What is and what is NOT anticipation?
CHANGE - The mother of all that is
Knowing about the changing world is knowing about our own change as we examine reality.
Nadin: The human being receives information and generates information
Mapping from reality to knowledge and back to reality

\[ c = \delta \circ i \circ \varepsilon \]
Models of reality
Dynamics of the physical is different from the dynamics of the living

Reactive vs. Anticipatory
Dealing with the future

Expectation
Premonition
Planning
Guess
Forecast
Prolepsis
Inference
Foretelling
Prediction
Think of the economy as being more like a cat than a washing machine

(cf. Nassim Nicholas Taleb—Learning to Live with Volatility, Nov. 2012)

Do you want to have good economic predictions?
Anticipatory system

Environment → Model of nature → Nature → Effectors → Action
Anticipation is always expressed in action
Hacking is anticipatory
Reductionism: project a view upon the world and expect the world to behave accordingly.

Who wants us to behave like a machine?
Limits of prediction

Living under the conditions of risk
The consequences of ignoring anticipation

There is no creativity in the absence of anticipation.
Information from the world - sensory perception

Feedforward

Error signal

Inhibition

Predictive evaluator

Feedback adjustment

Prediction

Tuning

Predictive evaluation
AnticipationScope™ and Anticipatory Profile™

Present

Future

Fabric of integrated various sensors

3-D sensors (tri-axial gyroscopes and accelerometers) for wireless motion capture
Anticipation—A New Frontier in Science
Determinism meets non-determinism
New Research Suggests Humans Can Sense Future Events Without Any Known Clues

Julia Mossbridge, lead author of the study and research associate in the Visual Perception, Cognition and Neuroscience Laboratory at Northwestern University

Jeffrey M. Zacks, PhD Washington University St. Louis, Predictive Perception, Journal of Cognitive Neuroscience

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