

For Groups 1-3**Homework 1 – Topics to be covered in the presentations on Nov. 27th, 2016**

Group 7
▪ Briefly overview the process of generating estimates in Allplan.
▪ How did this tool improve the estimating task? Compare the benefits and limitations of such a tool with the current approach of manual quantity take off and estimating.
▪ What features of the system need improvement?
▪ Describe the considerations you must make while using Allplan for estimating, as opposed to paper-based estimating.
▪ Do you think the model given to you for quantification is ready to be used for cost estimation? Do you think the model requires further processing (changes, additions, formatting, etc.) for a realistic cost estimate?
Group 8
▪ Briefly overview the process of generating estimates in Navisworks.
▪ How did this tool improve the estimating task? Compare the benefits and limitations of such a tool with the current approach of manual quantity take off and estimating.
▪ What features of the system need improvement?
▪ How did you estimate the unit prices? From a web-based source? A unit price book? By an educated guess, etc.? What other sources can be used?
▪ At what point in the design process would this tool be most useful? (i.e. is this tool more useful for 90% complete design versus 30% or both) Why?
Group 9
▪ Do you think you are exporting all the information in the building model when you save it as a .NWC file for the cost estimate? What do you see as the opportunities and challenges of file-exchange between multiple software packages in the AEC industry?
▪ Can you be sure that the model based quantity take-off is correct? Describe the considerations you must make while using Autodesk Navisworks Quantification to estimate, as opposed to paper-based estimating. Do you think this method covers all the cost items you should include in a construction cost estimate?
▪ Are there any advantages of doing manual instead of automated quantity take-off?
▪ What type of construction projects would benefit most from this tool? Complex? Simple? Why?
▪ What might be your suggestion for linking cost information to model based quantities? Eg. Can you save the unit cost information into a database for reusing that information in similar projects? Or do you need to reenter for each estimate?

Please:

- Keep the presentations within 15-20 minutes.
- Be specific.
- Provide your group's own views on the discussion topics. But be ready to explain and backup your points based on your own understanding.
- Minimize repetition amongst presenting groups by looking at the topics assigned to other groups presenting and not repeating those points in your presentation. (i.e. Do not present other groups' topics.)

Group 7-9-8-9 will perform their presentations on November 27th, during the class hour.