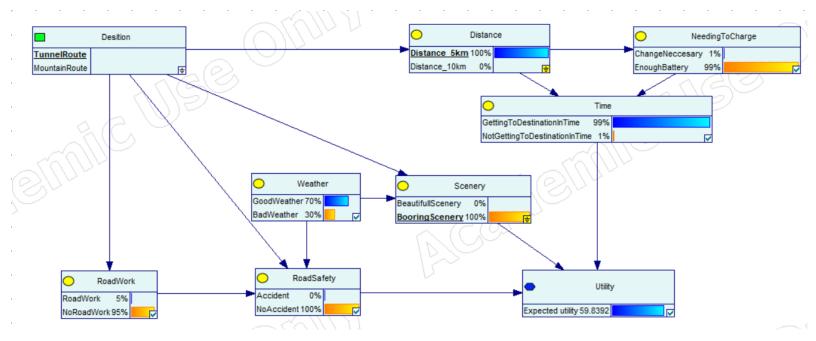
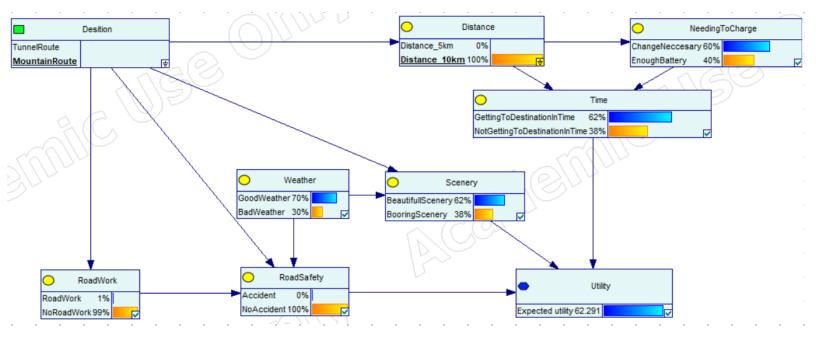
The non-trivial problem I have choosen is if I should drive my car over a mountain or through the mountain in a tunnel to get to my destination. The variables I have choosen together with their possible outcomes are;

- Distance (Distance5km, Distance10km) (certain)
- RoadWork (RoadWork, NoRoadWork) (uncertain)
- RoadSafety (Accident, NoAccident) (uncertain)
- Weather (GoodWeather, BadWeather) (uncertain)
- Scenery (Beautiful, Booring) (uncertain)
- NeedingToCharge (ChargeNeccesary, EnoughBattery) (uncertain)
- Time (GettingToDestinationInTime, NotGettingToDestinationInTime)y(uncertain)

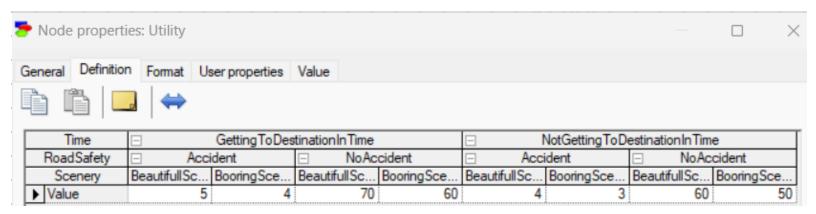
The GeNIe Implementation and results given the different actions:



(Note; the chance of accident is not 0%, it's just very low as seen in the probability table on the next page.)

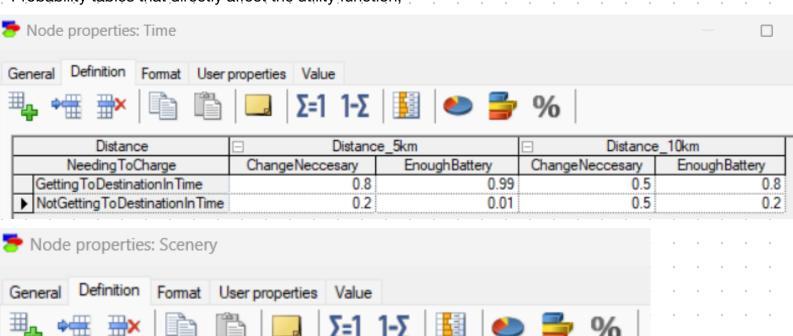


The utility function;

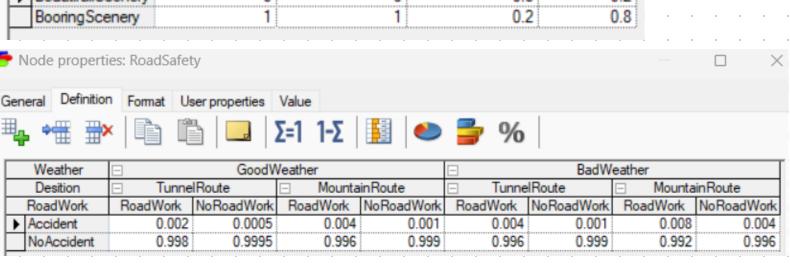


As seen in the Utility block, I have put a large value on not beeing in an accident. After that, the scenery is valued the most. Getting to the destination in time is not so important for me.

Probability tables that directly affect the utility function;



		_		, , ,								
Desition	□ Tunne	elRoute										
Weather	GoodWeather	BadWeather	GoodWeather	BadWeather								
▶ BeautifullScenery	0	0	0.8	0.2								
BooringScenery	1	1	0.2	0.8								
	A	*	^									



Αş	sui	mp	tio	nş I	ḥа	ve r	nac	de;																								
• Firstly, I have assumed that all the values I have used in the model, is somehow know to me.																																
Ex, Prob for bad or good weather from weather forcast																																
Ex, Prob for RoadWork or NoRoadWork is an estimate based on my experience driving the different roads													şk																			
ŗ	multiple times.																															
• The network is a simplification of the real world, but I have tried to include the most important factores.																																
•	As	se	en	in tl	ne p	oict	ure	froi	n th	ne r	etw	vork	ς, Η	าลง	e m	ade	mı	ultip	ole c	con	ditio	onal	inc	lep	enc	anc	e as	ssu	mp	tion	s.	
(Ex.	dr	ivir	ng i	n ba	ad v	vea	the	r do	oes	not	aff	ect	my	car	rs ba	atte	ery (drai	ning	a, w	/hic	h it	ob	viou	ısly	doe	s ir	n re	ality). I	
(Ex, driving in bad weather does not affect my cars battery draining, which it obviously does in reality). I have tried to balance simplicity and ease of understanding the network with removing connections between														en																		
things that affect each other in real life, but not to much, such that the end result of the utility function still is																																
a good approximation of the "real" utility of the different choices.																																
 I have also made the assumptions such as getting to the destination in time beeing possible if there is an 														n.																		
accident. I guess that depends on the severity of the accident and the possiblility of someone picking me																																
				_										-					านุธล			,	-• -	•	<i>J</i> .	•	•					ē
•	•	•	•	•	J	•	•	•	•	•	•	<i>J</i> .	•	•	•						•	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	•	•	•	•	•	•	•	•	•						•	•	•	•	•		•	•	•	•	•	•
En	d r	esı	ult:	•	•	•	•	•	٠	•	•	٠	•	•	٠	•	•	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
		•		or o	drivi	ina	ove	· er th	e n	1ou	ntai	n is	slic	ahtl	· v la	raer	· tha	an d	drivi	na	in t	he t	unr	el t	thro	uah	the	· m	oun	Itain	Th	is
			-			_								_	-	_				_						_				e if		
		-			nne		9								_					-				-	,	,		-,		-,	-,	
		9	7		•		•	٠	٠	•														•	•	•	•	•	•	•	•	•
٠		•	•	•	•	•	•	٠	٠	•																		•	•		•	•
٠		•	•	•	•	•	•	٠	٠	•																		•	•	•	•	•
٠		•	•	•	•	•	•	٠	٠	•	•	٠	•															•	•	•	•	•
٠		•	•	•	•	•	•	٠	٠	•	•	٠	•															•	•	•	•	•
٠		•	•	•	•	•	•	٠																		•	•	•	•	•	•	•
•		•	•																•								•	•	٠	•	•	•
•		•	•	•	•	•	٠	•	٠	•	•	٠	٠	•	٠	•	•	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	٠	•	٠	•	•	٠	٠	•	٠	•	•	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
٠		•	•	•	•	•	٠	٠	•	•	•	•	٠	٠	•	•	•	٠	٠	•	•	•	•	•	•	•	•	•	•	•	•	•
٠		•	•	•	•	•	•	٠	٠	•	•	٠	•	٠	٠	•	•	٠	٠	•	٠	•	•	•	•	•	•	•	•	•	•	•
٠		•	•	•	•	•	٠	٠	•	•	•	•	٠	٠	•	•	•	٠	٠	•	•	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	٠	•	٠	•	•	٠	•	•	٠	•	•	٠	•	•	٠	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	•	•	•	•
•		•	•	•	•	•	٠	•	٠	•	•	٠	٠	•	٠	•	•	٠	٠	•	٠	•	٠	٠	•	•	•	•	٠	•	•	٠
•		•	•	•	•	•	٠	•	٠	•	•	٠	٠	•	٠	•	•	٠	٠	•	٠	•	٠	٠	•	•	•	•	٠	•	•	٠
•		•	•	•	•	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	•	•	٠	•	•	٠	•	٠	٠	٠	•	•	•	٠	٠	•	•
•		•	•	•	•	•	٠	٠	٠	•	٠	٠	٠	٠	٠	•	•	٠	٠	•	٠	•	•	٠	٠	•	•	•	•	•	•	•
•		•	•	•	•	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	•	•	٠	•	•	٠	•	٠	٠	٠	•	•	•	٠	٠	•	•
•		•	•	•	•	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	•	•	٠	•	•	٠	•	٠	٠	٠	•	•	•	٠	٠	•	•