

A presentation for CAS RPM Seminar by Claudine Modlin, FCAS, MAAA

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Becoming an Analytics-Based Organization

- This is a change to traditional insurance culture.
- The culture has to permeate all functional areas (pricing, UW, product management, marketing, IT, agency management, claims management, etc) and support overall corporate goals.
- My presentation draws from individual client engagements that are part of this larger goal....

Agenda

- Project goals
- Champions
- Communications
- Staffing
- Working with consultants
- Technology and data
- Analysis and monitoring

What is the biggest determinant of project success?

4 out of 5 consultants agree it's

Buy-in from top management on down

Goals

- How will project success be defined by the organization?
 - Are all areas aligned in this definition?
- Often project objectives are broad for example, in ratemaking:
 - Improve rating accuracy
 - Improve competitive position
 - Improve profitability
 - Improve growth (volume)
- How will you measure these?
- Sophisticated ratemaking analyses can achieve any one of these but are these objectives always compatible?

Goals

- Articulate measurable priorities and constraints:
 - Reduce premium subsidization while ensuring less than X% of the portfolio receives no more than +Y% rate swing
 - Improve loss ratio without deteriorating policyholder retention by more than Z percentage point(s)
 - Increase competitive win ratio particularly for high-valued homes
- These are not written in stone and may be modified as results of analysis are revealed

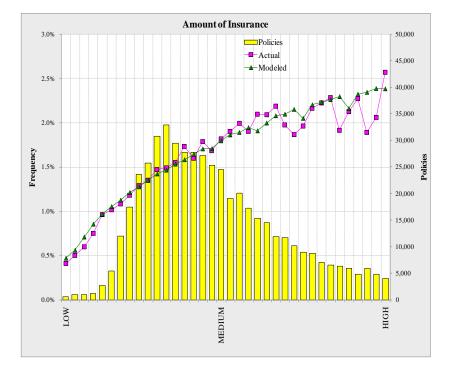
Project Champions

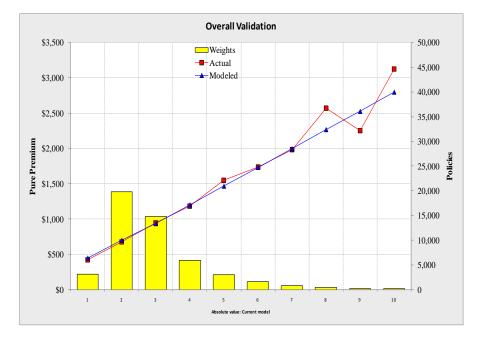


- ✓ Accountable
- Goal-oriented rather than process-oriented
- ✓ A good negotiator
- ✓ Willing to seek outside help as it supports project goals
- Capable of digging into the weeds when necessary
- ✓ Able to communicate across disciplines
- ✓ A tenacious bulldog and a good leader

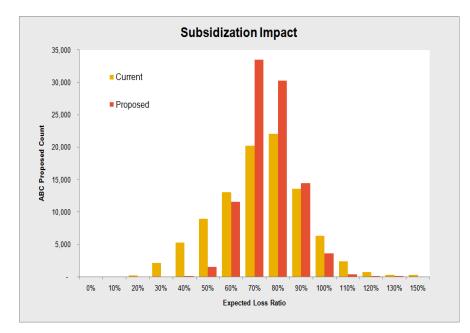
- Engage stakeholders early and throughout (i.e., don't surprise them with results at the end)
- Tailor communications to audience and employ visualization
- For example

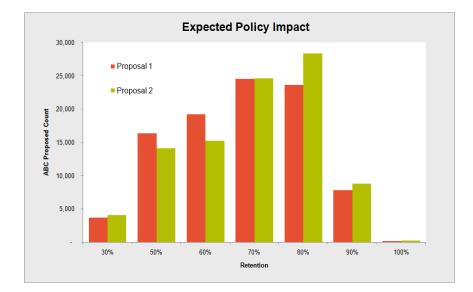
Actuaries like to know the modeling results validate well on a hold-out sample of data



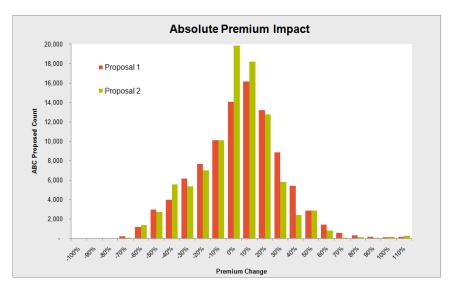


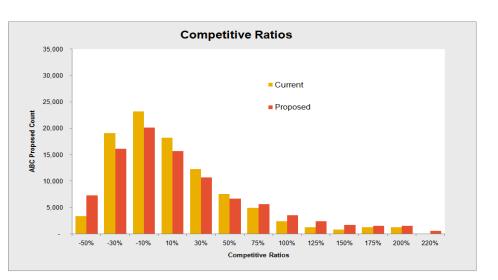
Management wants to know how the change is expected improve profitability and maintain/grow volume





Agents want to know how it will disrupt their existing portfolios or how it will provide new competitive opportunities





Can results from one project assist other functional areas?

- Loss projections
 - Pricing, Reserving, Claims Management
- Growth projections
 - Product Management, Marketing, Agency Management, Pricing
- Profitability assessments by segments
 - Pricing, Product Management, Marketing, Agency Management

Staffing

- Analytical teams require various skill sets:
 - Data retrieval / manipulation
 - Analytical / statistical skills
 - Management ability to relate results to business objectives
- Analytical work can't be a hobby (i.e., enlist full-time dedicated resources)
- Ensure staff has just-in-time training they need
- Have a staffing contingency plan
 - Spread knowledge
 - Document effectively
 - Software

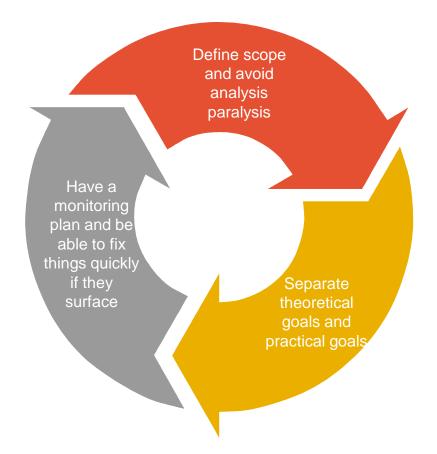
Working with consultants

- Be creative. Define what you need from the consultant(s).
- Define who's doing what
- Agree on deliverables at milestone stages
- Make it easy for consultant to do job (e.g., resource availability, navigate procurement process)
- Provide feedback throughout
- A small caveat: We live within our procurement environments (including the related costs or costs savings). But don't let that process define the project plan.

Technology and Data

- Don't be penny wise and pound foolish
- Invest in good data (GIGO) that benefits whole organization
- There is such a thing as too much data (e.g., 800 geodemographics that are highly correlated)
- Establish data requirements that align with the project goal/scope
 - Make sure data requirements are well-defined (ambiguity costs time and money)
 - Data dictionary can document for each data item: source, valid values, decoding key, how used in rating today, data concerns
- Okay to have imperfect data use it, but keep improving

Analysis and Monitoring



Contact Details

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