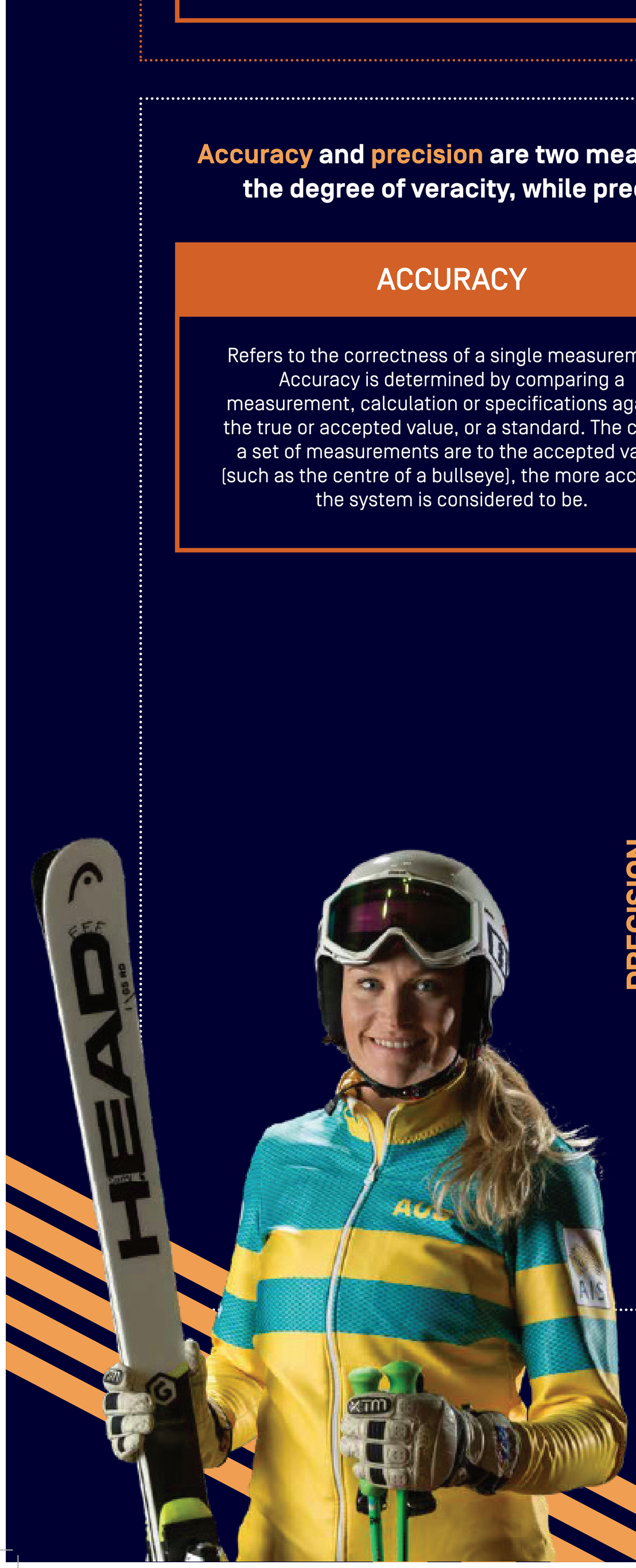
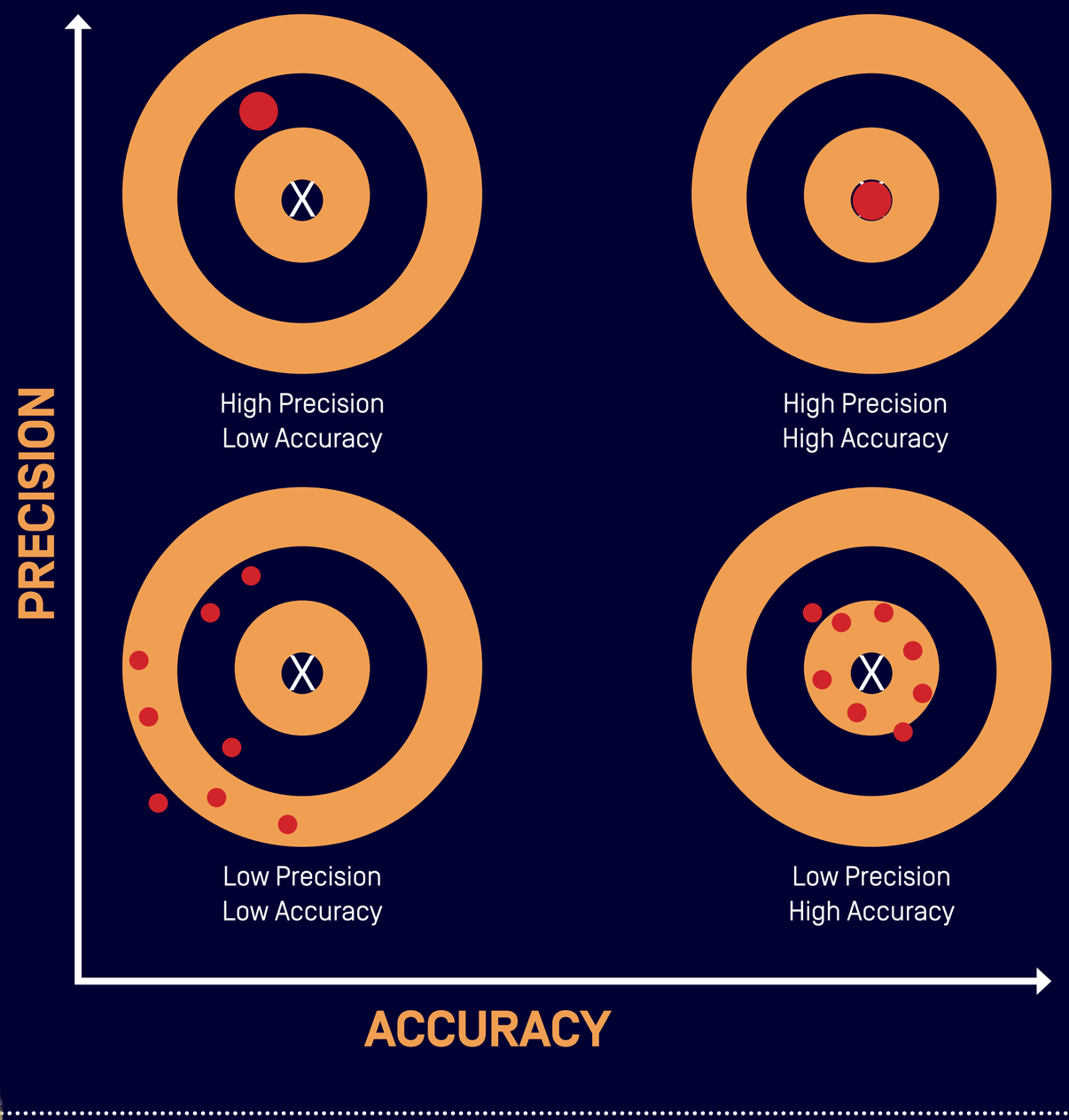
Reliability and validity are related, but mean different things. Both are concepts used to evaluate the suitability of methods and equipment to particular situations.

RELIABILITY	VS	VALIDITY
Refers to how consistently a method or a piece of equipment measures something. If results using the same method and same equipment under the same circumstances are consistently repeated, then the measurements are considered to be reliable.		Refers to how accurately a method measures what it is intended to measure. If a method is considered to be valid, that means it produces results that are similar to established or known values.

Accuracy and precision are two measures of observational error. Accuracy is considered the degree of veracity, while precision is considered the degree of reproducibility.

ACCURACY	VS	PRECISION
Refers to the correctness of a single measurement. Accuracy is determined by comparing a measurement, calculation or specifications against the true or accepted value, or a standard. The closer a set of measurements are to the accepted value (such as the centre of a bullseye), the more accurate the system is considered to be.		Refers to the degree to which an instrument or process will repeat the same value. Precision is how close or dispersed the measurements are to each other, regardless of whether or not any of them are close to the true value. A test or protocol, or piece of equipment producing a repeat set of results is considered precise if the standard deviation is relatively small.





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