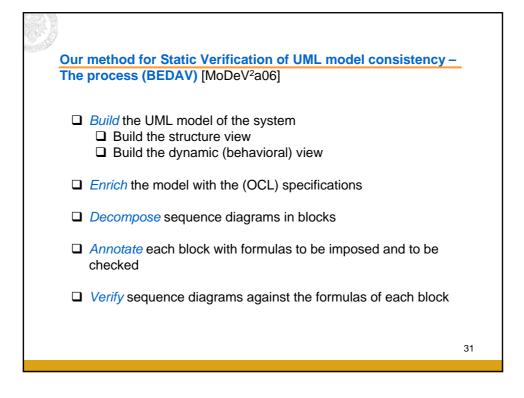
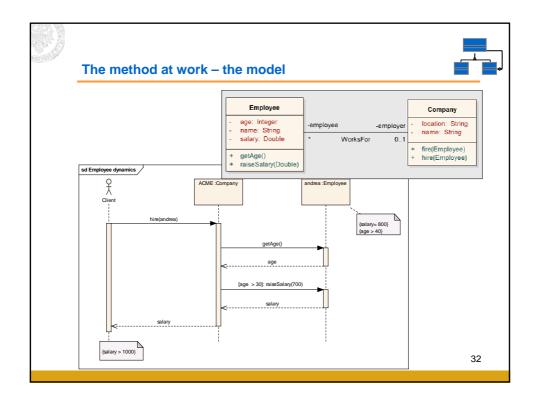
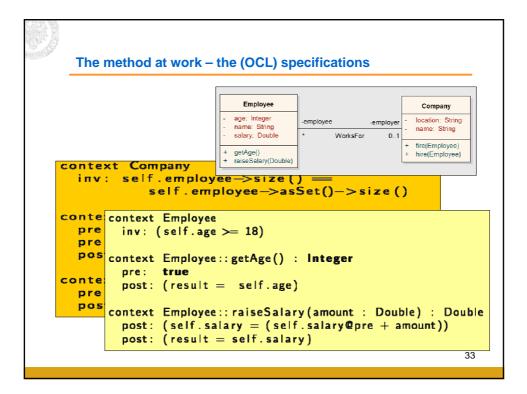
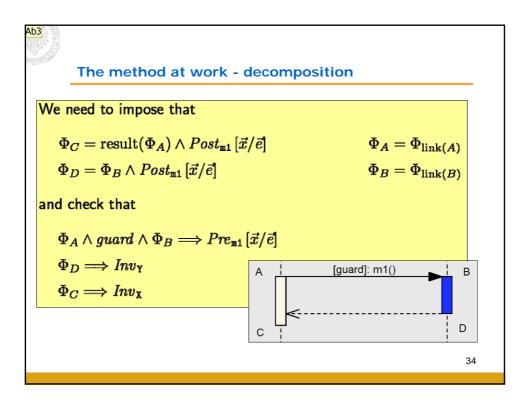


Ab1 This notion clearly states what has to happen when we call a method in a state which satisfies Prem  $[x/e] \land$  InvC, but what happens when this does not hold? As already said, failure to meet any of the responsibilities stated in the contract results in a break of the contract, and indicates the existence of a bug somewhere in the design or implementation of the software or in the assertions themselves. Due to the size of most systems, the latter chance is not so unlikely. Andrea Baruzzo; 08/03/2007

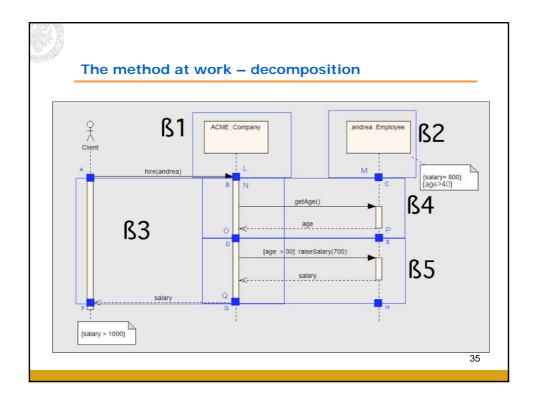


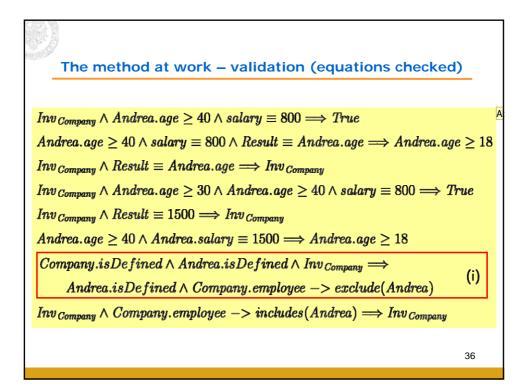






## per ciascuno di questi blocchi costruiamo delle formule che ci garantiscano che l'esecuzione del blocco preservi gli invarianti delle classi e sia consistente con le pre e post condizioni di ciascun metodo Andrea Baruzzo; 26/09/2006 Ab3





Ab4 If we add in the diagram an initial constraint specifying that Company.employee -> excludes(Andrea) then we can prove the new (i) and then the diagram becomes consistent. Andrea Baruzzo; 26/09/2006

