

A Computer Model for Mental Health Resource Allocation and Planning: CMHS Block Grant EBP Project

The Modeling Team Human Services Research Institute



Uses of the Model

- State System Planning (e.g., New Freedom Commission Related, Bed Need)
- New Services and Service System Configuration Planning (e.g. EBPs, Jail Diversion Model)
- Consent Decree & Court Related Planning (e.g. Olmstead Plans)





Mental Health System Planning: See the Whole Puzzle



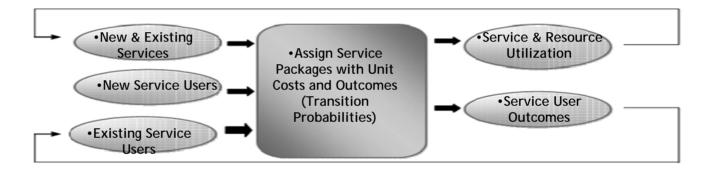
Why Simulate?

- Only way to answer certain questions (Samuelson, 2004)
- A cheaper, quicker, safer scientifically sound alternative to costly studies (Samuelson , 2004)
- Identifies new avenues for study (Leff, 1983)
- A tool for ongoing planning easily updated





• Pragmatic Theory Of How Treatment Systems Interact With The Life Course Of Persons





Input Data Collection

Data Needed

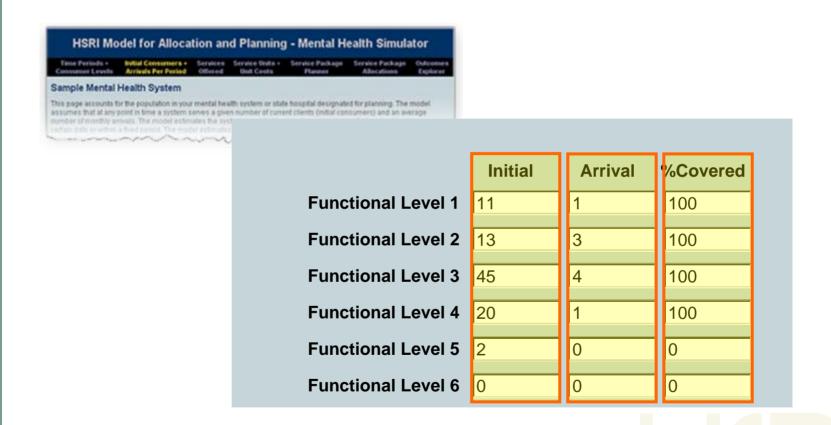
- Consumer Population
- 2. Services Available and Unit Costs
- Expected or Prescribed Service Usage
- 4. Outcome Probabilities

Data Sources

- Administrative Data
- Survey Data
- 3. Expert Opinion
- 4. Research and Evaluation Literature

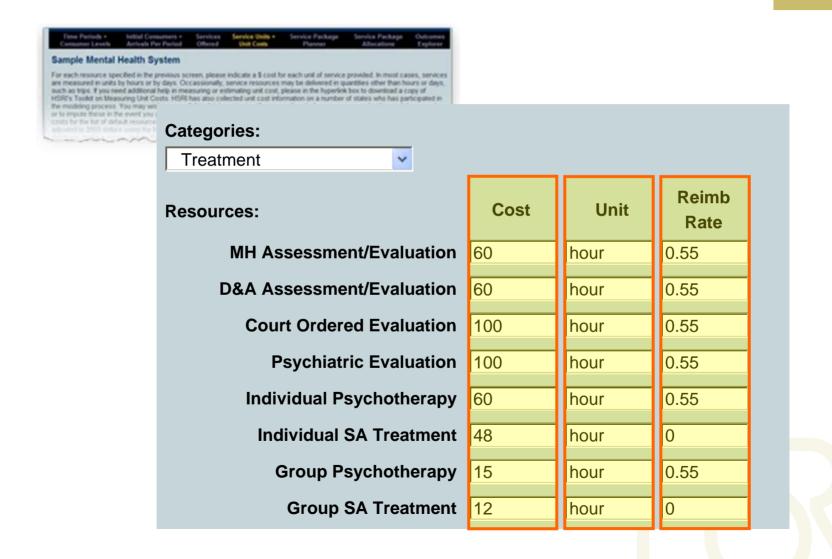


Planning Population





Services and Unit Costs





Outcome Probabilities

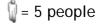
Functional Level 3 (100 People)

Receive service

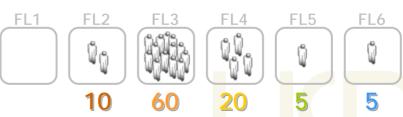
Receive service

Current System



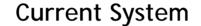


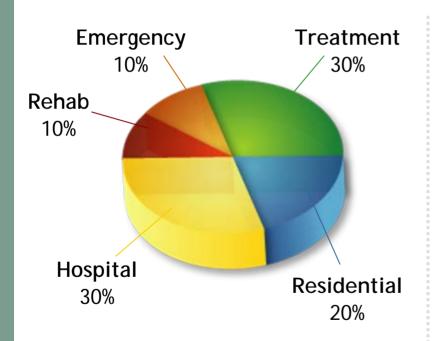
EbP System



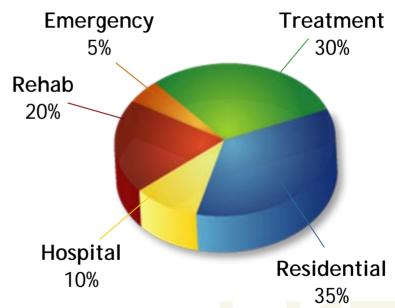


Service Utilization





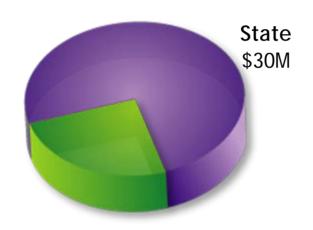
EbP System





The model makes it easy to provide estimates of reimbursements

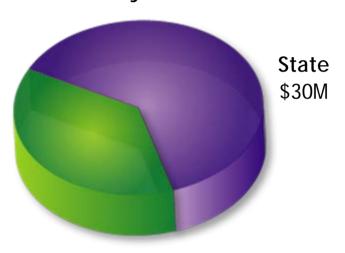
Current System



Medicaid \$10M

Total Budget \$40M

EbP System

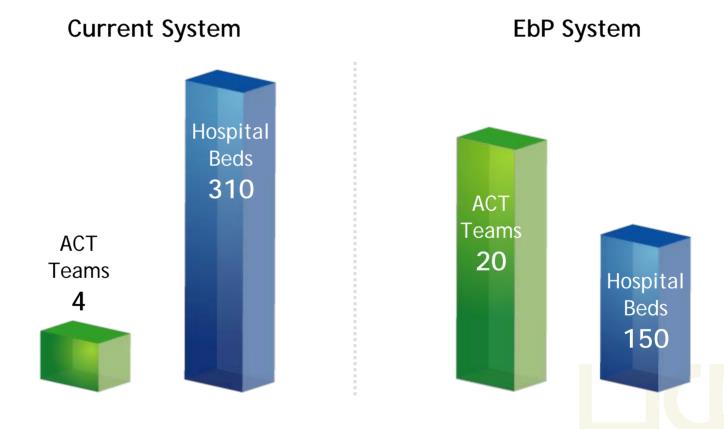


Medicaid \$18M

Total Budget \$48M



The model makes it easy to explore & compare multiple service configurations





With a few keystrokes you can...





That's All For Now





Sample Reports from Model Results

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Gap analysis between current and desired system

> Short and long range transformation strategies

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Estimated need for dollars, staff, bed, etc.

> Estimated outcomes for current and desired system

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