



Intelligent chair development for the healthy office work

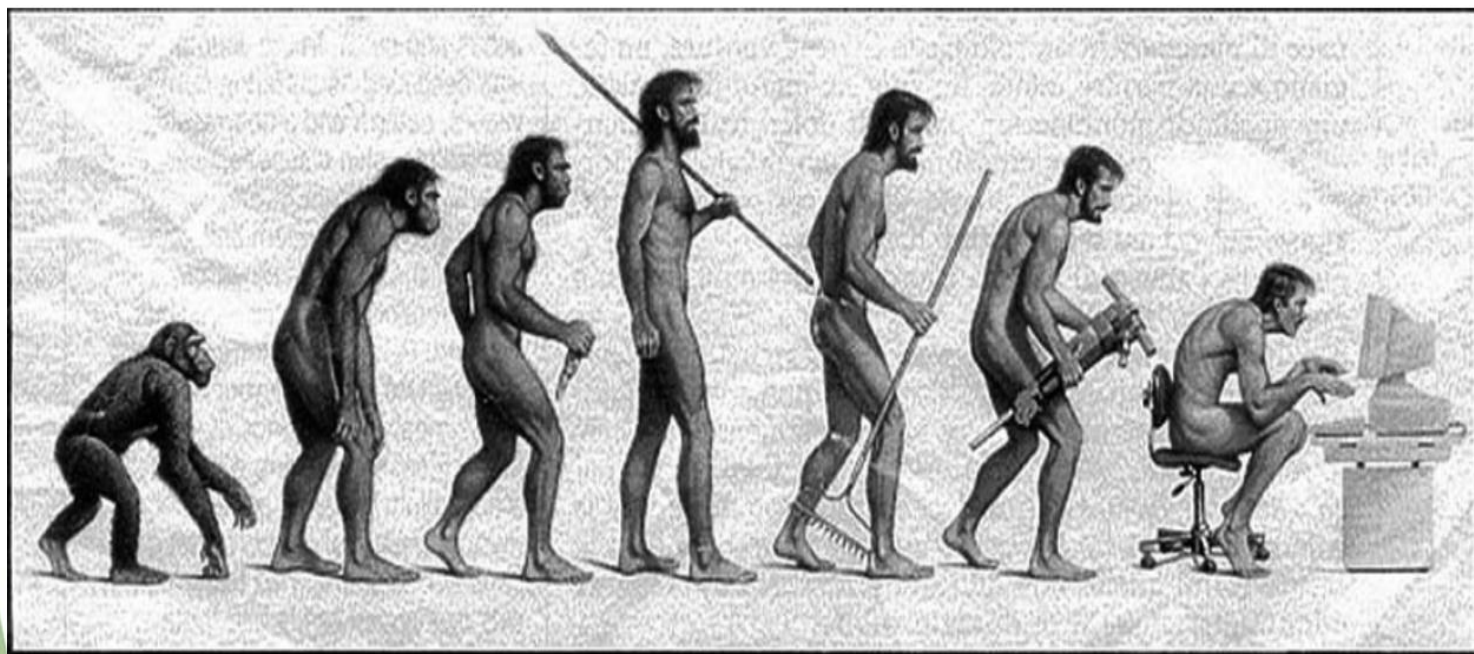
- *The Post-Human Era* -

Levente DÉNES PhD.

University of West Hungary – Faculty of Wood Sciences

Human being performed...

From *Homo Sapiens* to *Homo Sedens*



Problems of the seating posture

- Static: low muscle activity
 - Higher heart load
 - Fewer blood for muscles, brain
- Some muscles in continuous strain
 - Fatigue, pain
 - Myalgic knots
 - Neck and head ache
- Asymmetric load for spine
- Deformations
- Disorders



Main goal of the research:
development of an intelligent work chair
assuring a healthy seating and which is
capable to fit to individual needs

By:

Ergonomic analysis of the human
body motion and body load

Static and dynamic modelling of
seating and

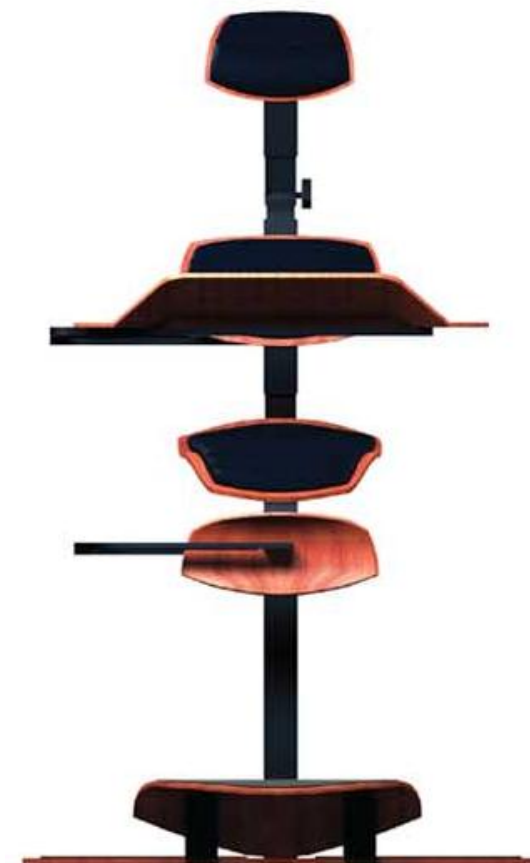
Implementing intelligent solution to a
more healthy seating



Solution: half standing - half seating posture



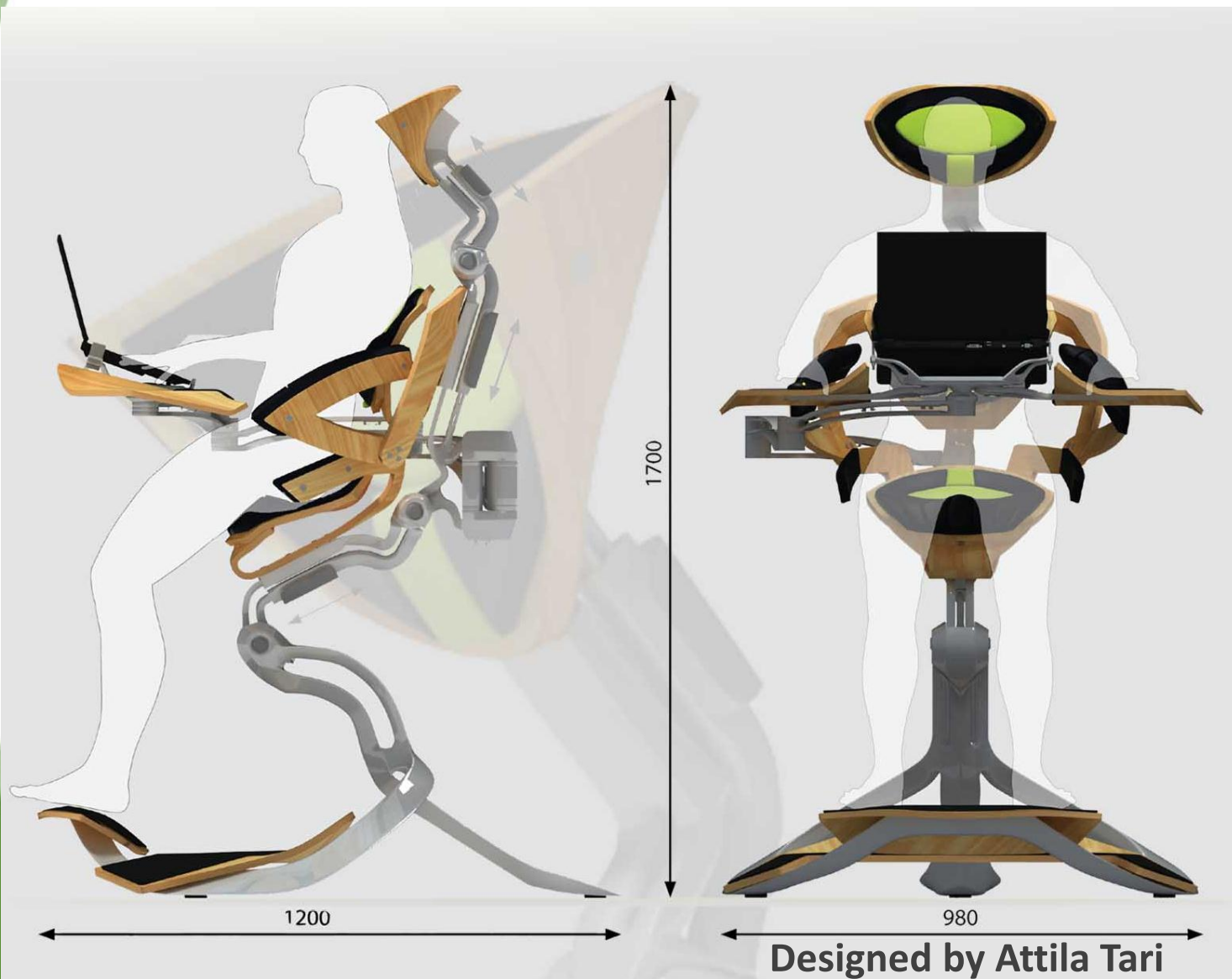
The first prototype:



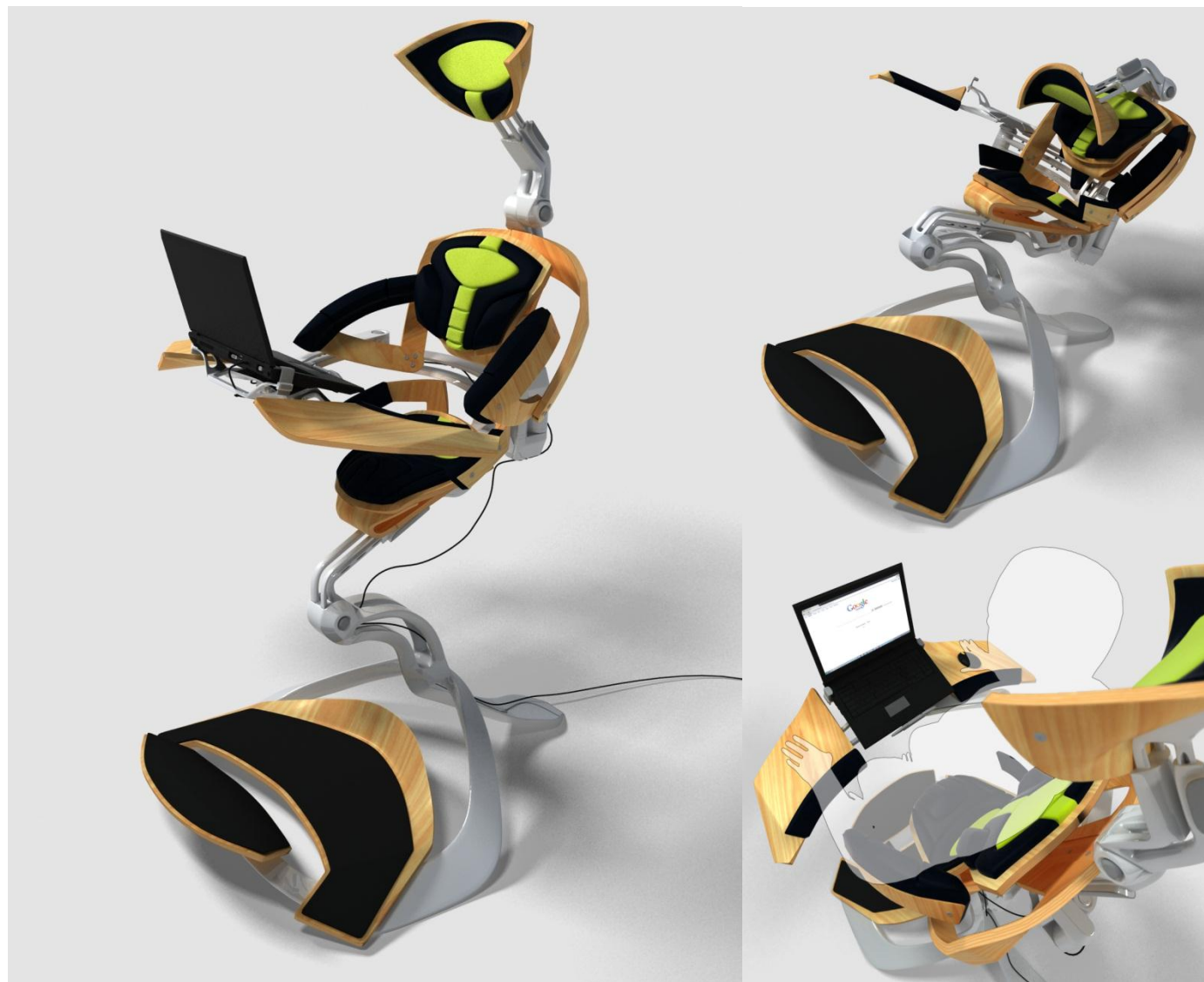
Designed by Attila Tari



SPINE – The Post Human Era



SPINE – The Post Human Era



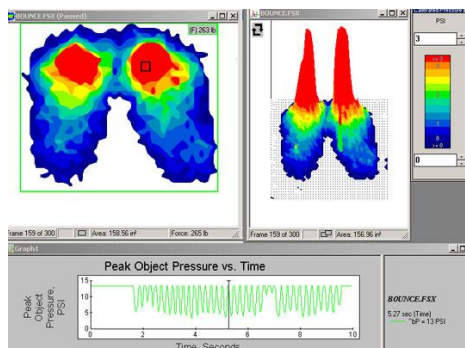
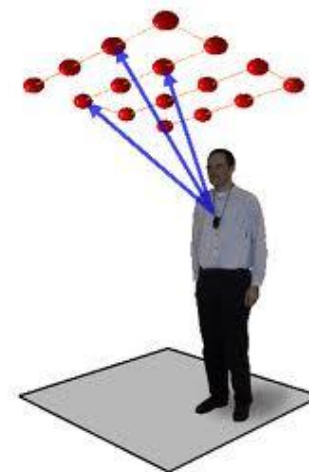
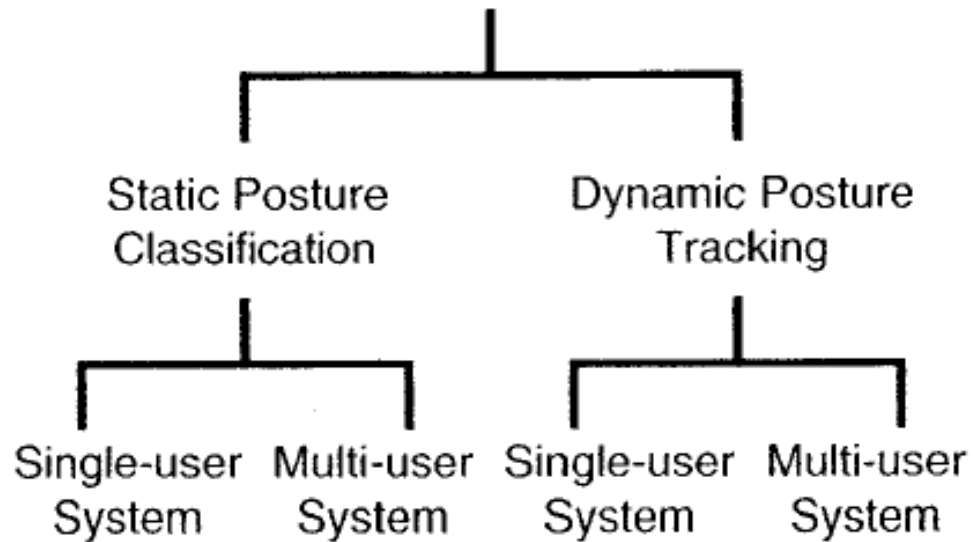
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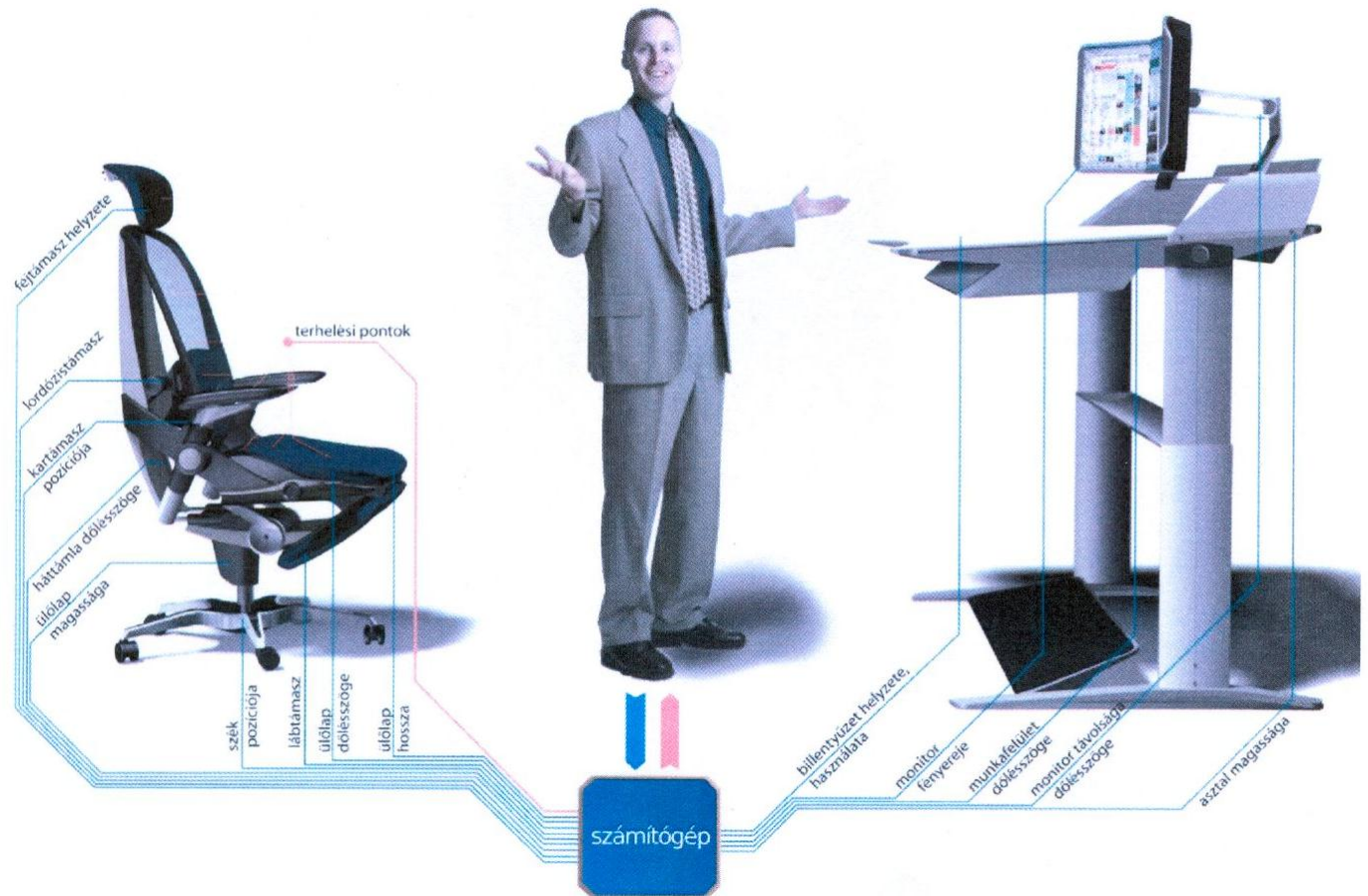
Measurement system:



Sensing Chair




Intelligent chair



- Not just reactive but active, too
- Continuous communication with the user, work place





Thank you for your attention !
Did you have a comfortable seat?