Uncle Stank's TOC Reference Sheet

The 5 Pillars of TOC

- Nature is simple and harmonious Every situation, no matter how complex it appears, is exceedingly simple
- Every conflict can be removed
- People are good

Decisions are made from different points of view with inbred and learned biases

- Accept variation
- Never say "I know"
 It behooves us to constantly check to see

if there is something to learn

Constraint

The factor that, at any point in time, most limits the system from achieving more of its goal.

Types of Constraints

- Resource
- Capacity
- Market
- Supply
- Cash

The 5 Focusing Steps

- 1. Identify the system's constraint*
- 2. Decide how to Exploit the system's constraint
- 3. Subordinate everything else to the decision above
- 4. Elevate the system's constraint
- 5. Warning!!!! If in the previous steps the constraint has been broken, go back to Step 1 and do not allow **Inertia** to become an obstacle.
- * Rarely systems have interactive constraints which must be considered together when following these steps.

Throughput Accounting

Priorities:

- 1. Increase Throughput (T). T is the rate at which money is generated by the business. T is Sales (S) minus Totally Variable Costs (TVC).
- 2. **Reduce Investment (I)**. I is all the money held inside the company which can be sold, such as finished goods, WIP and raw materials inventories, A/R, land, equipment, fixed assets, buildings.
- 3. Control Operating Expense (OE).
 OE includes direct labor, indirect labor, selling expenses, general & administrative expenses, utilities, rent, interest, taxes.
- Net Profit (NP) = T OE
- ROI = (T OE) / I
- Throughput Margin (%T) = T / S
- Productivity = T / OE
- Throughput \$ Days (TDD) = Σ(T value of each late order X days late)
- Inventory \$ Days (IDD) = Σ(I value of each product X days in stock)

Non-Constraints (Failures to Subordinate)

- Erroneous points of view
- Lack of knowledge
- Local efficiencies
- Measures
- Policies
- Pricing

Goldratt on Technology

A technology can be beneficial if and only if it reduces a current limitation

- 1. What is the power of the technology?
- 2. What current limitation does the technology diminish?
- 3. What rules or behaviors exist today because of this limitation?
- 4. What rules or behaviors must be changed to get the benefit of the new technology?
- 5. Given the new rules, what changes are required to the technology?
- 6. How do we build, capitalize on and sustain the new win-win business?

The Layers of Buy-In

- 1. What is the problem?
 - -Express each problem as a conflict.
 - -Understand the underlying assumptions.
 - -Quantify the holistic damage.

Agreement on the problem.

- 2. What is the generic solution?
 - -List criteria for an ideal solution.
 - -Make sure list is complete.
 - -Suggest any good solution meets all criteria.

Agree that conflicts would disappear.

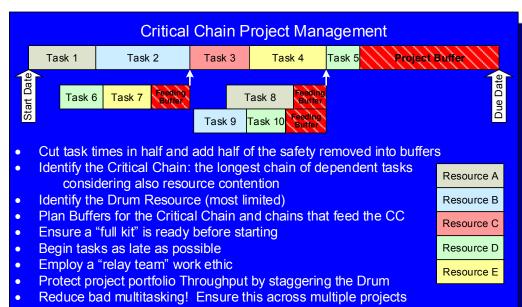
- 3. What is the specific solution?
 - -Construct a solution that meets all criteria.
 - -Find win-win solutions
 - -Look for issues.

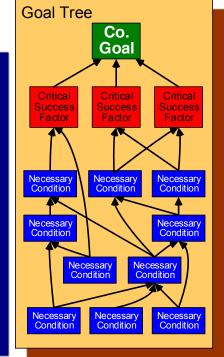
Agree the solution works in this case.

- 4. How to avoid negative branches?
 - -Ask the one who voiced the NBR for an injection, -Ask for more NBRs

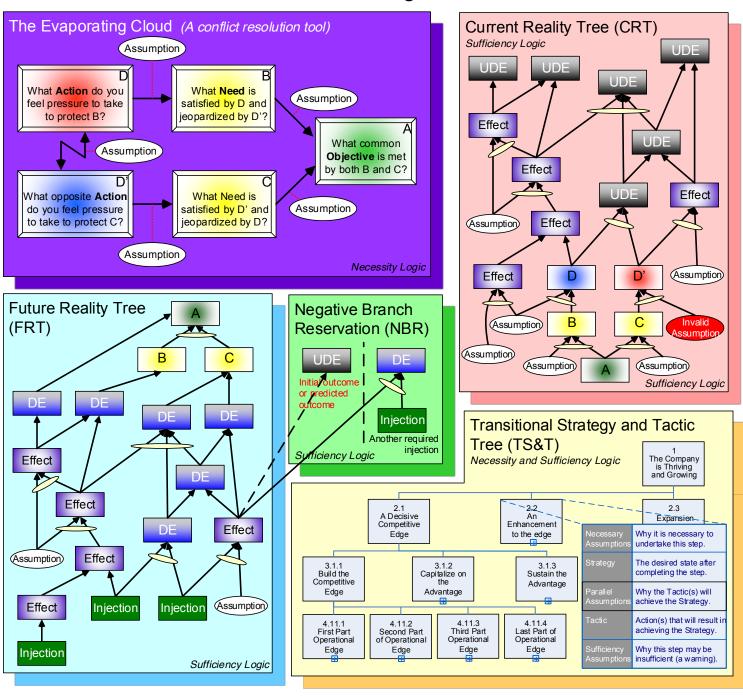
Agree on injections.

- 5. How to surmount obstacles?
 - -Brainstorm ways w/ cross functional teams.
 - -Use Prerequisite Tree if complex.
 - Agree to take action after ...
- 6. Overcoming any unverbalized fears.





The TOC Thinking Processes



What is our Purpose?	The Goal Tree POOGI
What to Change?	Make a Cloud for 3 UDEs Generalize the UDE Clouds The Current Reality Tree
What to Change to?	Evaporate the Core Cloud The Future Reality Tree Negative Branch Reservations
How to cause the change?	Transitional Strategy and Tactic Tree Remove Bad Multitasking
How to stay on the Red Curve?	The Change Matrix or (4 views of change) The Lieutenant's Cloud Organizational S&T

