

Applying Best Practices from Manufacturing to Farm Information Management



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- Background
- Problem Definition
- Printing Manufacturing Technology Evolution
- Technology Barriers/Enablers
- Manufacturing Lessons Learned
- Information Management Best Practices
- The REAL Problem (Opportunity)



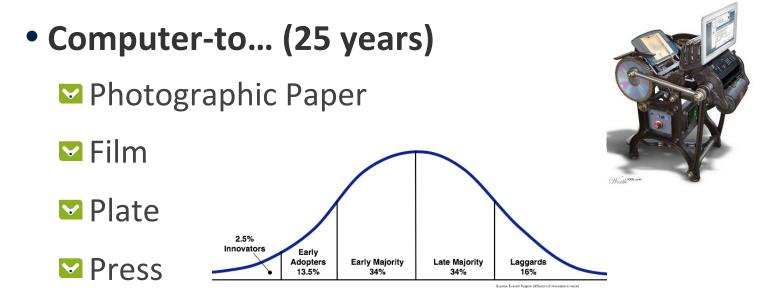
It is NOT a Technology Problem

We are going to talk a lot today about technology because that is what people like to do, but...



PRINTING TECHNOLOGY EVOLUTION

- Heavily Craft-Reliant and Manual Operations
 - ☑ Hand carved, prepared- letter by letter (500 years)
 - ☑ Camera, Stripping, Platemaking (40 years)



Print On Demand (10 years) (e.g. Vistaprint)



TECHNOLOGY ADOPTION BARRIERS

- ☑ Innovation was isolated to a few large players
- To remain competitive, capital costs continued to rise at a rate faster than market prices
- No industry standard for file formats or file exchange
- ☑ Data silos existed throughout the operations
- A lot of data was being generated, but very little information was provided
- Workforce was ill-prepared to assimilate new technology effectively-→ lack of qualified workers



PRINTING TECHNOLOGY ENABLERS

Mainframe -> Mini's -> PC's -> PC/Server -> Hosting -> Cloud

- ▶ New (disruptive) technologies introduced by upstarts
- Adobe created PDF file standardization
- Apple created DTP (Desktop Publishing)
- Cross-Platform Workflow Management Systems
- ☑ ERP (Enterprise Resource Planning) solutions

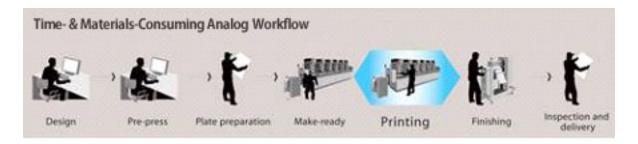


MANUFACTURING LESSONS LEARNED

- Accurate and current manufacturing data is essential
- Creating a seamless integration between data silos/ systems is ideal
- Managing by the numbers works
- Management discipline is key to applying the numbers in a meaningful way
- ☑ Typical improvement realized by using ERP: 5-8%
 - ROE, ROI, Scrap, Re-work, Productivity



MANUFACTURING PROCESS





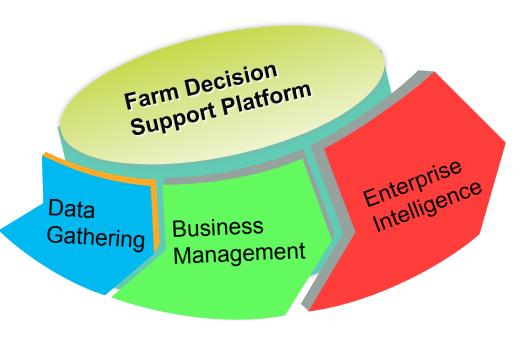


Information Management for the Farm



INFORMATION MANAGEMENT

Enterprise Class Web-enabled On-demand



Activity Accounting — ERF

Information Management for the Farm



- Weather
- Pests
- Cost of Inputs
- Skilled labor force
- Market Prices
- Land/Rental Prices
- Succession Planning
- Capital Costs
- Adoption of New Technology Changing Habits



"Ok, you are providing some cool technology, but what you are really doing is changing habits."



"70% of the potential improvements available through effective adoption of new technology is unrealized because of resistance to change."



- Leave it to your son to figure out, or...
 - ☑If you have one, or...
- Take the 3-phased approach
 - □Cue: realization that you want to change
 - ■Routine: replace old with new habits
 - ☑Rewards: reinforce behavior



What will your business look like in 3-5 years?

- What business tools will you need?
- What new processes will you need to develop?
- ☑ How you will better manage your risks?
- Who will you trust to help you?



- It is NOT a technology problem
- Adopt Best Practices -> collect good data
- Create Best Habits ->manage using data
- Create Best Profits ->make adjustments
- Reduce Risk -> fully implement with trusted partners & repeat





THANK YOU



Information Management for the Farm