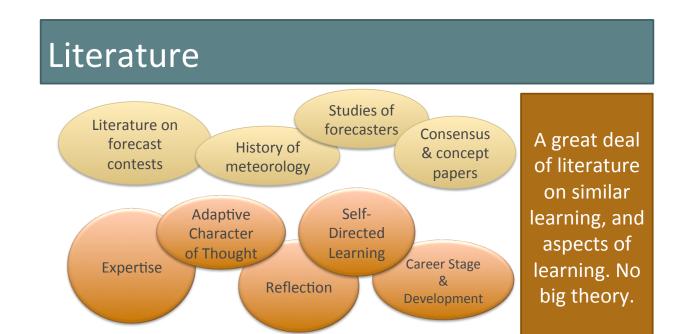
How Meteorologists Learn to Forecast the Weather

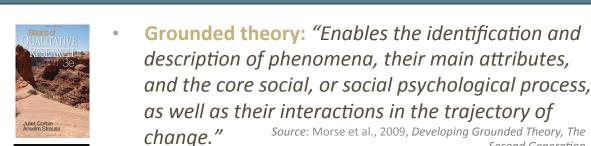
Daphne LaDue, Ph.D., Center for Analysis and Prediction of Storms, University of Oklahoma

Why Study Forecaster Learning?

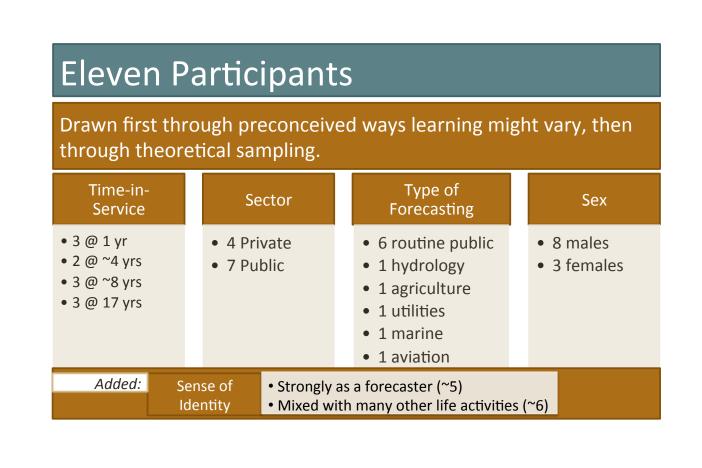
- NWS envisions a shift toward decision support.
- Requires a deep conceptual understanding of weather!
- The meaning of all that probabilistic information "Decision support is a massive scientific challenge: you never know what they're going to ask for next."
- Industries / sectors waking up to value of weather:
- \$200B US Apparel Industry takes action with seasonal forecasting • "I have been in this industry for 40 years, and during that time, we always knew it got cold in December and stayed that way through January and February — and that was that. Now, it's a crap shoot." What the CEO of Weatherproof (winter coats) said about the \$10M insurance policy he purchased against weather. Source NYT 2007. Energy Sector
- The energy sector is finally waking up to realize the value of weather. And they're hiring. —James Duncan, Conoco Phillips, 2011



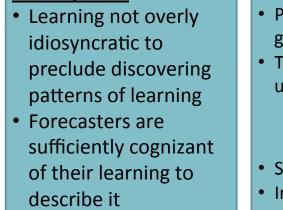
Why Grounded Theory



- An inductive process to identify what is going on Synthesize, develop concepts & generalize
- Considers context Deal with preconceptions and bias



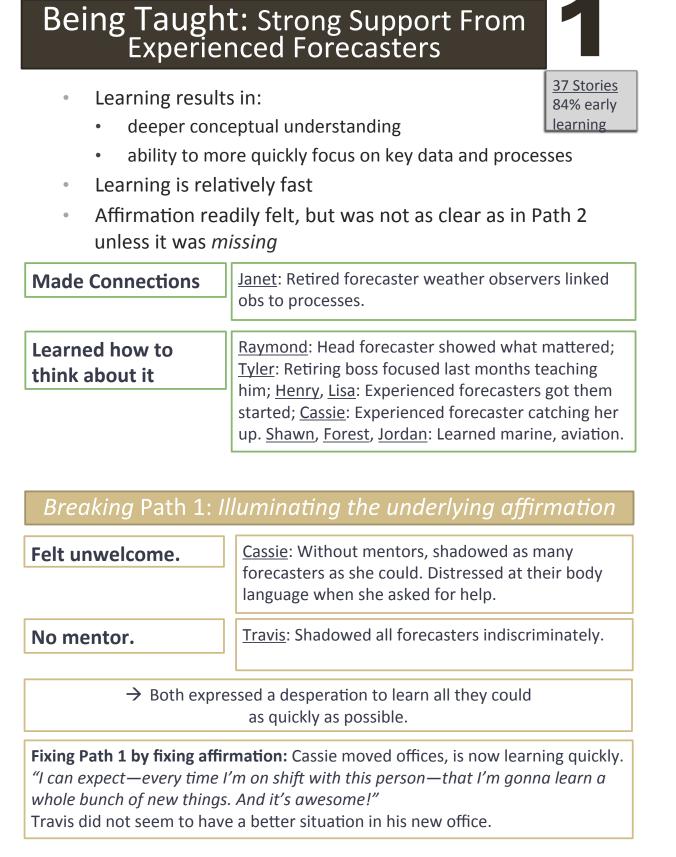
Assumptions & Limitations

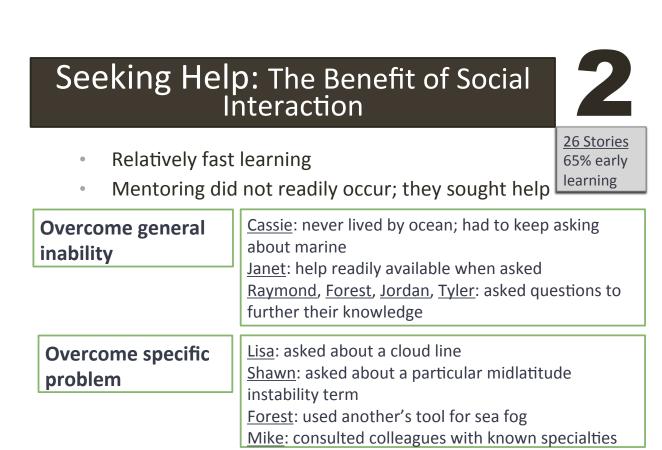


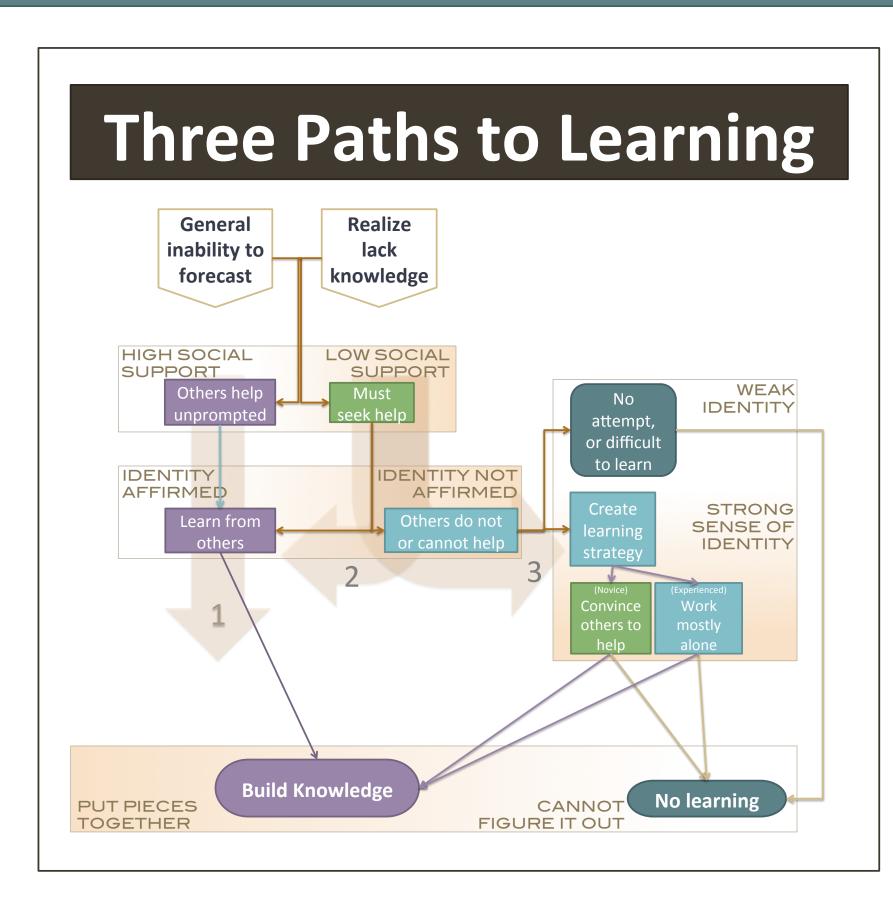
 Popular opinion of "good" does not guarantee true skill Those with poor metacognitive skills are unaware of their incompetence Strategies are less productive Attempting to distinguish "good" and "bad" experts problematic Sex and race/ethnicity not well sampled • Interviews are what people *think* they do

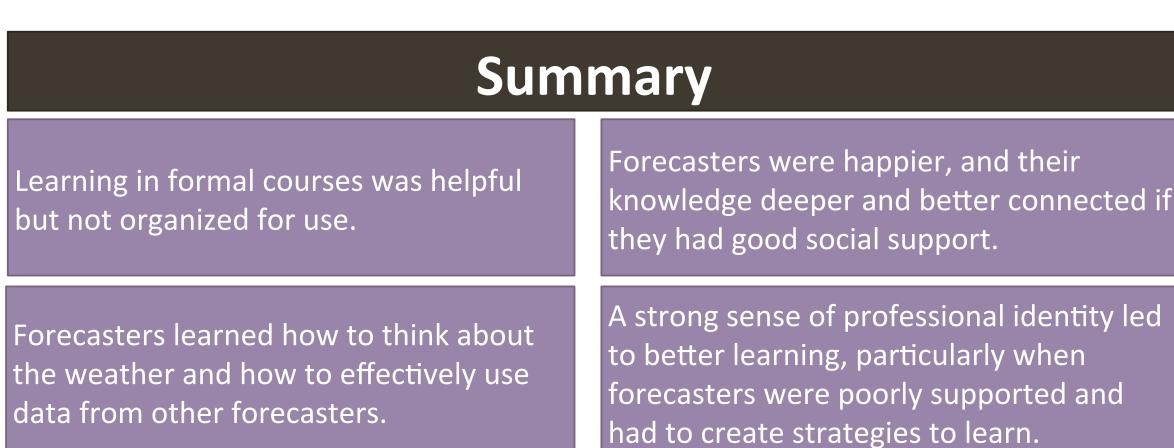
Sources: Sosniak (2006); Kruger & Dunning (1999); Atkinson (1997)

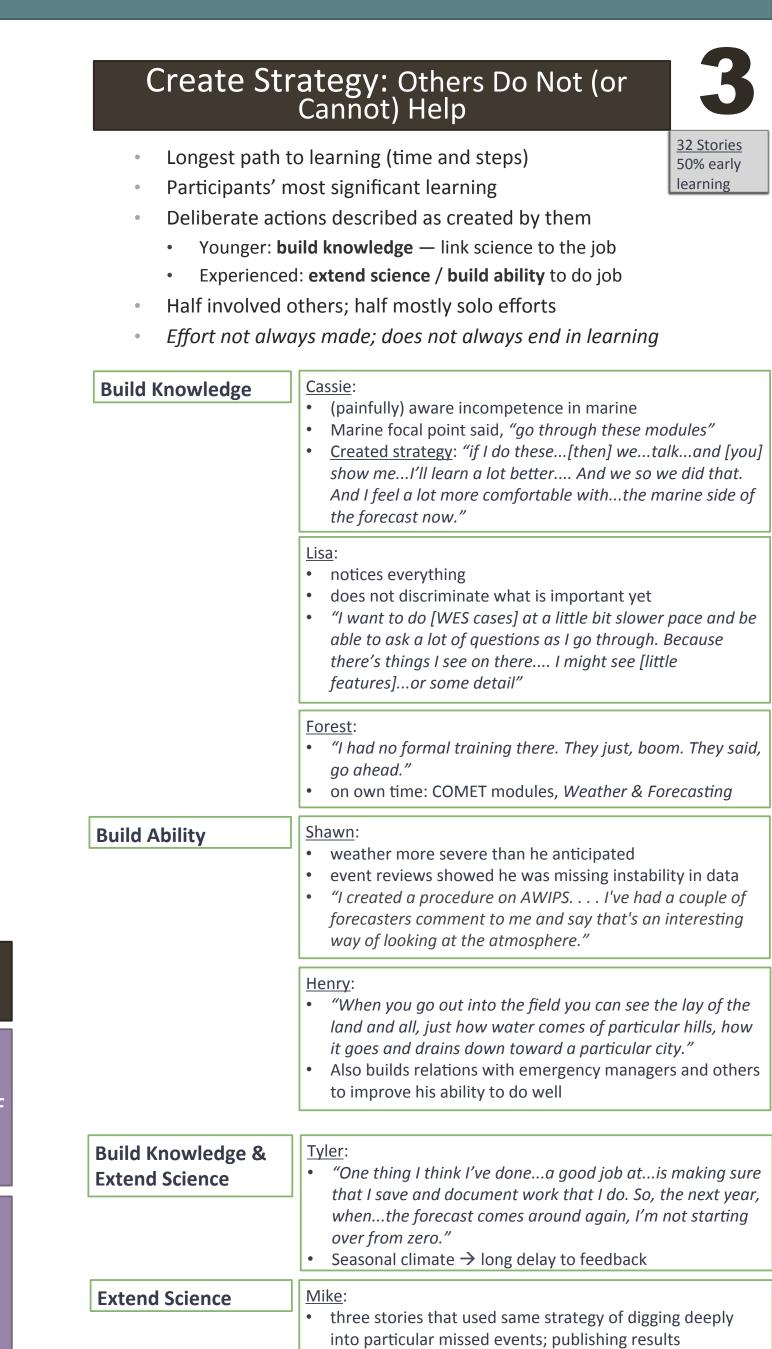
How Forecasters Learn











Other Findings

