



Introduction to System Dynamics with Vensim

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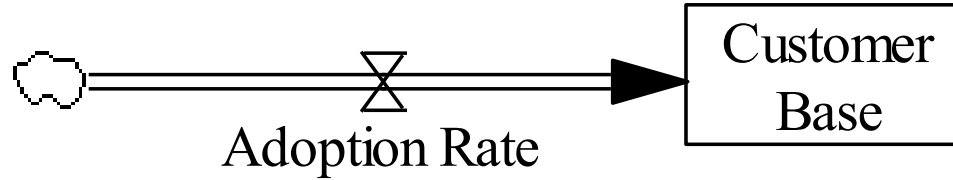
Logistics

- **Download the course material folder and unzip to a convenient location**
 - Source: <http://vensim.com/conference>
 - Choose a location you control, i.e. not locked by your operating system
- **Install Vensim 10**
 - I'll be using PLE 10.5 (free for educational or personal use)
 - There's a 60-day DSS license at the conference link above
 - You can use an earlier version; expect minor differences

Road Map

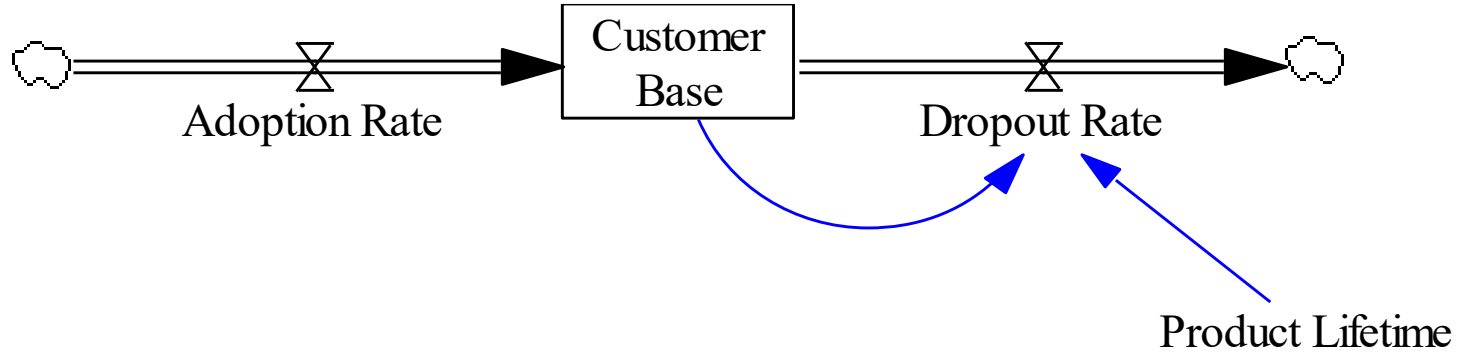
Vensim Mechanics	System Dynamics	Modeling Process
Diagramming Equations, Units Runs Managing constants Causal tracing Synthesim[®] Sens2all Data I/O Interfaces Lookups	Stocks & flows Feedback loops Behavior modes Nonlinearity Equilibrium Representing behavior Archetypes Molecules Policy resistance Events-Behavior-Structure	Choosing a method Conceptualization Debugging Model testing Learning from surprise Validation Calibration Collaboration Automation Change management

Model 0



- **Accumulation**
- **Diagramming**
- **Writing equations**
- **Ordinary simulation**
- **Seeing output - workbench**

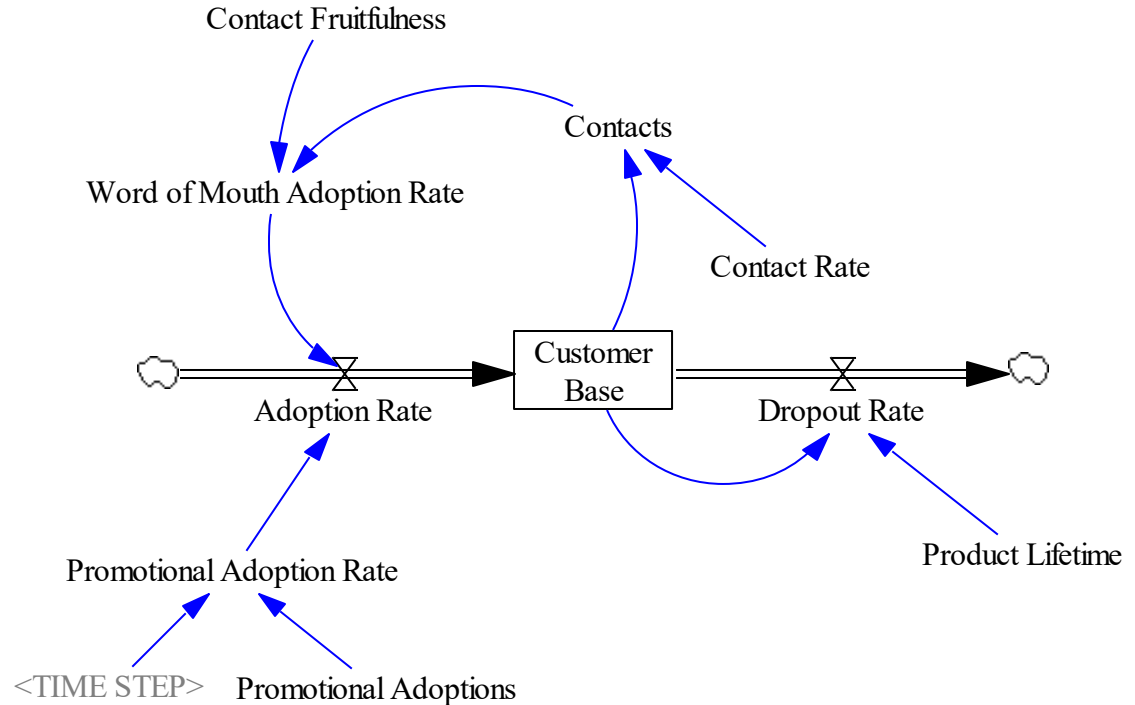
Model A



- **Outflow & feedback**
- **Units**
- **Managing datasets**
- **Synthesim**
- **A mini control panel**

Model B

- **Growth loop**
- **A discrete event**
- **Causal Tracing**



Model C

- Custom graphs
- Sens2all

