G-I-1 Introduction Modelling is the way of thinking

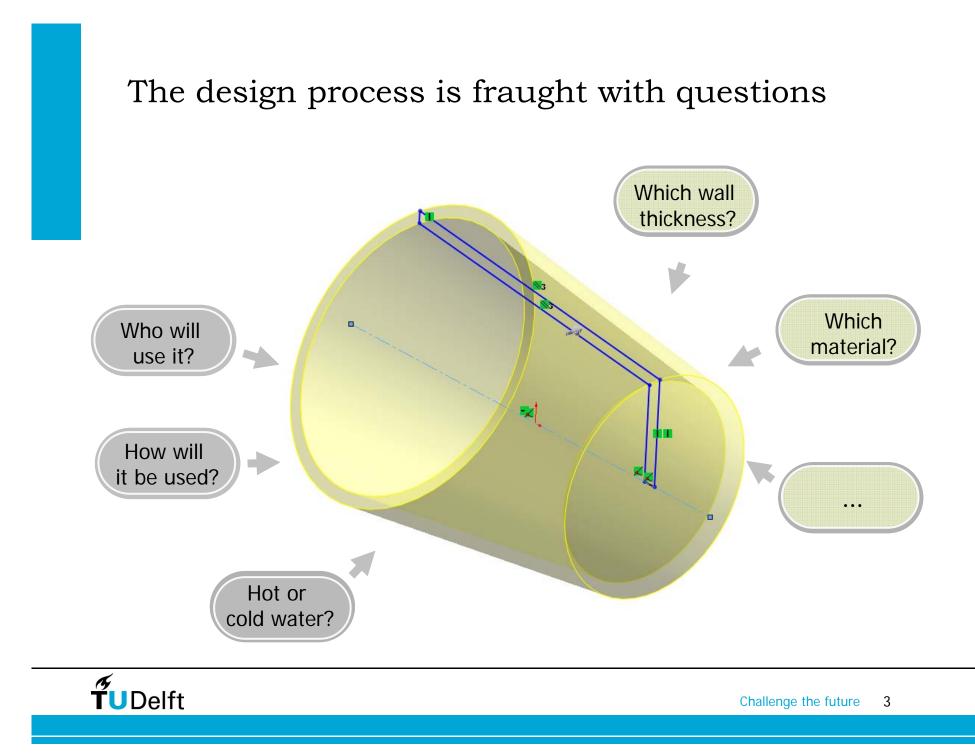
Dr. Y. Song (Wolf) Faculty of Industrial Design Engineering Delft University of Technology



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We think

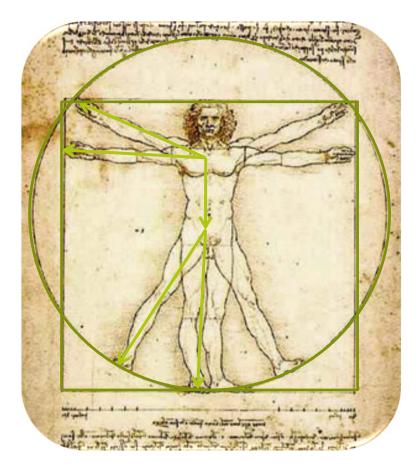


Alberto Alessi



We use abstract models to 'touch' our thought

like this sketched man? no, the man is not an abstract model



this

is da Vinci's abstracted model (language: Eucledian calculus)

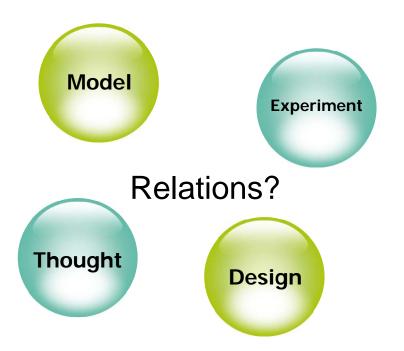


We experiment to verify both our thoughts and models











Insights



One thing to keep in mind...

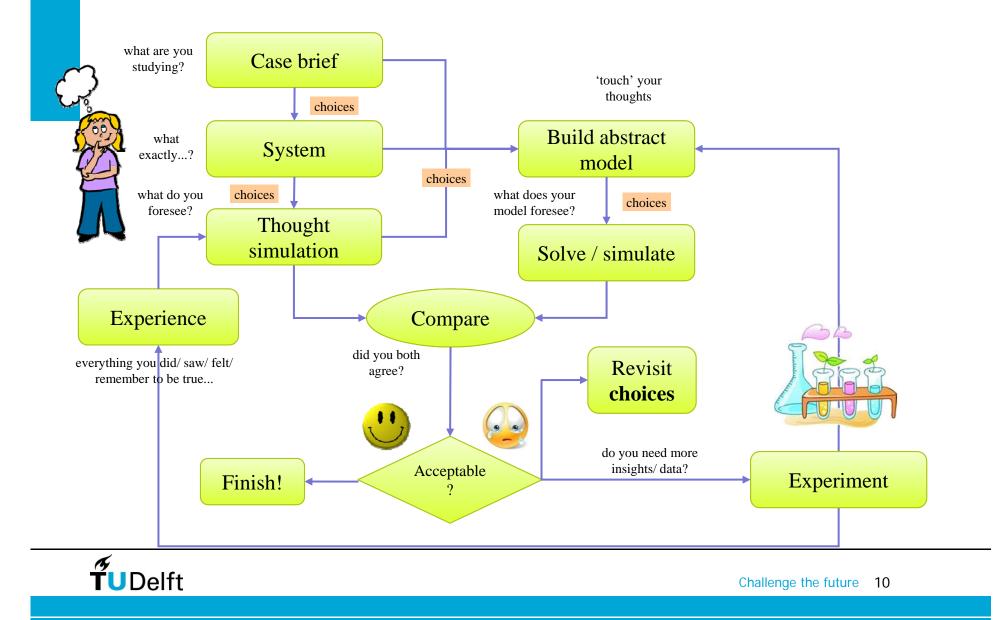
Your mind thinks without you

...which is a very fortunate thing, as we shall see!

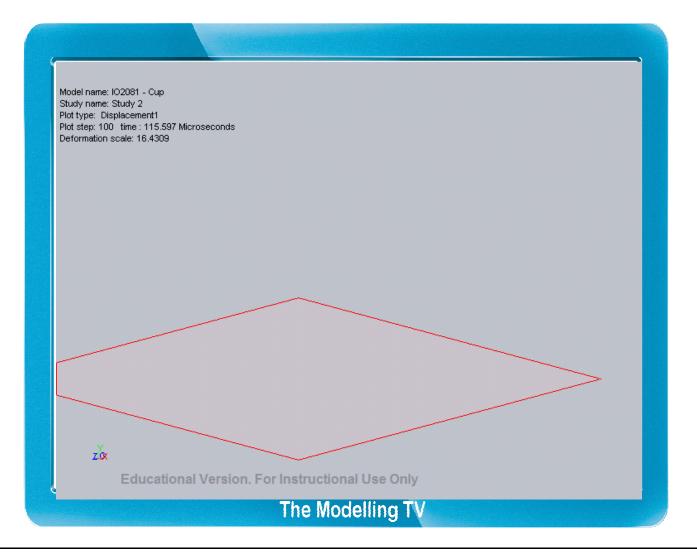
(still, it's up to **YOU** to check if it's on track)



A look under the hood: Modelling in design

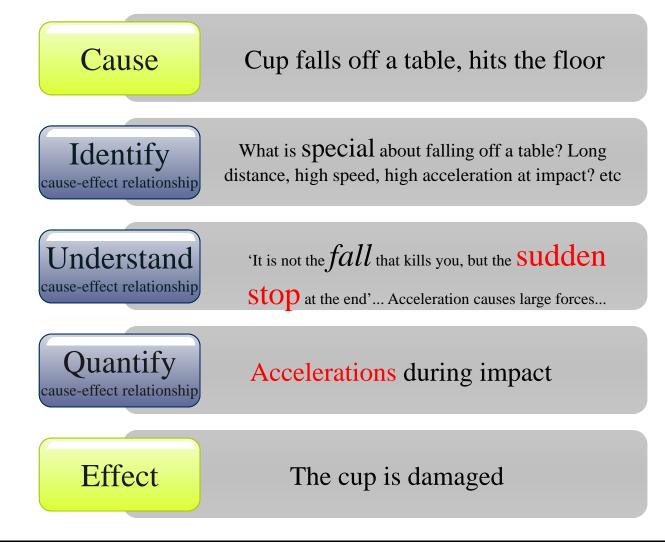


Cause & effect – The key to modelling



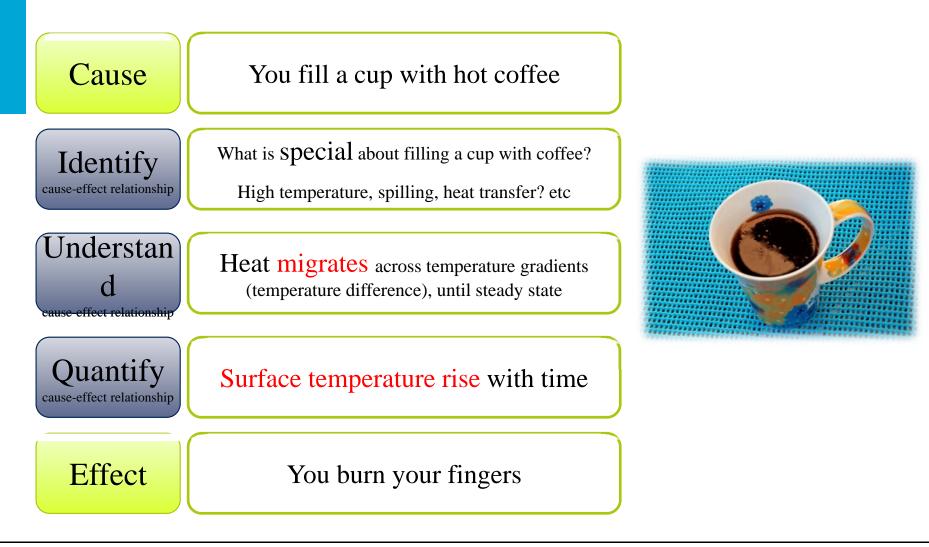
TUDelft

Cause & effect – The key to modelling



TUDelft

Cause & effect – The key to modelling

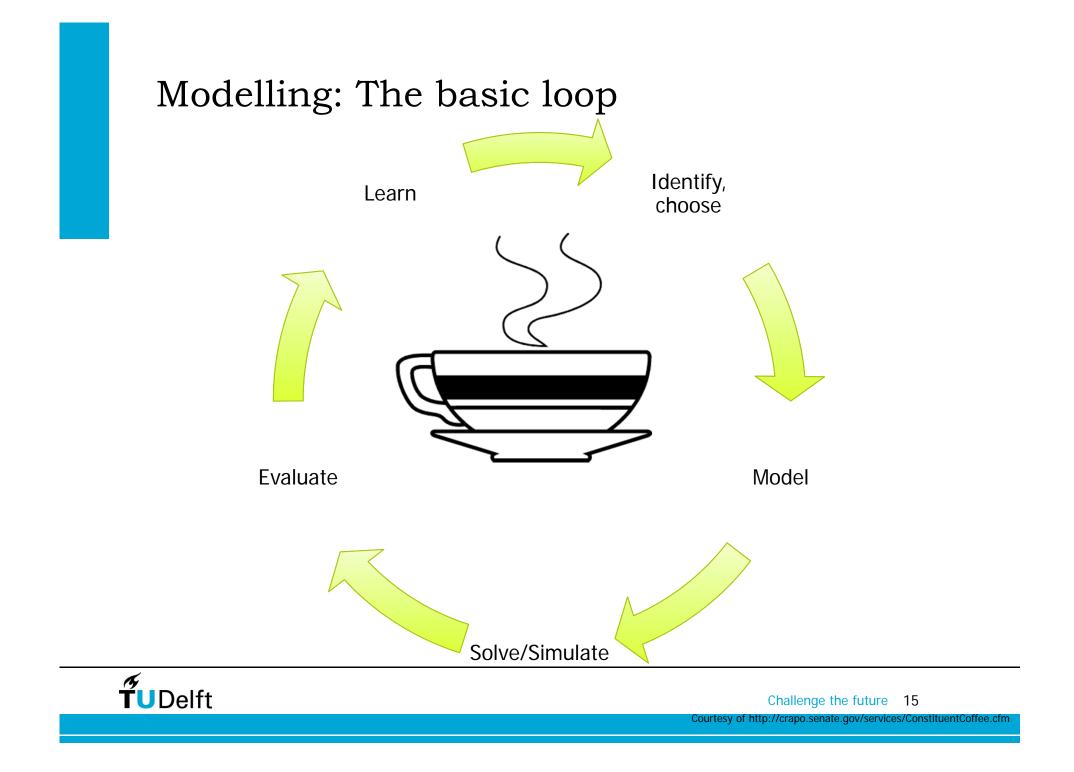


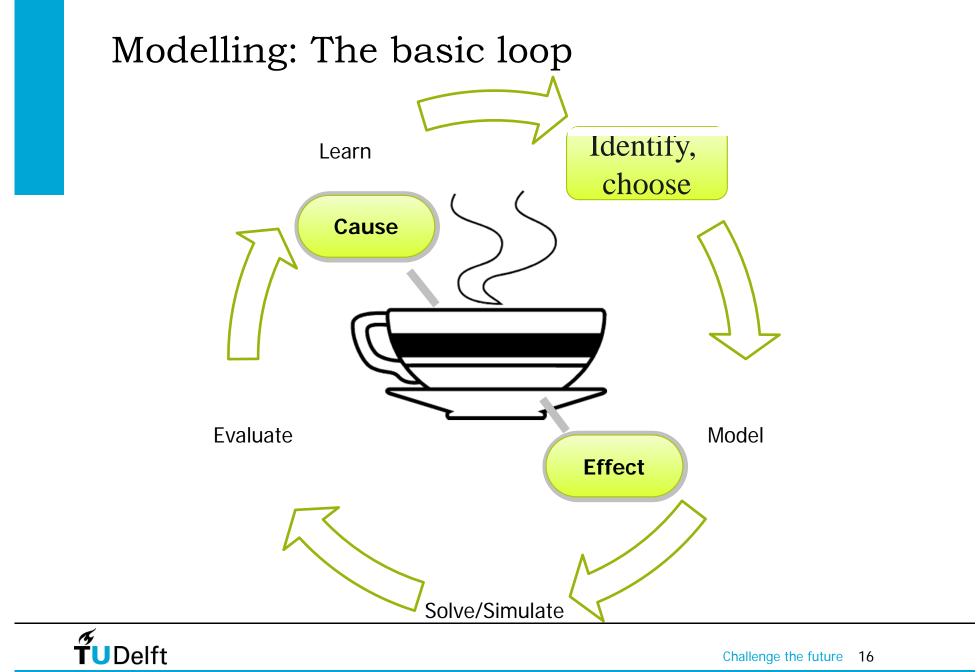
TUDelft

Modelling-simulation-design

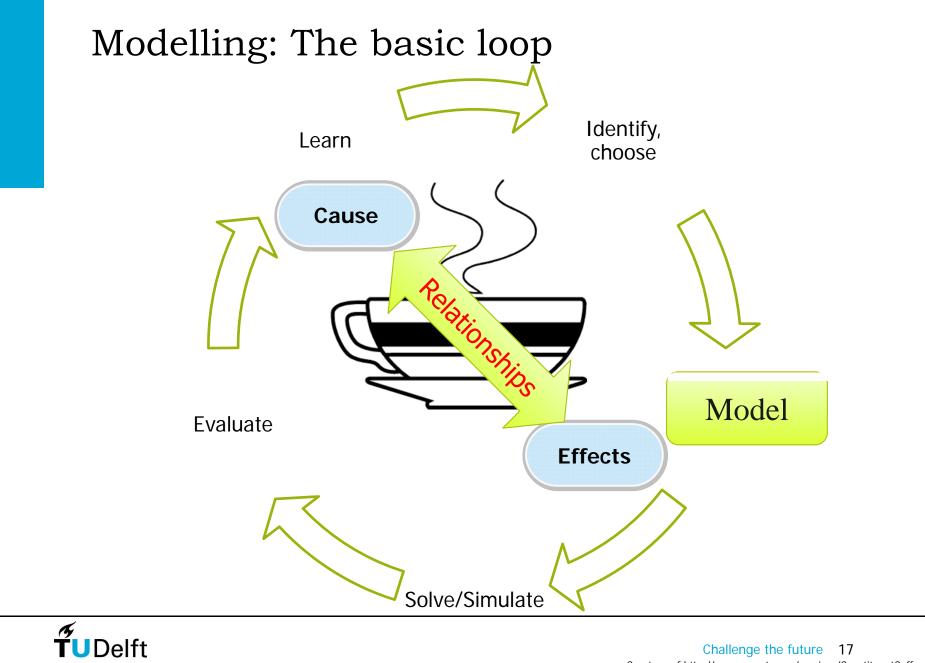


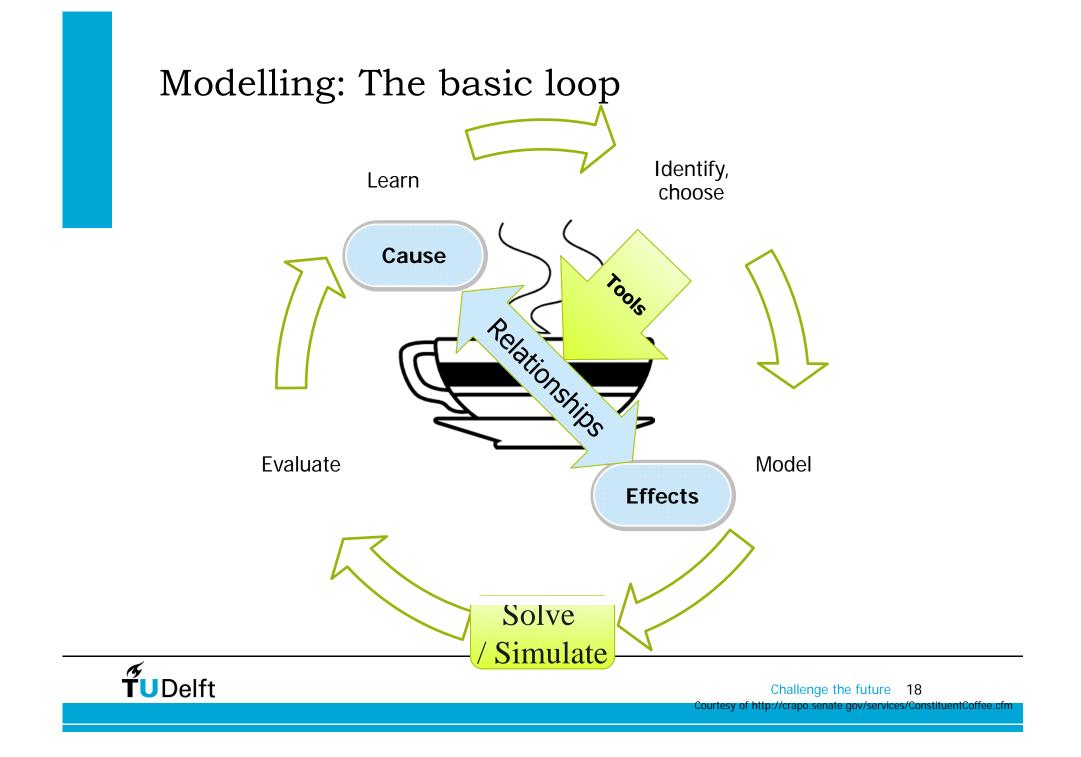
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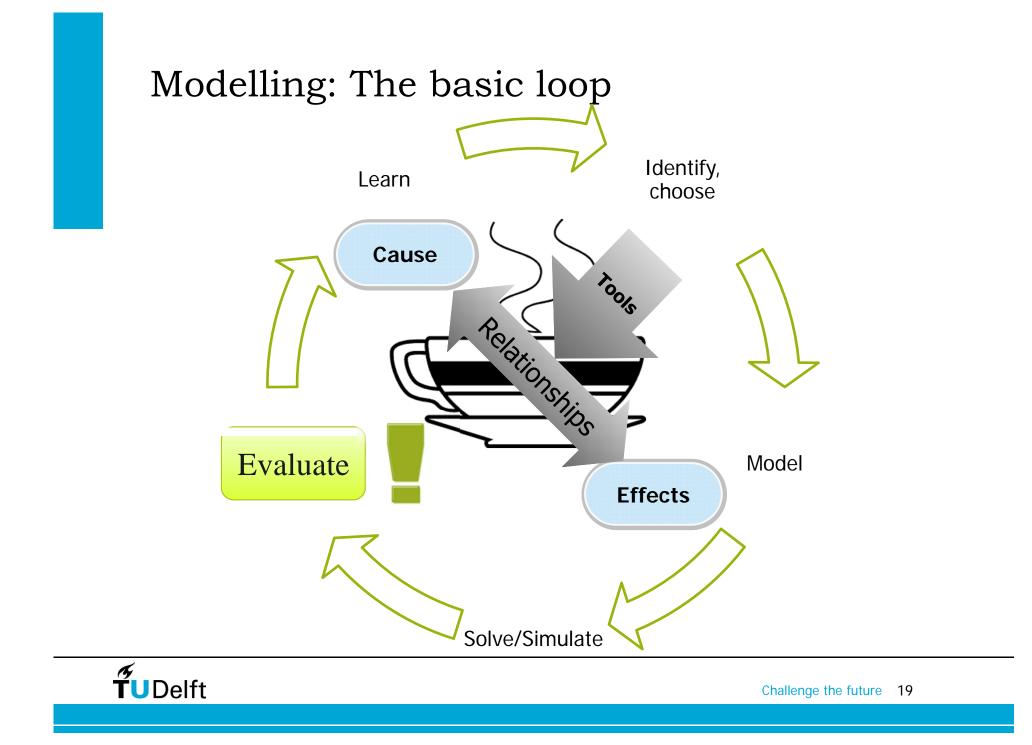


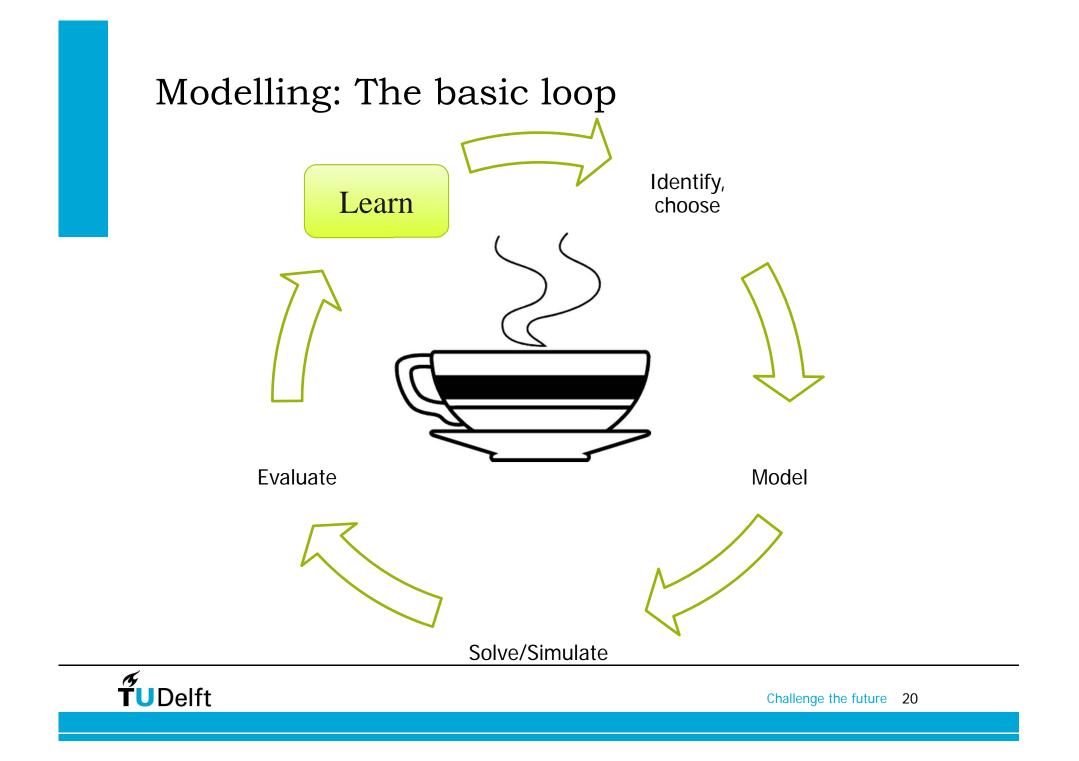


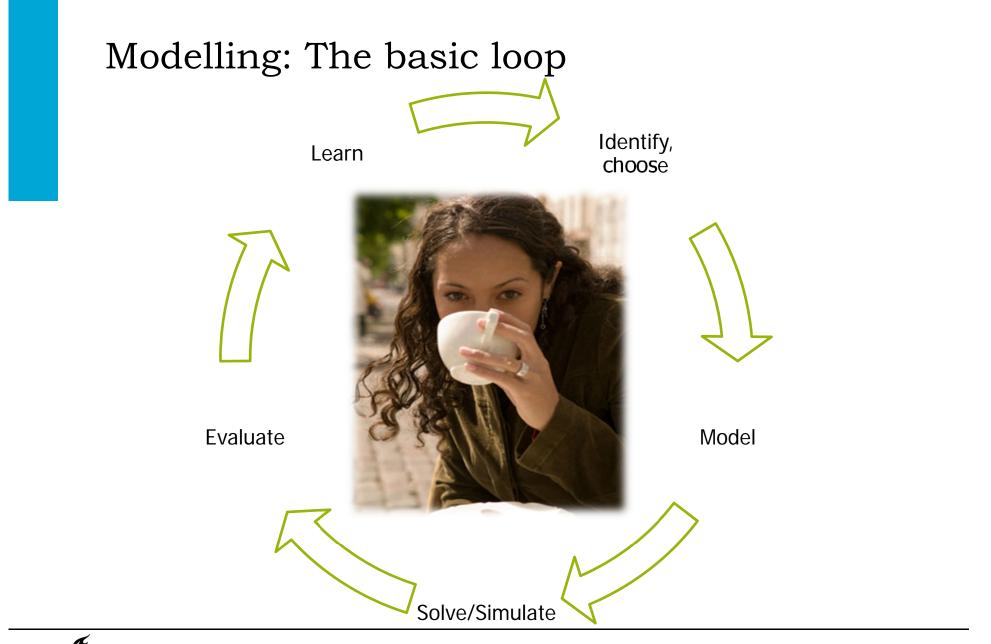
Courtesy of http://crapo.senate.gov/services/ConstituentCoffee.cfm









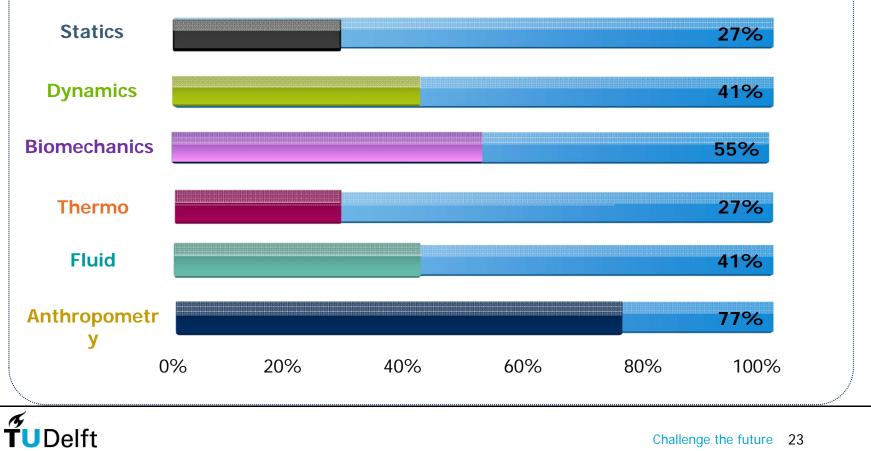


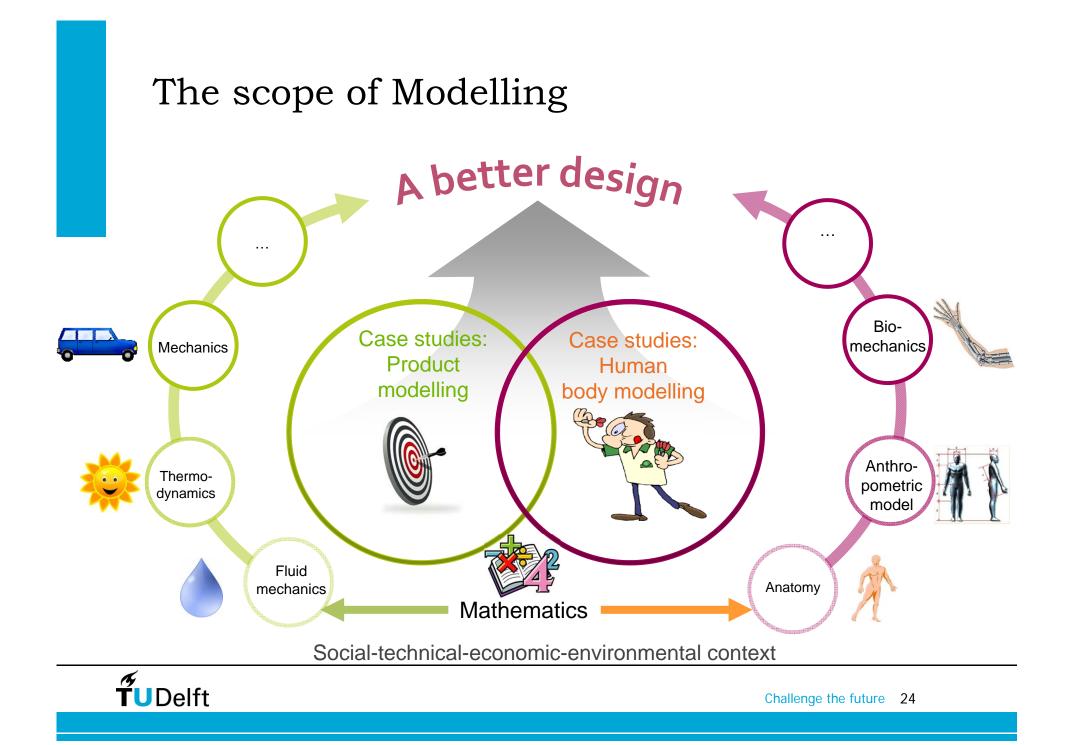
Content brief



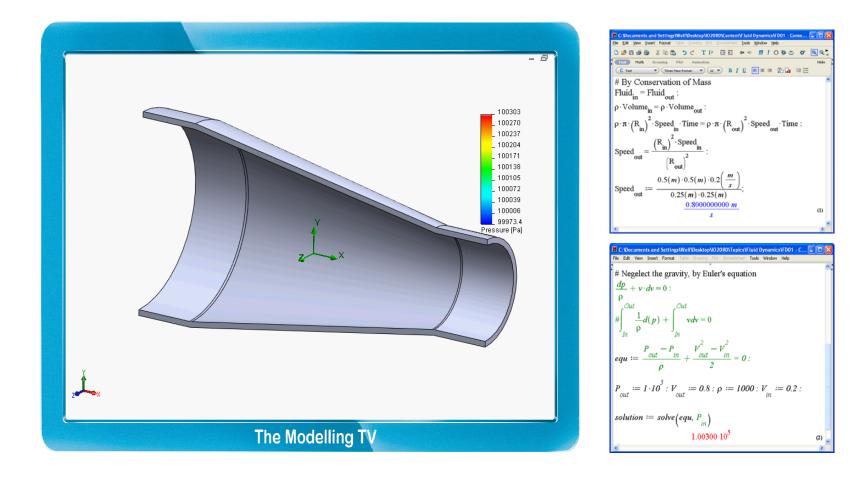
Case studies: Accessible knowledge with a vision

2012 ~ 2013 Advanced Embodiment Design (Many projects cover several disciplines)





Case studies: Accessible knowledge with a vision





Reflections





curiosity is fun

knowledge is power



science is easy

experience can be harnessed

hard work is the way to success *computers* are tools

modelling is the way to wisdom



Upcoming on Thursday



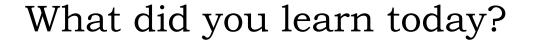
On April 25, 2013, we will design:

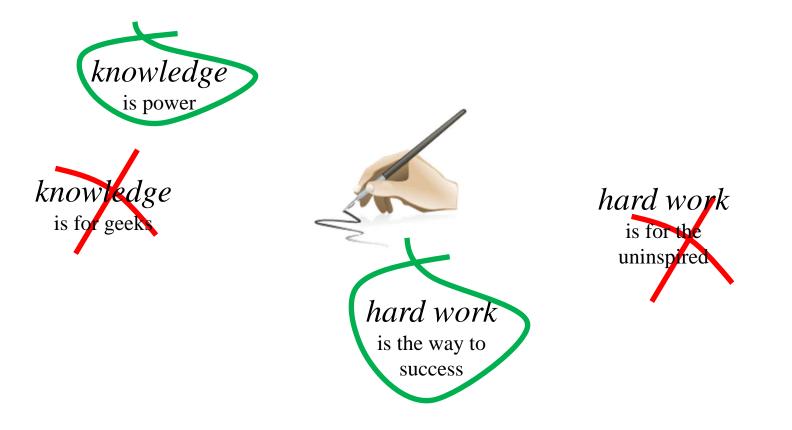




Questions!





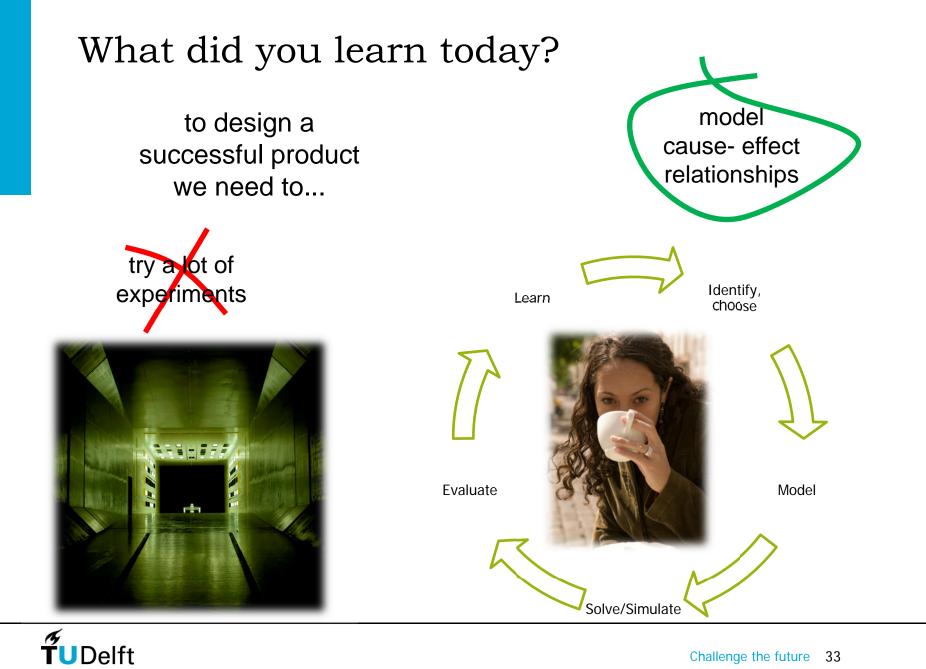






What did you learn today?





Succes Modelling is the way of thinking

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