



Altair

Innovation Intelligence®

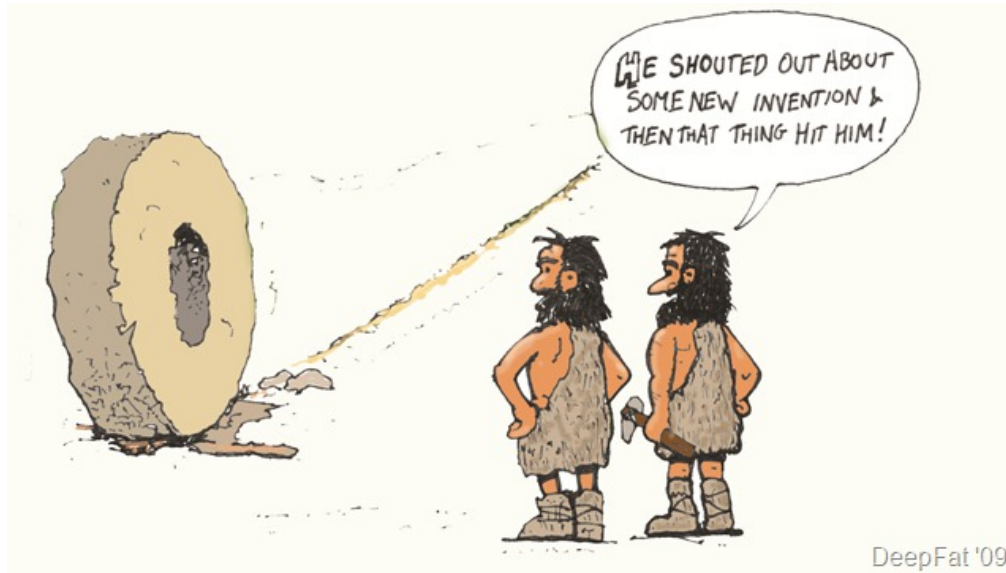
Exploring Process Automation to Facilitate Shortened Design & Maintenance Engineering Preparation

**Presented by:
Ray DeIDin
Altair**

Why?

Why do we do things the way we do things?

Process Automation

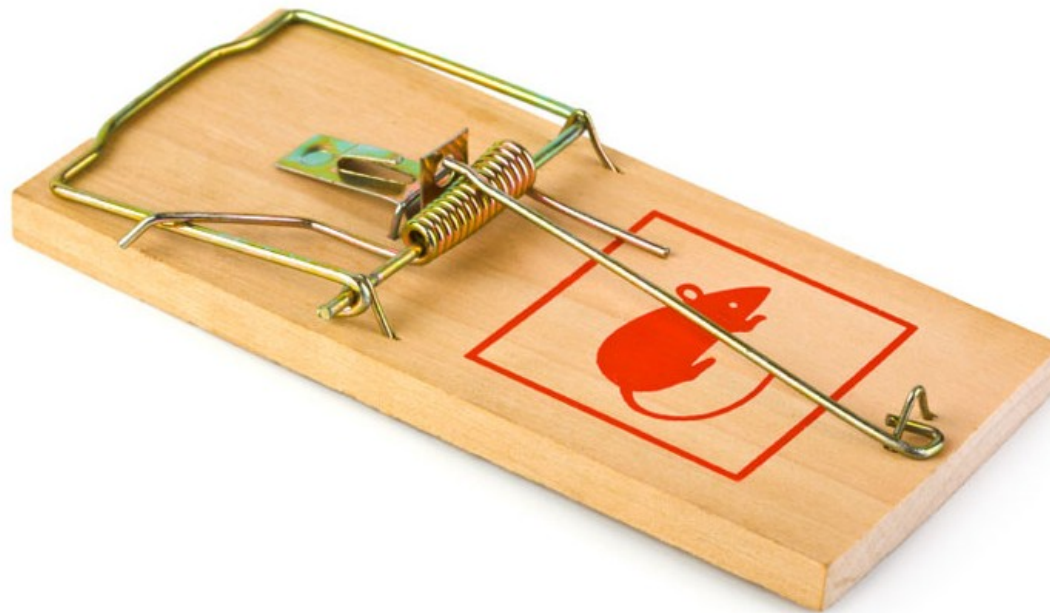


DeepFat '09



Build a better mouse trap and the world will beat a path to your door

Ralph Waldo Emerson



Process Automation



Process



- **Process**



- a natural phenomenon marked by gradual changes that lead toward a particular result - the *process* of growth
- a continuing natural or biological activity or function - such life *processes* as breathing
- a series of actions or operations conducing to an end - a continuous operation or treatment especially in manufacture

Automation

- **Automation**



- the technique of making an apparatus, a process, or a system operate automatically
- the state of being operated automatically
- automatically controlled operation of an apparatus, process, or system by mechanical or electronic devices that take the place of human labor

Process Automation



- **Process Automation**

webopedia

- A general technology term that is used to describe any process being automated through the use of computers and computer software
- Processes that have been automated require less human intervention and less human time to deliver

Altair's Divisions and Companies



HyperWorks®

Engineering Simulation
and Optimization Software



Product Design Solutions

Product Innovation and
Development Consulting



solidThinking®

Simulation-driven Industrial
and Concept Design Software



Enterprise Solutions

Cloud-based Business and Engineering
Analytics Software and Consulting



PBS Works™

High Performance Computing
Software and Consulting



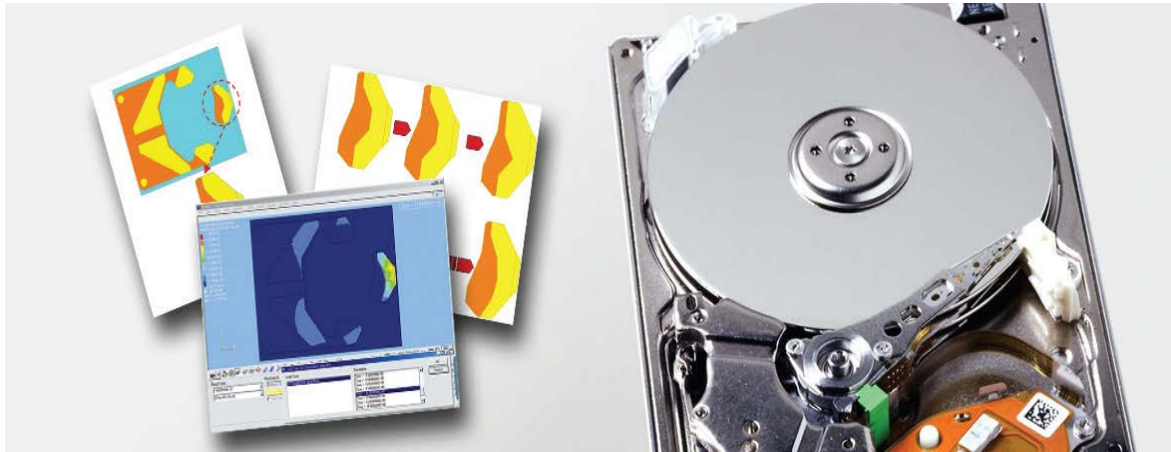
Staffing Solutions

Technical Staffing and
On-premise Consulting

Process Automation – Consumer Goods



Toshiba



**Reducing Development Time by
70%**

Unilever

Customized Solutions to Reduce Packaging Waste

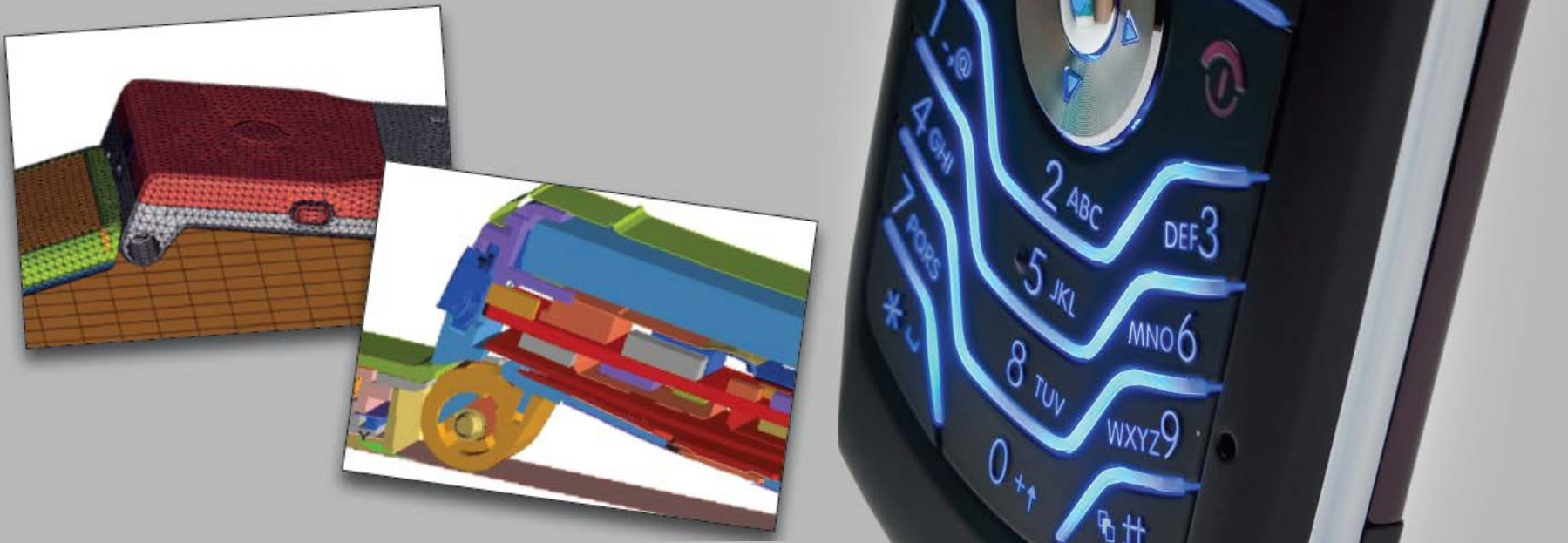


Process Automation – Consumer Goods



Motorola

- Reducing Analysis Cycle Time from 8 Weeks to 24 Hours

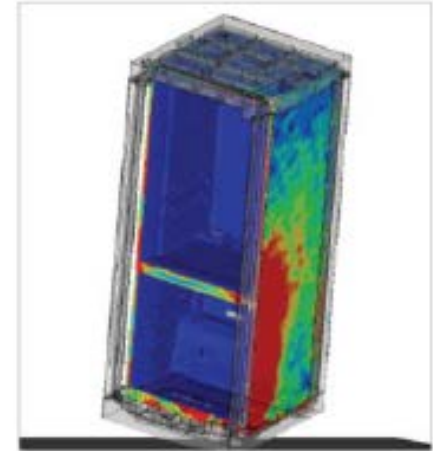


Process Automation – Consumer Goods



DEVELOPING A CUSTOMIZED SOLUTION TO
SIGNIFICANTLY REDUCE COSTLY
PRE-PROCESSING ACTIVITIES

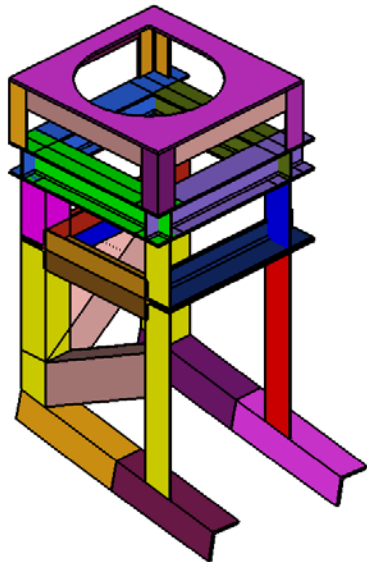
mabe



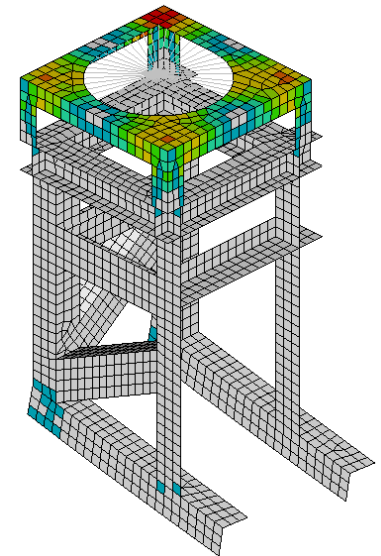
IMPROVED METHODS FOR GENERATION OF FULL-SHIP SIMULATION/ANALYSIS MODELS II

Process Automation Toolkit

- Minimize non-value added time
- Interface with in-house solvers
- More Process Automation
- Compute Manager
- Software Asset Optimization



Simplify the User Interface
Reduce Modeling Time



Process Automation - Maritime

- **Samsung Heavy Industries**



Automate the weld distortion analysis process, developing a semi-automated analysis setup system

Minimizing Manual Labor from 3 Days to 2 Hours

Process Automation - Maritime



ClassNK



NOBISKRUG



Altair

Innovation Intelligence[®]

Thank you for your attention!



