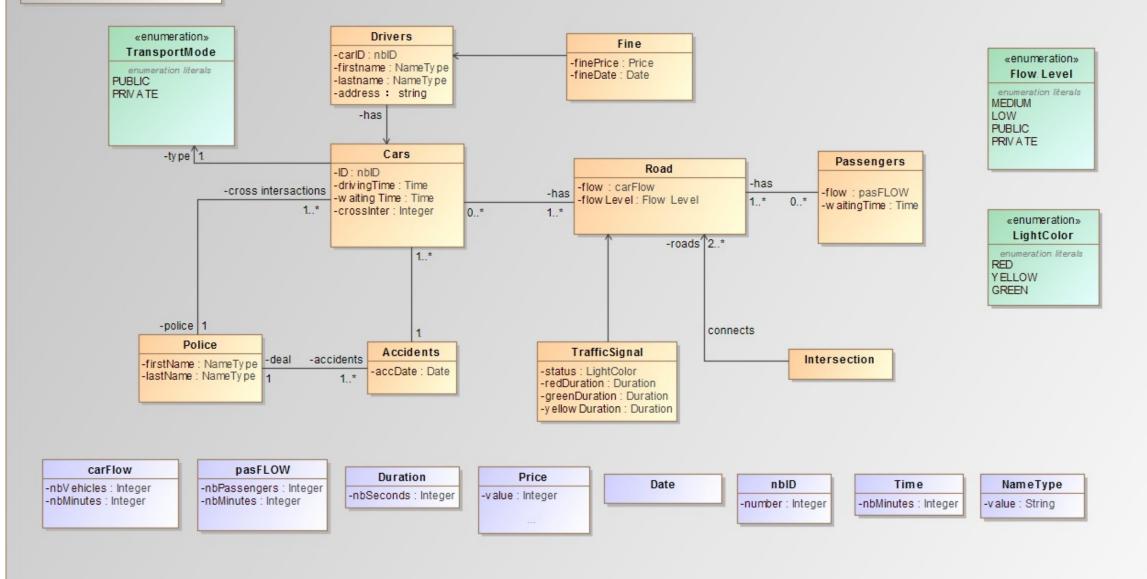
Information System Modeling

YAO ZELIANG

Smart Trafic Light System



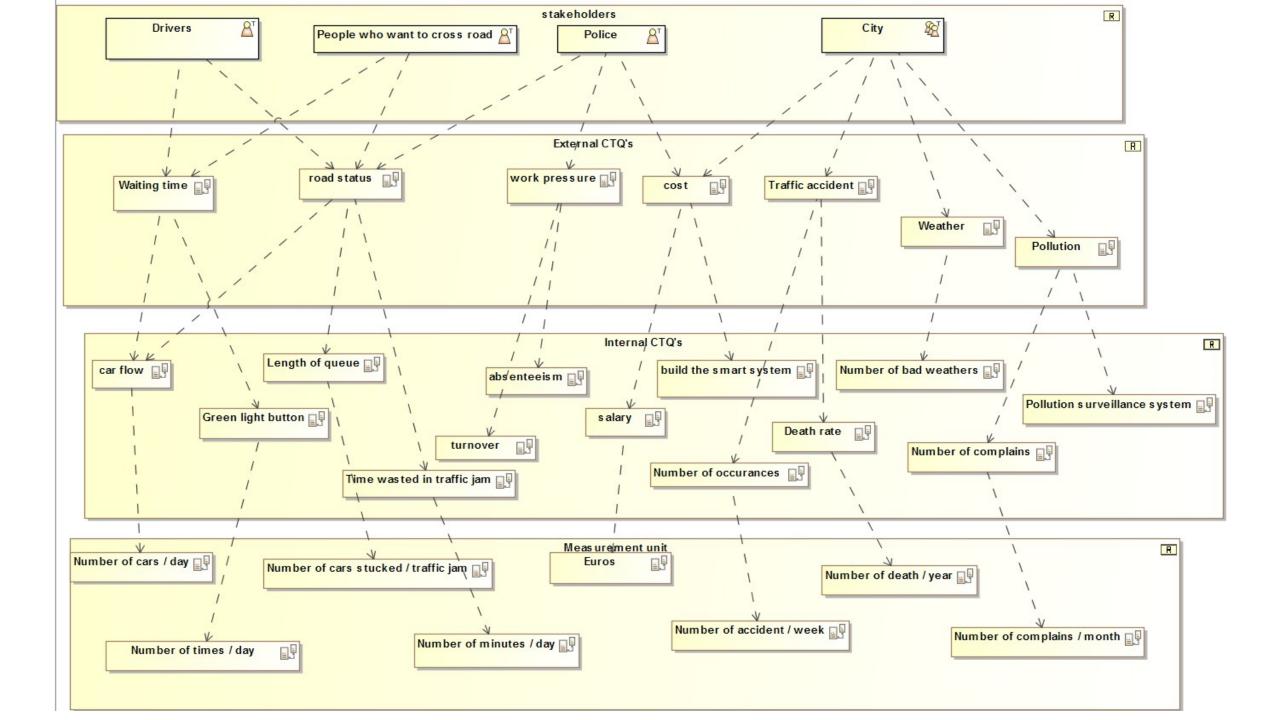
DecisionTable

Car pass the cross road						
Conditions		Red Light	Green Light	Yellow Light	Flow Level	Annotation
CASE 1	1st Road	0'	always	0'	Low	The flow of road 1 is low
	2nd Road	40'	35'	5'	Medium	THE TIOW OF TOUCH I IS TOW
CASE 2	1st Road	40'	35'	5'	Medium/High/Low	The 2 roads have the same level
	2nd Road	40'	35'	5'	Medium/High/Low	of flow, no need to change
CASE 3	1st Road	55'	10'	5'	Low	The 2nd road has a traffic proble
	2nd Road	15'	50'	5'	Congestion	
CASE 4	1st Road	55'	15'	5'	Low	Road 1 has a much lower flow than
	2nd Road	20'	50'	5'	High	road 2
People Crossing						
		Red Light	Green Light	Waiting time		Annotation
CASE 1	No cars on the road	0'	always	0'	before press	Person push the button while
	0415 011 0110 1044	40'	35'	5'	after press	there is no car on the road the light waits 5s to shift from green to red, 40s later
						.cars begin to move
CASE 2	High Flow	0'	always	0'	before press	Person push the button while the
	nign riow	20'	50'	5'	after press	flow is high, because the flow is
						high, we can't let cars stop for
						so long, that's why we put 20s for
Special cars	police car	ambulance	fire car	Always take the right track		101
-	-			EMMERGENCY CITUATION)		

Sheet1

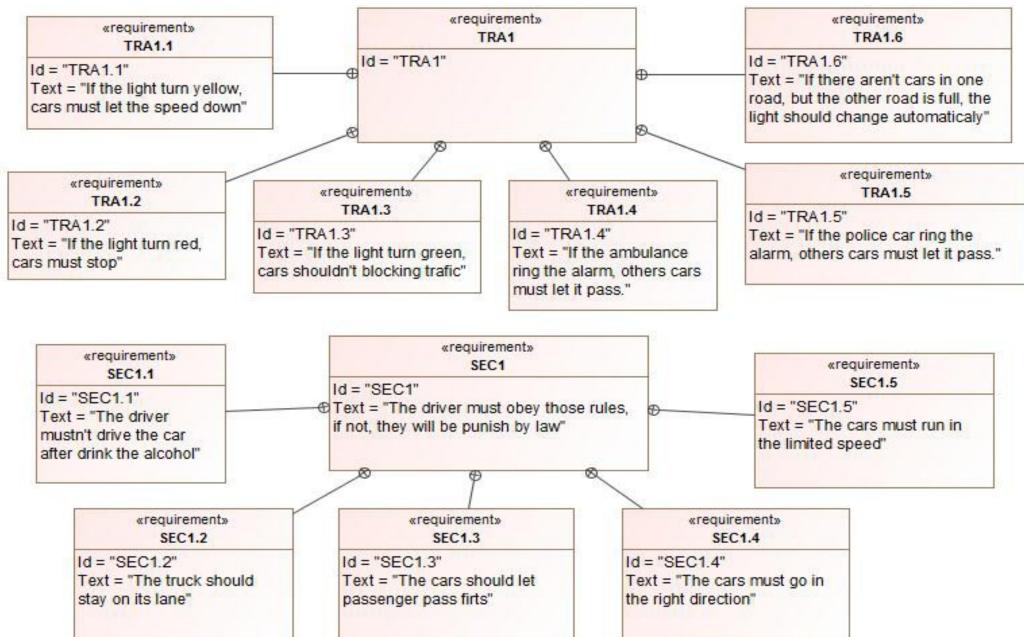
Critical To Quality

Stakeholders	External CTQ's	Internal CTQ's	Measurement unit
Drivers	Waiting time	Car Flow	Number of cars / day
	Road Status	Length of queue	Number of cars stucked / traffic jam
		Car flow	Number of cars / day
		Time wasted in traffic jam	Number of minutes / day
City	Traffic accident	Number of occurances	Number of accident / week
		Death rate	Number of death / year
	Pollution	Number of complains	Number of complains / month
		Pollution surveillance system	Data
	Cost	salary	Wage/month
		build the smart city system	Euros
	Weather	Number of bad weathers	Number of bad weathers / month
People who want to cross the road	Waiting time	Green light button	Number of times / day
	Road Status	Length of queue	Number of cars stucked / traffic jam
		Car Flow	Number of cars / day
		Time wasted in traffic jam	Number of minutes / day
Police	Road Status	Length of queue	Number of cars stucked / traffic jam
		Car flow	Number of cars / day
	16.7026	Time wasted in traffic jam	Number of minutes / day
	Cost	salary	Wage/month
	Work pressure	turnover absenteeism	



RequirementCombinaiso





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