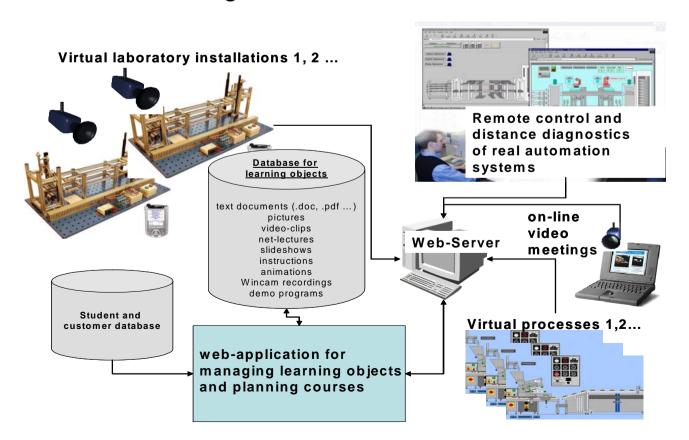
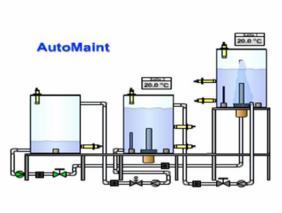
Virtual models in the PBL of production automation

- With different models we can improve student's motivation and orientation.
- With models students can also make experiments which are based on their theoretical knowledge.
- students can also evaluate and control their learning process.
- Usually the main purpose for using virtual models in training of production automation is to improve student's motivation, orientation and understanding.



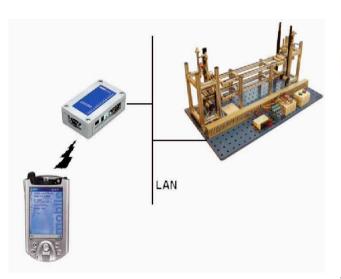
Virtualprocesses

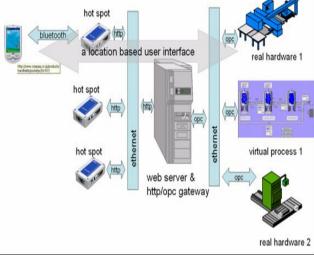




- Web-based interactive exercises
- e-learning environments for PLC-programming
- In virtual processes there is no real process; the model of process is running in our server and it can be controlled via web.
- Simple (but mayby in-teractive) Flash 2Danimations can be used especially in practice instructions.

On-line laboratories





- In virtual laboratory applications a student can control real laboratory equipment via web by using remote control methods.
- With virtual laboratory installations we could improve students ability to continue with more independent practices with real automation systems.