERSON 1	PERSON 3	
	0:27:59.4	Yeah
0:28:01.7 Ok. so that would be that. Your approach should readily	PERSON 1	
ony so that hours be that four approach should redaily	0:28:01.7	Ok, so that would be that. Your approach should readily

PERSON 3	accommodate at least six intersections, if not more
0:28:09.7	I don't know how we're supposed to model that
PERSON 1	
0:28:12.0	So you specify the road characteristics, but this would be a
PERSON 3	restriction. How do we model restrictions in FAM? How was it
	modelled again. Was it with QA notation, that was explained last
	week wasn't it. You remember. It was just a notation, it was like a
	note where he had some sort of constraints. QA constraints? You
	remember, you were there
0:28:37.8	Yeah [inaudible]
PERSON 1	
0:28:41.3	Can you check, which lecture
PERSON 3	
0:28:44.0	I'm trying.
PERSON 1	
0:28:45.6	Ok. Students must be able to describe the behavior of the traffic
PERSON 3	light at each of the intersection
0:28:54.4	Right
PERSON 1	
0:28:55.0	Ok so, that means that for each of the intersections you can have a
PERSON 3	minimum of six, and up to infinite, for each of them you need to
	specify the traffic light. So that would be a sub process of
	intersection arrangement. That is not a separate step but it's- once you select
0:29:18.4	Is it? Can't it be a different step altogether
PERSON 1	
0:29:22.1	Ok maybe, yeah
PERSON 3	
0:29:23.3	Compares the-
PERSON 2	
0:29:27.1	Ok, so this would be the traffic light behavior
PERSON 3	
0:29:36.0	Yeah, because you're setting up these traffic light after you select
PERSON 1	the intersection
0:29:43.4	True but in essence you could have them select six intersections, as
PERSON 3	it would give you the option to model them. But it might be better
	to do it afterwards

0:29:52.6	Yeah
0.29.52.6 PERSON 1	reali
0:29:53.5	Ok so you would go
0.29.55.5 PERSON 3	Ok so you would go-
0:29:54.6	The traffic light would automatically be there as an intersection, but
0.29.54.6 PERSON 1	The traffic light would automatically be there as an intersection, but the behavior-
0:29:58.5	Yeah
PERSON 3	Values asifulates
0:29:58.5	You specify later
PERSON 1	
0:29:59.5	Ok so traffic light behavior you would specify it- it is up to you to
PERSON 3	determine what the exact interaction will be, but a variety of
	sequences and timing schemes should be allowed. So, you would
	have- we would have traffic light behavior gives you, I guess two
0.20.22.6	options then.
0:30:23.6	Sequences and timing schemes
PERSON 1	
0:30:25.0	Sequences and timing schemes. So you can either go for, yeah,
PERSON 3	sequences-
0:30:30.9	Or timing schemes
PERSON 1	
0:30:32.1	Or a predefined timing scheme. Ok? Your approach should also be
PERSON 3	able to accommodate left hand turns, protected by left hand-
0:30:48.4	Green arrow lights
PERSON 1	
0:30:52.7	I don't understand this one. Should be able to accommodate left
PERSON 3	hand turns, protected by left hand green arrow lights.
0:31:04.2	Isn't something-
PERSON 2	
0:31:04.5	Nah, the lights turn?
PERSON 3	
0:31:06.1	Right, they mean for a set of traffic lights to have, like the, the first
PERSON 1	two to be straights. And then the other one you can take a right as
	well. That makes sense
0:31:23.7	Oh -
PERSON 3	
0:31:24.4	So separate traffic lights

PERSON 1	
0:31:26.3	But that's in sequences already defined right?
PERSON 3	
0:31:29.6	I would say so, but they specify here as [inaudible] requirements so
PERSON 1	
0:31:33.3	But it also says that we don't have to take everything into
PERSON 3	consideration. Ok, I think we
0:31:41.4	We assume this one is defined in the traffic lights-
PERSON 1	
0:31:43.9	Yeah, I think so
PERSON 3	
0:31:44.8	Sequence
PERSON 1	
0:31:45.3	Yeah we assume this. Combinations of individual signals that would
PERSON 3	result in crashes should not be allowed. I think we should assume
	that this is done in sequences and timing schemes. Because-
0:31:59.6	Yes. Then we have to model that somehow
PERSON 1	
0:32:01.6	No we don't. we don't model the schemes do we. How, sorry, how
PERSON 3	are you gonna model
0:32:06.7	I don't know
PERSON 1	
0:32:07.2	The entire intersection, we cannot do that. I think it's out of our
PERSON 3	scope
0:32:12.5	Right
PERSON 1	
0:32:13.2	So I think number 8
PERSON 3	
0:32:16.1	Why would they specify it so
PERSON 1	
0:32:19.1	A lot of things is specified, but it's kind of-
PERSON 3	
0:32:21.7	Yeah, you want to just put this under traffic lights sequences and
PERSON 1	timing
0:32:25.4	Yeah. Maybe- can you take a note of these things that we kind of
PERSON 3	put down. For example, so that we can write the documentation. So
	that we can go back to the requirements and just say, under

	sequences we also have this constraint that it should not allow for crashes etc.
0:32:44.9	I'm gonna type it
PERSON 1	· · · · · · · · · · · · · · · · · · ·
0:32:45.6	Or you can type it, yeah, as well [inaudible] either way
PERSON 3	or you can type it, yearly as well [madalole] either way
0:32:51.8	[inaudible]
PERSON 1	[maaana.e]
0:32:53.6	And also these like, every intersection of the map must have traffic
PERSON 3	lights, there are not any stop signs, overpasses, or other variations.
	All intersection will four way, there are no T intersections and nor
	one way road. This is also when you select intersection
	arrangement. This is also constraint on that part
0:33:15.9	If that's the requirement. If you select an intersection
PERSON 1	
0:33:19.0	Yeah
PERSON 3	
0:33:20.0	You can choose if you have traffic lights or not
PERSON 1	
0:33:23.3	No
PERSON 3	
0:33:23.8	So
PERSON 1	
0:33:24.9	That's just a restriction on the system, but it's not- from the users
PERSON 3	perspective it doesn't matter. For the process because-
0:33:30.3	So they need same activity timing. When you select an intersection
PERSON 2	the selection of traffic lights has also been premade. But it's not a
	different activity
0:33:45.5	It's not. No, you don't, no. There's two things, selecting the traffic
PERSON 3	lights for the intersection, you don't select them because they are
	already there-
0:33:55.9	Yeah
PERSON 2	
0:33:56.5	So if we imagine the intersection being a four way, and also with the
PERSON 3	lights. You just place it on the map, but you still have to click on
	those lights to configure them. So that is still a process. Because you
	can choose from different sequences

0:34:11.2	Yeah true
PERSON 1	reali true
0:34:13.8	Ok, which one are you doing right now?
PERSON 3	, , ,
0:34:16.3	I'm typing the combination of individual signals and accommodating
PERSON 1	left hand turns by left hand green arrow lights. They are not
	modelled separately, they fall under the specification of timing
	schemes and sequences.
0:34:25.5	Ok
PERSON 3	
0:34:26.7	Through the traffic lights behaviors
PERSON 1	
0:34:32.5	Ok
PERSON 3	
0:34:34.1	Alright, next one
PERSON 1	
0:34:34.6	Can I just ask you. Can you just, on top, just do create a visual map.
PERSON 3	On top, just as a title, create a visual map. And do two, this would
	be two, no no, this would be the two. And the first one, ok, and
	there is another one we need to do. That is for- number one, 1A. 1A
	is intersection selection and arrangement. And it says here basically,
	restriction, just write, restriction 2B.
0:35:20.9	Yeah
PERSON 1	
0:35:23.8	Students must be able to design each intersection with or without
PERSON 3	the option to have sensors that detect whether any cars are present
	in a given lane. Ok, so this would be when you-
0:35:36.8	That's mandatory or must-
PERSON 1	
0:35:39.3	They must be able, so meaning when they select intersection they
PERSON 3	should be able to say, intersection one has the sensors, intersection
	two hasn't, third one doesn't have them
0:35:49.4	But are those sensors mandatory
PERSON 1	
0:35:50.7	Yes. No they're manda-
PERSON 3	
0:35:51.9	Does the- is the option to use mandatory

PERSON 1	
0:35:54.4	The option is mandatory. Also, that basically gives you another
PERSON 3	restriction, choosing- on the same one basically- that would be -
0:36:09.5	We mentioned that one was A. 1A
PERSON 1	
0:36:11.8	Yeah
PERSON 3	
0:36:13.1	What is B
PERSON 1	
0:36:16.9	Oh no, so it's again would be A, because it's the same bullet point
PERSON 3	essentially.
0:36:23.9	I mean-
PERSON 1	
0:36:24.5	Intersections like an arrangement, this one also needs to have-
PERSON 3	maybe you can just do restriction 2B, and just restriction-
0:36:32.4	And 2C
PERSON 1	
0:36:33.3	2C. 2B and 2C
PERSON 3	
0:36:35.1	How about this one. Your approach should readily accommodate at
PERSON 1	least six intersections if not more
0:36:42.6	Where is that
PERSON 3	
0:36:42.9	That's one, and then on the end
PERSON 1	
0:36:47.0	Should readily accommodate at least six intersection-
PERSON 3	
0:36:49.5	You have to-
PERSON 1	
0:36:50.2	If not more
PERSON 3	
0:36:50.9	You have to address the requirements
PERSON 1	
0:36:52.7	Yeah. I'll go with restriction again, when you select them it should
PERSON 3	be at least, for example, restriction 2 plus 2C, you can just do
	restriction minimum of six of, yeah, intersections, or more
0:37:16.5	Alright yes

PERSON 1	
0:37:20.6	Have you managed to find those QA's? How we can write them.
PERSON 3	Because I know he did, it was quite simple. I think it was just a- once
	you have the model you can just type, write on top of the model.
	Ok. Based on the map created and the intersection timing schemes
	a student must be able to simulate traffic flow on the map. Ok so
	that was creating a map
0:37:54.8	QA quality attributes right?
PERSON 1	
0:37:56.5	This would be another, this would be a separate one I guess. Traffic
PERSON 3	light behavior would be the second activity, the second process.
	Effectively
0:38:09.3	What are you talking about?
PERSON 1	
0:38:10.7	Because of the model that [Person 2] drew, as for example, first you
PERSON 3	create a visual map, then you find the traffic behavior, but this
	traffic behavior would be a separate process, wouldn't it?
	Essentially. Or is this part of creating a visual map
0:38:25.0	You mean QP isn't it? Not QA
PERSON 1	
0:38:26.8	I don't know, QP
PERSON 3	
0:38:28.4	QP are different things.
PERSON 1	
0:38:31.9	No, whatever quality annotations or something
PERSON 3	
0:38:35.9	No. oh this thing
PERSON 1	
0:38:41.4	Oh that's quality properties
PERSON 3	
0:38:43.4	Those are-
PERSON 1	
0:38:43.9	Oh fuck. I don't know. Sorry transcribers, for all these
PERSON 3	
0:38:52.3	Aren't we supposed to transcribe our own stuff?
PERSON 1	
0:38:54.5	No, [professor] and the rest of the-

PERSON 3	
0:39:01.0	Right so, based on the map created and the intersections timing
PERSON 1	schemes, students must be able to simulate traffic flows on the
	map. Yeah
0:39:08.8	The-
PERSON 3	
0:39:09.7	It's not a different requirement
PERSON 1	
0:39:11.6	This would be simulate the traffic flow. Yeah? That's like the last
PERSON 3	that we have? Simulating traffic flow? The traffic levels should be
	conveyed visually to the user in a real-time manner as they emerge
	in the simulation. So, traffic flow would be, simulate traffic flow
	action would consist of, start the simulation yeah
0:39:47.8	Sure. Sure yeah
PERSON 1	
0:39:51.0	And, it would display it. Start the simulation and then it would
PERSON 3	display it in real-time
0:39:57.8	Yes
PERSON 1	
0:39:59.7	Display it in a window? In a-
PERSON 3	
0:40:05.4	Some sort of UI yeah
PERSON 1	
0:40:07.4	GUI. User interface. Window or frame. Frame for the user. And once
PERSON 3	it displays, this is maybe additional requirement, pause, stop and
	play options. As in a player functionality
0:40:29.1	Sure
PERSON 2	
0:40:31.7	Let's say media player functionality. And maybe this is really extra,
PERSON 3	exporting option probably would be usable for software, but we
	can- this is quite simple to model that's why I'm just kind of thinking
	what else we could. Because they do ask-
0:40:52.3	But why do you want to put in a media player function if you
PERSON 2	already have a possible media player on your-
0:41:01.8	That's for the simulation
PERSON 3	
0:41:02.4	Yeah I know but, why do you
	

PERSON 2 0.41:04.9 PERSON 3 0.41:05.1 PERSON 2 0.41:08.3 PERSON 3 0.41:11.2 PERSON 2 0.41:18.4 PERSON 3 0.41:18.8 PERSON 3 0.41:22.0 PERSON 3 0.41:23.7 PERSON 2 0.41:32.9 PERSON 3 0.41:33.7 PERSON 3 0.41:53.7 PERSON 2 0.41:53.7 PERSON 3 PERSON 3 0.41:53.7 PERSON 3 PERSON		
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PERSON 2 0:41:08.3 PERSON 3 0:41:11.2 PERSON 2 0:41:18.4 PERSON 3 0:41:18.8 PERSON 2 0:41:22.0 PERSON 3 0:41:24.1 PERSON 3 0:41:24.1 PERSON 3 0:41:32.9 PERSON 3 0:41:53.7 PERSON 2 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 0:42:17.0 PERSON 3 0:42:17.0 PERSON 3 0:42:17.0 PERSON 3 Gives two more options, which is media player functionality and exporting function.		
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PERSON 3 0:41:11.2 PERSON 2 0:41:18.4 PERSON 3 0:41:18.8 PERSON 2 0:41:22.0 PERSON 3 0:41:24.1 PERSON 3 0:41:24.1 PERSON 3 0:41:32.9 PERSON 3 0:41:53.7 PERSON 2 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 0:41:53.7 PERSON	PERSON 2	
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PERSON 2 0:41:18.4 PERSON 3 0:41:18.8 PERSON 2 0:41:22.0 PERSON 3 0:41:24.1 PERSON 2 0:41:32.9 PERSON 3 1 get what you mean, but, I agree with you, but, from my point of view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:07.0 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 3	
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PERSON 3 0:41:18.8 PERSON 2 0:41:22.0 PERSON 3 0:41:24.1 PERSON 2 0:41:32.9 PERSON 3 1 get what you mean, but, I agree with you, but, from my point of view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:08.3 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 2	
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PERSON 3 0:41:24.1 PERSON 2 0:41:32.9 PERSON 3 1 get what you mean, but, I agree with you, but, from my point of view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:07.0 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 Gives two more options, which is media player functionality and exporting function.	PERSON 2	
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PERSON 2 0:41:32.9 PERSON 3 I get what you mean, but, I agree with you, but, from my point of view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:08.3 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 3	
O:41:32.9 PERSON 3 I get what you mean, but, I agree with you, but, from my point of view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system O:41:53.7 PERSON 2 O:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- O:42:07.0 PERSON 2 O:42:08.3 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- O:42:17.0 PERSON 2 O:42:17.8 Gives two more options, which is media player functionality and exporting function.	0:41:24.1	You say, media player available on your computer to do this.
PERSON 3 view that's not really viable in terms of the software that they're trying to build because if you want somebody to learn-see all the interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 Oh PERSON 2 0:41:53.7 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 Right PERSON 2 0:42:08.3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 2	
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interactions, they will want to play it instantly. They will try to model things and then play, I want to see it. That's one thing and as the second thing is, that's a requirement of the system 0:41:53.7 PERSON 2 0:41:53.7 PERSON 3 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:08.3 PERSON 3 So I would be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 3	view that's not really viable in terms of the software that they're
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the second thing is, that's a requirement of the system 0:41:53.7 Oh PERSON 2 0:41:53.7 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 Right PERSON 2 0:42:08.3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.		interactions, they will want to play it instantly. They will try to
0:41:53.7 PERSON 2 0:41:53.7 It has to be presented in real-time to the user. To simulate traffic flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 PERSON 2 0:42:08.3 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. PERSON 3 So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.		model things and then play, I want to see it. That's one thing and as
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PERSON 3 flow on the map, so we need some sort of player. The export option I think would come in handy in real world because- 0:42:07.0 Right PERSON 2 0:42:08.3 Yeah it could be an assignment or exercise you wanna do, so yeah. PERSON 3 So I would go with this one because we can specify it literally- 0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 2	
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0:42:07.0 PERSON 2 0:42:08.3 PERSON 3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 PERSON 2 0:42:17.8 PERSON 3 Gives two more options, which is media player functionality and exporting function.	PERSON 3	flow on the map, so we need some sort of player. The export option
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0:42:08.3 Yeah it could be an assignment or exercise you wanna do, so yeah. So I would go with this one because we can specify it literally- 0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	0:42:07.0	Right
PERSON 3 So I would go with this one because we can specify it literally- 0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 2	
0:42:17.0 Right PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	0:42:08.3	Yeah it could be an assignment or exercise you wanna do, so yeah.
PERSON 2 0:42:17.8 Gives two more options, which is media player functionality and exporting function.	PERSON 3	So I would go with this one because we can specify it literally-
0:42:17.8 Gives two more options, which is media player functionality and exporting function.	0:42:17.0	Right
PERSON 3 exporting function.	PERSON 2	
5	0:42:17.8	Gives two more options, which is media player functionality and
0:42:23.8 Sure.	PERSON 3	exporting function.
	0:42:23.8	Sure.

PERSON 2	
0:42:28.7	Ok. So once you simulate this. The current state of the intersection
PERSON 3	traffic lights should also be depicted visually and updated when they
	change, it's up to you how to represent this information to the
	student using your program. For example, you may choose to depict
	individual cars or to use a more abstract representation.
0:42:53.5	I like individual cars
PERSON 1	
0:42:55.0	But what-
PERSON 3	
0:42:55.4	Just visualize all the cars
PERSON 1	
0:42:58.1	Yes, I agree but-
PERSON 3	
0:43:00.0	It's easiest
PERSON 1	
0:43:01.4	The current state of the intersection traffic lights should also be
PERSON 3	depicted visually and updated when they change
0:43:06.4	Yeah
PERSON 2	
0:43:07.3	That's- ok but that's part of the simulation itself, that's- I mean. So
PERSON 3	traffic light behaviour, sequences, timing schemes, maybe here we
	would have update the colours on the-
0:43:19.5	Just use colours in, yeah
PERSON 2	
0:43:21.5	Yeah just update colours on lights.
PERSON 3	
0:43:30.6	Yeah
PERSON 1	
0:43:31.6	So that would be after choosing the sequence or timing scheme.
PERSON 3	Yeah. Display on a GUI for the user, exporting function, and we-
	update colours on light, exporting function
0:43:48.4	Yeah
PERSON 1	
0:43:49.1	And we pick the individual cars representation.
PERSON 3	
0:43:52.7	I like it

DEDCC	I
PERSON 2	
0:43:56.9	Represent [inaudible] cars
PERSON 3	
0:44:02.8	But why?
PERSON 1	
0:44:04.3	I have no idea.
PERSON 2	
0:44:05.2	Cause it gives you more accurate information?
PERSON 1	
0:44:08.0	I think so, yeah. Well I don't know, what would be the higher
PERSON 3	abstraction of the-
0:44:13.3	I don't know
PERSON 1	
0:44:13.8	[inaudible] as an option?
PERSON 3	
0:44:16.9	I can't think of anything that's better than individual cars in
PERSON 1	software packages like this.
0:44:22.4	Ok number four then. Students should be able to change the traffic
PERSON 3	density that enter the map on a given road. That would be before
	the simulation in my opinion. Because you would model the road,
	you would specify about three hundred cars, and then before-
0:44:42.8	Right
PERSON 1	
0:44:44.2	You would press start you could specify, yeah ok, the average speed
PERSON 3	of the cars is thirty point whatever, the density of cars coming into
	each of the intersections is 1.5 per second. And, I don't know, some
	other parameters that might be- maybe even the sequence of the
	lights, that might-
0:45:02.9	Doesn't this just fall under this step, selecting a road pattern? Just
PERSON 1	an extra step where you can also choose the density of the traffic on
	a given road. Because they mention here, it should be possible to
	create a busy road or a seldom used one and any variation. Just
	create an extra step
0:45:17.6	That would be specify density
PERSON 3	
0:45:19.8	Traffic density yeah
PERSON 1	

O:45:21.3 Specify traffic density PERSON 3 O:45:27.6 Yeah PERSON 1 O:45:27.6 And maybe two options, as in enter map and enter intersection. If that makes sense, but we don't have to take that into account, it doesn't matter O:45:40.8 PERSON 2 Ok. For example, it should be possible to create a busy road, seldom used one, or any variation in between. Ok so that's covered. How exactly- O:45:52.5 Any variation in between, so we have to give more options then exactly- O:45:55.8 Yeah PERSON 2 O:45:56.5 But it also says, how exactly this is declared by the user and depicted by the system is up to you, so we've kind of covered this O:46:04.2 PERSON 3 Have we? PERSON 1 O:46:04.5 Yeah PERSON 3 Because they want any variation in between and now you've just mentioned two options, haven't you? O:46:04.5 PERSON 3 No no no. they should be able to change the traffic density that enters the map on a given road O:46:16.1 Yeah PERSON 1 O:46:16.6 For example, it should be possible, between a busy road or a seldom used one, or any variation in between. That means that it should be either going from empty to completely busy, so that's just the density and the number of cars. O:46:28.0 Specify the road characteristics?	0.45.04.0	
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0:46:33.0 Specify the road characteristics?	0:46:28.0	
	PERSON 1	
	0:46:33.0	Specify the road characteristics?
PERSON 3	PERSON 3	
0:46:35.4 Just like a number?	0:46:35.4	Just like a number?

PERSON 1	
0:46:36.8	Mhm
PERSON 3	
0:46:37.2	Like an integer?
PERSON 1	
0:46:39.5	I guess that's the easiest. How else would you specify, I don't know,
PERSON 3	how would you specify if this was a simulation. I think you would
	start, how many cars will enter this road. And you would say 30 and
	you would see how much that is and you would go back and you
	would specify, I don't know, 50, because it wasn't enough.
0:46:58.6	So we just give them- just gonna enter an integer, the amount of-
PERSON 1	
0:47:03.9	Yeah I would go for a number of cars, the density of the cars and
PERSON 3	average speed maybe. Something- but that can also be done with
	the help of those mathematical functions as in, I don't know,
	average speed on the highway, average speed in a- what do you call
	it- suburban area or whatever. But I think that's just input that we
	could give when they create a map or before the start of the
	simulation.
0:47:31.1	Probably simulation
PERSON 2	
0:47:31.9	I would go with simulation in my case, because it's easier. Cause
PERSON 3	otherwise you have to go back and define the map and-
0:47:38.7	Yeah, so I -
PERSON 1	
0:47:39.0	Ok. So you start a simulation, you would- ok, before you display it
PERSON 3	you would have these two. So specify the road characteristics, no,
	maybe just this one. So you specify the traffic characteristics
	basically, that would- so traffic characteristics. And that would be
0.40.20.4	the density, speed, and what else did we say. Number of cars
0:48:20.4	Density, speed and number of cars. But isn't density-
PERSON 1	Voob eyestly
0:48:23.3	Yeah exactly
PERSON 3 0:48:23.8	Number of cars, it's the same
0:48:23.8 PERSON 1	Number of cars, it's the same
	What if we specify the number of sars per intersection movies.
0:48:27.5	What if we specify the number of cars per intersection maybe. I

PERSON 3	mean as in percentages. For example if you have three hundred cars, and you have ten intersections, if three hundred cars will go from one end, imagine this is a straight road
0:48:43.9	Yeah
PERSON 1	
0:48:44.2	And they will go through three hundred and if you have the option
PERSON 3	to specify, I don't know, distribute them equally onto six
	intersections. You would have a better visualization maybe? I don't
	know, I'm just talking shit.
0:48:56.6	I don't know either. I don't know, we've got to visualize
PERSON 1	
0:49:02.3	Alright, just, can be-
PERSON 3	
0:49:03.5	It's really specific, details
PERSON 1	
0:49:05.3	So, density, speed and, is there anything else.
PERSON 3	
0:49:09.7	No, speed, density
PERSON 1	
0:49:20.1	Maybe type of cars
PERSON 3	
0:49:21.5	Yeah
PERSON 1	
0:49:22.0	Type of cars, because you could have trucks, you could have
PERSON 3	personal cars. That would be good because-
0:49:27.5	Type of traffic
PERSON 1	
0:49:28.7	Yeah
PERSON 3	
0:49:29.1	Yeah [inaudible]
PERSON 1	
0:49:30.0	So you basically include, like a random number of – if you have
PERSON 3	equal- then we could them- the reasoning of the mathematical
	inclusion. For example-
0:49:41.5	Does it calculate the size of cars or maybe
PERSON 1	
0:49:45.1	No more, for example, you say, oh I want three hundred cars and
·	

PERSON 3	then it gives you a list. I want trucks, I want personal cars and I want bikes
0:49:52.1	Right
PERSON 1	
0:49:52.1	Distribute them equally, so I would have hundred cars, hundred
PERSON 3	trucks and hundred more bike- motorcycles. I think-
0:50:01.4	Do you want to specify weight in a different truck
PERSON 2	
0:50:10.0	Maybe you would
PERSON 3	
0:50:11.3	If you have that truck over there, or that truck over there
PERSON 2	
0:50:15.0	Yeah but-
PERSON 3	
0:50:16.0	But still different
PERSON 2	
0:50:16.7	Yeah it is, but maybe that could be also taken care of by a list of
PERSON 3	providing all the different types of- like trucks
0:50:24.0	Yeah, I think it's best to specify on, not specify on a motorcycle or
PERSON 1	car or truck, but on rate.
0:50:33.7	On what?
PERSON 3	
0:50:33.7	On size
PERSON 1	
0:50:35.2	But then you have- you need to know the length and-
PERSON 3	
0:50:37.1	I know
PERSON 1	
0:50:37.7	[inaudible] and you need the seize for traffic digestion yeah
PERSON 2	
0:50:39.9	It is, it definitely is but do you expect the students to know what's
PERSON 3	the length of a truck or what is the weight of the truck
0:50:48.5	Well we can enter that into the system. The system knows, like an
PERSON 1	average length of a car or truck
0:50:54.1	Exactly, but that would mean that in the end when you present it to
PERSON 3	the user he would still have just the list. He would not have what is
	in the back, saying that if he selects a truck the system will know

	that the twicely counies to be to be
	that the truck carries ten tons.
0:51:05.4	Yeah
PERSON 1	
0:51:05.6	So the user doesn't need to know about that
PERSON 3	
0:51:06.6	If- maybe it's easy to
PERSON 1	
0:51:09.3	[inaudible]
PERSON 2	
0:51:12.7	Specify what kind of traffic type, [inaudible] or a car and a different
PERSON 1	process of specify a traffic entity. How big is your car, or how heavy
	is your car, that's-
0:51:31.0	Well yeah
PERSON 3	
0:51:31.9	Let's make- that process is easier to include then another process of
PERSON 1	defining what is a car and how big is the car and how big is the
	truck.
0:51:40.4	Yeah but that
PERSON 3	
0:51:40.4	That's not really a big [inaudible]
PERSON 1	
0:51:42.1	No it's not, but it's not on the side of the system. That won't be the
PERSON 3	logic behind it because, logically speaking, if you have to select
	something you're not gonna care about how much that selection
	actually weighs or something, you just need the selection. So if the
	students are presented with ten options of all the possible cars
0:52:03.9	No, because if you have a traffic light and the timing on the traffic
PERSON 1	lights from green to red
0:52:11.6	Yeah
PERSON 3	
0:52:12.3	It's really short, and that intersection if 50 kilometers per hour
PERSON 1	, ,
0:52:20.0	Ok
PERSON 3	
0:52:21.1	And you have a large truck and a heavy truck
PERSON 1	The year have a large track and a fleaty track
0:52:23.6	Yeah
0.52.25.0	rearr

PERSON 3	
0:52:24.6	And you break-
PERSON 1	
0:52:25.5	Obviously we have a system we need to model [inaudible]
PERSON 3	
0:52:27.3	[inaudible] intersection is why
PERSON 1	
0:52:29.0	Yeah yeah, no no. I definitely agree with you on this- from usage
PERSON 3	perspective, doing the activity, they don't care about the weight,
	they just care about selection. But when it comes to the system,
	that would need to be modelled, that- of course. But those are
	basically physics, those are, I mean-
0:52:48.0	Right
PERSON 1	
0:52:48.0	Those are gravitational laws and stuff that have to be applied to
PERSON 3	different types of [inaudible]
0:52:53.8	Then you should specify truck, big truck.
PERSON 1	
0:52:57.1	Yeah like-
PERSON 3	
0:52:57.8	[inaudible]
PERSON 1	
0:52:58.6	Vehicles specification, I think that tells enough, and maybe we can
PERSON 3	explain it as in, it's either a list or an option needed, it's a big truck,
	small truck, it's personal vehicle, I think that satisfies it. Maybe also
	restriction, we can just write- can you maybe just take a note of this.
	That's the vehicle spec, vehicle spec should adhere to like, gravitational laws, the laws of mass and shit like that- oh sorry. The
	things like that, that makes them- I just hope they don't get angry
	with my language. Ok so-
0:53:39.0	They need to anonymize you, they don't know that you did this
PERSON 1	They need to anonymize you, they don't know that you did this
0:53:42.0	Well, yeah they kind of know our group, yeah, they kind of do
PERSON 3	vicin, year they kind of know our group, year, they kind of do
0:53:45.2	You can say fuck
PERSON 2	Tou can say ruck
0:53:47.5	[inaudible]
0.55.47.5	[maddine]

DEDCOM 4	
PERSON 1	
0:53:51.0	Ok. Broadly the tool should be easy to use and should encourage
PERSON 3	students to explore multiple alternative approaches. So this also
	supports our theory of different vehicles, different-
0:54:05.0	Types of roads, the speed of the-
PERSON 1	
0:54:08.7	Exactly
PERSON 3	
0:54:09.5	Stuff like that ok
PERSON 1	
0:54:10.4	What is easy
PERSON 2	
0:54:12.4	Yeah well, to be honest, options. Options are easy
PERSON 3	
0:54:15.1	Just a-
PERSON 1	
0:54:15.8	And a few [inaudible] lists
PERSON 3	
0:54:17.0	Yeah that's easy
PERSON 1	
0:54:18.1	If you have [inaudible] options, that's not easy
PERSON 2	
0:54:20.0	Yeah but, if they have a vehicle
PERSON 3	
0:54:23.4	If you just want to see a road visualization simulation
PERSON 1	
0:54:29.4	Yeah
PERSON 3	
0:54:29.7	And you have to choose three [inaudible]
PERSON 1	
0:54:36.5	No it's not the fact that you need to choose between hundred types
PERSON 3	of trucks, you've got ten different vehicles, some speed, and you
	can still, for example, press ok without choosing any and it just goes
	to default. That might also be a restriction that we, kind of come up
	with is the fact that the user should not be limited to specifying all
	the characteristics of the simulation. The simulation should have a
	default option. Which is, for example, if they don't want to select
	default option. Which is, for example, if they don't want to select

	their- there's a-
0:55:02.4	Yeah but just-
PERSON 1	
0:55:04.0	Just want to see the traffic flow, and in the beginning
PERSON 3	tast traine to see the traine now, and in the segming
0:55:05.7	Yeah, [inaudible] important intersection and one speed yeah
PERSON 1	rearry (maddiste) important intersection and one speed yearr
0:55:08.9	Yeah exactly
PERSON 3	realiteration
0:55:10.0	That's right
PERSON 1	
0:55:10.1	But I think that you should write that down as well. So the
PERSON 3	simulation-
0:55:14.2	Systematic default option
PERSON 1	
0:55:16.3	Yeah
PERSON 3	
0:55:17.0	Simulation options, user can specify
PERSON 1	
0:55:21.6	Yeah so it is possible, but it's not a must because that restricts the
PERSON 3	user. And if, for example, they forget to click something and they
	get an error, you fucked up this, they will be inclined not to-
0:55:33.3	Yeah
PERSON 2	
0:55:33.3	Well- he's so enthusiastic about it
PERSON 3	
0:55:35.5	That's right, so it's the ease of use of the system
PERSON 2	
0:55:37.3	Yeah
PERSON 3	
0:55:39.0	I agree
PERSON 2	
0:55:39.7	Broadly the tool, ok blablabla, students should be able to observe
PERSON 3	any problems with their map, timing schemes, alter it and see the
	results of their changes on the traffic patterns
0:55:49.9	Yeah
PERSON 1	

0:55:50.3	This is also important- the simulation
PERSON 3	This is also important- the simulation
0:55:54.1	If you add some activities on- and you loop it, then that's the
PERSON 1	requirement here done.
0:56:03.6	Yeah but my concern is that, when you have, for example, you
PERSON 3	specify a [inaudible] change timing, and you do the visualization.
r LINSON S	Visualization runs, it doesn't matter what you specify. And
	everything can crack, for example, although we've specified it's not
	allowed, but in some cases it might because of some strange, I don't
	know, combination of vehicles or whatever. And they should be able
	to see potential problems on this visualization, so there could be
	like a window, for potential problems, and it could just be
	intersection, six, I don't know, the timing is incorrect. Or something.
	It's like a warning
0:56:40.7	When you [inaudible] modeller
PERSON 1	
0:56:44.8	Yeah
PERSON 3	
0:56:45.1	If you make a process and you want to execute it, you get a
PERSON 1	dropdown menu when- well this is wrong and what you have to
	change. That's [inaudible]
0:56:55.5	Yeah yeah yeah. Exactly something like that. And maybe also,
PERSON 3	although we set the traffic light behaviour in the previous step,
	which is creating the map itself, the visualization should, I guess,
	support the option of going backwards and altering it. Because,
	maybe not within the visualization because that would just be the
	player, but maybe before specifying like, when do you specify the
	characteristics of the car? Like the weight and stuff? There could be
	an option to reset the behaviour of lights, or just maybe a link to the
	map and they can alter it. If they didn't select the good one or
0.57.45 6	something. You don't follow me do you
0:57:45.6 PERSON 1	No no, the last part I didn't
0:57:48.2	When, for example, you go step 1, you create a map, you select all
PERSON 3	the behaviours, you basically update the colours of the lights, then
1.2.3014.3	you go to visualization. And you realize that your combination for
	some reason doesn't-
	555 . 5455 4555 1

0:58:01.0 PERSON 1 0:58:02.0 PERSON 3 0:58:02.6 PERSON 1 0:58:02.6 PERSON 3 0:58:09.1 PERSON 1 0:58:09.1 PERSON 3 0:58:14.0 PERSON 3 0:58:14.0 PERSON 1 0:58:19.0 PERSON 3 0:58:20.1 PERSON 3 0:58:20.1 PERSON 3 0:58:20.1 PERSON 3 0:58:21.3 Display visually PERSON 3 0:58:23.5 PERSON 3 0:58:23.5 PERSON 1 0:58:31.3 PERSON 1 0:58:32.0 PERSON 3 0:58:31.3 PERSON 1 0:58:32.0 PERSON 1 0:58:32.0 PERSON 3 0:58:32.0 PERSON 1 0:58:32.0 PERSON 3 0:58:59.0 PERSON 1 0:58:59.0 PERSON 3 Veah basically yeah, so this would all, all of this, I guess, would be in		
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PERSON 3 0:58:02.6 PERSON 1 0:58:02.6 PERSON 3 0:58:09.1 PERSON 1 0:58:09.1 PERSON 3 0:58:14.0 PERSON 1 0:58:19.0 PERSON 3 0:58:20.1 This traffic stop, at this intersection- PERSON 3 0:58:22.0 PERSON 3 0:58:23.5 PERSON 2 0:58:23.5 PERSON 2 0:58:23.5 PERSON 3 0:58:31.3 PERSON 3 0:58:31.3 PERSON 3 0:58:32.0 PERSON 3 0:58:59.0 PERSON 3 0:58:59.0 PERSON 3 0:58:59.0 PERSON 3 0:58:59.2 PERSON 1	PERSON 1	
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1:00:55.1 There are in the database- in the car database there are the setup of all cars and how much they weigh, how big they are-	1:00:54.8	Yeah
PERSON 2 all cars and how much they weigh, how big they are-	PERSON 1	
7 67 6 7	1:00:55.1	There are in the database- in the car database there are the setup of
1:01:06.2 Yeah	PERSON 2	all cars and how much they weigh, how big they are-
	1:01:06.2	Yeah

PERSON 3	
1:01:06.7	Isn't there any [inaudible] database of [inaudible] where you can
PERSON 2	link it to this software. And that's the validator of cars
1:01:17.1	That is- yes but still, I would go with validator as being an external
PERSON 3	entity-
1:01:22.4	Yeah
PERSON 1	
1:01:22.8	A very good because-
PERSON 3	
1:01:23.1	[inaudible']
PERSON 1	
1:01:24.0	Yeah, but also for example, here we have the system, and this- and
PERSON 3	we would connect this to the database as you said, that's a very
	good idea actually. Because there's a lot of data on the vehicles
1:01:37.4	Vehicle data
PERSON 1	
1:01:38.5	So this would be vehicle-
PERSON 3	
1:01:41.0	Also -
PERSON 1	
1:01:42.1	Data?
PERSON 3	
1:01:42.6	Basic physics laws, could also be external
PERSON 1	
1:01:45.7	Math yeah, maybe a-
PERSON 3	
1:01:46.4	Math and physics laws
PERSON 1	
1:01:48.9	Traffic law
PERSON 2	
1:01:50.9	Physics? And also we would validate it, that would be the validator,
PERSON 3	which would be externally. Validator. And traffic laws?
1:02:03.8	You mean that cars stop at a stop sign? [inaudible]
PERSON 1	
1:02:05.7	There's no stop signs, so we don't need-
PERSON 3	
1:02:08.8	I would have just traffic lights, you have to stop at a red sign or the

PERSON 2	maximum-
1:02:13.6	Basic traffic laws
PERSON 1	
1:02:14.7	The validator could have that data as well, or no?
PERSON 3	
1:02:18.0	Yeah
PERSON 1	
1:02:18.4	That no-but
PERSON 3	
1:02:19.7	Validator, you can have a validator rule engine that checks the laws
PERSON 2	on maximum speed
1:02:28.5	But you still need to get the laws into the system before you can
PERSON 3	validate them. So validator would be external, that would mean,
	yeah external, but it wouldn't have all the old data. It would just get
	the data from different external entities-
1:02:40.8	Yeah yeah
PERSON 1	
1:02:40.8	And process that data
PERSON 3	
1:02:42.2	Validator functionality is internal
PERSON 1	
1:02:44.3	Yeah
PERSON 2	
1:02:44.7	Yeah we don't need- no we don't need to really- yes
PERSON 3	
1:02:47.2	That just [inaudible] validator
PERSON 1	
1:02:49.4	Yeah ok, so that wouldn't come into context view then, because it's
PERSON 3	internal. It's part of the system
1:02:55.3	Well the information would be gathered externally
PERSON 1	
1:02:59.5	Yeah
PERSON 2	
1:03:00.2	Wouldn't it?
PERSON 1	
1:03:00.5	Yeah but that would be done by the-
PERSON 3	

1:03:03.0	That's still a part of the context view
PERSON 1	
1:03:08.0	How do you model it because then you can only model it as a-
PERSON 3	
1:03:10.2	Yeah, but that's fine
PERSON 1	
1:03:11.3	Internal?
PERSON 3	
1:03:11.8	Yeah
PERSON 1	
1:03:12.2	So you would
PERSON 3	
1:03:12.8	Just to the TS
PERSON 1	
1:03:14.8	Inside the TS?
PERSON 3	
1:03:16.2	To the TS
PERSON 1	
1:03:17.0	To, outside the UCI
PERSON 2	
1:03:19.6	Right
PERSON 1	
1:03:19.9	Outside. Validator is external here
PERSON 2	
1:03:23.1	No no, it's internal. Validator would be internal as part of the
PERSON 3	simulation
1:03:26.6	Yeah ok, yeah yeah, you can model the validator
PERSON 2	
1:03:30.7	So you do here for example
PERSON 3	
1:03:32.4	Yeah
PERSON 2	
1:03:32.8	Really?
PERSON 3	
1:03:33.4	Yeah ok. That's to the TS yeah. But the data of the validator comes
PERSON 2	outside the UCI
1:03:40.0	But the validator itself is inside the TS, isn't it?

PERSON 2	
1:03:41.8	Yeah exactly, that's my point. Validator is part of the TS, the TS gets
PERSON 3	all the data-
1:03:47.3	Ok
PERSON 2	
1:03:47.3	And then this-
PERSON 3	
1:03:48.4	Ok fine
PERSON 2	
1:03:48.4	Function here would be the validator, which process all the data
PERSON 3	and-
1:03:52.4	I would agree
PERSON 1	
1:03:52.9	Makes a decision
PERSON 3	
1:03:53.7	Right, but you would still need to model, like, the external
PERSON 1	information that's going to the TS
1:03:58.8	That's vehicle data? The math and physics
PERSON 3	
1:04:00.9	Traffic law
PERSON 1	
1:04:02.3	Ok maybe traffic law
PERSON 3	
1:04:02.4	Basic
PERSON 1	
1:04:02.8	Ok traffic law
PERSON 3	
1:04:04.2	Basic traffic law information, that car stops at a red car sign
PERSON 1	
1:04:08.0	Traffic-
PERSON 3	
1:04:08.9	You know, stuff like that
PERSON 1	
1:04:09.3	Laws and-
PERSON 3	
1:04:12.1	That the maximum speed of that road
PERSON 1	
L	

1:04:13.2	We call it a CPP
PERSON 3	
1:04:15.3	Do you have traffic laws in Slovenia
PERSON 2	
1:04:17.2	No we drive on communist laws
PERSON 3	
1:04:21.0	Basically, as long as you're driving you're good
PERSON 1	
1:04:23.5	If you have a five year plan, it's good
PERSON 2	
1:04:27.7	Right
PERSON 1	
1:04:27.7	If you have a life insurance, then you're all good
PERSON 3	
1:04:32.1	Let's work through this last part and then we can start modelling
PERSON 2	
1:04:34.7	Then we can have a break
PERSON 3	
1:04:35.5	And then we can have a break and-
PERSON 2	
1:04:36.4	We can have a break. Ok
PERSON 3	
1:04:38.3	Five minutes break
PERSON 1	
1:04:40.6	We take fifteen, no I'm kidding, we take two minutes only. They're
PERSON 3	kidding
1:04:45.6	Haha
PERSON 1	
1:04:48.0	Alter and see the results of the change in traffic, that would be done
PERSON 3	by the validator. The problem is not meant to be an exact scientific
	simulation, but aims to simply illustrate the basic effects of traffic
	signal timing has on traffic.
1:04:59.5	Yes [inaudible]
PERSON 2	
1:05:00.7	If you wish you may assume that you will be able to reuse the
PERSON 3	existing software package. Ok so that's- we don't need
1:05:05.5	Yeah good
-	•

PERSON 1	
1:05:06.9	You may add additional features and support. Ok.
PERSON 3	