

Catherine Willems And Kristel Peters



The human foot is highly **complex**

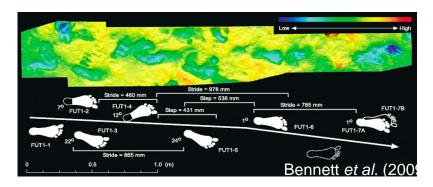
26 bones (+ sesamoids)

- > numerous ligaments
- > numerous intrinsic muscles
- > numerous extrinsic muscles





The human foot is important and one of the **key adaptations** in human evolution



Ileret footprints (Kenya, 1.5 MYA) "oldest evidence of an essentially modern human–like foot anatomy" (Bennett *et al.*, 2009, Science)















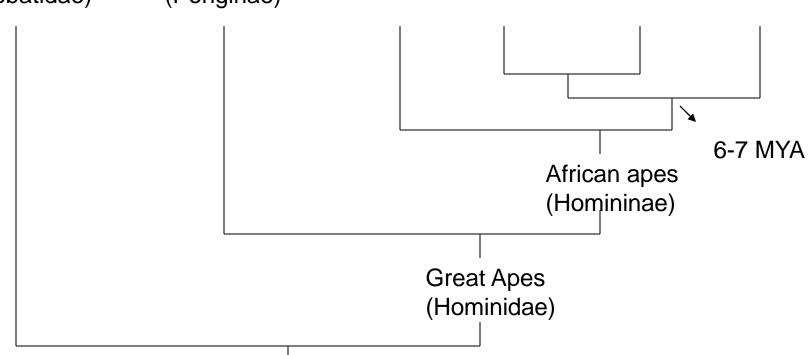


Gibbons (Hylobatidae)

Orang-utans (Ponginae)

Gorilla Chimpanzee Bonobo

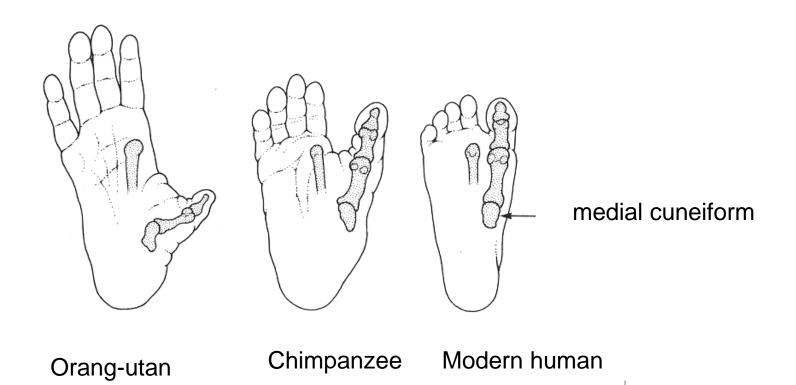
Hominini



Hominoidea

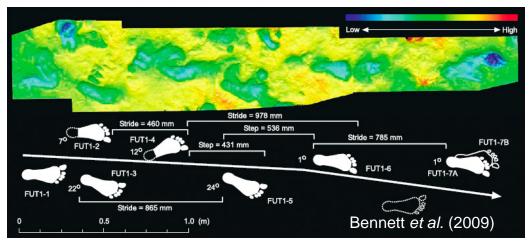


- ➤ Ankle morphology
- > Hallux as propulsive structure (adducted & robust)





State of the art knowledge on foot function is heavily based on Western subjects.





Ileret footprints (Kenya, 1.5 MYA) "oldest evidence of an essentially modern human–like foot anatomy" (Bennett *et al.*, 2009, Science)

Oldest shoe found approx. 8300 years old.





Ötzi the Iceman, a 5,300-year-old frozen mummy discovered in 1991 in the Italian Alps, wore remnants of deer- and bear-leather shoes with upper and lower parts held together by straps.







OTSI'S SHOES DATE BACK TO 5300 YEARS AGO MEN STARTED TO WEAR SHOES ABOUT 40.000 YEARS AGO













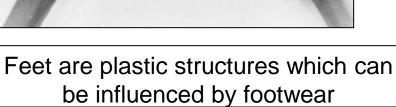




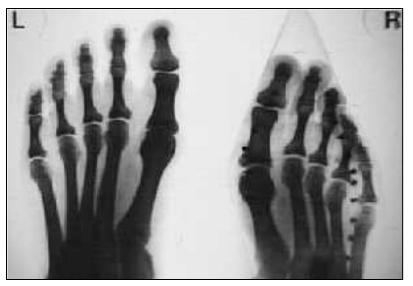
Foot shape - Foot function

































Future Footwear

a six year PhD project in the Arts funded by the University College Ghent

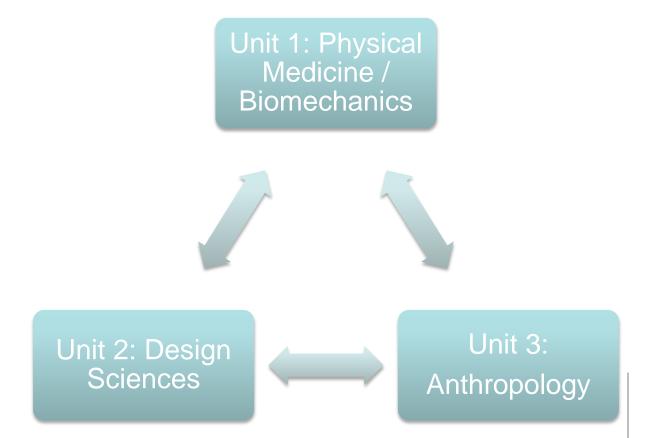
Supervisors:

Prof. dr. Gaetane Stassijns (University of Antwerp)
Dr. Kristiaan D'Août (University of Antwerp)
Prof. dr. Hendrik Pinxten (Ghent University)
Dr. Dirk van Gogh (University College Ghent)



'Future Footwear' wants to develop a design toolbox for the efficient creation of footwear.

The set-up of the research is interdisciplinary with input from:





2 cases deliver the necessary data to create a toolbox for the efficient creation of footwear:

The selection of the cases is based on:

1/ surface, 2/ climate and 3/ the relation the community has with the environment.





hapur footwear

Vegetable tanned buffalo hides India Sami Boots

Vegetable tanned reindeer hides Finland Contemporary fashion footwear Europe



REINDEER BOOTS / NUVTTOHAT





• THE ANATOMY OF THE FOOTWEAR

• THE ART OF MAKING THE FOOTWEAR

• THE ART OF WEARING THE FOOTWEAR































01/30/2011





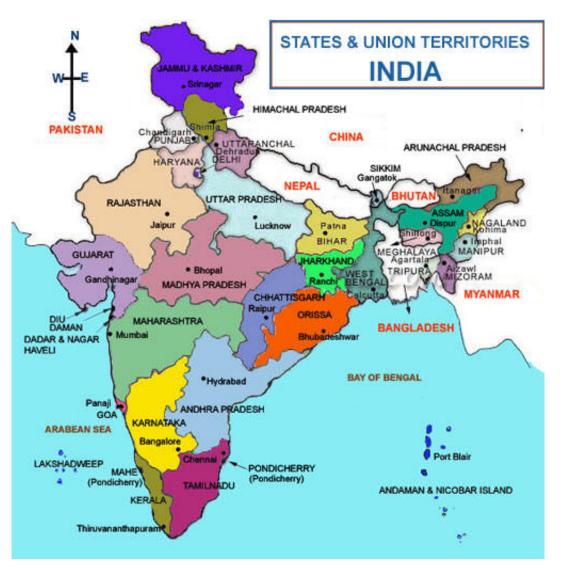














Walking in a cross-cultural perspective - Kolhapur footwear.

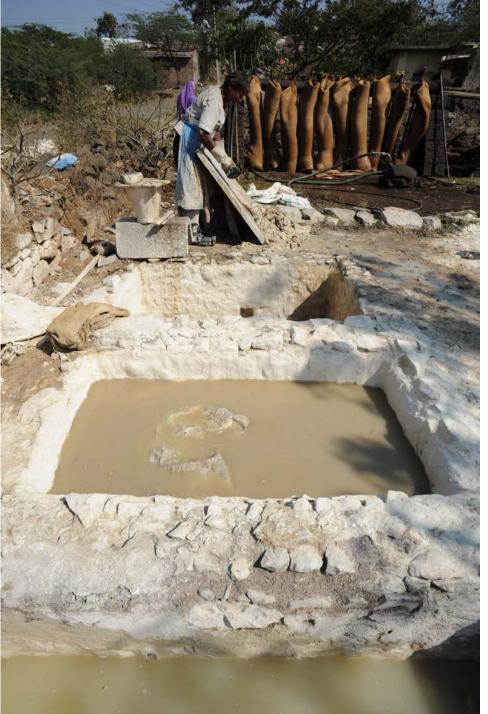
February – March 2010























Show Paris 2009 Walter van Beirendonk





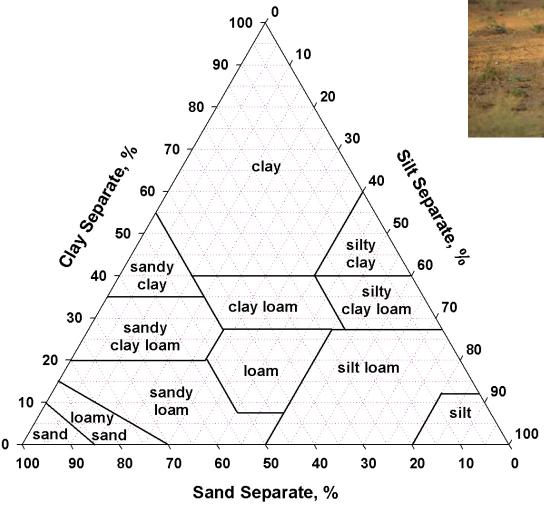


Collection 2009 with Toehold / Catherine Willems





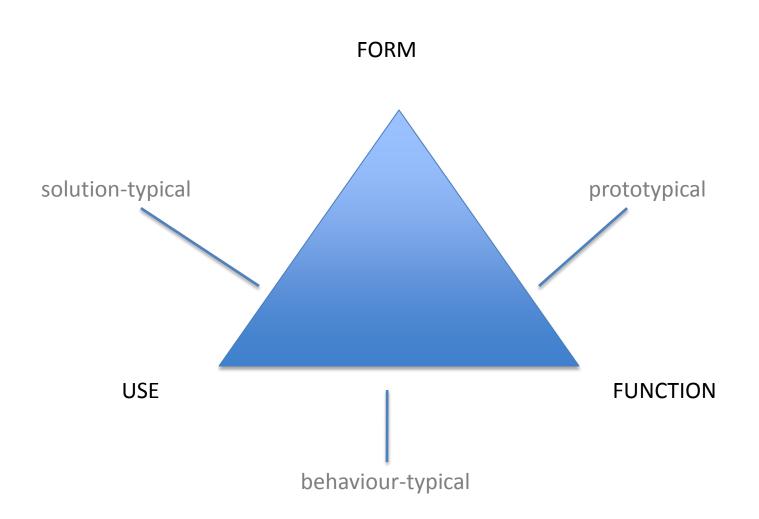
USDA Texture Triangle

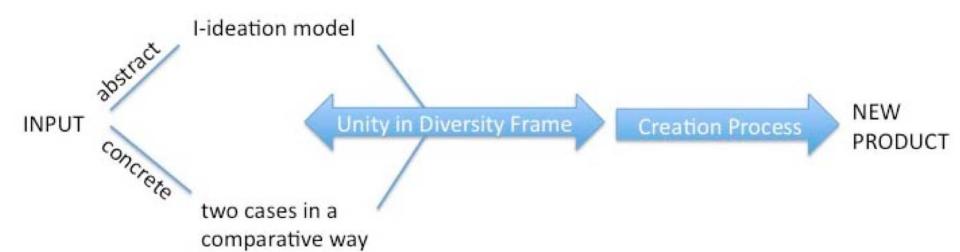




Clayish soil

DESIGN AS A METHOD OF THINKING











































THE WORKSHOP

SOME TEHCNICAL SKILLS

- 1/ OPANCA CONSTRUCTION
- 2/ KOLHAPURI CONSTRUCTION
- 3/ MOCCASIN























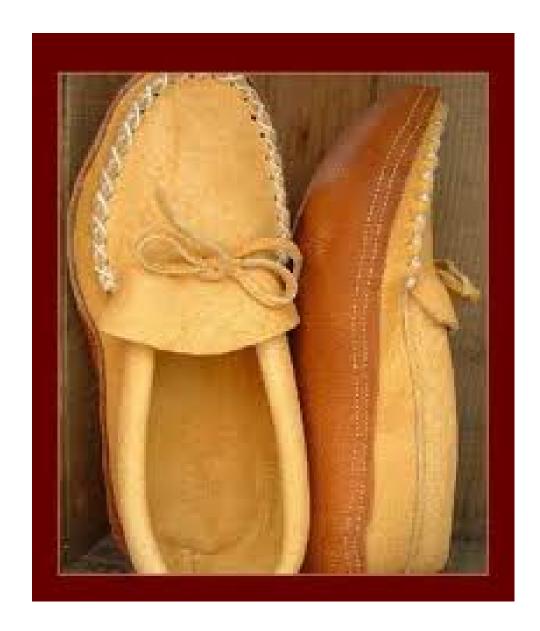
















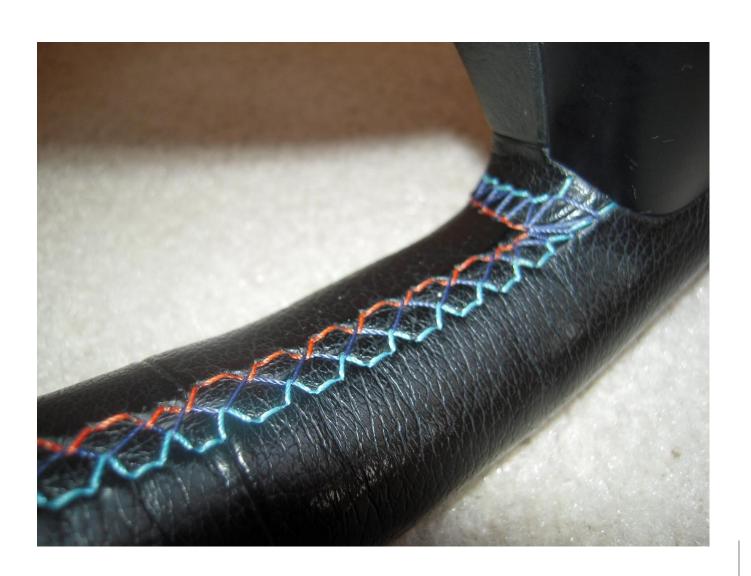














REBUILDING A SHOE

- 5 GROUPS
- 5 ATMOSPHERES
- 10 PROTOTYPES OF SHOES



