Web Resources for Interactive Probability Instruction
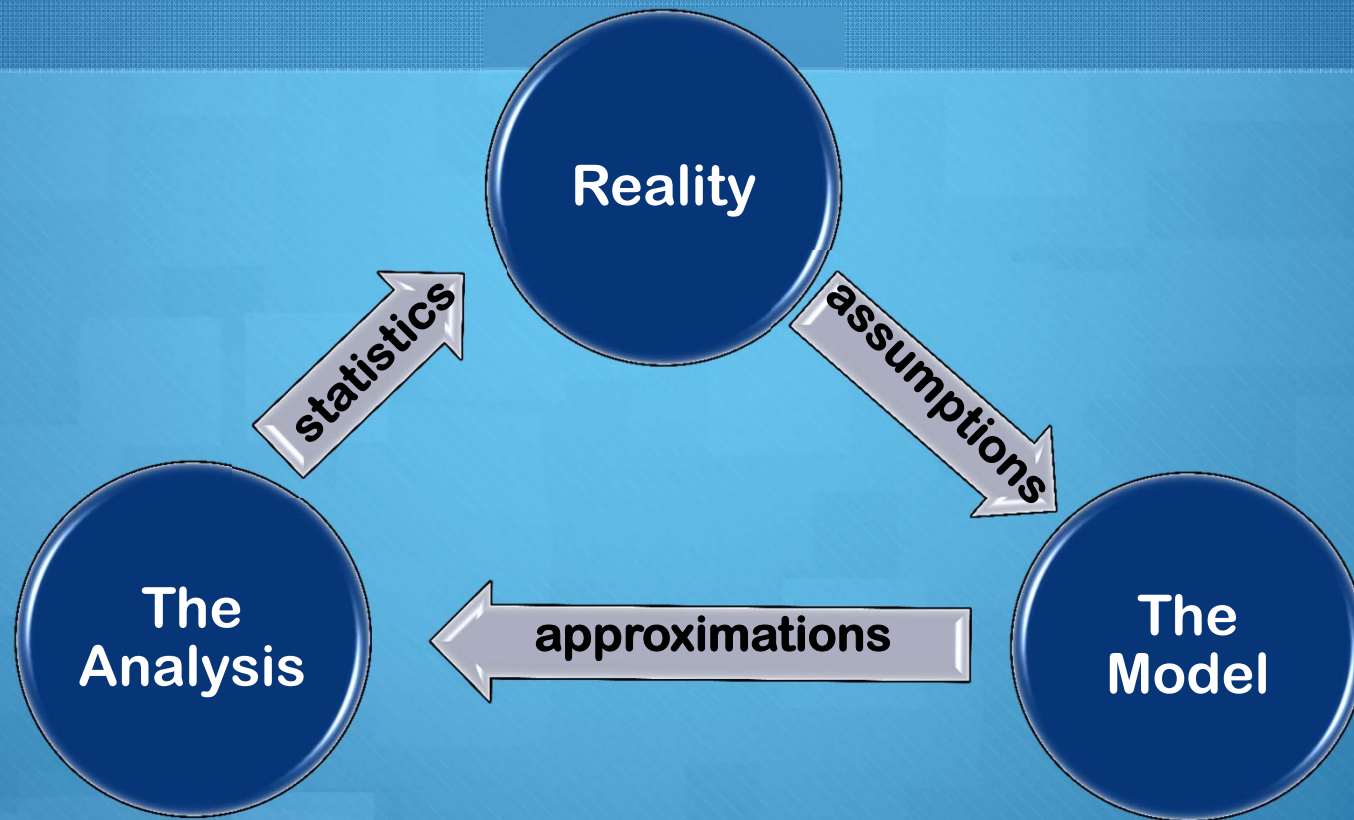
Ivo Dinov, UM
Dennis Pearl, OSU
Kyle Seigrist, UAH

www.distributome.org/meetings/eCOTS_2014
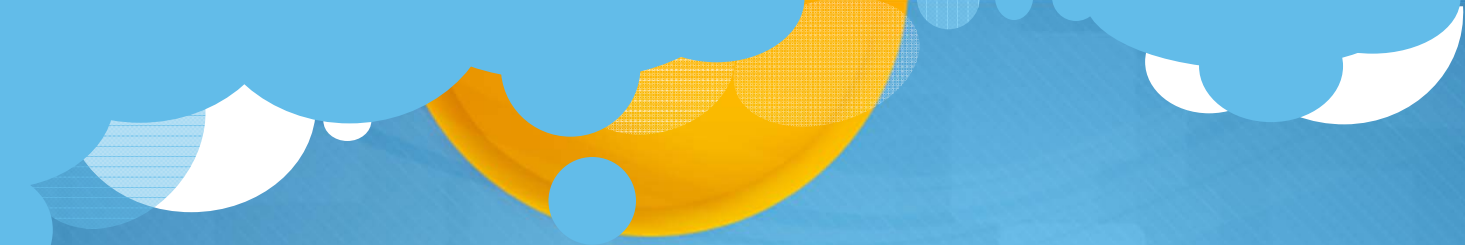
A Paradigm

Questions to ask (to understand how well probability statements reflect reality)

- What assumptions are being made? Are they realistic?

- Can model deviations from reality be quantified?

- What approximations are being made?

- Are they accurate? Are they necessary?

- Do data agree with model predictions?

- Does the model need to be refined or simplified?

An Active In-class Review: The Jigsaw

- Teams work together on solving a set of problems. For example – problems in assigning models to real situations from the game database

- New teams are formed taking one member from each original team.

- Members of the solving team must explain the solution to their problems to their new team.

Follow-up Activities

- Follow in-class Jigsaw review with a follow-up activity using Distributome; SOCR; or Virtual Lab tools

- Example - Worldwide 11% of people are left-handed. Are the students in our class unusual in this regard?