OVERVIEW

- PowerPod measures power by opposing forces
  - Wind, hills, acceleration, friction
- When road roughness increases, it takes more effort to pedal (i.e. more friction)
- In PowerPod, friction (rolling resistance) is assumed to be constant. This is equivalent to saying that road surface roughness does not change
- So, PowerPod tends to read low watts whenever road roughness is severe (i.e. chip-seal, gravel, chopped concrete)
ERRORS CAUSED BY ROUGHNESS CHANGES
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83 Watt Difference

*PowerPod reads low when roads are sufficiently rough*
WHAT IS DCRR?

- DCRR = Dynamic Coefficient of Rolling Resistance
- New, proprietary Velocomp technology
  - Measure vertical road vibration
  - Interpret vibration measurements as road roughness
  - Convert road roughness measurements into rolling resistance
    - Dynamically adjust coefficient of road resistance (Crr) based on measurements

DCRR benefit is improved watts accuracy
DCRR POWER COMPARISON
DCRR WORKS!

PowerPod

DFPM

2 Watt difference
VERY ROUGH CONCRETE
VERY ROUGH CONCRETE
IN SUMMARY

• DCRR ADDS ACCURACY TO POWERPOD IN ROUGH-ROADS SITUATIONS
• FREE FIRMWARE UPGRADE FOR ALL POWERPOD USERS