

ENERGY WORKFORCE **SECTOR STRATEGY**

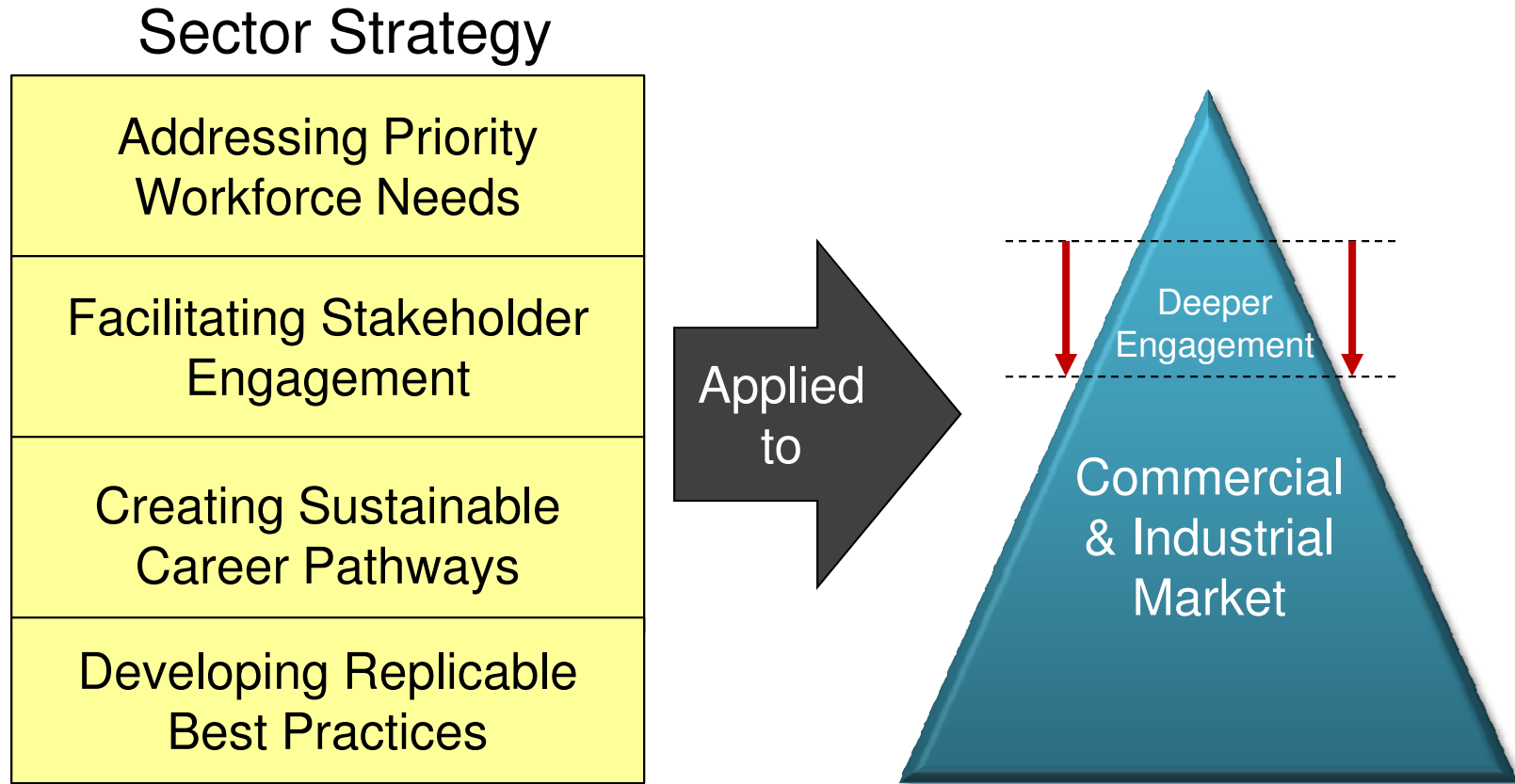


# Advisory Council Meeting

December 3, 2012

# Goal Recap

## *A Platform for Deeper Market Engagement*



# Agenda

10:00AM	Welcome & Introductions Overview of the Meeting EWSS Research Findings
10:30AM	Breakout Sessions: <i>Community College Group</i> <i>CSU Group</i>
11:30AM	Refreshment Break
11:40AM	Feedback from Breakout Sessions
12:10AM	Next Steps and Wrap-up
12:30AM	Adjourn

# Proposed Meeting Outcomes

- ❖ Priorities for building programs responsive to industry
- ❖ Recommended structure for guiding development
- ❖ Develop approaches to employer engagement

# Why Were You Selected?

## Program Intensity – Top 20 Occupations

CSUs

Civil Engineering  
General Construction  
Architecture  
Mechanical Engineering  
Electrical/Electronic Engineering  
General Engineering  
Environmental Health Engineering

Community  
Colleges

Electricians  
General Construction  
Architecture  
Carpentry  
Energy/ HVAC Technology

# Today's Education Participants

## Program Intensity – Top 20 Occupations

CSUs

Cal Poly – SLO  
CSU Chico  
CSU East Bay  
CSU Fresno  
CSU Sacramento  
CSU San Francisco  
San Jose State

Community  
Colleges

Butte  
CCSF  
Cosumnes River  
Foothill  
Fresno City  
Hartnell  
Laney  
Modesto  
West Valley

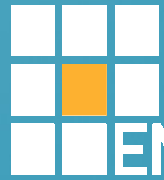
# Goal: Form an Advisory Group

- ❖ Link incentives, training, and employment
- ❖ Access significant funding streams
- ❖ Leverage PG&E programs funded by CPUC
  - ✓ *no direct PG&E funding to colleges*
- ❖ Formulate a preliminary basis for moving ahead

# The Time is Now

- ❖ State priorities provide the impetus and funding
- ❖ We're bringing the state's largest utility to the table
- ❖ We're bringing ~50 EE employers to the table
- ❖ We know EE employers' workforce priorities
- ❖ Strong education programs exist and can be leveraged
- ❖ Previously funded programs (ARRA) can be re-started





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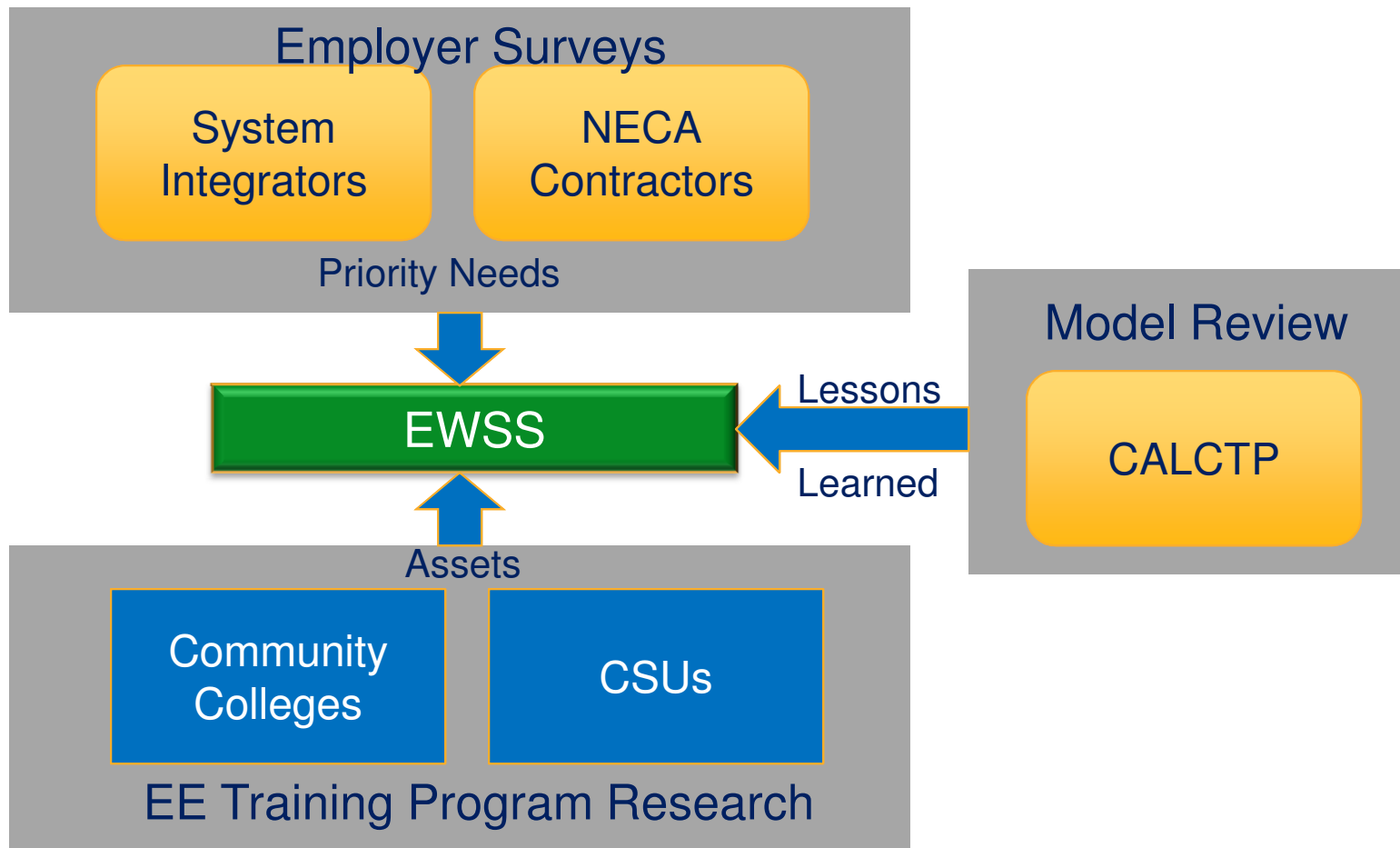


# Research

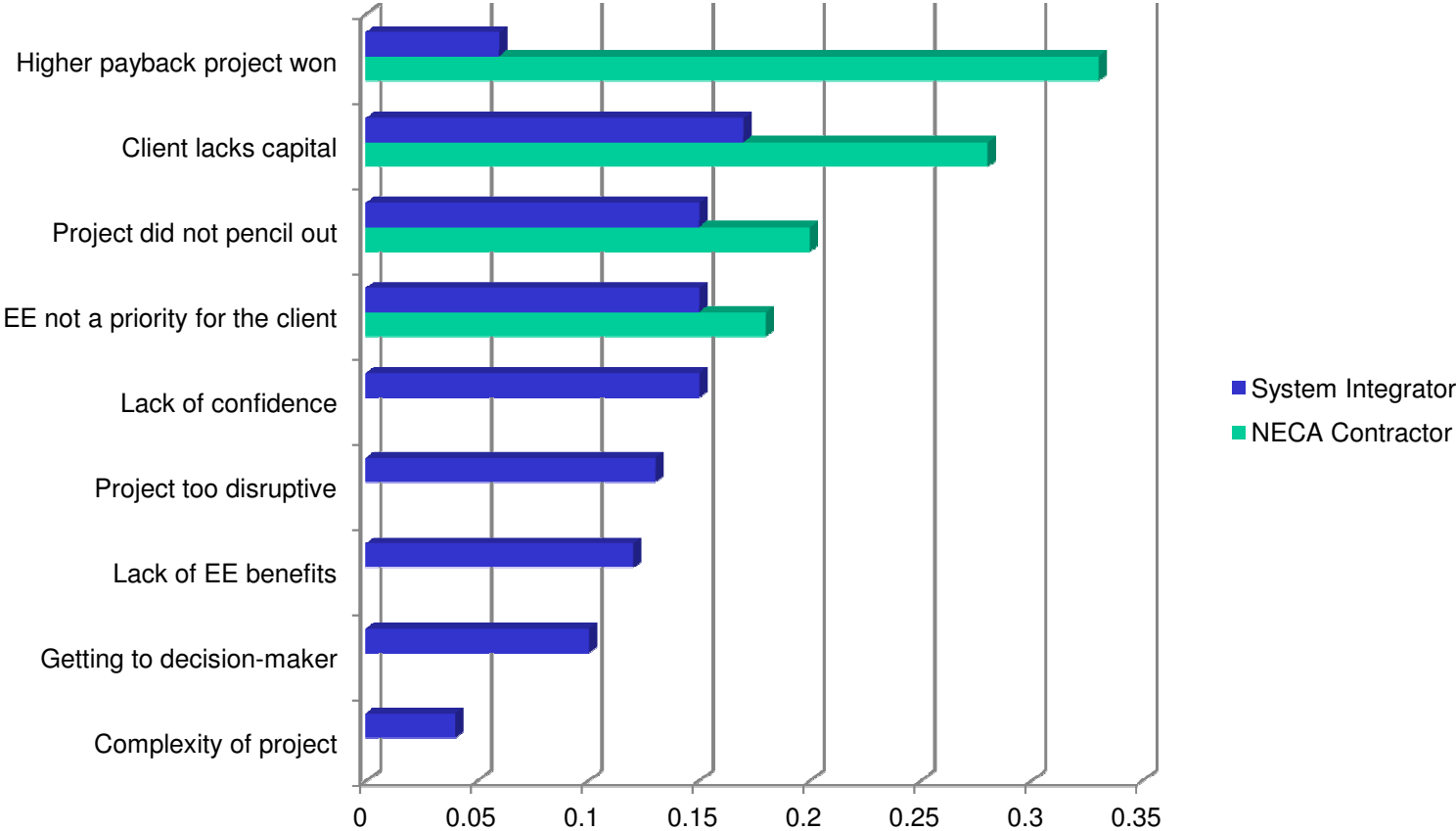
# Investment to Drive Market Adoption



# EWSS Research Process



# Obstacles to Market Adoption

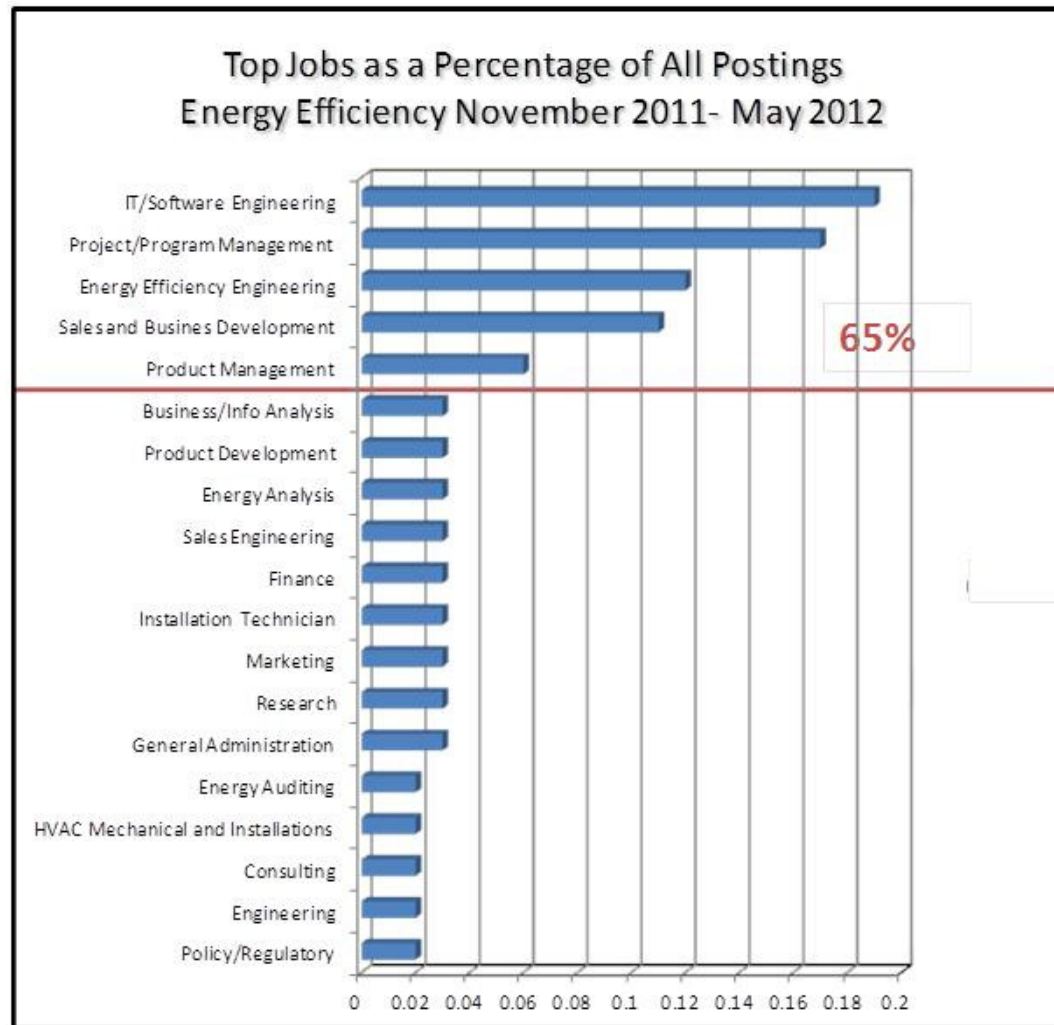


# EE Project Life Cycle

Sales	Design & Commissioning	Installation/Operations/Maintenance
<p>Senior Management Senior Engineers Senior Project Managers</p>	<p>Energy Auditors Pre-Sales Engineers Design Engineers Project Managers Post-Sales Engineers</p>	<p>Electricians Sheet Metal Workers Pipes Trades Workers Stationary Engineers ICT Technicians</p>
<p><b>Employers:</b> Architectural Firms, Engineering Firms, Systems Integrators, Energy Service Companies, Commercial Contractors</p>		

\* Representative List of Occupations

# Real Time Job Postings



# Longer-Term Employment Outlook

Annual Job Openings in PG&E Service Area  
2012 - 2016

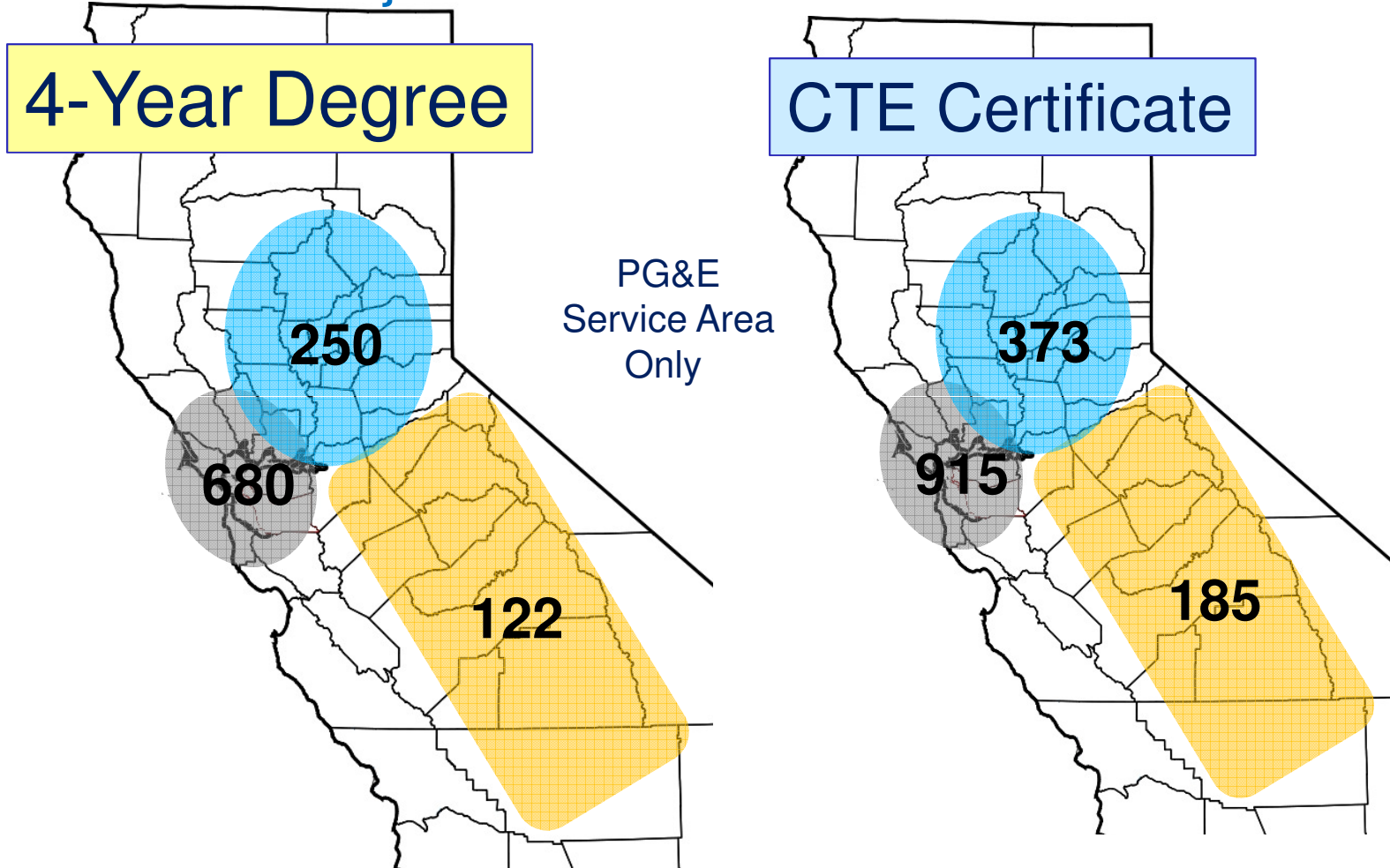
Professional Categories	
Civil Engineers	318
Architects	225
General and Operations Managers	80
Construction Managers	79
Mechanical Engineers	64
Engineers, all other	62
Accountants & Auditors	31
Management Analysts	26
Environmental Engineers	25

CTE Categories	
Electricians	309
Plumbers, Pipefitters, & Steamfitters	179
Carpenters	161
First Line Supervisors	129
Managers, all other	107
Cost Estimators	69
HVAC/R Mechanics & Installers	60
Construction & Building Inspectors	55
Sheet Metal Workers	45

Economic Modeling Specialists Inc., 2012

# Annual Distribution of Job Openings

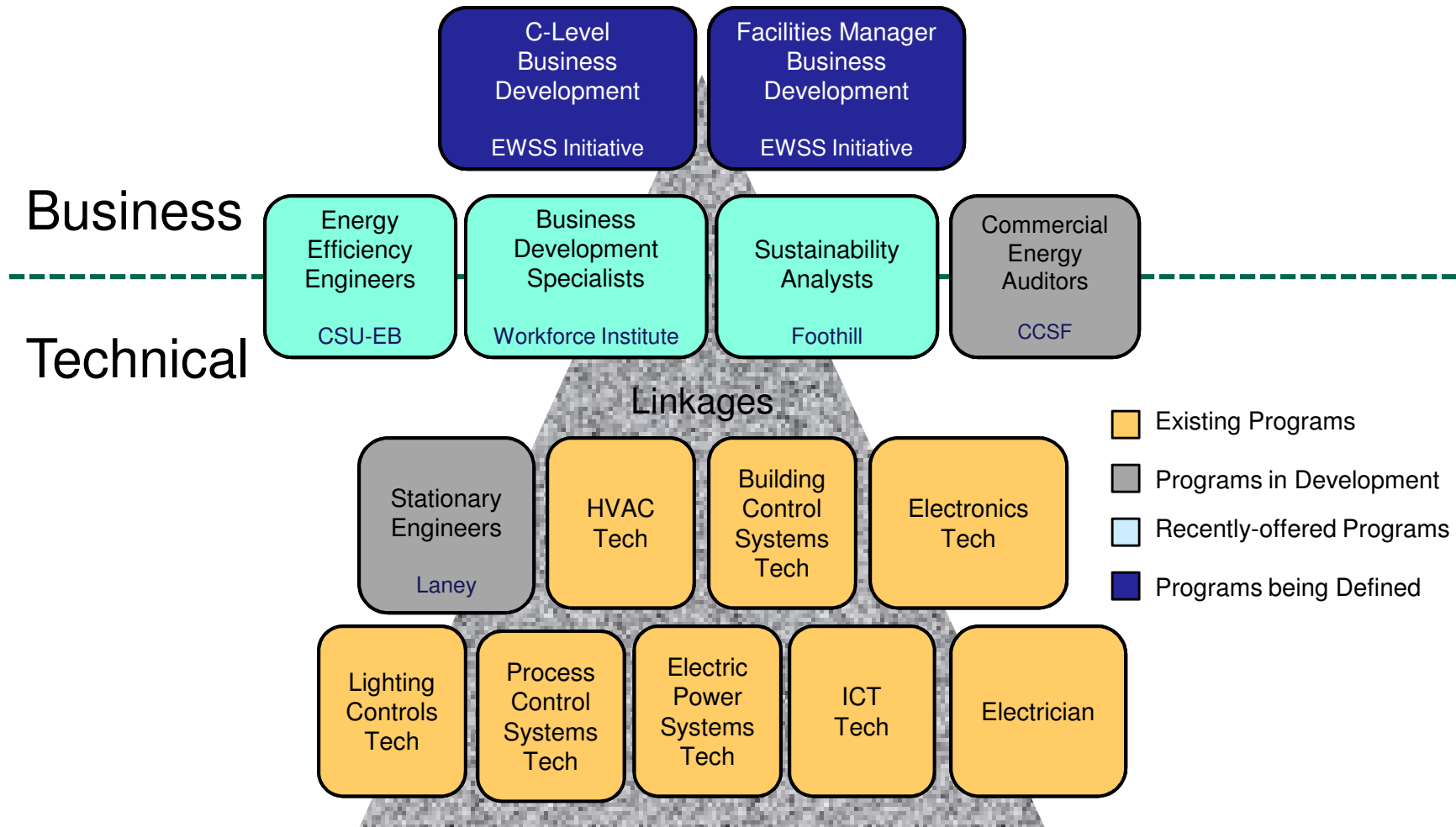
Projected for 2012 - 2016



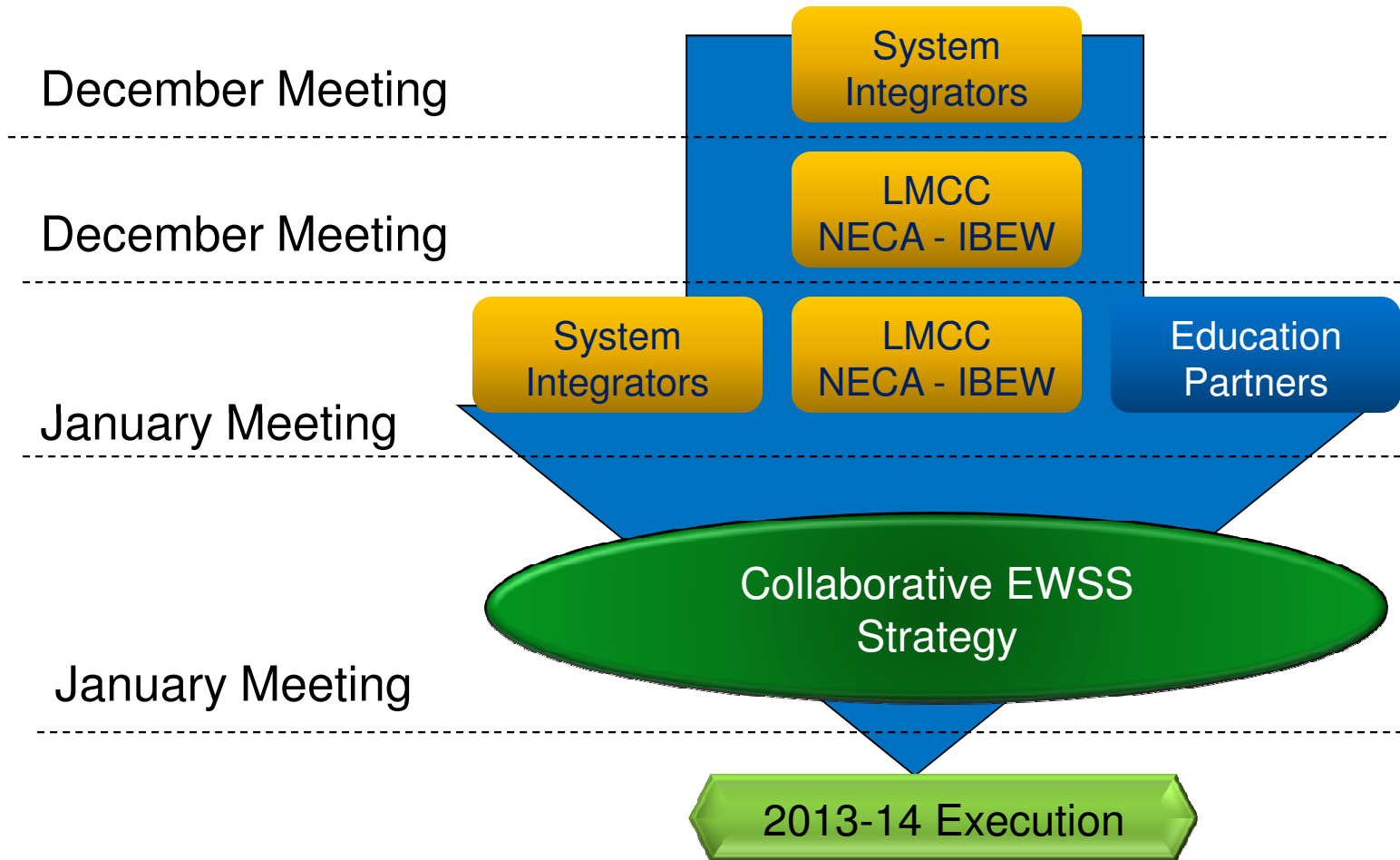
Economic Modeling Specialists Inc., 2012

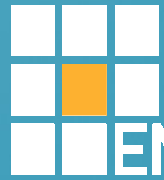


# Energy Efficiency Training Portfolio



# Beyond this Meeting





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# Breakout Sessions

# Breakout Sessions

## Two Separate Breakout Groups

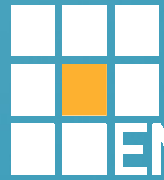
- ❖ Community colleges in one session (led by Jim)
- ❖ CSUs in a separate session (led by JD)

One hour

Divide the time into two segments for discussion

- ❖ Best practices for building pathways in response to industry needs
- ❖ Propose Advisory Council roles and structure for regional success

Reassemble for Feedback from Each Group



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**Thank You**

***Questions?***