



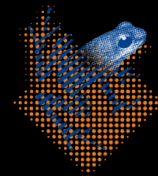
MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL

ANNEMARIE DE WITTE

Verdediging
25 mei 2018, VU Amsterdam

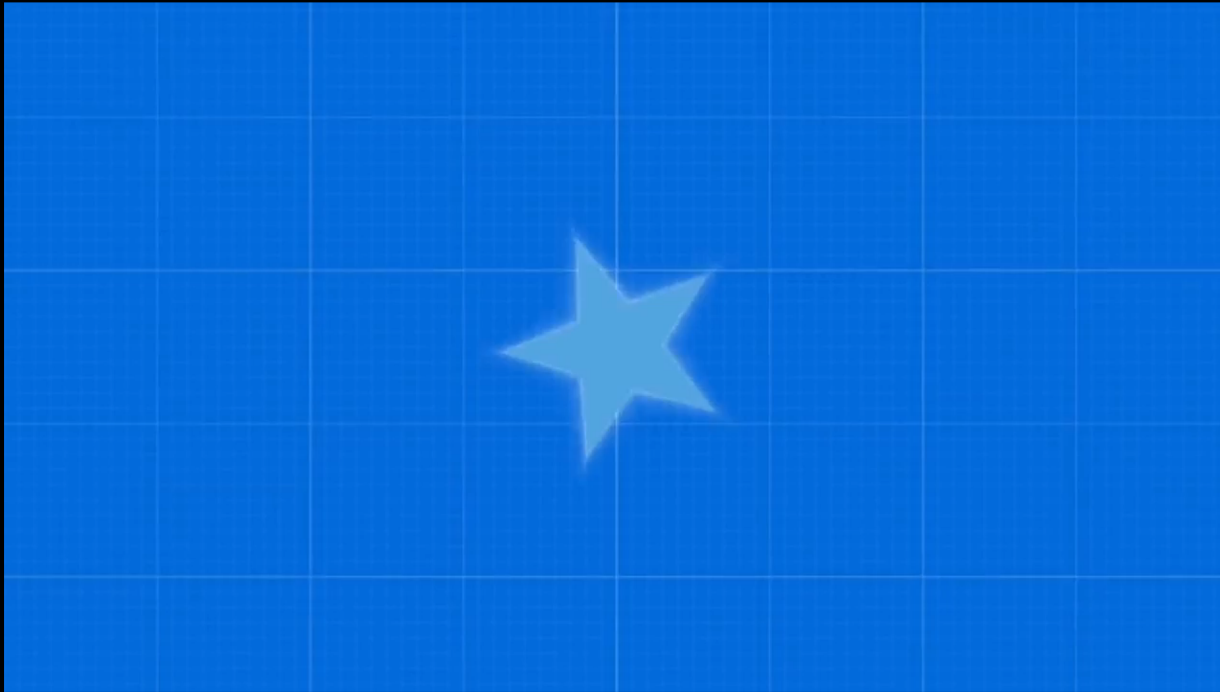
Promotoren: DirkJan Veeger & Luc van der Woude
Co-promotoren: Marco Hoozemans & Monique Berger

THE HAGUE
UNIVERSITY OF
APPLIED SCIENCES



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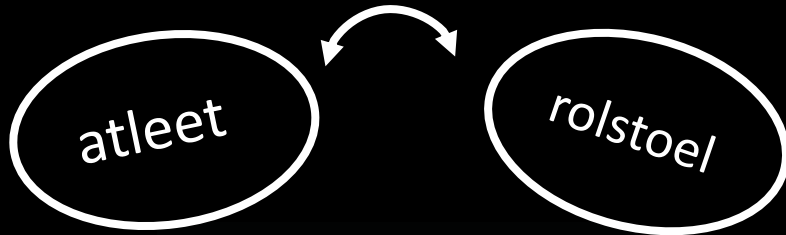
MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL



Klokko, Sportrolstoel 3000, het klokhuis (7-9-2016)



MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL



MOBILITY PERFORMANCE



definiëren

kwantificeren

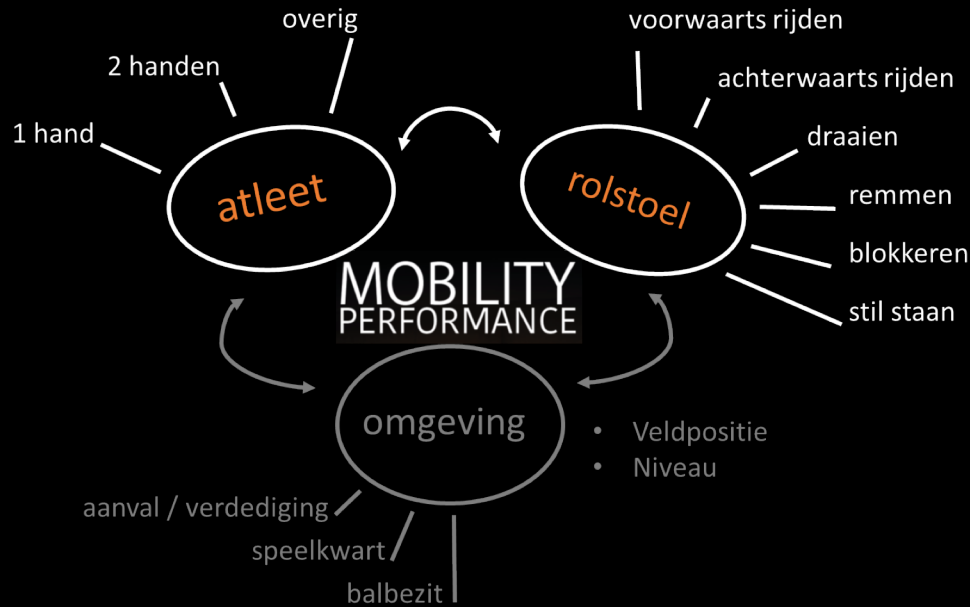
simuleren

voorspellen

optimaliseren



MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL



DEFINIËREN

kwantificeren

simuleren

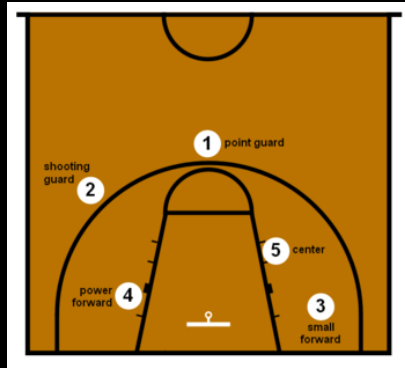
voorspellen

optimaliseren





MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL



definiëren

KWANTIFICEREN

simuleren

voorspellen

optimaliseren

Uitkomsten observatie + sensoren

Wheelchair Mobility Performance Test

o.a. - 12 meter sprint, 3-3-6 meter sprint, "turn-on-the-spot" rechts & links, combinatie taak

definiëren

kwantificeren

SIMULEREN

voorspellen

optimaliseren



MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL



definiëren

kwantificeren

simuleren

VOORSPELLEN

optimaliseren



MOBILITY PERFORMANCE IN WHEELCHAIR BASKETBALL

↕ Zithoogte

7.5% ↓

+ Mobility Performance

definiëren

kwantificeren

simuleren

voorspellen

OPTIMALISEREN



Passing (sport) rolstoel

Vervolgonderzoek ZonMw

**WheelPower: wheelchair sports and
data science push it to the limit**

a.m.h.dewitte@hhs.nl

MOBILITY PERFORMANCE **IN WHEELCHAIR BASKETBALL**

