

<b>Meeting Description</b>	Fifth Project Meeting in Sankt Pölten (Austria)
<b>Meeting hosted by</b>	Höhere Technische Bundeslehr- und Versuchsanstalt

<b>Date / Time / Place</b>	31 <sup>st</sup> January & 01 <sup>st</sup> and 02 <sup>nd</sup> February, Conference Room and Workshop
<b>Name of Workline</b>	Workline E – The Last Mile
<b>Name of Workgroup</b>	Running Smoothness Controlling

<b>Representative workgroup member</b>	[BE] Bram Vleugels and [FR] Nicolas Prime
<b>Co-representative workgroup member</b>	[FR] Michel Frézouls
<b>Co-representative workgroup member</b>	

<b>Further workgroup members</b>	[BE] Brent Van Roy
	[BE] Jens Slegens
	[FR] Thibaut Lachaume
	[FR] Cyril Buffel

<b>Minute written by</b>	[FR] Nicolas Prime
--------------------------	--------------------

<b>Description of work progress: Topics / Tasks / Results / Decisions / Facts of importance</b>	<b>Responsible school(s) or person(s) incl. deadlines</b>
<p><b>31<sup>st</sup> of December 2013</b></p> <p>We kept our previous choice concerning the measurement of the running smoothness of each wagon supposed to be inserted in the “Train for Europe”. So we have to measure the effort that is necessary to pull each wagon. To do so we will use a pulley, a rope, several mass and the tracks whenever they will be assembled.</p> <p>The maximum effort must be 1N. We will also use a 1Kg extra weight to simulate the upper part.</p> <p>The machining department of the St Pölten HTL school proposed to produce the pulley and its rotation axis in the next days.</p> <p><b>01<sup>st</sup> February 2013 and 02<sup>nd</sup> February 2013</b></p> <p>The Belgium and French students were asked to gather all the wagons they could from the different partners. They finally get 17 of them and could start the measure of pulling resistance of each wagon.</p> <p>They used the pulley produced by the metal department from Sankt Pölten and found a rope and some mass (all provided by the students from Sankt Pölten). They put each wagon on a linear section of tracks (2 track parts were used) and managed to place it horizontally.</p>	

<b>Description of work progress:  Topics / Tasks / Results / Decisions / Facts of importance</b>	<b>Responsible school(s) or  person(s) incl. deadlines</b>
<p>After that they measure the necessary weight to move each wagon. So they were able to determine the force needed to move each wagon. The so called "pulling effort" should not be bigger than 1N.</p> <p>The final results are pretty good. In fact the smoother wagon only needed 0,2 N to be pulled while the average value was around 0,45 N.</p> <p>So considering our workgroup results the wagons were efficiently design and produced by most of the participants.</p> <p>Only one wagon required more than 1N to be pulled but our students realized that the bearings were not correctly assembled on this wagon. The partners from this team noticed that already and had already the idea to modify this point. So we can easily imagine that this problem will be solved until the final meeting.</p>	