Process Design Under Duress

Agile Process Design Using Virtual Prototyping





Bill Hathaway, CEO, MoreSteam

Process Design Drivers

- Shortened product life cycles
- Rising quality expectations
- Design as a competitive advantage
- Exigent circumstances of a global pandemic





How do you measure progress?



Number of Improvement Projects?





PPC: PPF > 1.0







Traditional view: "Get better at solving problems."

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New challenge: "Avoid problems through design."

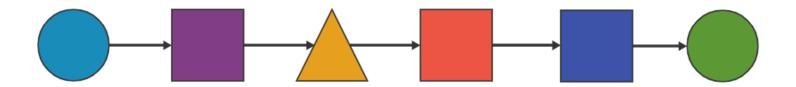
Traditional view: "Get better at solving problems."

New challenge: "Avoid problems through design."

New new challenge: "Create opportunities through design."



We could just...







2017 Efficiency Initiative

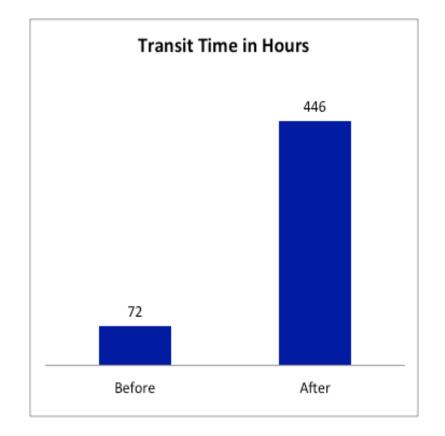
- Reduced 2,300 jobs
- Closed 12 reconfiguration yards

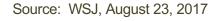




Results:

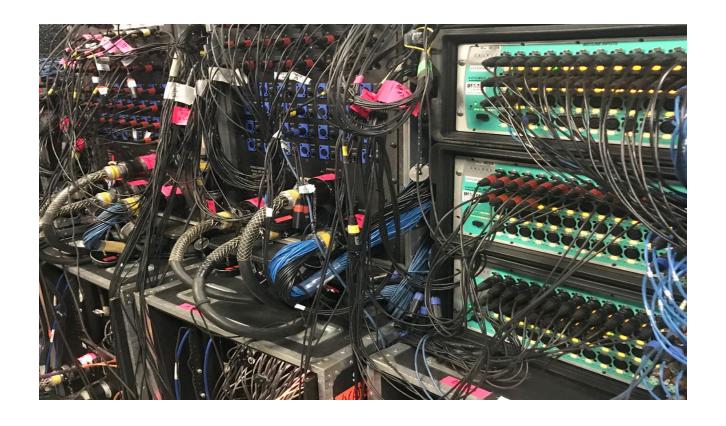
Chicago, IL to Colesburg, TN



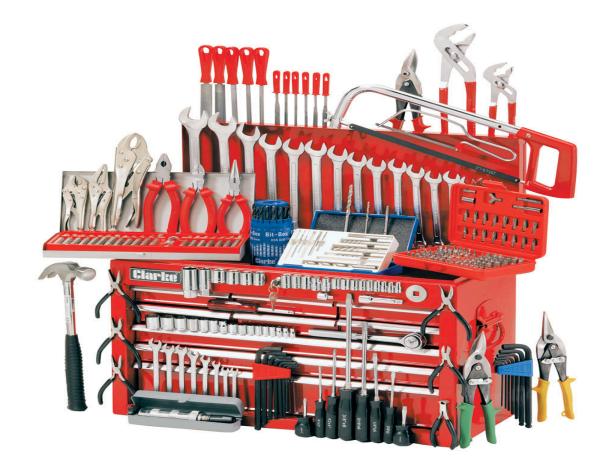












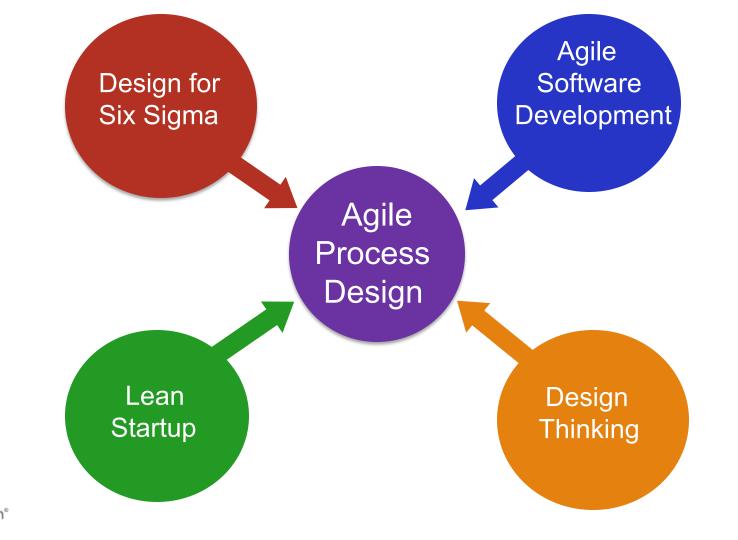


We need something new...









3 Key Elements

- Attitudes: VOC & Experimentation
- Roadmap of QUESTIONS
- Virtual Process Prototyping & Iterative Learning

Virtual Process Prototyping

Design Roadmap





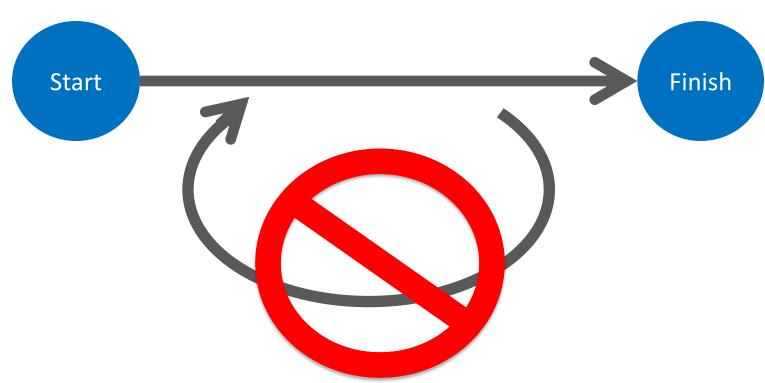
In The Absence of Guidance.....













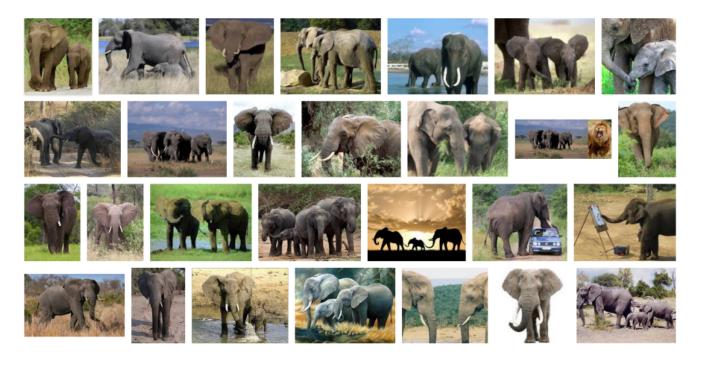
Building to THINK





Akron Children's Hospital – New Pharmacy Design

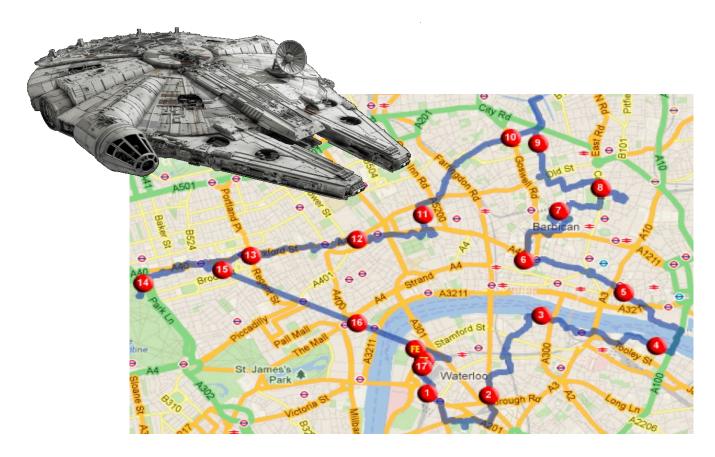




"To have a good idea, you must have lots of ideas."

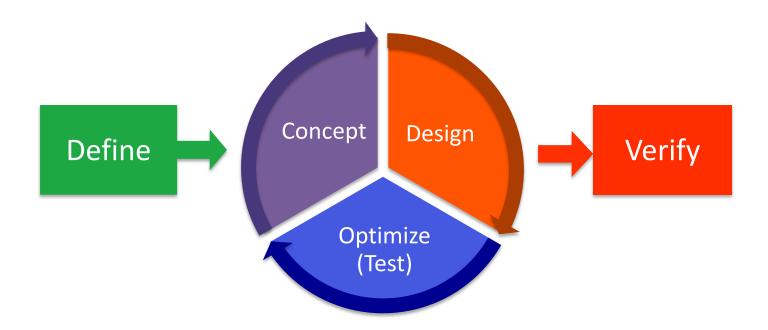
- Linus Pauling





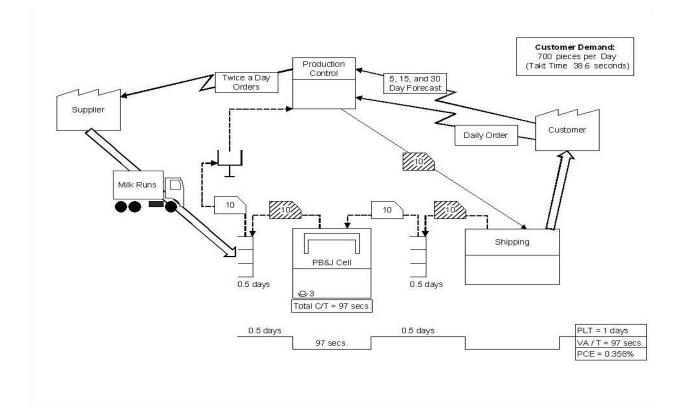


Embracing Iteration





Simple maps may work...





But what about variation?





Animating the Process Map





Discrete Event Simulation



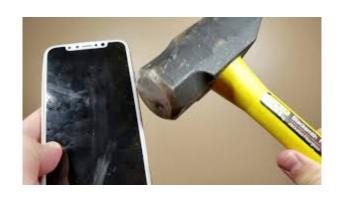
What If?















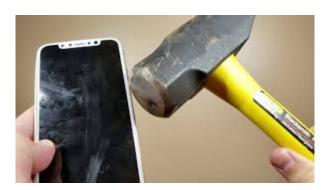










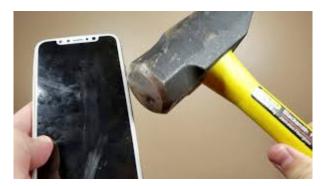


























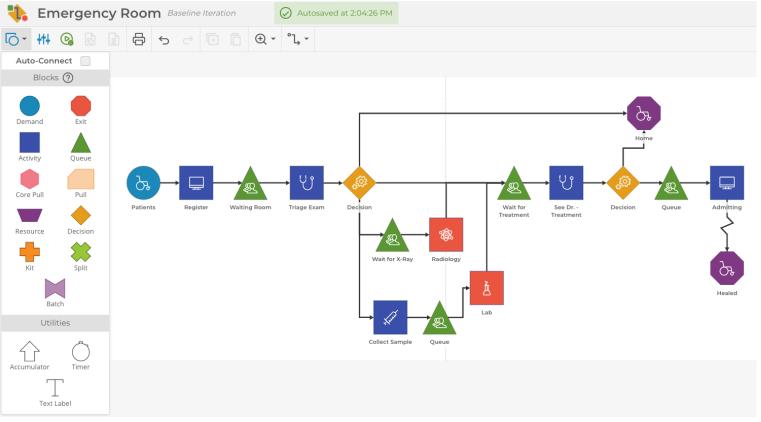




Process Playground™



Discrete Event Simulation – Process Playground





Examples



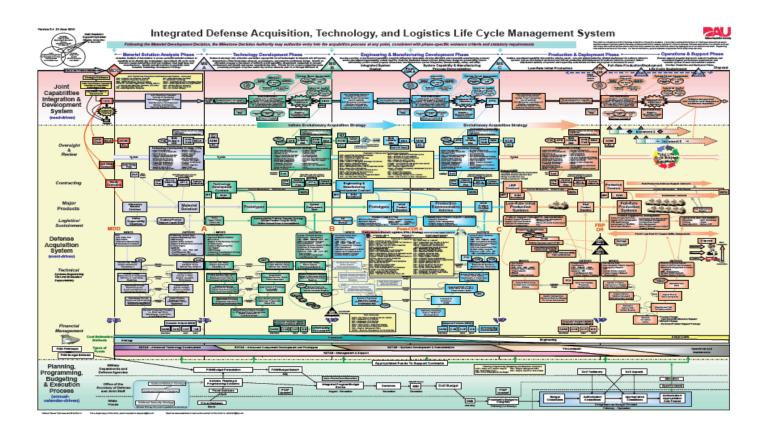




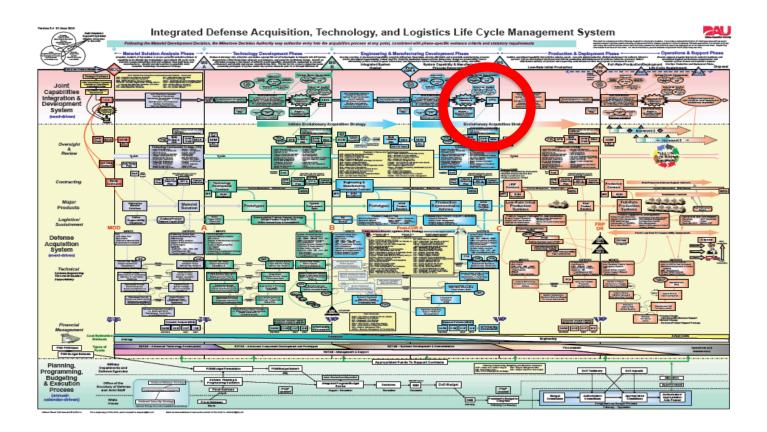












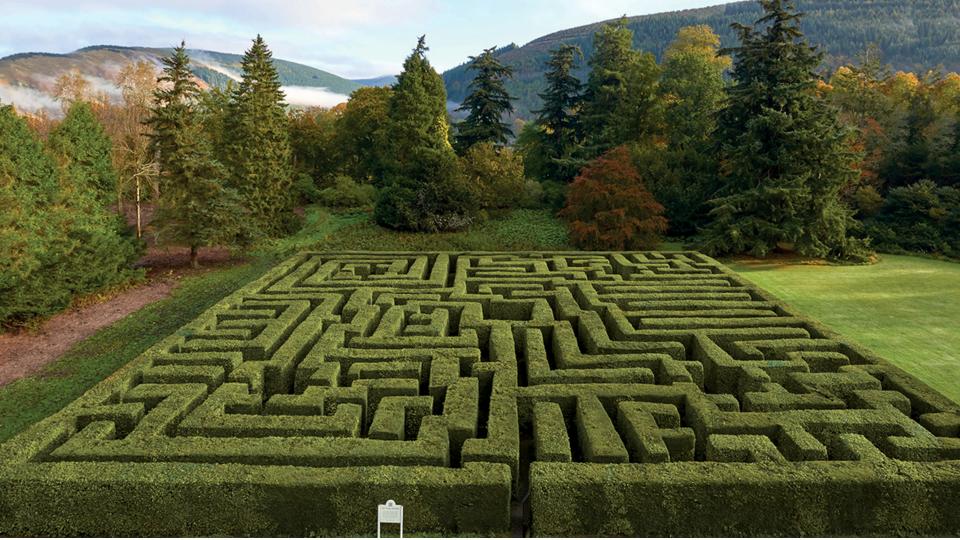




"Simplicity is the key to excellence."

- Dieter Rams







- Build to Think, Explore & Create
- Test Safely and Quickly
- Establish Operating Parameters
- Evaluate Risk
- Make Your Case





"Your system is perfectly designed to give you the results you're getting."

- W. Edwards Deming



Watch your inbox for registration information for our FREE Master Series

May 14, 21, 28 at 2:00-3:00 PM Eastern

Included in our free master series:

- Three hour-long sessions led by Dr. Lars Maaseidvaag
- Short online process modeling course
- Case Study: Kathy's Best Wursts
- 60-day full access to EngineRoom software with Process Playground
- Downloadable certificate of completion after requirements fulfilled

https://www.moresteam.com/webcasts/process-modeling-master-series.cfm





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