Reference:

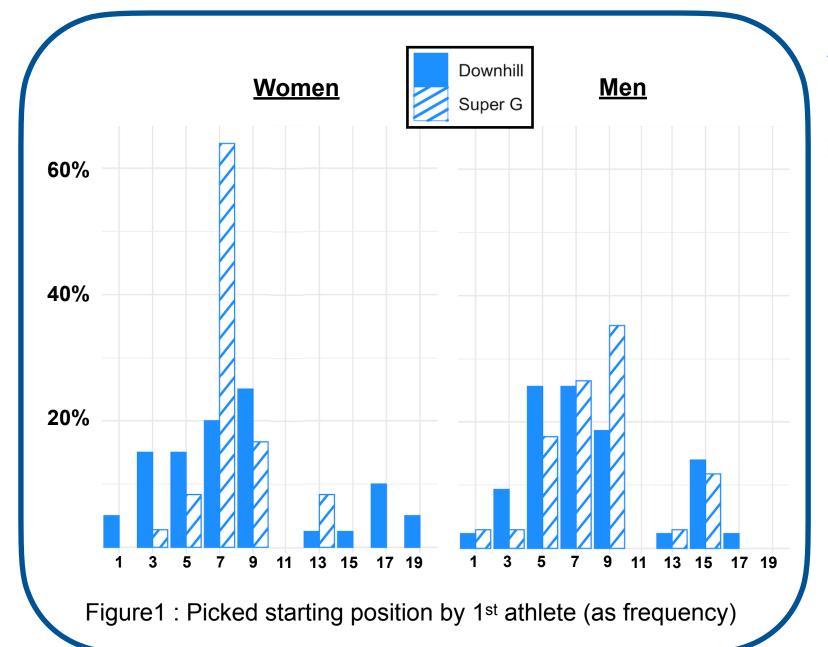
Kolbinger, O., Kolbinger, E., Beckmann, J., & Lames, M. (2023). Impact of the revised starting lottery in the alpine speed events on performance of the top athletes. *Current Issues in Sport Science (CISS)*, 8(1), Article 005. https://doi.org/10.36950/2023.1ciss005

Impact of the revised starting lottery in the alpine speed events on performance of the top athletes



Otto Kolbinger, Elisabeth Kolbinger, Jürgen Beckmann & Martin Lames

Before the 2016/17 season, the FIS conducted major changes to its starting lottery. As part of this change, the top seeded athletes from then on were able to pick a starting position. This affected three intriguing research questions that we examined based on a sample of 322 races (17725 individual performances) from 10 seasons:



1st: Which starting positions do top athletes prefer?

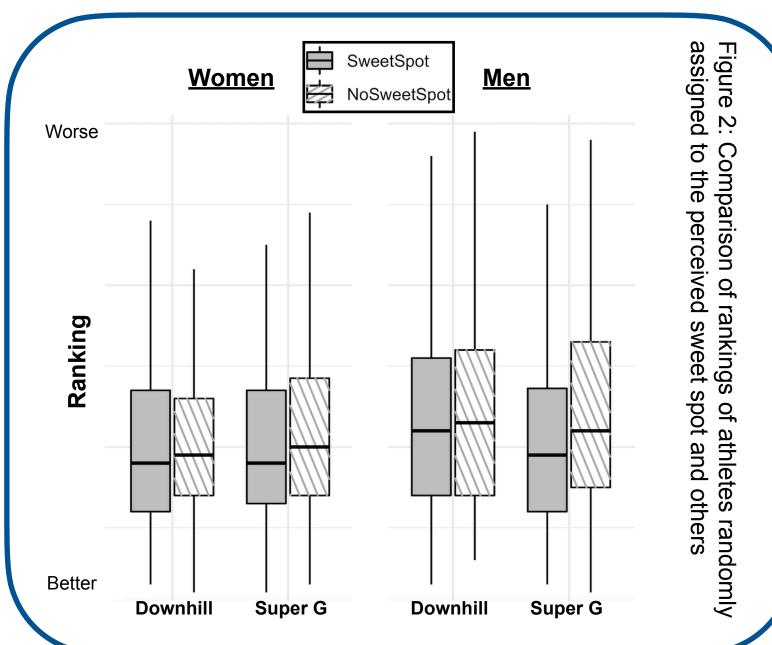
- Top athletes could pick an odd nr < 20
- Top athletes showed heavy preference to start at position 5, 7 or 9 (perceived sweet spot)
- These positions have previously been starting positions for athletes with lower rankings



2nd: Are these starting position advantageous?

- FIS randomly assigned racers ranked 11-20 in WC to even nr ≤ 20
- Racers assigned close to perceived sweet
 spot, tend to perform better in speed events







3rd: With top athletes picking starting spots that seem to be advantageous, has there been a shift of competitive balance after 2016/17?



Slight increase of competitive balance

Top 7 in Super G performed significantly worse

Slight decrease of competitive balance

Top 7 in both speed disciplines performed significantly better



Athletes ranked 23-30 in WC performed significantly worse in all speed disciplines (Can not be assigned to starting positions 1-7 anymore)