

Appendix B - Earned Value Analysis

From our project planning in MS Project, we can gather these values:

Actual Cost (AC) is at €77.125,00;
Earned Value (EV) is at €73.825,00;
Planned Value (PV) is at €83.075,00;
Budget at Completion (BAC) is at €120.920,00.

Some of these values are gathered from the graphics provided by MS Project and others we can calculate. The graphics can be found at the end of this appendix. They cover the analysis of the earned value, the variances, and the indexes over time. Overall, with these values we can evaluate and analyse the current state of the project.

With these values in mind, we can see that we are behind schedule given that our Earned Value is below our Planned Value for this time. This is confirmed by our Schedule Variance ($SV = EV - PV$) of € -9.250 being a negative value.

We are also over budget given our Actual Cost is greater than our Earned Value. In turn, this is confirmed by our Cost Variance ($CV = EV - AC$) of € -3.300 being a negative value.

Our Cost Performance Index ($CPI = EV / AC$) is 0.95721.

Our Schedule Performance Index ($SPI = EV / PV$) is 0.88865.

If we continue with these values throughout the rest of the project we can see that our Estimate at Completion (EAC) is €126.325,16. And that our Estimated to Complete (ETC) calculated by $(BAC - EV) / CPI$ gives us €49.200,28.

