



Hypothesis Testing

Inferential approaches

What are the key points?

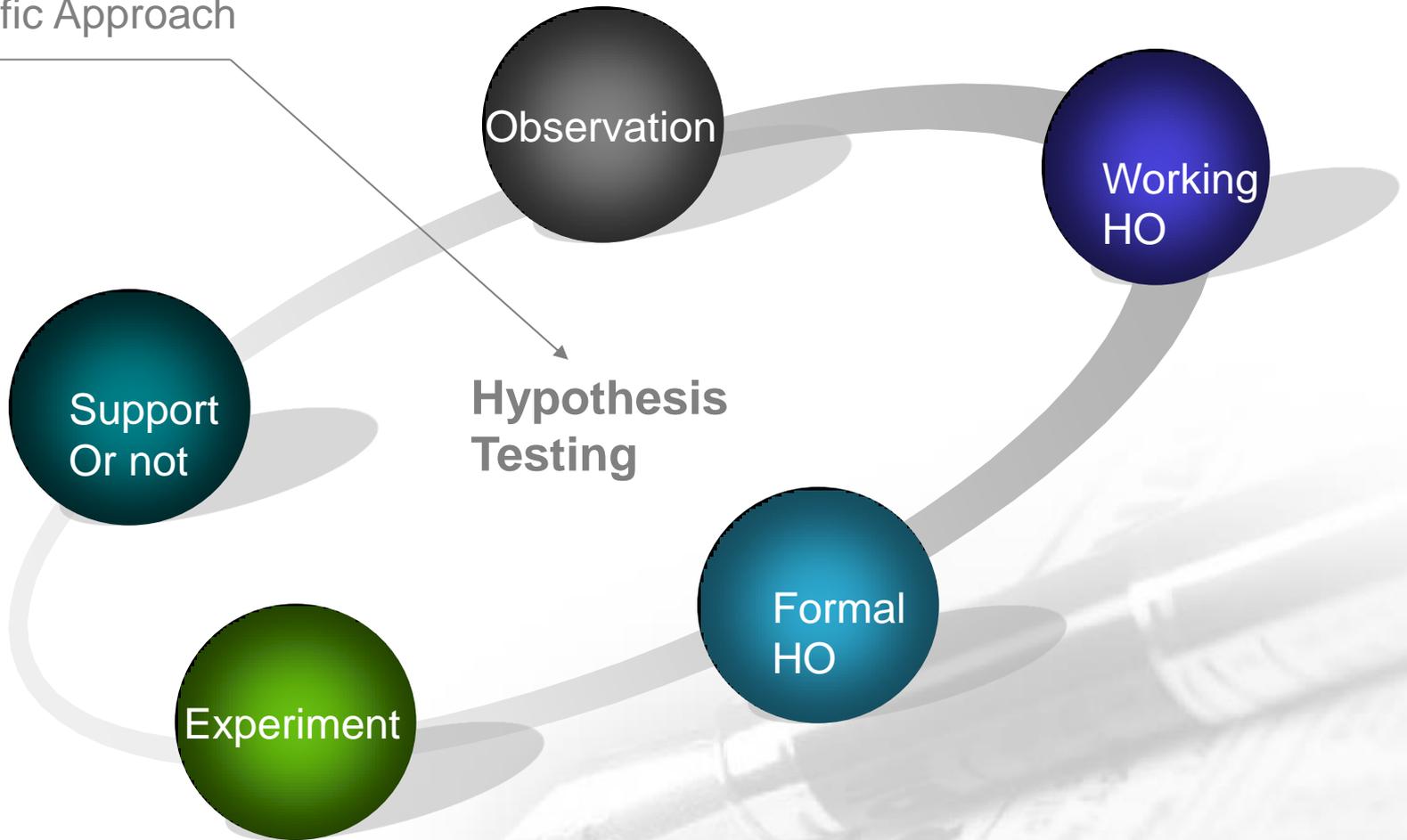
- Probability of an outcome
- Chance factors
- Experimental factors
- What if the treatment made no difference at all?
- Would we still find this same outcome?
- Did the treatment work?



If the probability of error is low, we reject chance factors and assume that our hypotheses and theory are supported. We reject the null. are

The Cycle

Scientific Approach



Two Hypotheses

- The Null hypothesis [H^0]
- The Research hypothesis [H^1]
- H^0 states there is no effect
- H^1 states that there is an effect
- We test the null because it offers more precision

H_0

There will be NO significant difference in second year GPA based on secondary preparation.

H_1

There will be a significant difference in second year GPA based on secondary preparation.

Is there a difference

