Structuring Your Precision Business for Prolonged Profitability

Precision Farming Dealer Summit Indianapolis, Indiana January 5, 2016

Dr. Thomas L. Krill Precision Strategy, LLC.



























Highlights

1. Scope

2. Mission and Vision

3. Local Management





















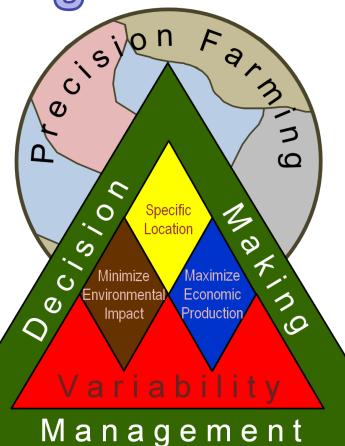








Scope of Precision Agriculture





























Definition: Precision Agriculture

 A management concept which recognizes variability within the soil environment and maximizes economic agricultural production while minimizing environmental impact for a specific location.

- (Krill 1994)

























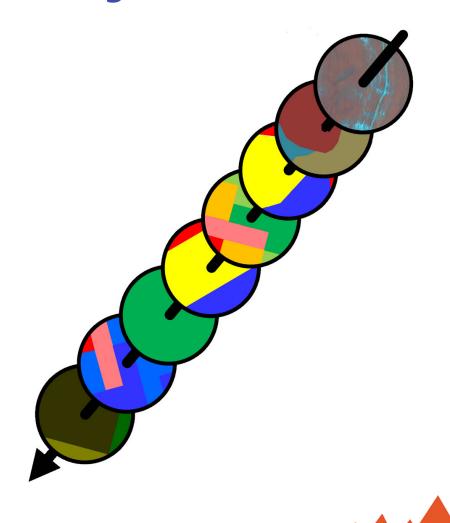




Variability

Required

- Variability has to exist for Precision Agriculture
- Variability is identified in data
- No variability, no need for Precision Agriculture























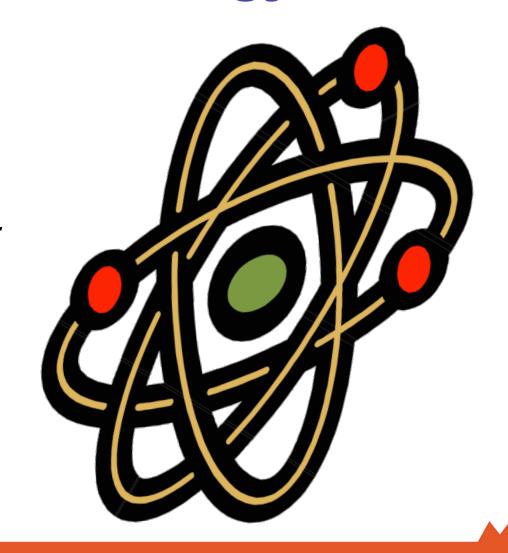






Technology

ENABLER of
Precision
Agriculture, NOT
the DRIVER of
Precision
Agriculture























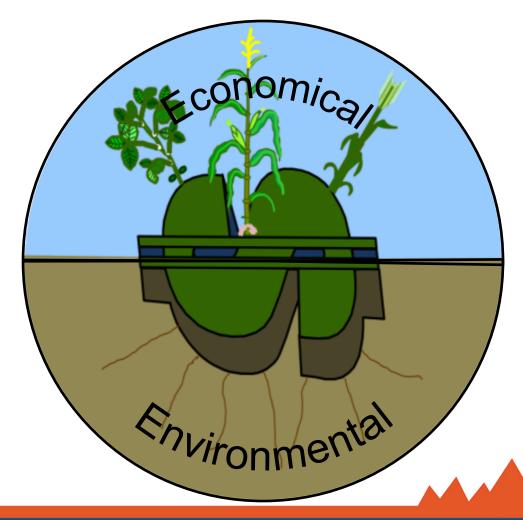






Criteria

- Economical
 - Maximum return
- Environmental
 - Minimal impact
- Precision Agriculture needs to have measurable objectives of performance for evaluation by management





























Decision

- Management Concept
 - Basing decisions upon DATA
 - Analyzing the facts and information (variability)
 - Making DECISIONS
 - o Based on criteria
 - Maximize Economic Production
 - MinimizeEnvironmental Impact
 - DEPLOYING those decisions
 - Enabled by technology





























Agronomy:

 The science and technology of producing agricultural (agricultural production) crops for food, fiber, and energy

Requirements:

- Maximize economic production
- Minimize environmental impact



















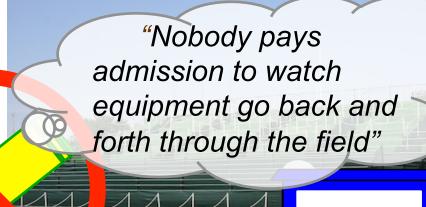








 It is not about the equipment























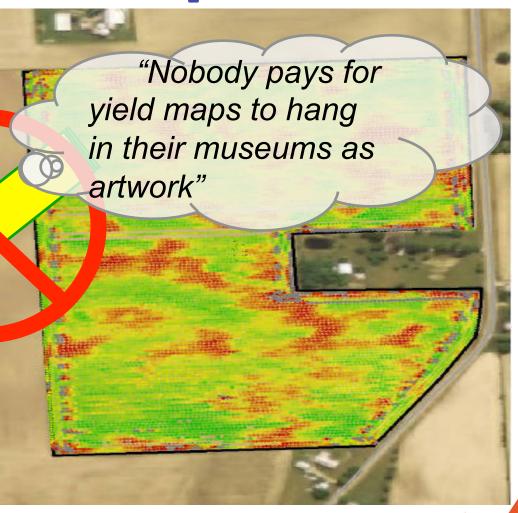








It is not about the technology























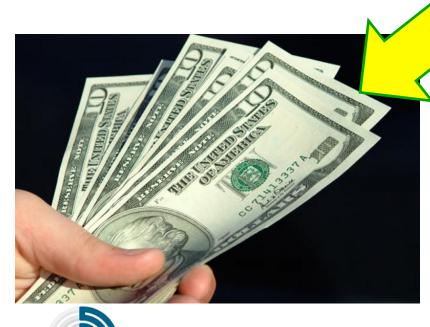


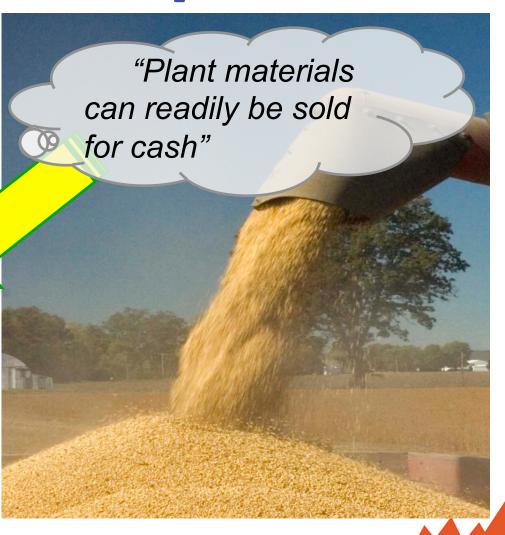






 All the return comes from the plant



























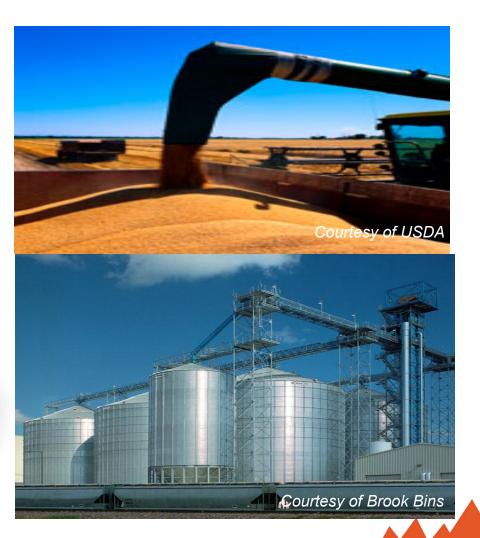




It's about economics

 It is about money not yield.

































It's about management

- Variability is there to be managed
- Decisions are there to be made























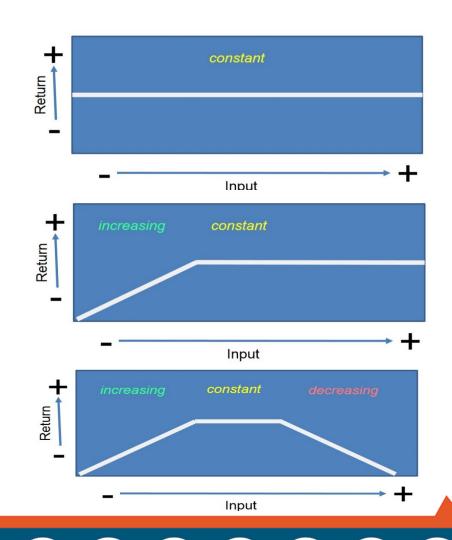








- Crop response will dominate potential return
 - Penalty for under application
 - Penalty for over application
 - Sweet Spot exists



























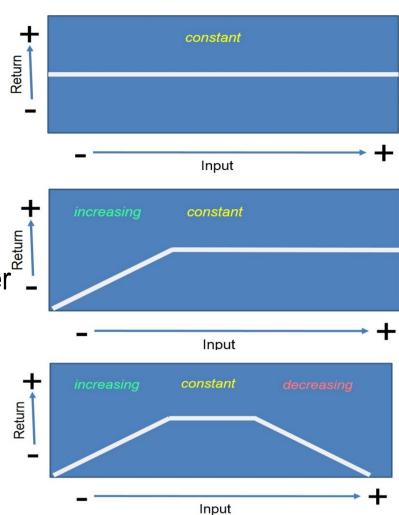


On/Off controls dominate

VRT control

if technology is cheaper
than product

VRT controls dominate





























 Potential Return exceeds the cost of adaptation/practice

A 20% saving of a 2% cost equals 0.2% overall savings (\$2.80/acre assuming \$700/acre cost)

A 10% saving of a 17% cost equals 1.7% overall savings (\$11.90/acre assuming \$700/acre cost)

Expense		Cost
Land		36%
Fertilizer	N	17%
	Р	2%
	K	2%
Seed		18%
Crop Protection		8%
Equipment		13%
Labor		4%



















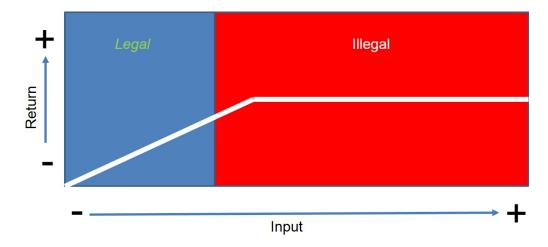








- Regulation
 - Can change the entire ballgame



































Deployment – way out front early (mechanical, guidance)



Data – gaining ground (storage, communication, standards)



Decision – rough time getting out of the gates (black box)



























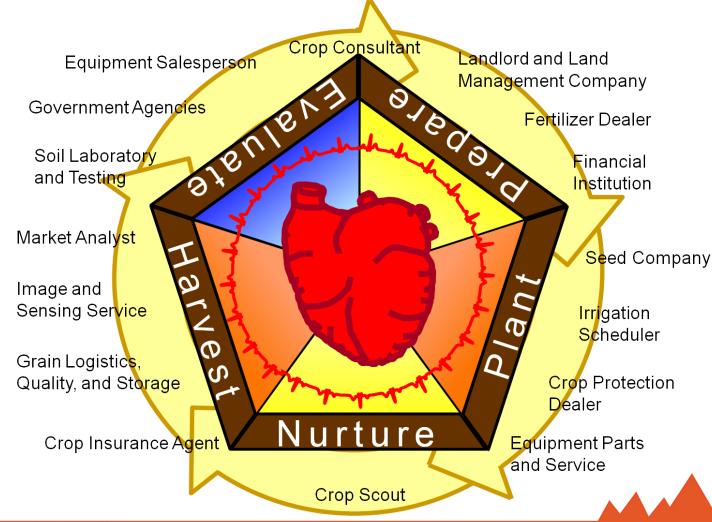






It's about the system

Production
 Agriculture
 does not
 operate in
 a vacuum

























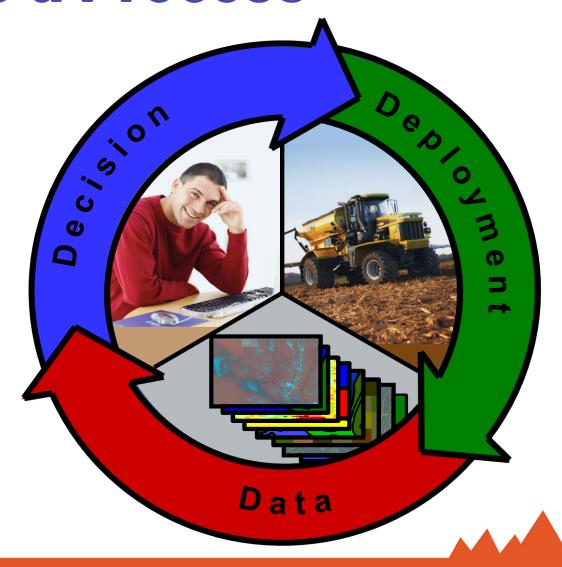




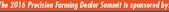


It is a Process

- Management Concept
 - Basing decision upon DATA
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Precision Agriculture

























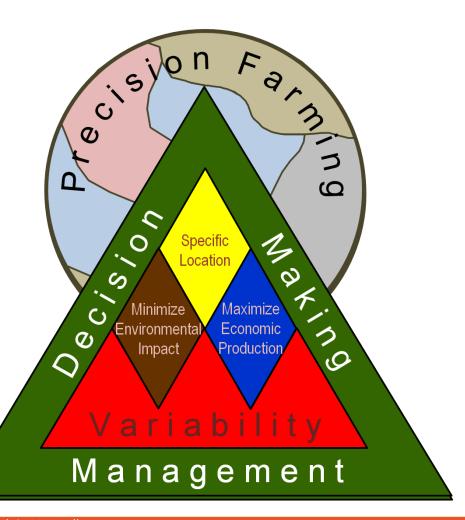








Where do you fit in?































Where is your organization going?

CUSTOMER: Large Agricultural Organization

FOCUS: Agronomic, Production Agriculture

CUSTOMER: Traditional, Farm Base

ORGANIZATION: Single Store

ORGANIZATION:
Multi-Store
Organization

CUSTOMER: Specialty Agriculture

FOCUS: Large Property Owner

CUSTOMER: Part-Time Farmer



















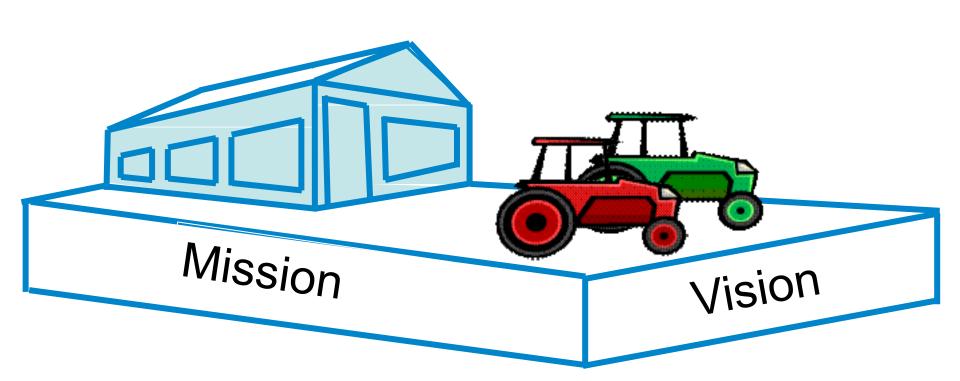












The Foundation of a Business

























management solution solution teamwork ership & Mission corporate culture

Smpetition all trates

Customer disposition

Cu imagination .⊑ idea achievement

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loss of opportunity g no solutions

Cause of

no innovation

motivation

compliant

no plan control in con competition

cxparision

enablement

orate culture ⊆ lack of vision

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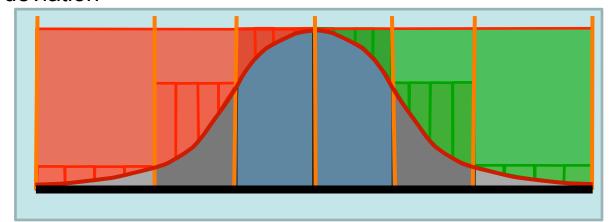




- Today's Agriculture is not satisfied with Mediocrity
 - Six Sigma
 - Business Protocol
 - based on standard deviation

They **WANT**, **EXPECT**,

and will get **THE BEST**





























Vision without action is a daydream.

Action without a vision is a nightmarg.



Japanese Proverb



























Where there is no vision, the people perish



Proverbs 29: 18



















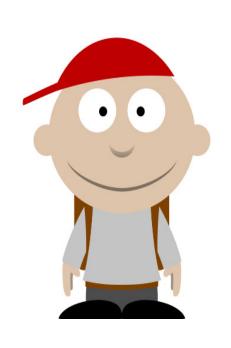








Where do you fit in?

























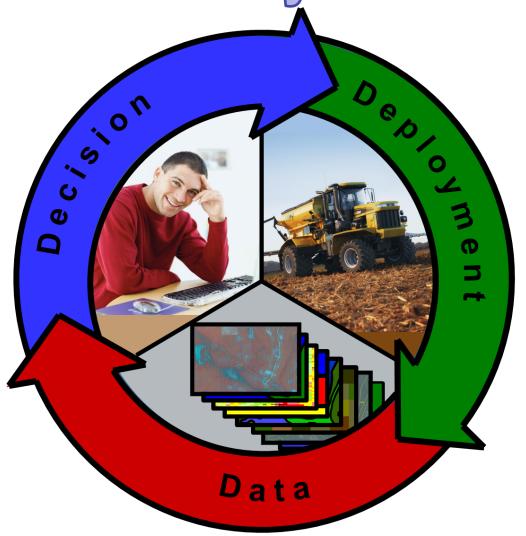








Where do you fit in?





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"Leadership is the capacity to translate vision into reality."

























Warren G. Bennis









Management is doing things right.

Leadership
is doing the
right things

Peter Drucker



























"Leaders establish the vision for the future and set the strategy for getting there."





























How are you doing?



- Ability is what you're capable of doing.
- Motivation determines what you will do.
- Attitude determines how well you do it.

Coach Lou Holtz



























How do they fit together



Mission and Vision

Precision Agriculture





9















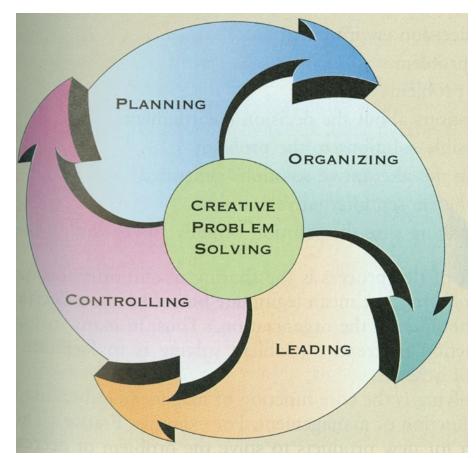








- Define Precision Agriculture
 - for your organization
- Manage Precision Agriculture
 - for your organization

























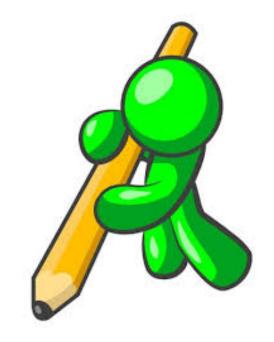






Plan

- Identify where you are going to participate
- Define scope
 - boundaries
- Remember: You do not have to do everything



Good Luck is the result of Good Planning





























Planning is bringing the future into the present so that you can do something about it now



























Alan Lakein

Failure is easy with no planning





























opportunity team expertise competition capabilities 9 history strengths & corporate interests interests broofit community relationships customer base



















































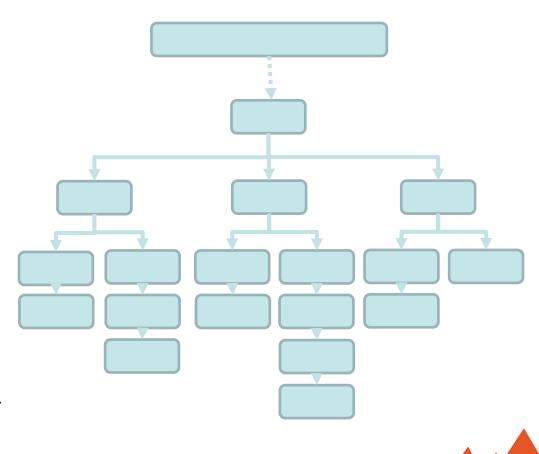






Organize

- Fit it into your organization
 - position
- Financial Obligation
 - Overhead Cost
 - Profit Center
- Reporting Structure
 - Who is in charge
 - Hard to report to multiples when they each are going their own direction









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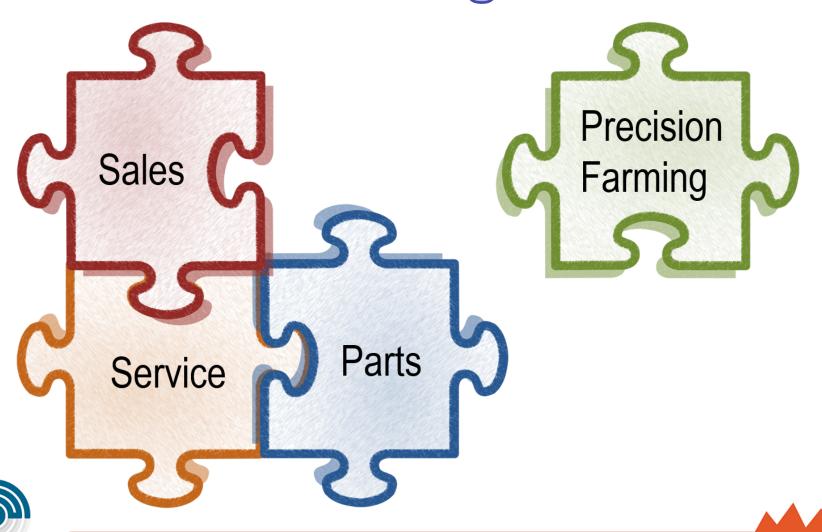




































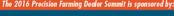


Internal

- Select a Champion (manager)
 - · Responsible for
 - · Responsible to
- Identify Product Offering
- External
 - Partnerships
 - Who can do what we choose not to do
 - Symbiotic Relationships
 - Training
 - Do we need to train them
 - How to work with us































cooperation a education organized leadership (responsibilities

lersh greater than individual

teamwork thoughtout

solution oriented

reciprocity by purposeful relationships





sustomerfocused























Product Offerings

- Physical Product
 - Hardware
 - Software
 - Parts
- Education
 - Training
- Data
 - Warehousing
 - Processing

- Services
 - Installation
 - Repair
 - Maintenance
 - service contracts
 - Navigational
 - RTK Network
 - Support
 - · call center
 - · service contracts



























Revenue Stream

One Time

- Sales
 - Equipment
 - Parts
 - Hardware
 - Software
- Education
 - Conference
 - Meeting

Perpetual

- Service Programs
 - Maintenance
 - Upgrades
- Subscription
 - RTK
 - Data Storage
- Support
 - Call Center
 - Data Processing



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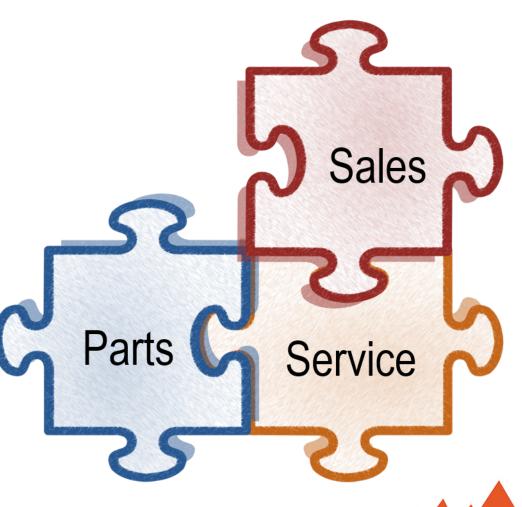








- Define precision's role
 - Sales
 - responsible for Deal
 - responsible for Inventory
 - support only
 - Parts
 - responsible for Inventory
 - support only
 - Service
 - responsible for Labor
 - responsible for Offerings
 - support and educational only





























I just want it to work

Lead

- Customer Experience
 - Meet and exceed their needs
 - Be supportive of their wants and desires
 - Develop relationships





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understandi dependability solutions က relationship understanding confidence support

Ome interactive

enjoyable by just enabling personable is form service



























Control

- Report to
 - Individual
- Responsible for
 - Metrics
 - dollars
 - contracts
 - contacts
- Controls
 - Personnel
 - people
 - Inventory
 - product































absorption success performance neasurement dashboard methodology methodology methodology evaluation better in better in

quantity indicator results Metrics plan



























Good Metrics

- Controllable by the team
 - result of their action not someone else
- Readily available
 - · within business system
- Objective measurement
 - definable
 - chartable
 - benchmark capable

















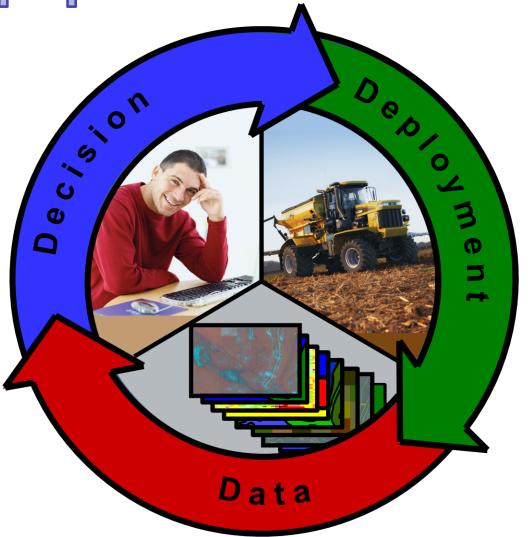








































- Deployment
 - Goal
 - Your people will be the only ones in, around, and on that equipment.
 - Sales
 - Parts
 - Service
 - Communication
 - Connection and integration with Data and Decisions























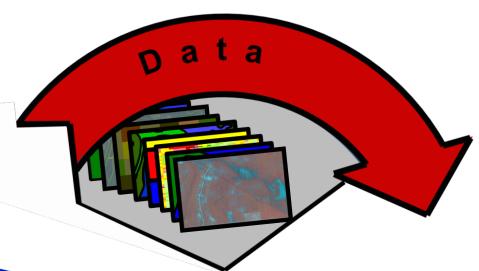








- Data
 - High Capital Expenditure
 - Investment Groups
 - Very Scalable
 - Quantity Driven





Reality

- Probably will end up being only a couple of organizations
 - Very Large
 - Technically Focused and Trained

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- Decision
 - Information Driven
 - Much will be attempted to be kept confidential
 - Data Scientists
 - Trained in Big Data Techniques
 - Reality
 - Probably controlled by the agronomic input developers/providers



























- Our challenge
 - Lose the stock holders
 - Lose capital
 - Lose the customer
 - Lose market share
 - Lose the employees
 - Lose motivation





























Closing Thoughts

- Do what you do and do it well
- Identify and protect your scope
- Exploit partnerships and relationships
- Get paid for what you do, measure what you do, and reward for what you do





























Questions



"The only stupid question is the one not asked"



























"You are either going forwards or backwards, there is no standing still, Never Quit Learning"

Tom Krill



























Thoughts of

Dr. Thomas L. Krill, PhD "a Northwest Ohio Farm Kid" Degrees The Ohio State University Iowa State University Public Employment High School College Extension Private Employment **Equipment Industry** product development wholegoods "IRON" service products

Agronomy Supply Industry

protection) service offerings



Over two decades of experience in Precision Farming with field experience in over half the territories and states of North America









retail (fertilizer, seed, and crop





















Thank You

Dr. Tom Krill

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