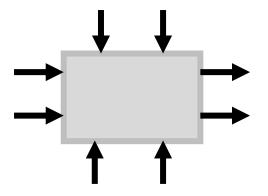
Continuous Improvement Toolkit

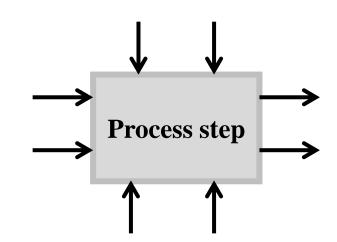
IDEF0

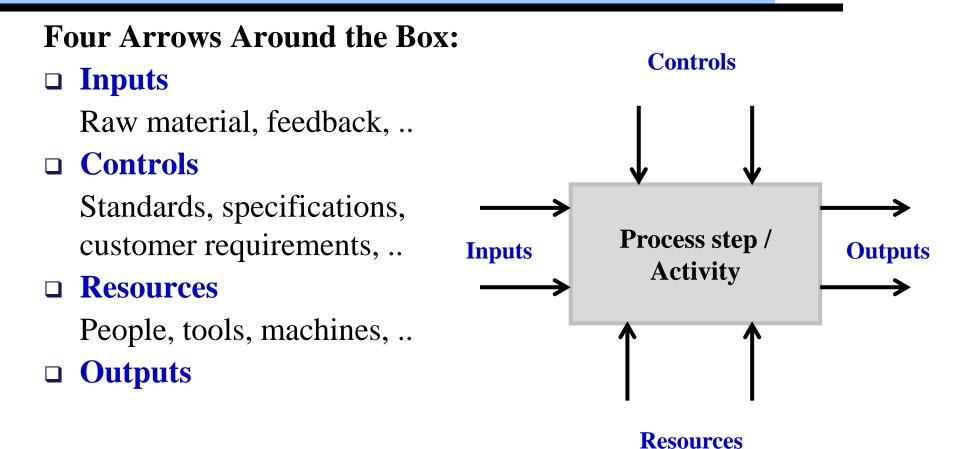


Managing **Deciding & Selecting Planning & Project Management*** Pros and Cons **PDPC** Risk Importance-Urgency Mapping **RACI** Matrix **Stakeholders Analysis Break-even Analysis RAID** Logs FMEA **Cost** -Benefit Analysis PEST PERT/CPM **Activity Diagram** Force Field Analysis Fault Tree Analysis **SWOT** Voting Project Charter Roadmaps Pugh Matrix Gantt Chart Risk Assessment* Decision Tree **TPN** Analysis **PDCA Control Planning** Matrix Diagram **Gap** Analysis OFD Traffic Light Assessment Kaizen **Prioritization Matrix** Hoshin Kanri Kano Analysis How-How Diagram **KPIs** Lean Measures Paired Comparison Tree Diagram** Critical-to Tree Standard work **Identifying &** Capability Indices OEE Cause & Effect Matrix Pareto Analysis Simulation TPM Implementing RTY Descriptive Statistics MSA Confidence Intervals Understanding Mistake Proofing Solutions*** Cost of Quality Cause & Effect Probability **Distributions** ANOVA Pull Systems JIT Ergonomics **Design of Experiments** Reliability Analysis Graphical Analysis Hypothesis Testing Work Balancing Automation Regression Bottleneck Analysis Visual Management Scatter Plot Correlation Understanding **Run Charts** Multi-Vari Charts Flow Performance 5 Whys Chi-Square Test 5S **Control Charts** Value Analysis **Relations Mapping*** Benchmarking Fishbone Diagram SMED Wastes Analysis Sampling TRIZ*** Time Value Map Process Redesign Brainstorming Focus groups SCAMPER*** **Interviews** Analogy **IDEF**0 Nominal Group Technique SIPOC Mind Mapping* Photography Value Stream Mapping **Check Sheets** Attribute Analysis Flow Process Chart Process Mapping Affinity Diagram **Measles Charts** Surveys Visioning Flowcharting Service Blueprints Lateral Thinking **Data** Critical Incident Technique Collection Creating Ideas** **Designing & Analyzing Processes Observations**



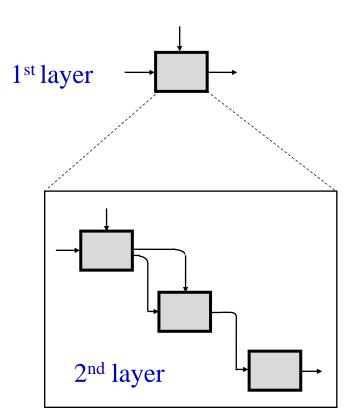
- □ A function modeling methodology.
- □ A detailed and clear description of a process or system.
- □ Used when formally describing a process.
- □ Ensures a detailed, clear and accurate result.
- □ For new systems, it may be used first to define the requirements.
- Uses just one box shape to define each activity or process and multiple arrows.



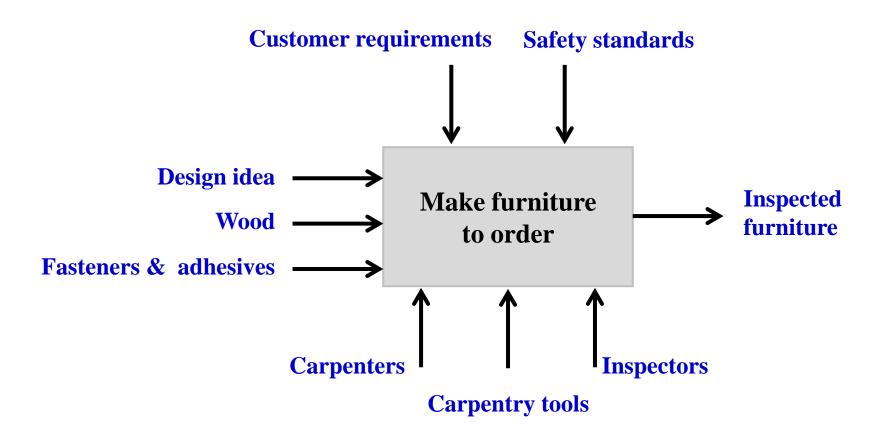


Top Down Modeling Approach:

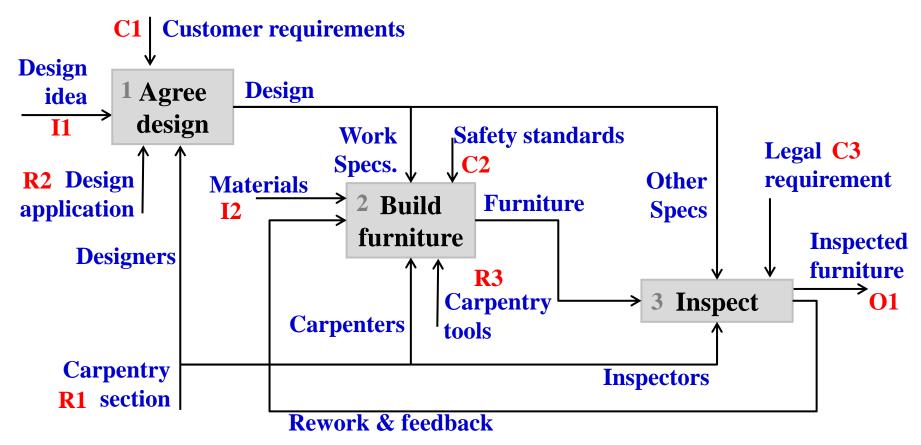
- 1st layer is a single activity box that describes the function or process that is the subject of the model.
- 2nd layer is the decomposition of the first layer into major sub-activities.



Example – The Furniture Making Process (High-level)



Example – The Furniture Making Process (Detailed)



IDEF Family:

- □ IDEF0: for Function Modeling.
- □ IDEF1: for Information Modeling.
- □ IDEF1x: for Data Modeling.
- □ IDEF3: for Process Modeling.
- □ IDEF4: for Object-Oriented Design.
- □ IDEF5: for Ontology Description Capture.