

Microbiological Testing for Validation and Verification

Katherine M.J. Swanson, Ph.D.

President, KMJ Swanson Food Safety, Inc.

ICMSF Member 2001-present

Microbiological testing provided data for:



Risk
assessment



Incident
investigation



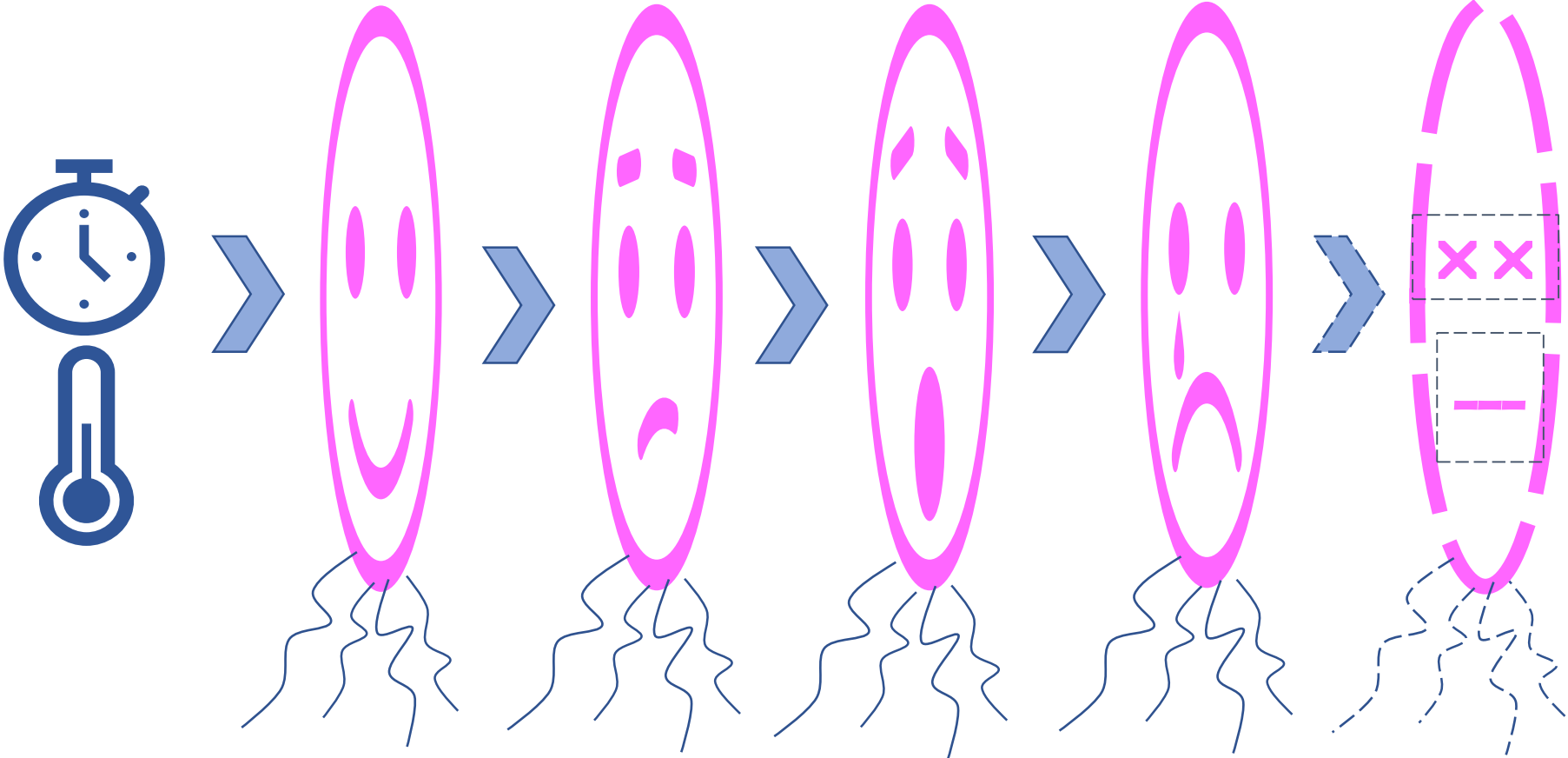
Product
acceptance



Trend
analysis



Validation: Does the Control Work?



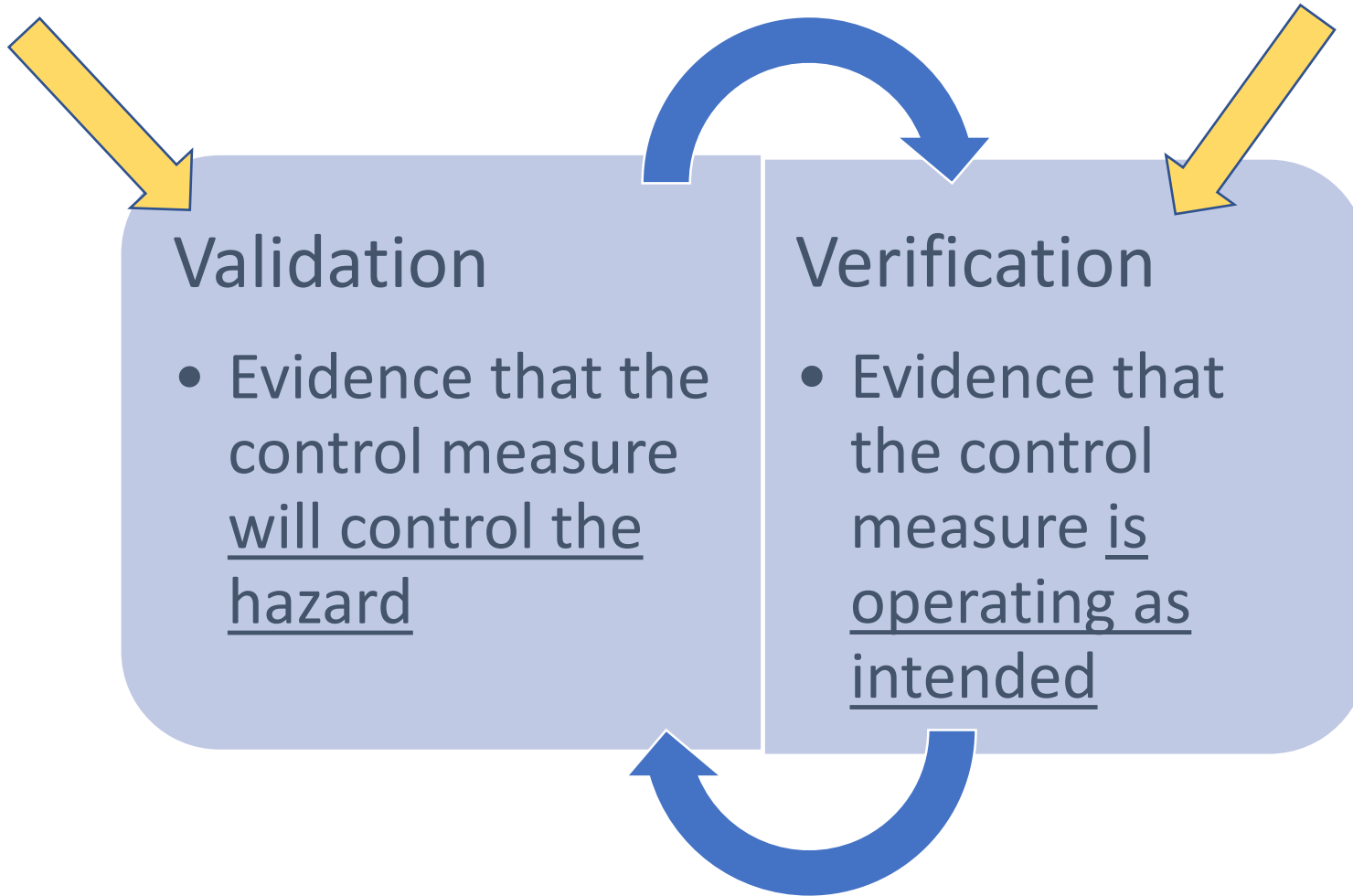
Validation

- Provides evidence that control measures, when properly implemented, can control the hazard to a specified outcome.

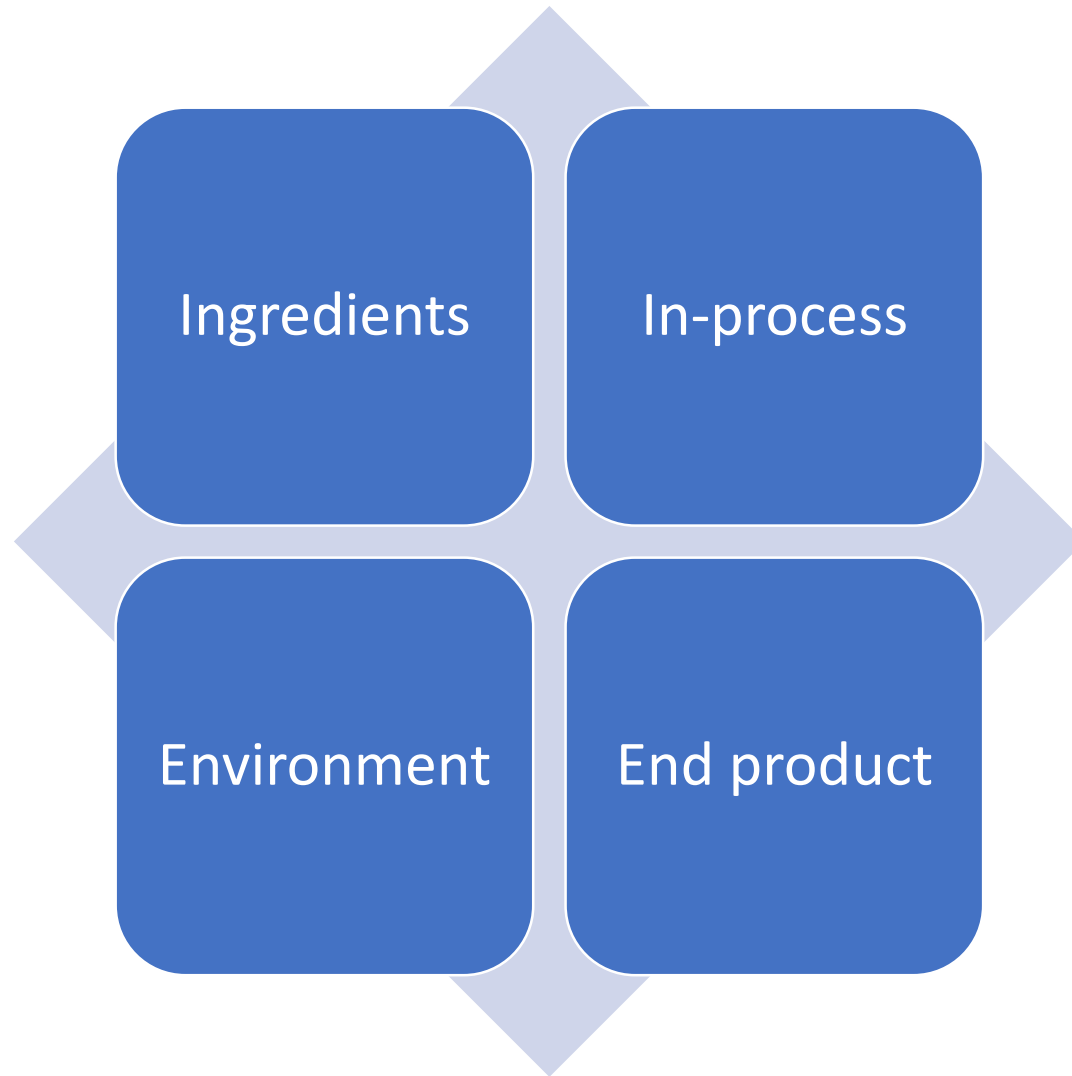


Photo provided by: KMJ Swanson

Validation Versus Verification

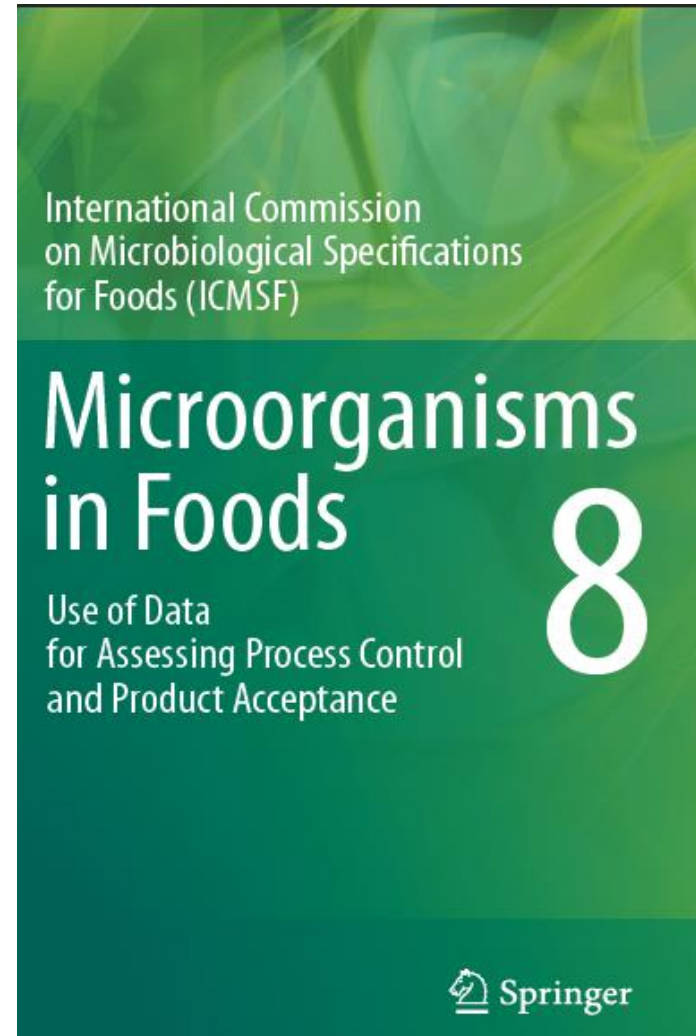


Targeted Sampling for Microbiological Testing



Verification Testing Examples

- Available in English at:
 - <http://www.springer.com/us/book/9781441993731>



Conclusions

For more information,
see www.icmsf.org

- **Validation** demonstrates controls are effective
- **Verification** demonstrates controls are implemented as intended
- **For many types of food,** both are essential to control significant hazards in food

