#### Lessons Learned: Viewpoints on Increasing Analytical Capabilities in an Organization

Predictive Modeling Projects from a Company Perspective

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# Westfield Insurance

- Founded in 1848
- ~\$1.5 Billion Direct Written Premium
  - \$0.9 Billion Commercial / Surety
  - \$0.6 Billion Personal
- Produces business exclusively through independent agencies





# Lesson One

- Modeling projects don't begin with modeling. They begin with:
  - A business question / strategic goal
  - Research / data collection
- Modeling projects don't end with a model. They end with:
  - IT implementation
  - Business implementation
  - Monitoring and Maintenance
    - (a.k.a. "living with the models")



# **Business Implementation**

Monitoring Report: Underwriting Model Utilization



# A Basic Modeling Process



#### Scaled to Actuarial Effort



### Lesson Two

Modeling can be a small part of even the actuarial / modeling project





# A Basic Modeling Process





#### Scaled to Total Project Effort



### Lesson Three

- Modeling is a <u>tiny</u> portion of the total modeling project
  - Recent (large) project:
    - Estimated Actuarial Hours: 6,000
    - Estimated IT / Business Hours: 25,000



Make decisions based on the total scope of the project



# A Tale of Two Projects

- Two actual projects that I've managed over the last several years
  - Comparable scope
  - Comparable cost
  - Comparable expected business value
  - Both were ultimately successful
  - Biggest difference: time to complete



#### **Project A**







Implement

Data

Model



### Lesson Four

- Project A: Project manager not engaged until after the model was built
- Project B: Project manager engaged before the project started

Effective and timely project management is critical



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### Lesson Five

- Project A: IT work did not start until months after the model was built
- Project B: IT work ran concurrently with the model building process

Begin communication between IT, modeling, and business units early



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# Lesson Six

- Project A: Model was built entirely inhouse
- Project B: Used experienced consultants with whom we had an established relationship

The right partners can help you get done faster (and better)



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### Lesson Seven

- Project A: Model built "on the side" by part time resources
- Project B: Had full time staff from day one (on both the company and the consulting side)

Unless time is no issue, don't try to build models "on the side"



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# Lesson Eight

- Project A: The first project of its kind for our company
- Project B: The fourth project of its kind





# Lesson Nine

- Project A: Was not a corporate priority until the modeling portion was complete
- Project B: Was a corporate priority before the project started

Models should to be driven by a business purpose (see Lesson One)



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# **Closing Thoughts**

- Don't forget about culture change

   Effective communication and reporting
- View wild claims of benefits with skepticism
- Building a model has different challenges than owning one
- Each project brings new challenges, new lessons

