Digitalizing Results Management

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Overview

- Research findings on the use of performance information
- Some key themes from the case studies:

 Logic models as *data storyboards* The need for Analytic Strategies
 - *Changeability* of the human system

After 60+ years of results management, what have we learned?



The case studies

• The organizations

Large public sector organization
Large private sector organization
2 not-for-profits

What we learned

 Problems are similar
 Early days for everyone
 Few Analytic Strategies in place

Today, we will focus on the two large organizations.

Case study 1: Large public sector organization



Lessons learned:

- The logic model tells the data story
- The data needed to test outputs and outcomes were not available
- The analytics strategy did not match the data strategy

Case study 2: large private sector organization



Lessons learned:

- The logic model tells the data story
- Well-designed data infrastructure
- Business Intelligence framework in place
- The analytics strategy did not match the data structure

Case study 1: Data issues...solution



Case study 2: Data issues...solution

Data transformation + testing of several analytic models + back testing of solution



- Support Vector Machines
- Random Forest

The analytics strategy

- Depends on the type and amount of data
- Depends on the ability of humans to interpret the output
- Should lead to change: need to prepare a changeable organization.

Fundamental analytics strategy: describe + association modelling + what-if scenarios

Describe-Case Study 1



Number of Projects per Year

Association modelling: budget needed



Estimated the inputs (budget) given the outputs expected

"What-if" modelling



The most action-oriented element of the analytics strategy

Summary and a way forward

Logic models are "data storyboards" Match the analytics strategy to the data available

The data should be in "good" form Build change-ability into the human system

The nodes identify The descriptive data. The "arcs" identify the association modelling needed.

Analytics strategy: descriptive + association modelling + what-if scenarios Consistent with the logic model and the association modelling approaches especially Analytics are learning tools; learning leads to change. TELFER SCHOOL OF MANAGEMENT UNIVERSITY OF OTTAWA

Thank you

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