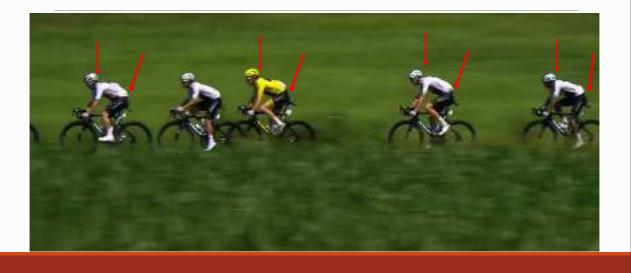




Tour 2018



Position Geraint Thomas



Position Geraint Thomas





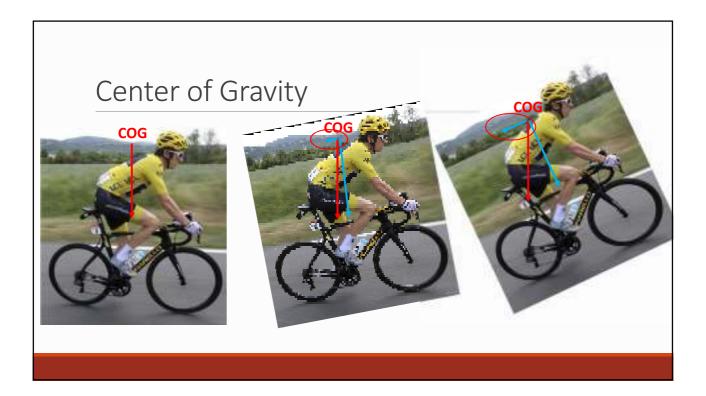
Visual analysis

Anterior position of the body on the bike

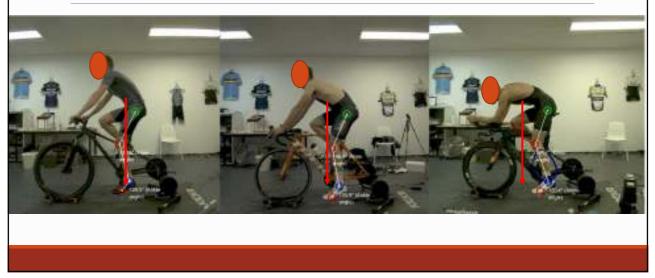
- Limited support on the saddle. Only anterior support.
- Small shoulder angle

• ...

Could this anterior body position have a positive effect on the uphill cycling performance?



Position COG to the bike







Climbing



Necessary counteraction of the arms: pulling at the handle bar



Pressure on the arms



Climbing – COG in front of bottom bracket



Limited science

Fonda et al., Journal of electromyography and kinesiology, 2011

- Study muscle activity patterns

- 3 conditions
- Level
- 20% slope
- 20% slope with adjusted saddle position (saddle forward and saddle 20% anterior tilt = 11,3° angle)

- Conclusion:

- Significant difference in timing and intensity of especially muscles that cross the hip joint (RF, BF, GM) during the 20% slope.
- These differences were counteracted with the adjusted saddle position
- The use of the adjusted saddle position during the 20% slope was <u>perceived positively by all cyclists</u> regarding both comfort and performance.

