

White is the new Black -Selling Clouds to Management

Andrew Warren – Bridgestone **Panel**:

Michael Gulway – Advanced Solutions
Jason Barnett – Advanced Solutions
Rick Noriega – VACCO
Wayne Edwards – Autodesk
Eamon O'Gorman – Autodesk
Brett Moushon – Autodesk
Matt Wegmann - ECI
Orrin Bourne – Greenpoint
Avi Robbins - Porex

BM7272 After you have bought in at AU and your Reseller has given you a wonderful demo now you have to Justify PLM. In this class we will discuss things such as ROI tools to help come up with the funding, Using industry standard savings and how to apply those to your company, Straw man of the selling process, where Autodesk can help and what others have done to make this happen. Tangible savings can be hard to identify since so much of the savings comes from not spending money from mistakes. How can you identify those areas that cost your company \$\$ now to save with PLM360? The idea of spending money in the cloud can be hard to wrap your mind around.

Learning Objectives

At the end of this class, you will be able to:

- Finding savings at your company
- Applying an ROI to PLM360
- Pitfalls to watch out for when presenting this to management
- Teaching people to think differently about software vs. the Cloud

About the Speaker

Andy is a designer and software consultant specializing in implementation of CAD and data-management software and 3D design. Based in Nashville, Tennessee, he has over 15 years of experience with Autodesk, Inc., products. He leads a team that oversees support, training, implementation, and licensing for Bridgestone Americas, Inc. Bridgestone has over 1,500 users in 8 countries, along with long-range support worldwide. Andy supports numerous disciplines, from Revit software and ReCap software to Inventor software and Autodesk PLM 360 software. He has worked for Striker Systems, a computer numerical control software company focused on software implementations. He also was the Autodesk Authorized Training Center (ATC) manager for Striker Technology Solutions. He worked in the environmental engineering field and the retail store fixtures industry for several years. Certifications include Manufacturing Certified Implementation Expert, Inventor Professional, AutoCAD Professional, lean manufacturing, and certification in machine programming. Andy is president of Microsoft Test Automation User Group (MTAUG) Local Users Group.

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A little about this class...

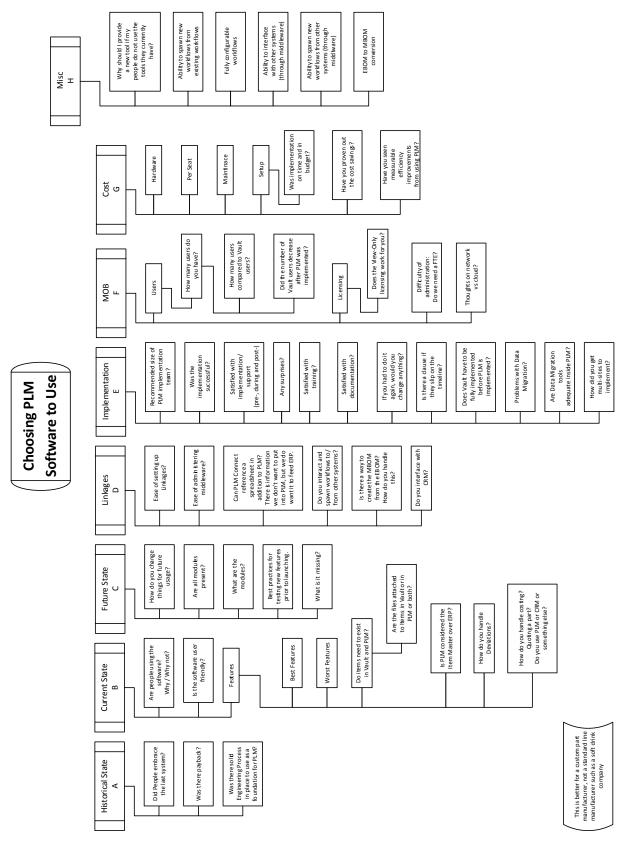
This class will be a panel discussing different aspects of gaining approval for; Finical, political, technical, emotional, territorial, confidential and various other management hurtles for PLM360. We have brought together several different people for this panel. We will be taking questions and requests as we go along.

Finding savings at your company

The only reason most companies will spend money is to either make money or to save money. There are a couple different was to find the savings to help pay for PLM. The first starts with your SME. Only you know your business and your company. Next is to get your reseller or Autodesk to do an assessment. This will help you find areas you may not even realize PLM can save you money. We knew we had many different systems at Bridgestone but it took the assessment to realize just how many there were.

Savings can mean many different things. You have areas where you can spend less i.e. your Engineers spend 10 hours a week each doing paperwork, PLM will cut that to 1 hour a week. Then you have Cost Avoidance i.e. you had five parts last month that had to be re-worked. This was due to the wrong drawing being used. With PLM you can reduce that by ensuring you always have the latest.

- Why do you think you need PLM?
- Where are the current pain points you think you can eliminate with PLM?
- What were the main areas of savings in your company?
- Cost Savings vs Cost Avoidance
- Do you know how much time your company is wasting or just know you are wasting time?
- Do you know what you want PLM to do for you?
- What about compared to other divisions or software?



Sample PLM Needs / Wants List Integrated Lifecycle Management System Coverage

Functional Requirement				
	PLM	Matrix	Univeem	SAP
1. Equipment Features	37			
Detailed, easily accessible and modifiable Equipment Hierarchy via an intuitive interface Ability to link and search via numerous types of information related to an equipment # (stock/non stock items, criticality, where used, cost center)	X			
2 Admity to link and search via numerous types of miormation related to an equipment # (stock/nonstock terms, criticality, where used, cost center etc)	x	x		
2. Stores / Parts Management Features	^	^		
Standardize store item creation that allows searchablity by several criteria (Drawing #, Description, Equipment # used on, etc)	X			
2 Repairable flem Work Orders to manage repairable parts	X			
3 Vault Change Management activity triggers stores review activities. If a revision is made to a drawing, it will notify the stores manager to verify the				
part they have in stores is still usable and not obsolete now	X			
4 Standardize and consolidate barcode label management in CMMS (manage inventory, location, etc)	X			
5 Nonstock item reference #'s are assigned automatically (manage locally)	X			
6 Multi-store management (multiple plants, as well as main stores + auxiliary locations within a facility)	X			
7 Parts issued to WO's that are not currently listed on the BOM associated to the equipment # will ask if it should be added.	X			
8 Warning when a requisition is entered for a part(s) that already has another requisition for it in the system being processed	X			
9 From Work Order, all users should be able to enter requisitions and receive status change notifications.	X			
10 Ability to view PO's in the frontend interface screen for viewing	X			
3. Work Order Features (General)				
1 Multiple classifications for Work Order types including RTM interaction	X			
2 Work Order routing and approval process specific to WO classification	X			
3 Defer to PM or Shutdown through one click	X			
4 Default views and parameters specific to users (Engineer, Maintenance Technician, Planner etc)	X	X		
5 Mandatory fields to populate with drop down menus when creating new WO's	X			
6 Error correction capabilities (with approval process) for WO's after the WO has been completed	X			
7 Notification sent out when WO exceeds estimated repair time so schedules can be adjusted accordingly	X			
8 Ability for all plant personnel (operators, staff, maintenance, etc) to easily enter a demand for a maintenance job	X	7.0		
9 Ability to link multiple documents and file types to a WO from an external database (drawings, LOTO, procedures, etc)	X	X		
4. Preventative / Predictive Maintenance Specific Features	-			
 Self generating Work Orders based on set frequency or counter (Ability to create manually as well if needed) 	X	X		
Auto initiate lesson request to manager if failure control workflow indicates a training weakness Ability to prove DMs in a real based formula was while less of the province of the pro	X			
3 Ability to create PM's in a task based format vs. machine based when needed	X			
Ability to create maintenance route for multiple equipment inspections Ability to create maintenance route for multiple equipment inspections Ability to create maintenance route for multiple equipment inspections.	X			
 Ability to enter and/or receive uploadable data from vibration, thermal imaging, oil analysis, ultrasound and motor testing reports. PdM trends displayable in the PdM Work Order so technician can immediately see negative trends and notify supervisor 	X			
	Λ			
5. Emergency Maintenance Specific Features	- 1/			
1 When Work Order is created, technician is prompted with questions following the Failure Control Workflow	X			
Planners / Supervisors are prompted to answer questions based on the Failure Control Workflow input by the technicians When notes are insent to an Emperor WO BOM completion triangle has partially a section to similar any investigation.	X			
When parts are issued to an Emergency WO, BOM correlation triggers horizontal inspection to similar equipment	X			
4 A list of historic or repetitive failure causes and adjustments are displayed to improve troubleshooting efficiency 5 If "follow-up needed" is indicated when closing WO, system will recommend opportunities based on populated WO fields and future planned activity	- X			
1 Tollow-up needed its indicated when closing wo, system will recommend opportunities based on populated wo needs and future painting activity	x			
6. Work Order Monitoring & Follow-up	Α			
	X	X		
Quick categorized status monitoring of all open Work Orders (ready to work, waiting on parts, scheduled, etc) Items that need follow-up (Kaizen, PM modification, etc) after being prompted through the Failure Control workflow are tracked in WO with	- ^			
responsible person and due date. Open follow-up item WO's are trackable	x			
a Track partial PM's & cancellations	X			
4 Kaizen needs trigger change request in Vault and PLM	X			
7. Maintenace Planning / Scheduling				
1 Extensive Scheduling Tool with filtering and simple adjustment capabilities. Scheduled work will track parts and manpower costs of each WO	Х	Х		
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Applying an ROI to PLM360

After you know for sure what you want and what your pain points are you know need to calculate the ROI. I have been doing ROIs for most of my career and most revolve around CAD and Engineering software. I have to say PLM360 was one of the most difficult to pin down an ROI.

We broke ours down into the four main areas we want to address with PLM360: Maintenance Labor, Repair parts, Engineering Labor and retiring other software's. The parts and softwares were the easy numbers; we knew exactly how many parts we buy and how many we use. So anything outside of that is considered waste. Next we know the other softwares and the maintenance cost associated to those. The labor is the hard part as it is a cost avoidance not a cost savings. We spent time analyzing work orders that lasted longer than the standard repair. We also spent time talking to the techs gathering anecdotal information. We then asked what was a reasonable number for savings (for the sample it would be 5%-10%) then we cut it in half. This creates a very conservative number so it is less likely people will question it. That is one way we calculated savings.

Most of the savings in the ROI are very subjective. My advice is to make sure that you go conservative on the numbers. Also ensure you have narratives of your savings stories to back you up. Autodesk has several very good people to help you work on your ROI. However they will never know your business as well as you know it. You have to be able to see the potential savings and identify the areas to have Autodesk help you with it.

- How did you calculate your ROI?
- How much was Tangible vs Non Tangible?
- It is not a one size fits all ROI

Sample PLM ROI

he notes in these boxes give a reccomendation on the efficiencies that ould be seen based on current state.

:: Line # 1 shoes that is you already have a Computerized Inventory and anual Work Order System, you should see a 0-5% increase in efficiency re entered 3% for the calculation)

he numbers were based on discussion amond Bridgestone teammates, nd industry studies(including the pdf document supplied to you with his excel sheet "roi_for_maintenance_improvement_projects")

range Boxes are manually entered values

I. Maintenance Labor Costs	Year 1	Year 2	Year 3	
 Time wasted by personnel looking for spare equipment parts: 	3%	1.5%	0.75%	The not
 Time spent looking for inormation about a work order: 	3%	1.5%	0.75%	could be
 Time wasted by starting wrong priority work order: 	1%	0.5%	0.25%	
 Time wasted by equipment not being ready to work on: 	2%	1.0%	0.50%	Ex: Line
5. Total Wasted Time:	9.0%	4.5%	2.25%	Manua
6. Total number of craftsmen:	1250	1228	1219	(we ent
7. Total number of hours worked by craftsmen in one year, hrs.	2,600,000	2,553,200	2,535,966	
8. Total number of "wasted" hours for craftsmen in one year, hrs:	234,000	114,894	57,059	The nun
Avera	\$ 40.00	\$ 40.00	\$ 40.00	and ind
10. Potential Savings:	\$ 9,360,000	\$ 4,595,760	\$ 2,282,369	this exc
11. Percentage of Potential Savings obtainable:				
12. Total Savings:	\$ 1,872,000	\$ 689,364	\$ 342,355	
II Maintenance Material Costs	Year 1	Vear 2	Year 3	
4	1	2 600	0000000	
J~ /0	000,000,000 50,	2,000	3 6,000,000	Oran
24. % or time spares are already in stores when others are purchased:	3%	3.0%	1.0%	
	,,	\$ 240,000	18	
ESUN	\$ 24,000,000	\$ 23,280,000	\$ 23,047,200	
17. Estimated inventory reduction:	3%	L.U%	L.U%	
ä	ı			
19. Property lax savings on one time reduction:		\$ 69,840	\$ 69,142	
20. Total savings:	\$ 1,336,000	\$ 542,640	\$ 379,614	
III. Avoided Cost of Other Programs	Year 1	Year 2	Year 3	
21. Plant 1	\$ 150,000	\$ 22,500	\$ 22,500	
22. Plant 2	\$ 290,000	\$ 43,500	\$ 43,500	
23. Plant 3	\$ 85,000	\$ 12,750	\$ 12,750	
	\$ 270,000	\$ 40.500	\$ 40.500	
		\$ 10,000	\$ 10.000	
	1	\$ 48.750	\$ 48.750	
		\$ 30,000	\$ 30,000	
	\$ 240,000	\$ 36.000	\$ 36.000	
	l			
	1	7	7	
IV Engineering Lahor Costs	ľ	>	Year 3	
31 Increased efficiency in engineering programs:	70%	7 000		
Total number of anaipaoring staff:	550			
Total number of hours wo	1.144.000			
Total num	80,080			
35. Average labor rate per hour, including benefits for an engineer, \$/hr:	\$ 50.00			
36. Potential Savings:	\$ 4,004,000			
 Percentage of Potential Savings obtainable: 	20%			
38, Total;	\$ 800,800	· · · · · · · · · · · ·	· · · \$	
V. Total Savings and ROI	Year 1	Year 2	Year 3	
39. Total from Section I:	\$ 1,872,000	\$ 689,364	\$ 342,355	
40. Total from Section II:	\$ 1,336,000	\$ 542,640	\$ 379,614	
41. Total from Section III:	\$ 1,840,000	\$ 284,500	\$ 284,500	
	\$ 800,800	- \$	· \$	
	\$ 5,848,800	\$ 1,516,504	\$ 1,006,469	
44. Total projected price for improvement program:	\$ 7,995,000			
45. Return on Investment:	1.367			

Pitfalls to watch out for when presenting this to management

- 1. The number one issue I have had with my management was it was too good to be true. We have a company form that we are required to put a ROI into our template. We broke the form due to the ROI being too fast. The formulas could not handle that large of a payback that quickly. Remember most managers learn early in their career if it is too good to be true it probably is.
- 2. Next they want to know when are they going to see the money, or when are they going to see the ROI? This is a hard question to answer if you have never implemented a PLM software at your company or if you implemented one that you are replacing. Remember once you get done spending money on development, implementation, testing, training and the like, there will be a ramp up period. So if you have 12 months to get everything done it will be another 12-18 months before you see full savings.
- 3. What is your 5 or 10-year cost of ownership going to be? If you are doing this as a project you have the initial dev costs, but remember you have training and software costs every year after that. Then any kind of add on you may have such as tablets or smart phones that you don't already have.
- 4. Can do attitude! If you ask a sales guy in most any field if they can do something, they will more than likely say yes they can. I have found I am the same way with PLM, if management asks can PLM handle this or that the answer is usually yes it can. The problem with that is you can bite off more than you can chew. I am to the point where I am actually marking off things that PLM can do but I am going to say are outside of any future plans. If not it will grow into this huge unmanageable beast of a project that will never start due to its size.
- 5. How much of this is the "Cool" Factor? As a technology advantages for my company it is my job to find new technologies. But how do I prove that this is not just for my resume or the coolness that is the cloud. It is almost like you have to lead them to water and let them see the cool tools before suggesting doing them.

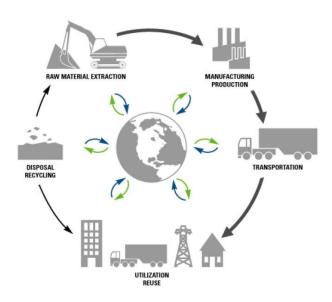
- Top 5 Gotcha's to watch out for
- Top 5 questions from Management that you did not expect
- Figuring out needs vs. wants

Teaching people to think differently about Software vs. the Cloud

PLM is not software or Servers or the Cloud, but Product/Program Lifecycle Management.

In fact Wikipedia says:

In industry, **product lifecycle management** (**PLM**) is the process of managing the entire lifecycle of a product from inception, through engineering design and manufacture, to service and disposal of manufactured products. PLM integrates people, data, processes and business systems and provides a product information backbone for companies and their extended enterprise.



I actually don't like the name PLM360 because it tends to confuse people. It blurs the line between; what it a software product and what is a process. Once you understand what is PLM and what is PLM software then you move onto the difference between terrestrial software and cloud software.

Next we have to get into security, in a small company this can be convincing an owner that PLM360is a safe platform. In an enterprise, it is a matter of dealing with Security Architects, Committees, out of date standards and even evil overloads. We were able to get around this by having the Vault store all of our IP on our servers. Next we use Windows Authentication to log into our PLM client. This gives us the two-layer auth that our IT requires.

- What is your definition of PLM?
- To me you will never win the Cloud vs. local security battle, work around it, don't fight it.
- What are you allowed to do vs. what can you not do in the cloud.

In conclusion

You are not alone! Obviously, you know that being here at AU surrounded by other PLM users and future users. But you have several different resources in your reseller, Autodesk, Peer groups, forms, etc. Ask for help you will need it. Autodesk has one of the simplest PLM softwares to use in PLM360, but that does not mean implementing PLM in your company can be easy. You will have many pitfalls to watch out for.

Notes:	

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