SOFTWARE SET-UP TYRE
EXAMPLE UTILIZATION

The software SET-UP Tyre allows to obtain all the indications to have the best setup of the tyre pressure in every track, and in every conditions.

Like we've seen in the software Kart Analysis in every track there are differents loads on the four wheels therefore is important to adjust the pressure to make always work the tyre at the best and obtain the maximum grip.

In addition to the load an other factor very important is the temperature, in fact lap by lap the temperature increase and consequently the pressure of the tyre changes lap by lap, so in the first laps the pressure could be perfect, but in long run, or in a race, at a certain point the tyre begin to work with pressure not optimal and the grip worsens.

The increase of temperature depends from the track, and from the air and ground temperature.

The software SET-UP Tyre calculates how increase the temperature of each tyre lap by lap according to the length of the run and the temperature conditions.

	Temperature [°C]				Pressure [bar]			
	FL	FR	RL	RR	FL	FR	RL	RR
LAP 1	39.6	42.5	38.6	42.0	0.71	0.72	0.72	0.72
LAP 2	47.5	51.3	47.8	53.9	0.74	0.75	0.76	0.78
LAP 3	50.3	54.6	52.5	60.1	0.76	0.77	0.78	0.81
LAP 4	51.4	55.9	55.2	63.7	0.76	0.77	0.80	0.83
LAP 5	51.9	56.4	56.8	65.7	0.76	0.78	0.81	0.84
LAP 6	52.1	56.6	57.7	66.8	0.76	0.78	0.81	0.85
LAP 7								
LAP 8								
LAP 9								
LAP 10								
LAP 11								
LAP 12								
LAP 13								
LAP 14								
LAP 15								

Then advices which is the best pressure to use for each tyre to obtain the best performance at the first laps of the run, at the last laps, or averagely.

BEST LAP	Advised Pressure [bar]			
	FL	FR	RL	RR
first lap	0.78	0.58	0.90	0.89
last lap	0.73	0.52	0.81	0.76
average	0.73	0.53	0.83	0.79
oversteering	0.83	0.63	0.85	0.84
understeering	0.73	0.53	0.95	0.94

So you can choose the best pressure for your need, if you want go fast at the start, or at the end of the run, if the run is short like in qualifying, or if is long like in race.

Moreover the software gives also indications to use the tyre pressure to improve the feeling of the driver if feels oversteering or understeering.

The software shows also for each tyre how changes the temperature point by point of the track, and this can be useful at the driver to see where forcing can create overheating of the tyre and bring a premature wear.

example LEFT REAR TYRE