

Presented by:

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Agenda

- Discover meaning of term "scrap learning" & its impact on wasted organization resources & lost credibility with stakeholders
- 2. Analyze how to build an algorithm that predicts which learners are most & least likely to apply what they learned in a training program back on the job & which managers of the learners are likely to do a good and poor job of supporting the training
- 3. Examine the 3-phase, 9-step Predictive Learning Analytics methodology using data from an actual implementation
- 4. Examine the 6 benefits of using Predictive Learning Analytics

Scrap learning: What is it?



Scrap Learning

Term that describes the gap or difference between learning that is delivered and learning that is applied back on the job





How big is the problem?



Poll

In the average organization, what percent of learning that is delivered ends up as scrap?

A. 25%

B. 45%

C. 65%

D. 85%

Benchmark Study 1

45%

Benchmark Study 2

> 15%

Applied new skills back on the job

< 20%

Didn't try to apply new skills back on the job

65%

Tried applying new skills back on the job, but reverted back

Houston, we have a problem!

Source: James Lovell, Apollo 13 flight

The solution:

Predictive Learning Analytics™

Definition

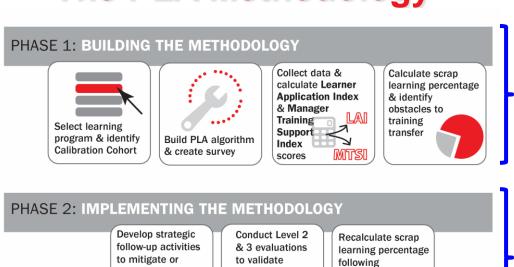
Predictive Learning Analytics:

Methodology for peering into the future, at the conclusion of a learning program, and predicting learner outcomes and actions, with the intent of changing those outcomes and actions for the better

PLA Mission

To provide L&D professionals
with a standardized methodology
for measuring and managing scrap learning

The PLA Methodology



accuracy of PLA

algorithm

implementation

of strategic

follow-up activities

Changing those outcomes & actions for the better

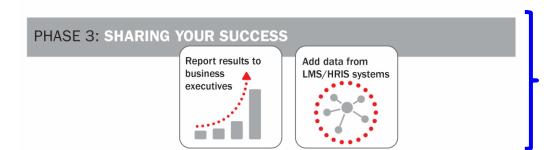
Peering into the future &

predicting

learner

outcomes &

actions

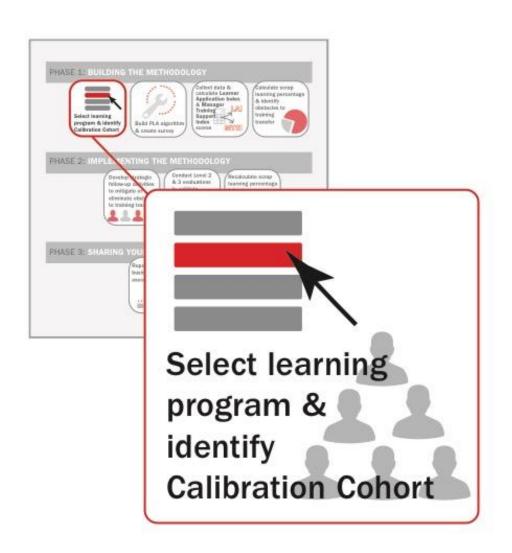


eliminate obstacles

to training transfer

Reporting your results

Phase 1: Step 1



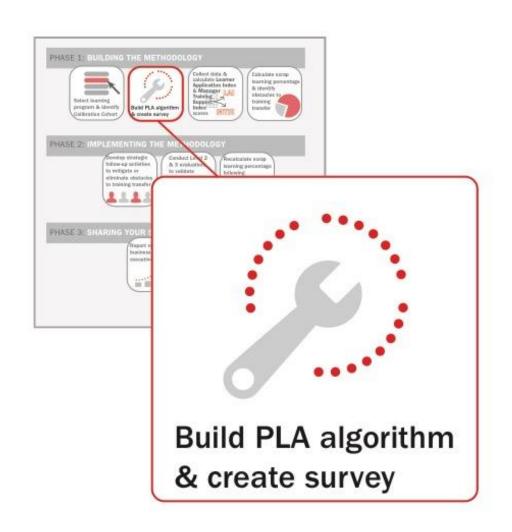
P Set Look

Select a Learning Program

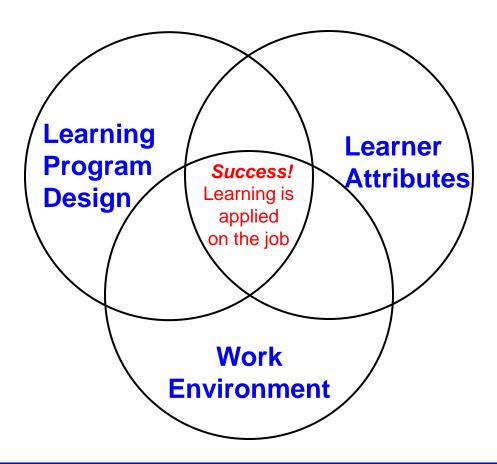
Three Guidelines:

- Planned learning initiative not informal learning event
- 2. Has a high profile
- 3. Large number of participants are scheduled to attend

Phase 1: Step 2



The 11 Factors



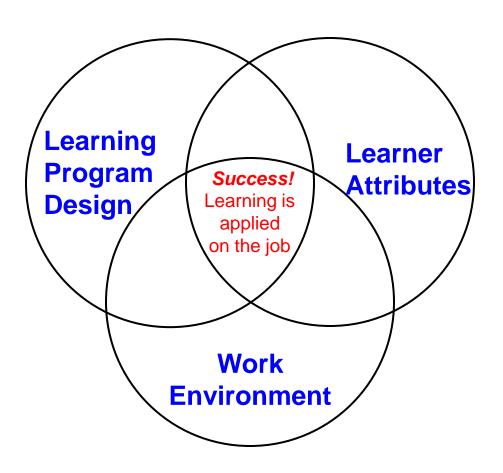
All factors are derived from 3 components of training transfer

Type In Chat

Keeping in mind the 3 training transfer components, what factors are you aware of that are known to contribute to training transfer?

Example: Training transfer increases when learners have an immediate opportunity to apply what they learned in a program back on the job (Work environment)

3 Training Transfer Components



Program Design Factors

- 1. New information is acquired
- 2. Program viewed as relevant to self and job
- Program viewed as important investment in own career development
- 4. Likely improvement in key department business metric if new information learned is applied

Learner Attribute Factors

- 5. Personally motivated to apply what was learned
- 6. Confident in own ability to apply what was learned
- 7. Reflect on key lessons learned & how they can help improve performance
- 8. View program as an opportunity to learn challenging new things

Work Environment Factors

- 9. Managers actively engage learners, post-program, regarding what was learned
- 10. Work colleagues support learners, post-program, when applying new things learned
- 11. Learners have immediate opportunity to apply what was learned

Create a Survey

First Convert 11 factors into survey items that reflect content of target program



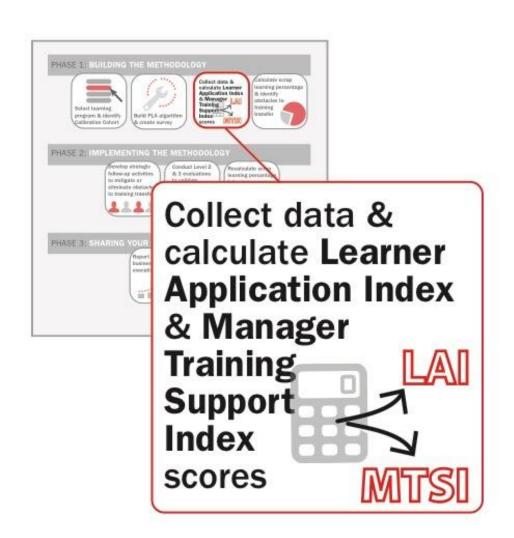
Incorporate survey items into an existing Then Level 1 evaluation or administer as a separate survey

Sample Survey Items

How relevant is the (insert program name) program to you and your job?

How confident are you in your ability to apply the knowledge, skills and behaviors you learned in the (insert program name) program back-on-the-job?

Phase 1: Step 3



Case Study

Company: Water utility in the UK

Business objective: Reduce absenteeism and turnover

Learning program: Developing Personal Resilience

Calibration cohort: 150 delegates

P Closer Look

LAI Individual Scores

Most Likely to Apply

At Risk of Not Applying

Least Likely to Apply

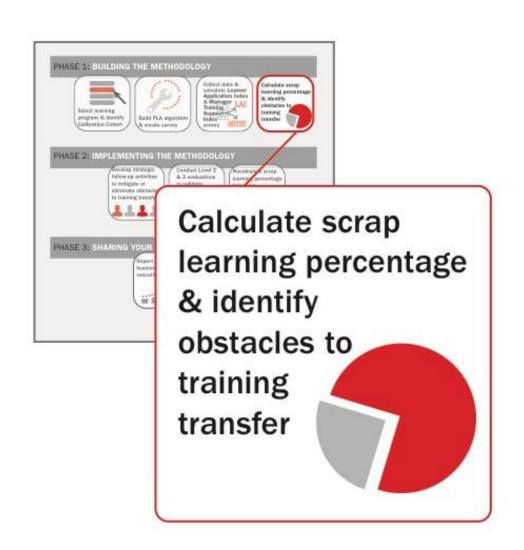
Most Likely to apply LAI: 6.83 - 6.12		At Risk of Not Applying LAI: 6.11 - 4.90							
	LAI	Learner PLA Code							
	6.83	1160							
	6.69	1049							
	6.69	1130							
	6.52	1152							
	6.50	1164							
	6.50	1082							
	6.40	1117							
	6.40	1029							
	6.40	1064							
	6.40	1097							
	6.40	1102							
	6.38	1112							
	6.38	1116							
	6.33	1138							
	6.29	1142							
	6.26	1118							
	6.26	1124							
	6.26	1074							
	6.24	1085							
	6.19	1092							
	6.14	1154							
	6.14	1036							
	6.12	1107							
	6.12	1148							
	6.12	1060							
		1131							

Manager Training Support Index™ Score

MGR	#	MGR AVE	LAI AVE	MTSI	
1115	6	5.67	5.35	0.32] _{Manager}
1939	3	6.00	5.79	0.21	Managers doing a
1960	5	6.20	6.10	0.10	good job
1921	4	5.00	5.63	-0.63	Managers
1929	5	4.00	5.57	-1.57	in need of help
					or noip

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Phase 1: Step 4



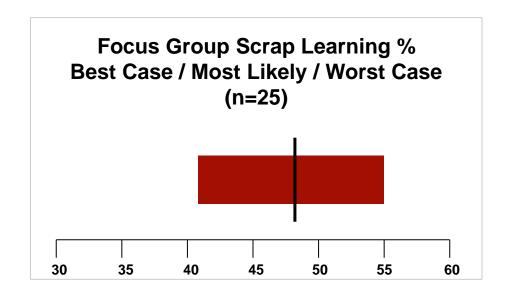
Closer Loot

30 Days Post-Program:

Collect data from random sample of Calibration Cohort participants regarding:

- 1. % of program material applied back on job
- 2. Confidence level of estimate
- 3. Obstacles preventing application back on job

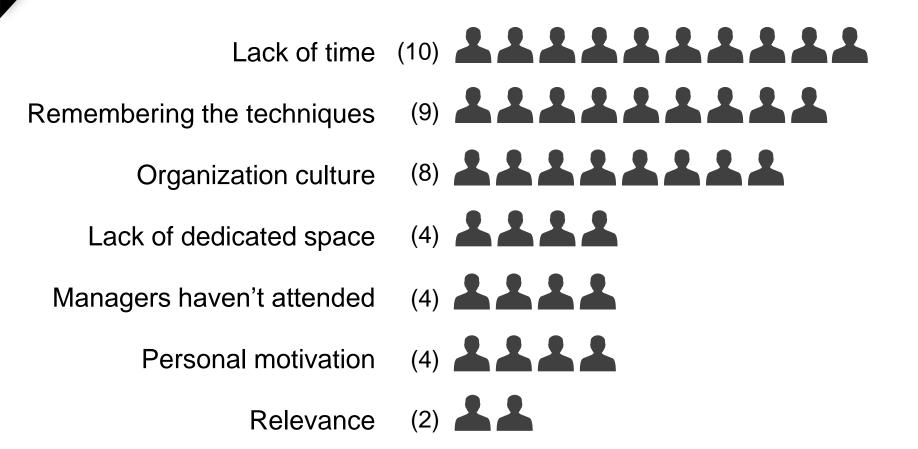
Scrap Learning Calculation



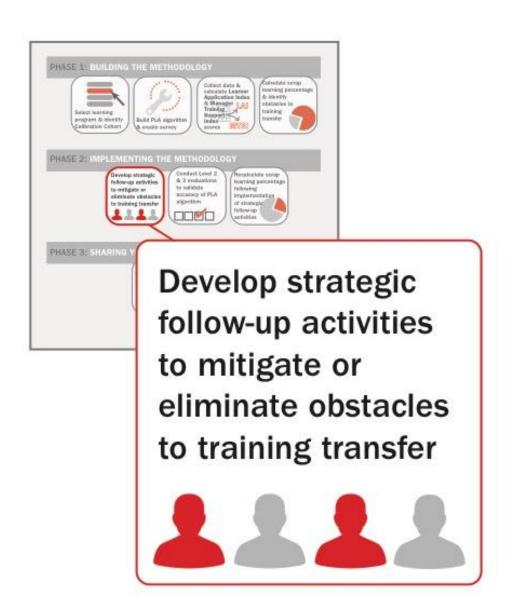
	Baseline (Before PLA process completion)
Best Case	41%
Most Likely	48%
Worst Case	54%

These align with industry standards of 40% - 50% scrap.

Obstacles to Training Transfer



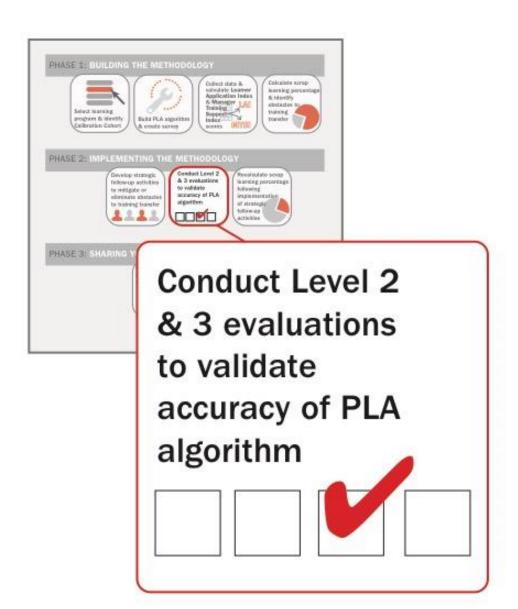
Phase 2: Step 5



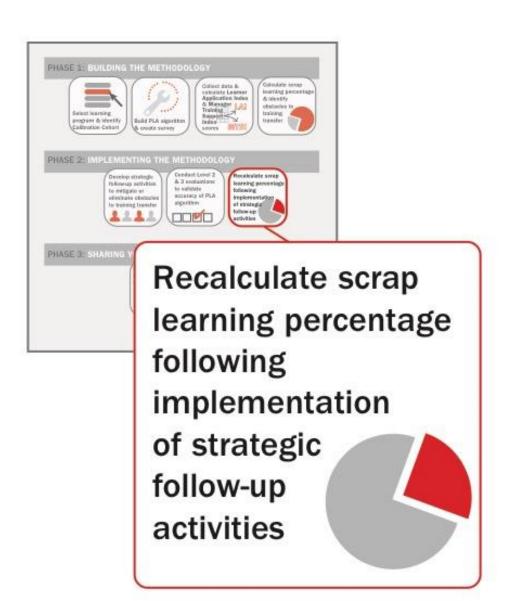
Strategic Follow-up Activities

- Email tips
- ✓ Job aid
- Private space identified
- Managers to attend workshop
- Executives to attend workshop

Phase 2: Step 6



Phase 2: Step 7

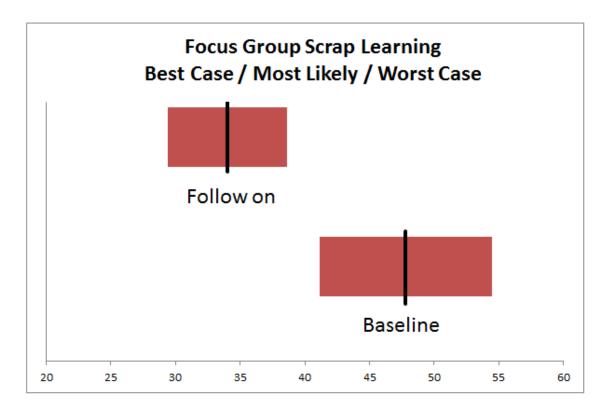


Recalculate Scrap Learning

After implementing strategic initiatives & using a new wave of learners, collect data from random sample of participants regarding:

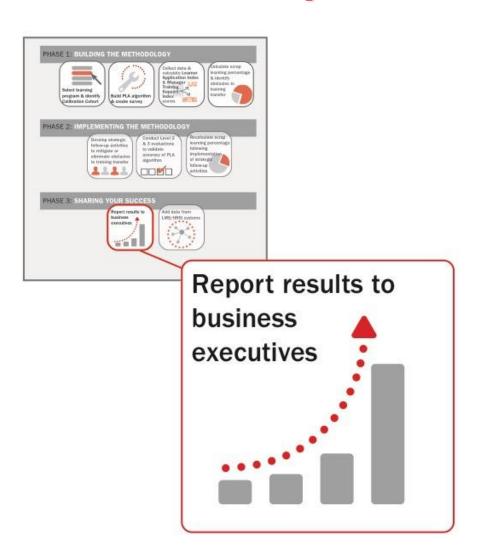
- 1. % of program material applied back on job
- 2. Confidence level of estimate
- 3. Obstacles preventing application back on job

Scrap Learning Recalculation



	Baseline	Follow on
Best Case	41	29
Most Likely	48	34
Worst Case	54	39

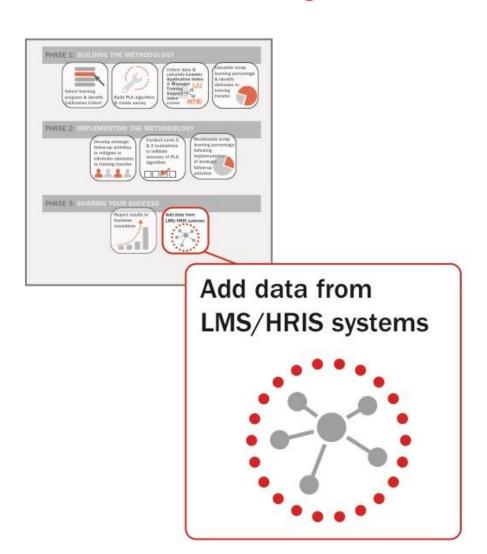
Phase 3: Step 8



Training Transfer Lift

	Baseline	Follow on	Lift
Best Case	59	71	+12
Most Likely	52	66	+14
Worst Case	46	61	+15

Phase 3: Step 9



Benefits of Using PLA

 Less money & time wasted on learning
 that is delivered but not applied back on the job – scrap learning

Increased personal credibility in eyes of business executive stakeholders

Benefits of Using PLA

More effective & efficient use of follow-up activities by targeting participants who are at risk & least likely to apply what they learned in a program back on the job

4. Objective way to identify managers who do a poor job of supporting learning so that their approach can be improved

Benefits of Using PLA

Objective way to compare the overall quality of one learning program with another using a single number

Enhanced reputation among L&D colleagues

Summary

The issue of scrap learning has been around forever. But, what's different today is that with Predictive Learning Analytics™ there now is a way to measure and manage it.



Learn more about Predictive Learning Analytics

Request our FREE ebook:

The L&D
Revolution:
New Rules.
New Tools.

Predictive Learning Analytics™



The L&D Revolution: New Rules. New Tools.

"The goal of L&D is to help learners achieve GREAT RESULTS.

not merely provide great training."

A revolution is coming to the world of learning & development (L&D). With CEOs under increasing pressure to drive growth and deliver results, L&D professionals must find a way to boost training transfer and ensure their learning programs contribute to productivity and growth.

This very point is made by Rob Brinkerhoff, professor emeritus Western Michigan University and noted L&D expert, when he said, "The goal of L&D is to help learners achieve great results, not merely provide great training."

In answer to this challenge, Phillips Associates developed
Predictive Learning AnalyticsTM(PLA), a revolutionary new way to
apply DATA BASED DECISION-MAKING to learning.



Cut the Scrap in Your Organization!

Fredictive Learning Analytics

- A New, Highly Interactive, Two-day Workshop
- March 8-9, 2017 in Chicago
- REGISTER ONLINE AT: http://bit.ly/BoostTrainingTransfer

Register by Feb. 28 and save

\$100

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Type In Chat

Imagine you are on the L&D staff of the water utility company

Keeping in mind the obstacles to training transfer just mentioned, what types of strategic follow-up activities might be used to mitigate or eliminate them?

Obstacles to Training Transfer

