Education and Culture
Lifelong learning programme
COMENIUS

School on the way to Europe

MINUTE FOR GROUP WORK
COMENIUS School Partnerships
“European CNC-Network – Train for EUROPE – RELOADED“

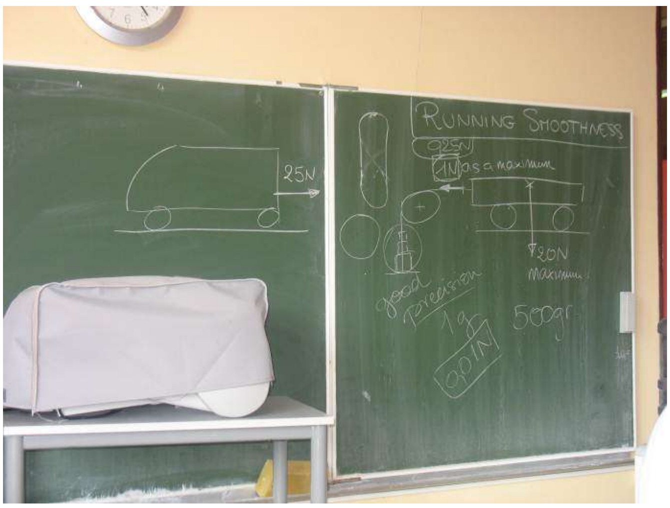
Meeting Description	Third Project Meeting in Celje (Slovenia)
Meeting hosted by	Šolski Center Celje - Srednja Šola za Strojništvo, Mehatroniko in Medije

Date / Time / Place	Fri 11th & Sat 12th & Mon 14th May 2012, Room No. B 08
Name of Workline	Workline B – Wagon Components
Name of Workgroup	Running Smoothness

Representative workgroup member	[FR] Nicolas Prime
Co-representative workgroup member	[BE] Johan Peys
Co-representative workgroup member	[FR] Michel Frezouls

Further workgroup members	[BE] Stepn Tutert;Stun Verllen; Mil Peerers
	[FR] Yoann Medina; Kevin Sonilhac; Gabriel Fabre; Nicolas Oro
	[RO] Cristiana Voicu; Claudiu Simion; Tudor Nicolau
	…

Minute written by	[RO] Gabriela Guta

Description of work progress: **Topics / Tasks / Results / Decisions / Facts of importance**	**Responsible school(s) or person(s) incl. deadlines**
Fri 11th May 2012 We have discussed about the results of the last meeting’s work session. We have come to the conclusion that we should change the way in which we measure running smoothness. The measurement process has to be simple and relevant, it has to be done by every school and it has to be understood by every student. 	

Description of work progress: Topics / Tasks / Results / Decisions / Facts of importance	Responsible school(s) or person(s) incl. deadlines
What really represents running smoothness is the value of the pulling effort that is necessary to move the wagon. This value has to be lower than 1 Newton. Each partner has to be sure that 1 Newton is enough to pull his wagon. Sat 12th May 2012 The group members have discussed the issue of pulling force and have decided to try an experiment in the Physics laboratory. The experiment involved using a pulley, weights, and several wagons, in order to test pulling force. Due to the fact that today it's Saturday, we were not able to get into contact with the teacher in charge with this laboratory. So we decided to wait until Morning to proceed with the experiment. Mon 14th May 2012 Our group continued the work started on Saturday. Today we were able to get access to the Physics laboratory and perform the experiment involving a pulley, weights, and two wagons. The experiment involved measurements, but we must say that it was not very precise because of the surface. We have come up with two different results, as follows: the biggest pulling effort was achieved using 100 g weights – 1 Newton, so 0.5 N as pulling effort is expected not to be very easy to achieve. As a tip for the other groups, we consider that the different track parts should fit perfectly, so that the locomotive could pull the train properly. Also, we consider that the undercarriage should weight about 800 g.	