

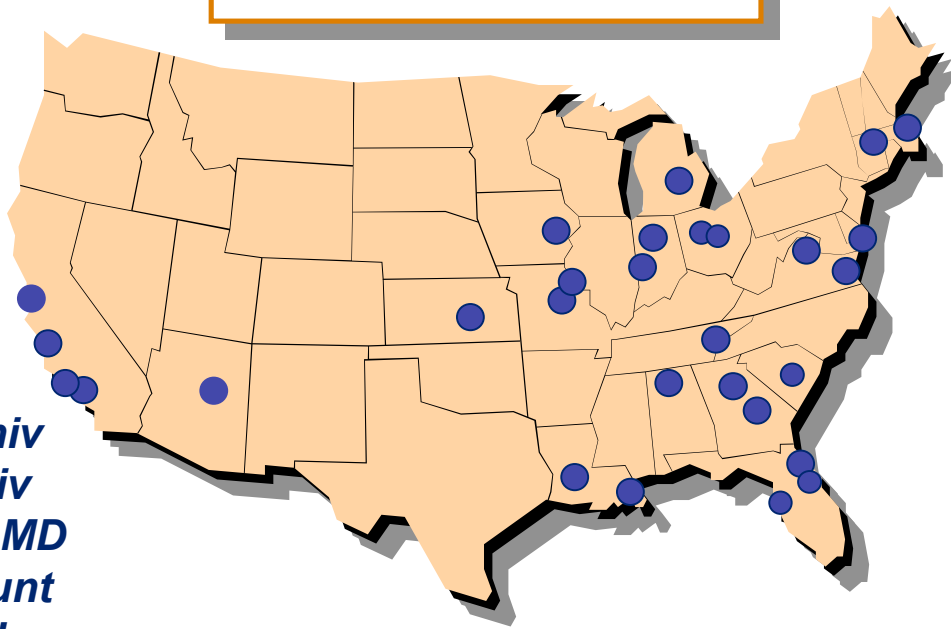


LAI Educational Network: Are We Making a Difference?

LAI Executive Board Dinner
April 17, 2007

● **32 Member Schools**

*AFIT
AZ State U
Cal Poly SLO
Cranfield (UK)
DAU
Embry-Riddle
Georgia Tech
Indiana State Univ
Jacksonville Univ
Loyola College, MD
Loyola Marymount
Macon State Col
MIT
Old Dominion Univ
North Carolina State
Purdue Univ
St. Louis Univ, MO*



3 UK schools ● ● ●

*San Jose State Univ
U of AL, Huntsville
U of Iowa
U of Michigan
U MO Rolla
USC
U of Bath (UK)
U of South Florida
U of Tenn, Knoxville
U of New Orleans
U of Louisiana,
Lafayette
U of Warwick (UK)
Wichita State Univ
Wright State Univ
WPI*

Plus a 3-person (~1.5 FTE) EdNet Staff to coordinate, develop, and deliver curriculum



EdNet Vision & Mission

Vision: EdNet is a **learning community** dedicated to creating, deploying, and continuously improving **curriculum for enterprise excellence**; noticeably impacting workforce capability; and recognized as a **model of collaborative innovation**.

Mission: EdNet will **leverage member's expertise and resources** through collaboration and networking to accelerate the **development and deployment of curriculum** for achieving enterprise excellence.

Educate, Motivate, Innovate

LAI Lean Academy® Courses

Curriculum

- Lean Enterprise fundamentals
- Concepts & real-life examples
- Active learning pedagogy (50%)
- 5 day, 3 day, 1 day formats
- Before & after lean proficiency assessed
- Targeted audiences
 - Instructors
 - Undergraduate or graduate
 - Interns, co-ops
 - Lean newbies



Strategy

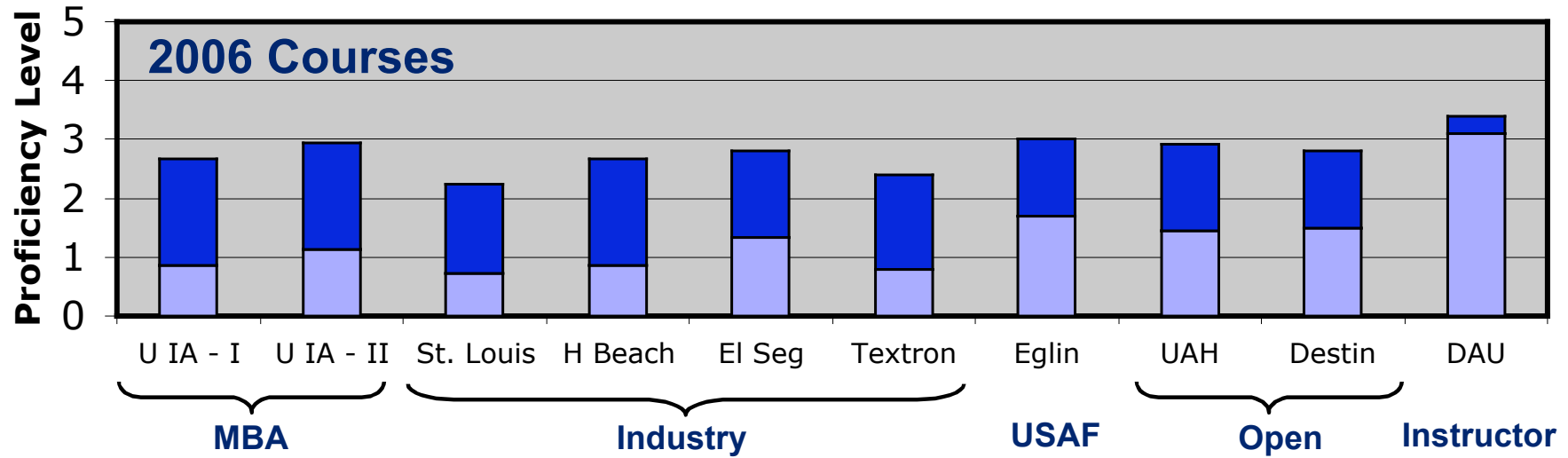
- Develop, deploy curriculum
- Start with LAI offerings
- Diffuse to on-campus offerings
- Link academia with industry
- Develop faculty competency

Lean Proficiency Assessed

LAI Lean Academy VALUE Self-Assessment Scale

0	Unaware	To have no exposure to or knowledge of
1	Aware	To have experienced or been exposed to
2	Ready	To be able to participate in and contribute to
3	Capable	To be able to understand and explain
4	Skilled	To be skilled in the practice or implementation of
5	Expert	To be able to lead or innovate

□ Before ■ Gain



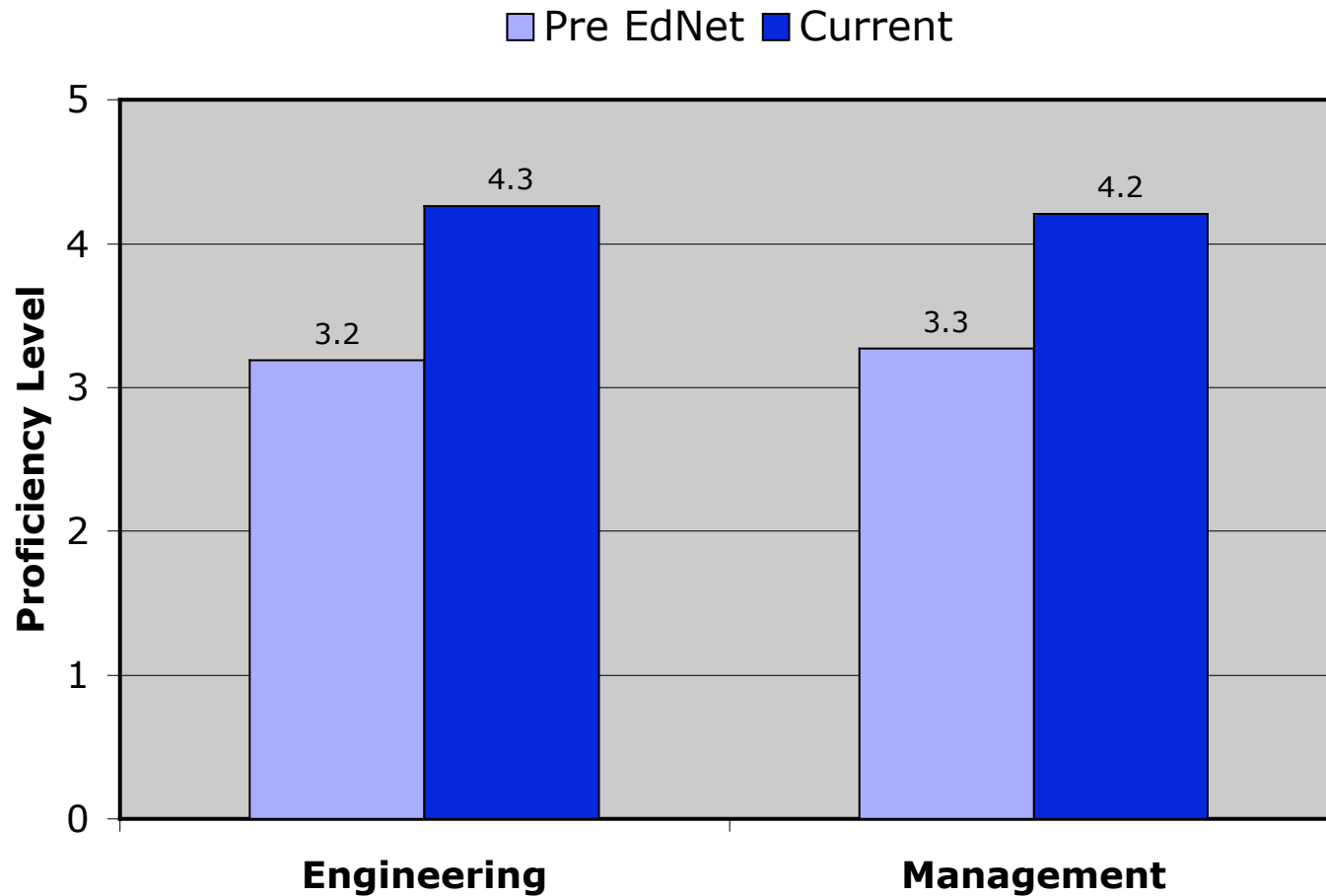
You Can't Teach What You Don't Know

- Faculty competency is required to deploy curriculum
- Is EdNet helping build faculty competency?
- EdNet instructors surveyed in March 2007

Population	Instructor Rank			Institution		Discipline		Academy
	Tenure	Instruct	Other	Private	State	Eng'g	Mgm't	Instructor
Survey (37)	48%	30%	22%	38%	62%	51%	49%	81%
Response (18)	39%	39%	22%	50%	50%	55%	44%	100%

- Findings published in “Enhancing Faculty Competency in Lean Thinking Bodies of Knowledge” for Jun 07 MIT CDIO Conference

EdNet Instructor Proficiency

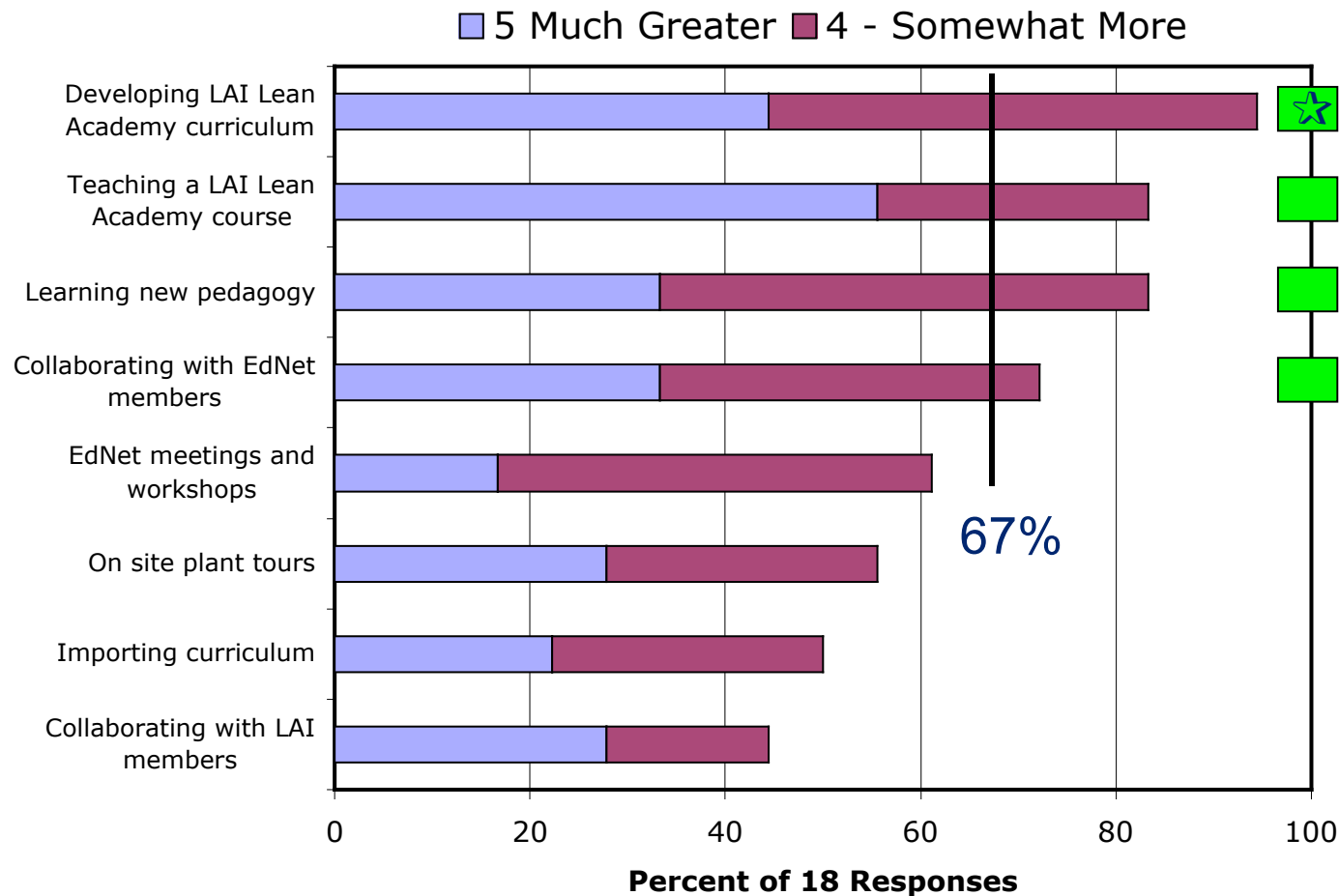


From “Capable” to “Skilled”

Teaching of Fundamentals

Example of 5 Questions Asked

Please compare EdNet activities to other ways of improving your *teaching of the fundamentals* of lean practices and principles.



EdNet's Value Added

EdNet Activities	Competency Areas				
	Awareness of Implementation	Knowledge of Fundamentals	Knowledge of Application	Teaching of Fundamentals	Teaching of Application
Developing LAI Lean Academy curriculum	☆	☆	☆	☆	☆
Teaching an LAI Lean Academy course	☆				☆
Collaborating/partnering with EdNet members	☆	☆			
On site plant tours			☆		
Learning new pedagogy from EdNet members					
Collaborating/partnering with LAI members					
EdNet meetings and workshops	☆				
Importing LAI Lean Academy or other curriculum					
Taking an LAI Lean Academy course					

Legend	67% or more rated this (4) "somewhat more" or (5) "much greater"
☆	Top EdNet activities for this competency area

Curriculum collaboration is effective for improving competency



What the Faculty Say

“I knew essentially nothing about Lean prior to becoming involved in EdNet. I now use Lean every semester within my aircraft design class.” - Professor of Aerospace Engineering. Proficiency change from 0.3 to 3

“The Lean Academy curriculum is modular and provides flexibility to be inserted as a module in existing courses. The real life examples illustrated in the Lean Academy curriculum are fabulous” – Professor of Engineering Management and Systems Engineering. Proficiency change from 3.6 to 4.0

“Without a doubt, my involvement with LAI/EdNet has been the most important factor in not only improving my competency to teach lean principles and practices, but also in the development of my teaching in any context.” - Assistant Professor of Management Sciences. Proficiency change from 1.8 to 4

- **Collectively we can make a difference**
- **Good start, but much more to do**
- **Creative suggestions needed for leveraging our collective resources.**
- **Think about**
 - **Exerting “customer pull” with some of your schools (Northrop Grumman - Cal Poly)**
 - **“Priming the pump” by hosting an on-campus LAI Lean Academy (Rockwell Collins - U of Iowa)**
 - **Strategies that fit your organization’s resources**

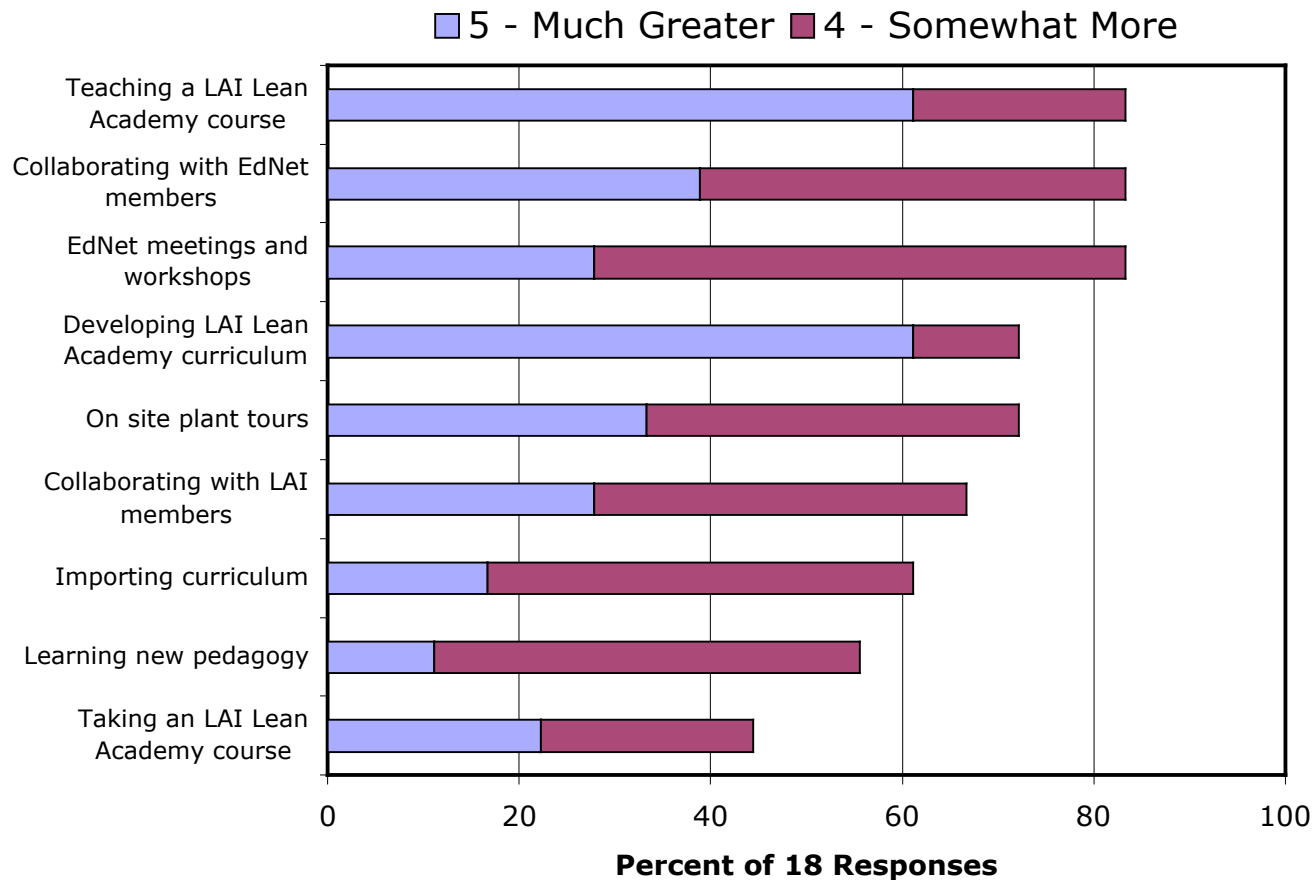
Call 1-800-LAI-EdNet with suggestions!



Back Up Slides

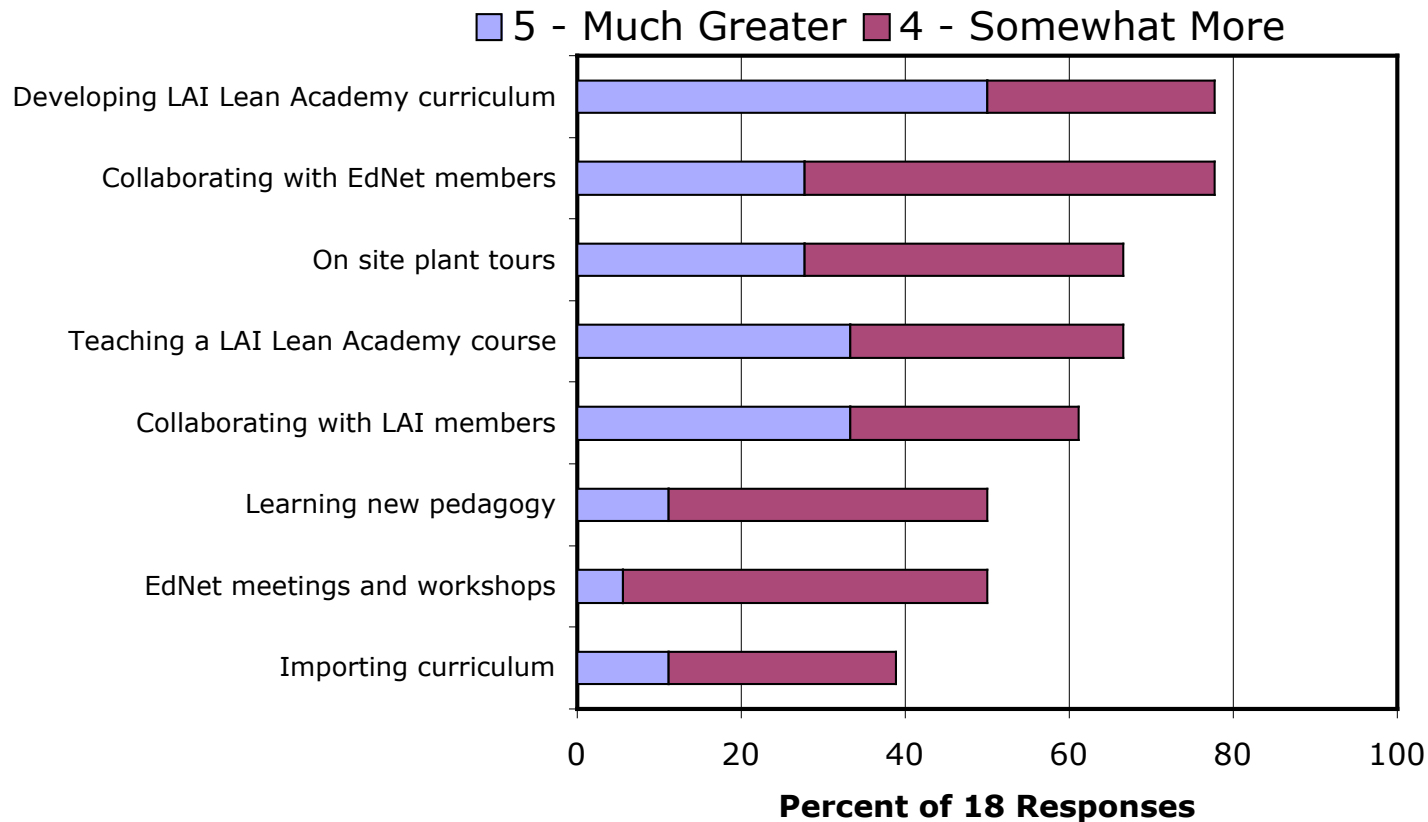
Awareness of Implementation

Please compare EdNet activities to other ways of improving your **awareness of industry and government implementation** of lean practices and principles.



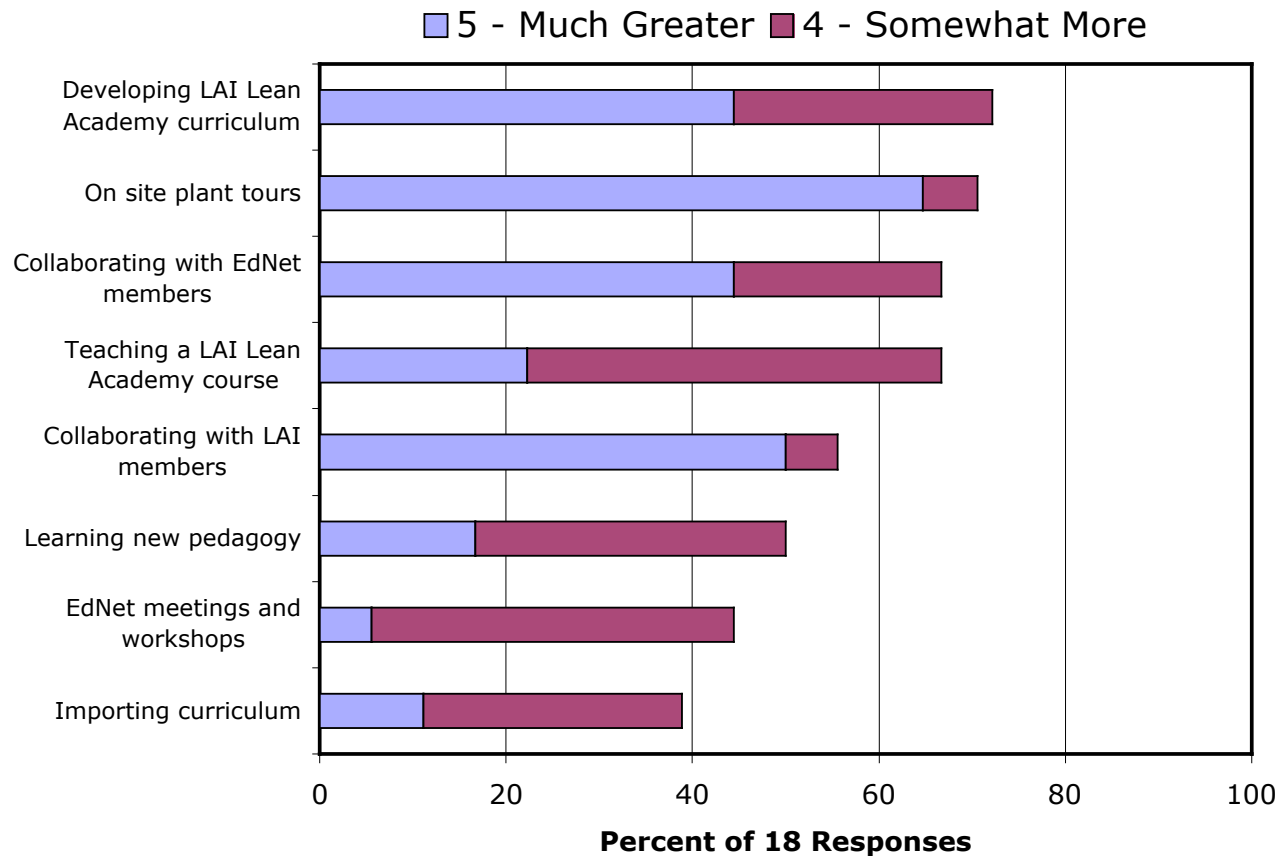
Knowledge of Fundamentals

Please compare EdNet activities to other ways of improving your *knowledge of the fundamentals* of lean practices and principles.



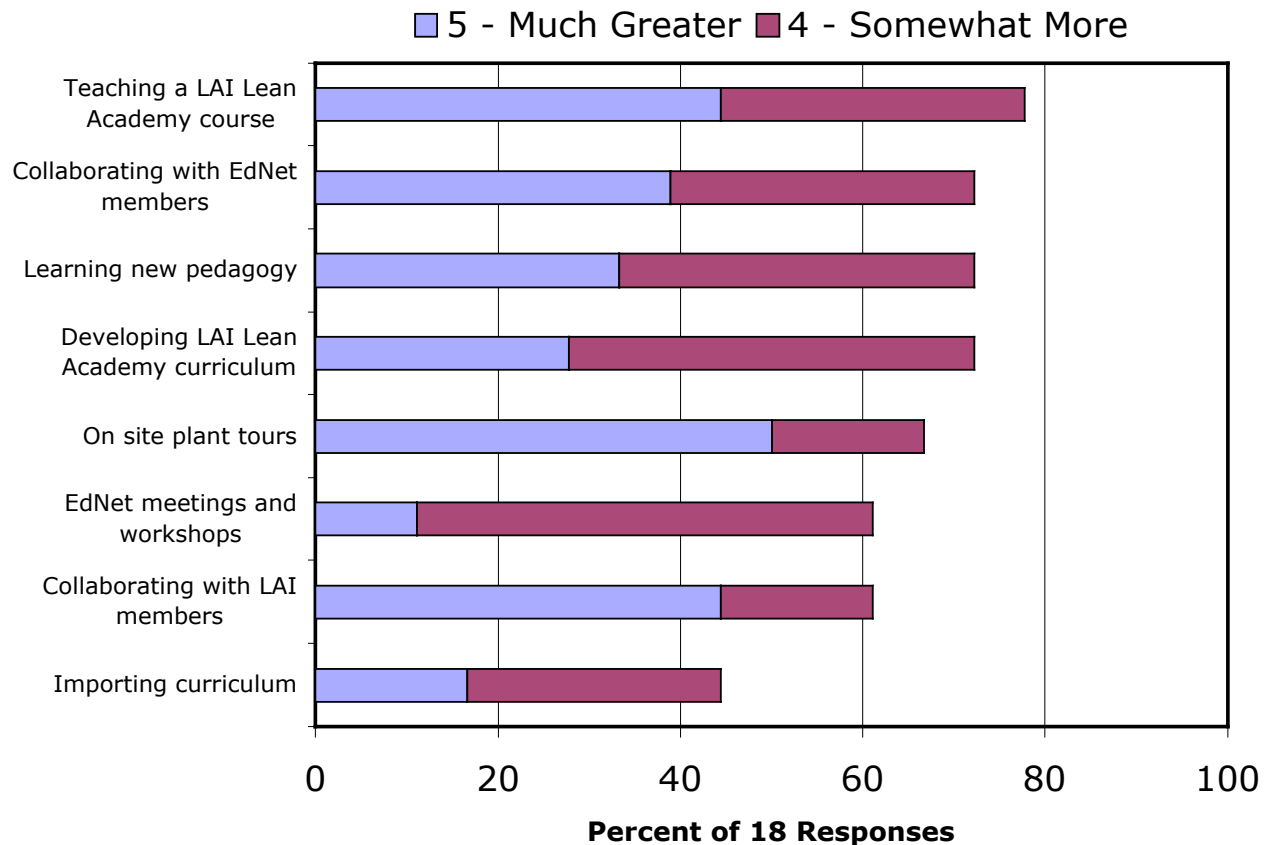
Knowledge of Application

Please compare EdNet activities to other ways of improving your *knowledge of the application* of lean practices and principles.

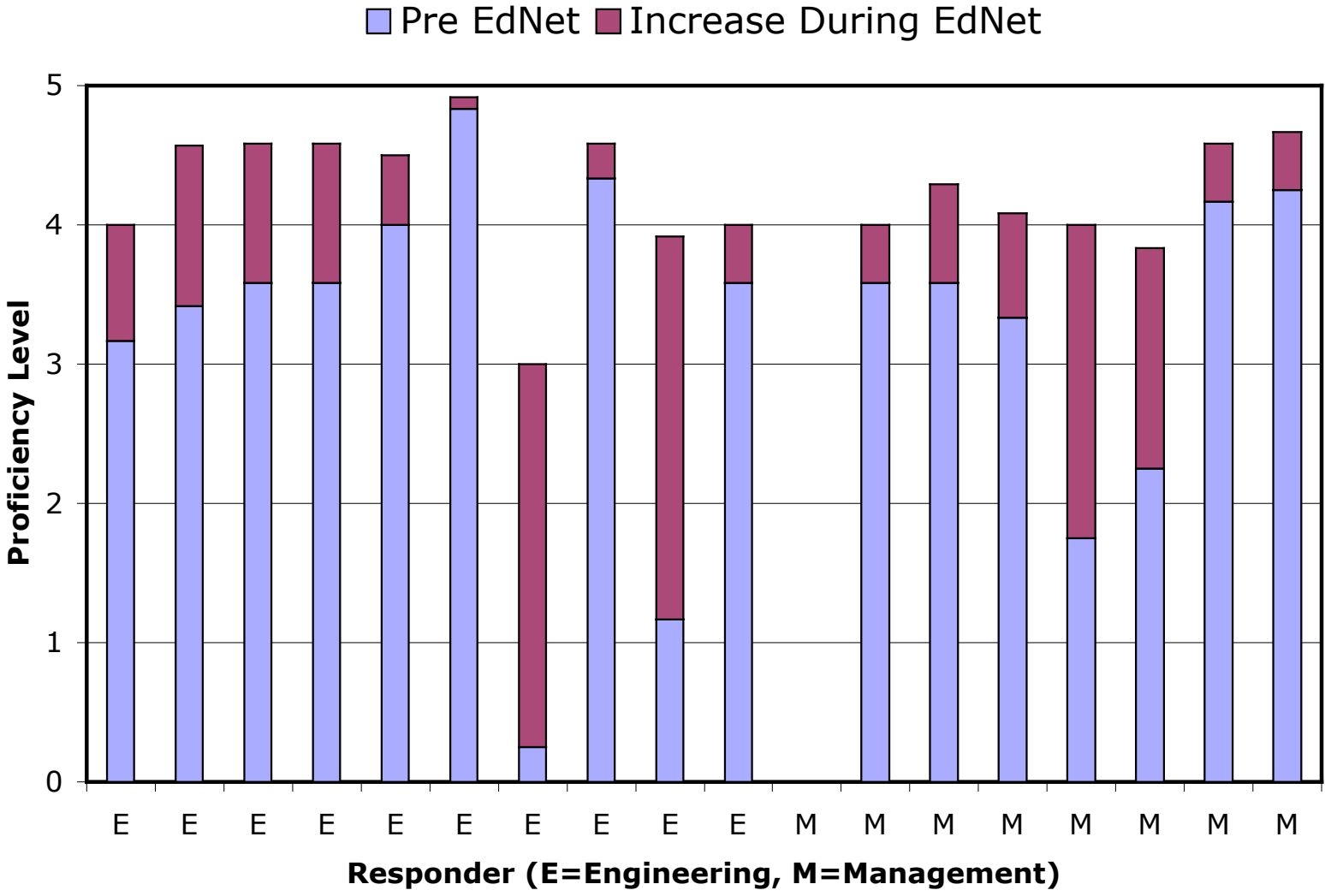


Teaching of Applications

Please compare EdNet activities to other ways of improving your *teaching of the application* of lean practices and principles.



Proficiency by Instructor



Proficiency by Lean Enterprise Knowledge Area

