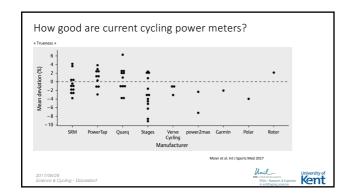


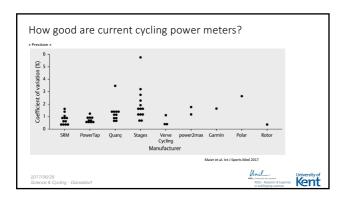


How accurate, precise and reliable are cycling performance data?

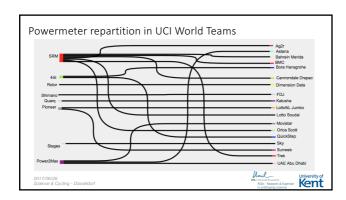
High Accuracy
High Precision
Low Blas
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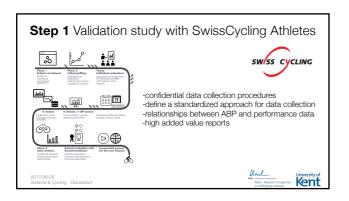
n	Manufacturer	Mean deviation (%)	Coefficient of variation (%)	Cadence (RPM)	
12	SRM	-0.5 ± 2.4	0.8 ± 0.4	83±14	Trueness
10	PowerTap	0.9 ± 2.1	0.8 ± 0.2	87±5	& Precision
11	Quarq	0.5 ± 3.0	1.3 ± 0.8	87±6	Precision
13	Stages Cycling	-2.9±3.9	2.0±1.4*	89±6	
3	Verve Cycling	-1.7±1.1	0.6±0.4	88±3	
2	power2max	-4.8±3.4	1.5±0.4	87±16	
1	Garmin	-2.0	1.6	86	
1	Polar	-3.9	2.6	93	
1	Rotor	2.1	0.4	84	
54	All	-0.9 ± 3.2	1.2 ± 0.9	87±8	
	es are presented as fferent from SRM ar			Maier et al. Int J Sports Med 2017	

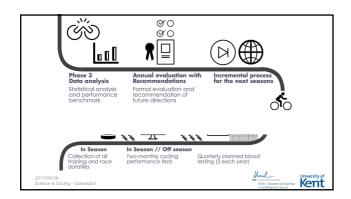


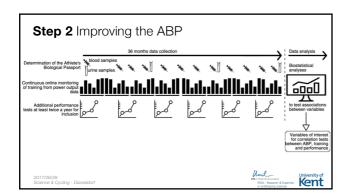


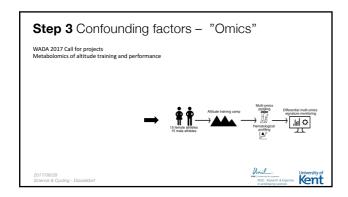












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Step 3 Confounding factors WADA Special Call Project				
Markers of erythropoiesis stimulating agents (ESAs) use and hypoxia				
2017/06/28 Science & Cycling - Düsseldorf	Milliamy Mill Learner REUS - Research & Expertise In artificiping sciences  Kent			
	in arribDoping sciences			
Step 3 Confounding factors  WADA Special Call Project				
Markers of erythropoiesis stimulating agents (ESAs) use and hypoxia				
2017/06/28 Science & Cycling - Düsseldorf	Mil. Library of Relationer REDs - Research & Expertise Rendering sciences Rendering sciences			
Power is a safety net for the riders!				
over 13 a salety fiet for the fluers!				

University of Kent

Help prevent false positive?
-doping = unethical benefits from training
-thresholds are not thresholds

Race vs. Training performance -protects racers reputation

Added value
-what is effective training?
-societal benefit



