

Idea Bulb by Ramunas Geciauskas via Flickr (CC BY 2.0)

CENTER OF EXCELLENCE PLANNING EAST MICHIGAN COUNCIL OF GOVERNMENTS (EMCOG) EAST CENTRAL MICHIGAN PROSPERITY REGION 5 (PR-5)



JEFF MARCELL • JOHN KARRAS

JUNE 9, 2015

AGENDA

Introduction

Project Overview

National Economic
Trends

What is a Center of
Excellence?

Next Steps



1

INTRODUCTION

WHO IS TIP STRATEGIES?

FOUNDED 1995

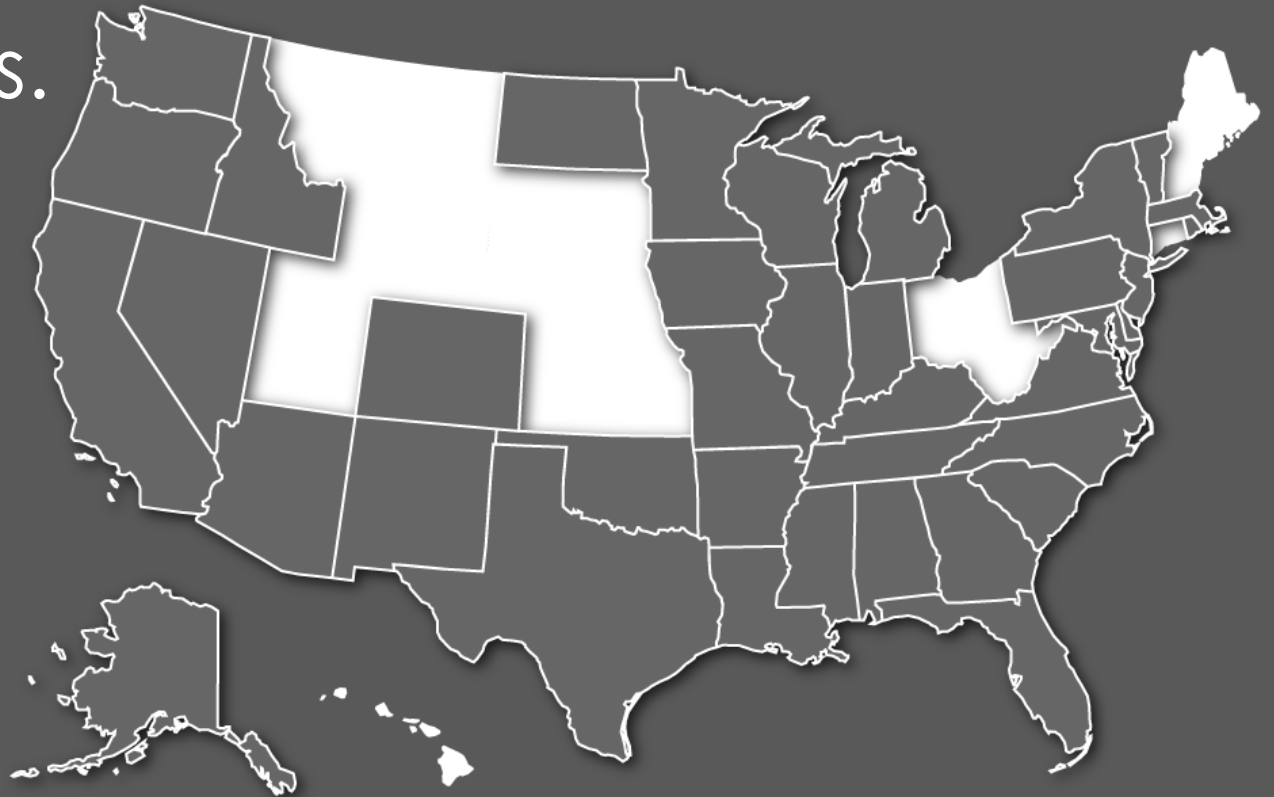
THREE PRINCIPALS WITH A STAFF OF 9

COMMITTED TO **HOLISTIC** THINKING &
SUSTAINABLE DEVELOPMENT

AUSTIN & SEATTLE OFFICES WITH **GLOBAL** REACH



We have **19** years of experience
in over **177** unique communities,
across **38** states
& **4** countries.



THEORY INTO PRACTICE

we design strategies that will
support your community's

vision for the future

TIP STRATEGIES



Tom Stellman
President & CEO



Jon Roberts
Managing Director



Jeff Marcell
Senior Partner



Alex Cooke
Senior Consultant



Caroline Alexander
Senior Consultant



Karen Beard
Senior Consultant



John Karras
Consultant

OUR FRAMEWORK

Talent



Innovation



Place



Our process
establishes a
clear vision for
economic
growth

DISCOVERY

OPPORTUNITY

IMPLEMENTATION



SERVICES

STRATEGIC
PLANNING

WORKFORCE
ASSESSMENT

ECONOMIC
ANALYSIS



2

PROJECT OVERVIEW

SCOPE OF WORK

1. Program Inventory

Catalog previous and current innovation and industry programs in Michigan to inform possible areas of opportunity for a Center

2. Stakeholder Alignment

Identify the appropriate Task Force members to lead implementation

3. Best Practice Research

Research best practice examples of Centers of Excellence from across the US and will prepare a brief case study for each, detailing strategic functions, organizational frameworks, facilities, budgets, and funding

4. Focus Area Research

Evaluate and provide recommendations for specific industry(s) and areas of focus for a Center

5. Workforce Analysis

Compare the region's current occupational structure against the capabilities required by potential focus areas, including the supply of emerging and high-demand occupations

6. Implementation Guide

Create a detailed guide of specific actions for next steps in the development of a Center

7. Final Report & Presentation

EXPECTED OUTCOMES

- Task force with key stakeholders (8-12) from the region's higher ed. & business community
- Program inventory of previous/current innovation & industry programs in Michigan
- Catalog of best practice examples of Centers of Excellence from across the US
- Evaluation of the region's workforce in potential focus areas
- Detailed implementation guide for next steps in the development of a Center of Excellence

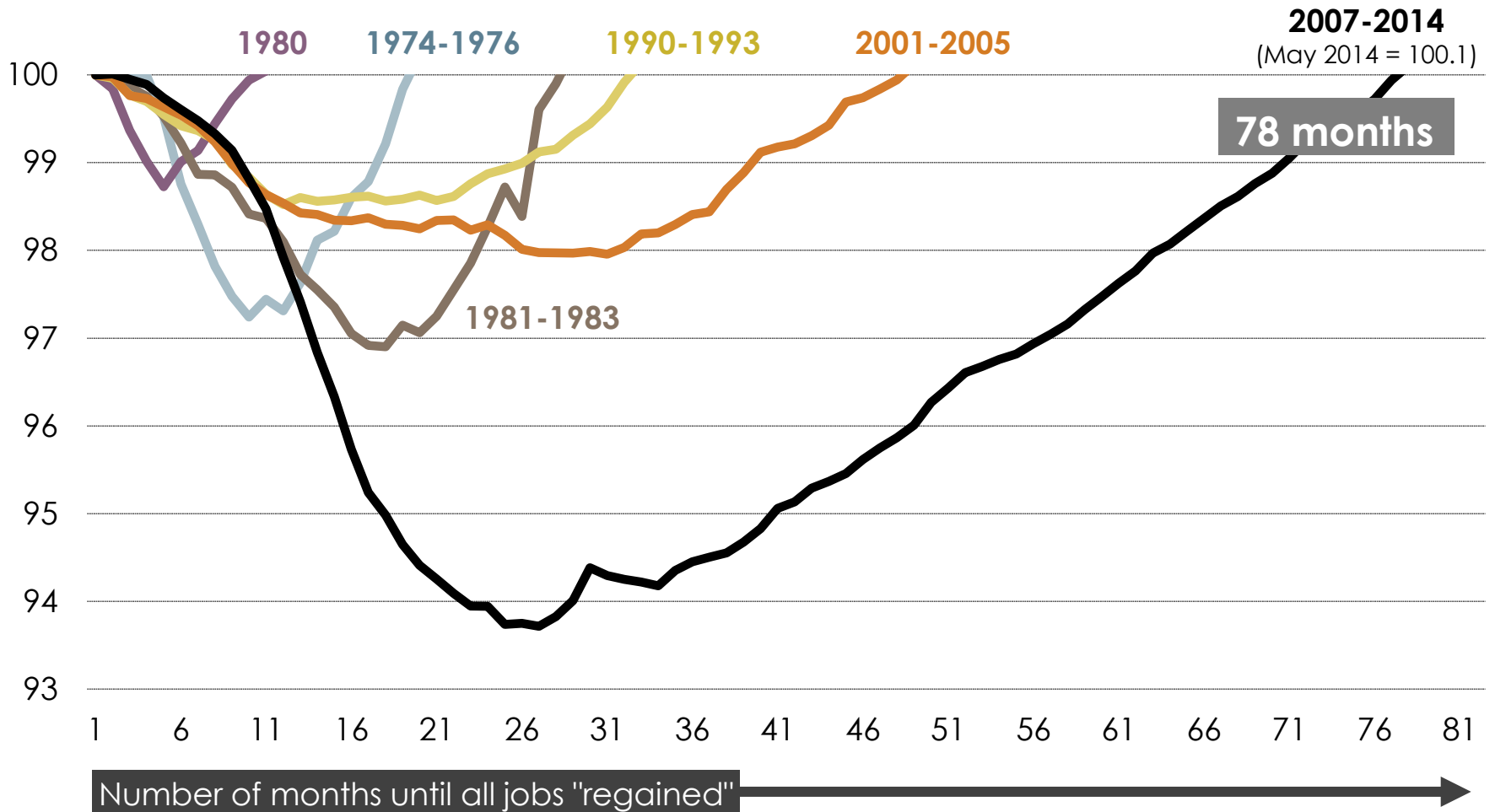
3

NATIONAL ECONOMIC TRENDS

RECESSIONS COMPARED

RECESSIONARY EMPLOYMENT TRENDS

Peak employment = 100



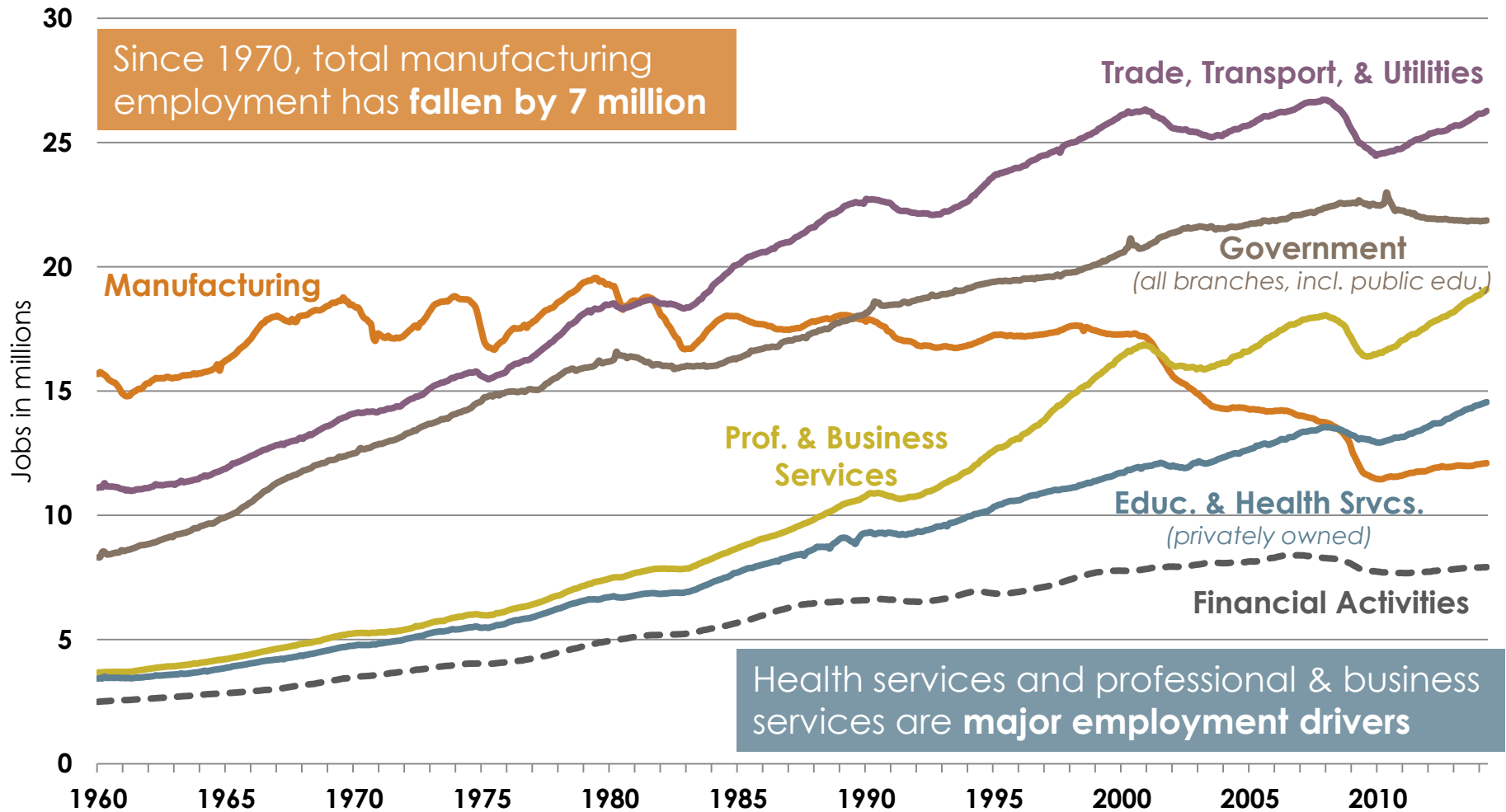
Sources: U.S. Bureau of Labor Statistics, Current Employment Statistics (total nonfarm employment, seasonally adjusted); NBER (recession dates); New York Times (format)

Since 1970,
total employment
in manufacturing
has fallen by 7 million.

EMPLOYMENT BY INDUSTRY SECTOR

TOTAL US NONFARM EMPLOYMENT

Selected Sectors, 1960 to present (April 2014, prelim.)

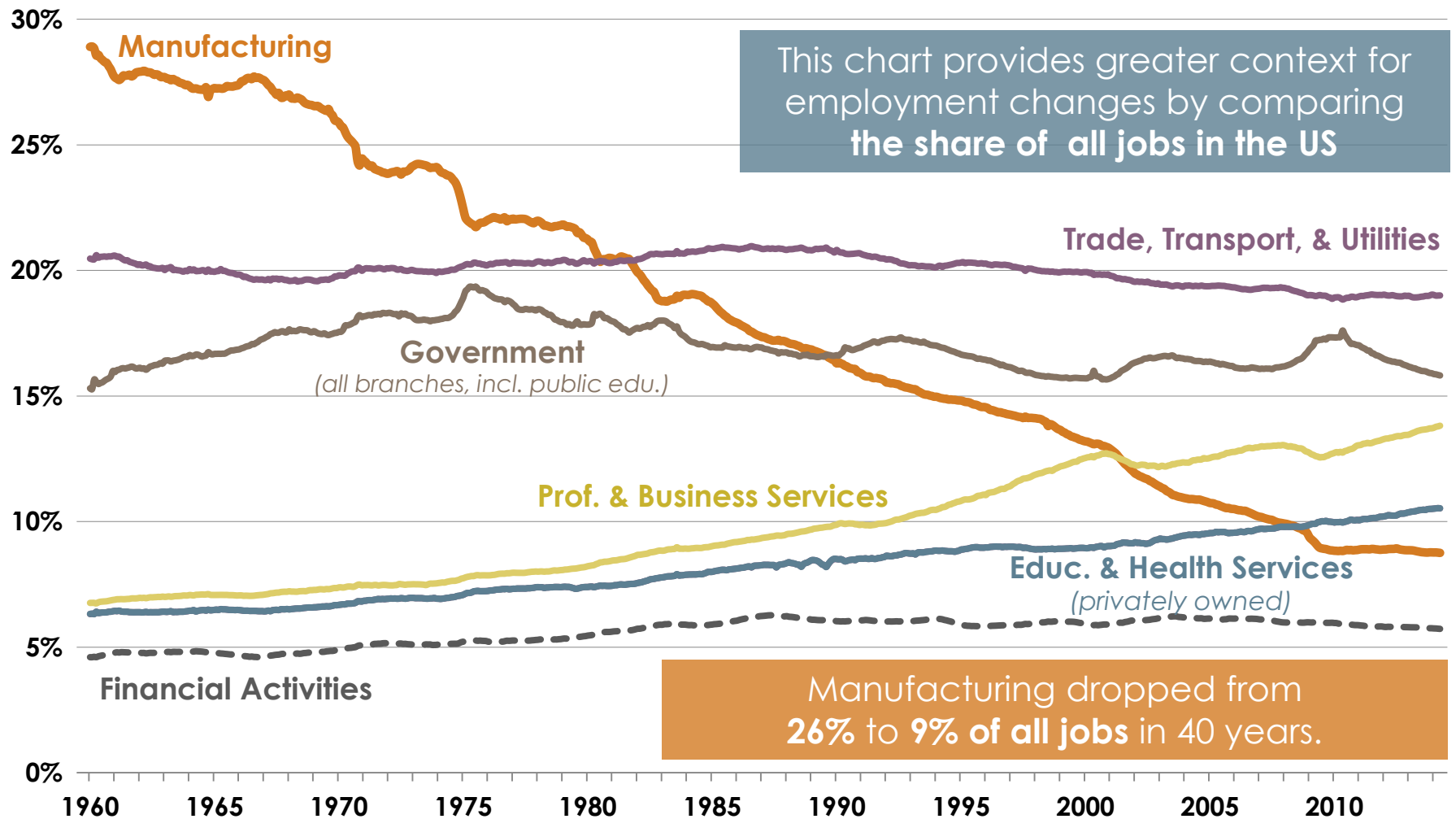


Manufacturing
dropped from
26% to 9%
of all jobs
in 40 years.

INDUSTRY SHARE OF EMPLOYMENT

SHARE OF TOTAL US NONFARM EMPLOYMENT

Selected Sectors, 1960 to present (April 2014, prelim.)



SKILLS GAP: UNEMPLOYMENT RATE

5.6%

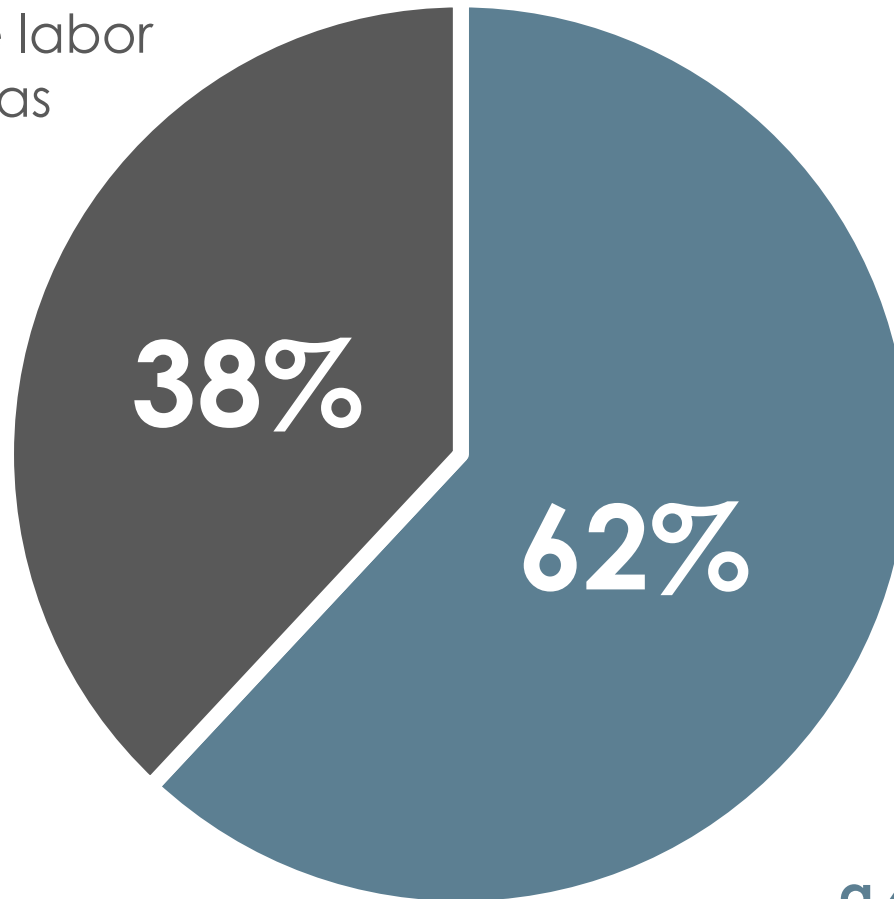
Unemployment rate for the share of the labor force over 25 **without a four-year degree**

2.7%

Unemployment rate for the share of the labor force over 25 that has **earned at least a bachelor's degree**

EDUCATIONAL ATTAINMENT OF LABOR FORCE

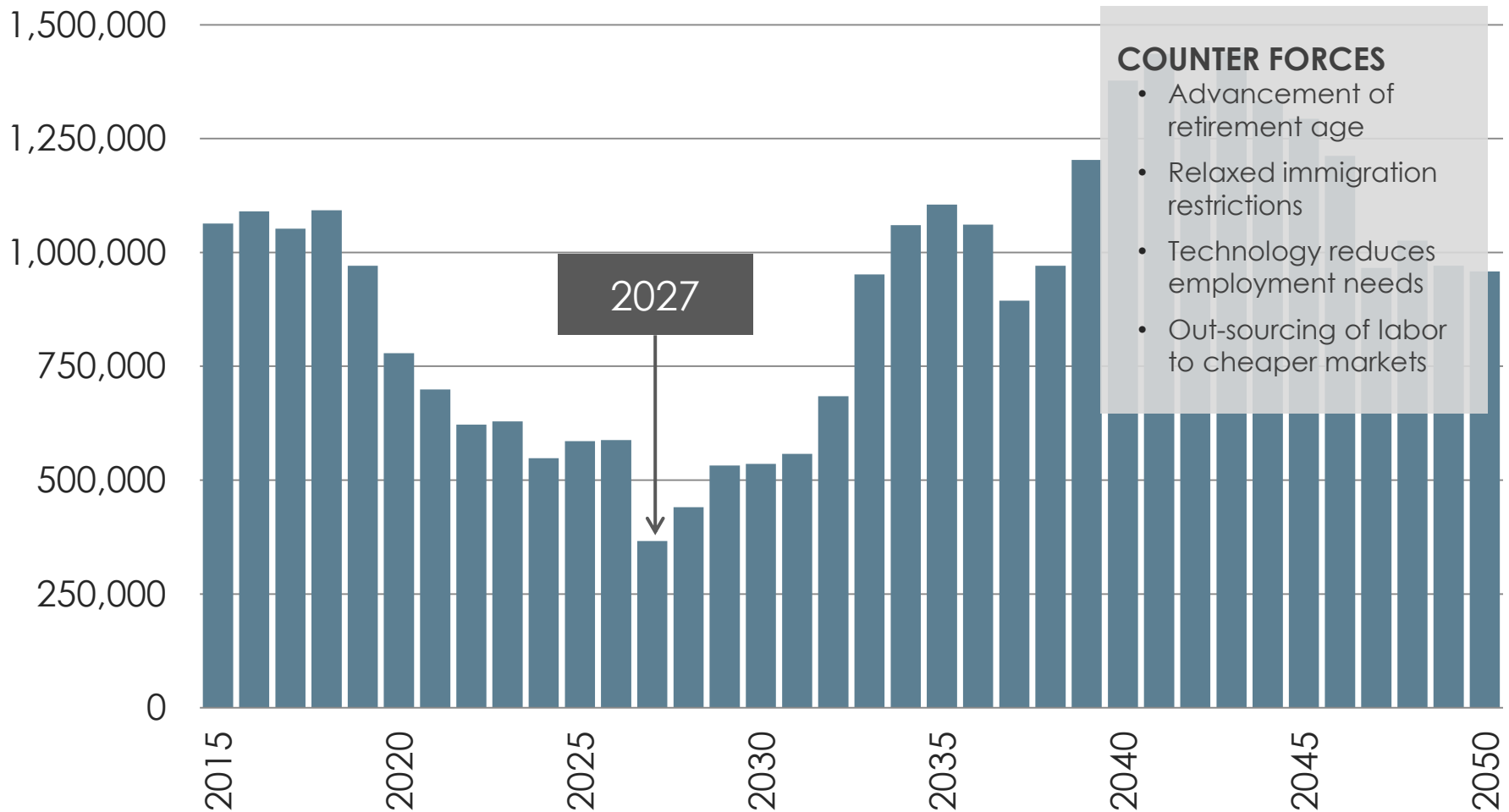
Share of the labor force that has earned **at least a bachelor's degree**



Share of the labor force over 25 that **does not have a 4-year degree**

THE TIGHTENING LABOR MARKET: US

PROJECTED NET ANNUAL CHANGE IN THE US WORKING-AGE POPULATION



Sources: TIP Strategies, U.S. Census Bureau (NP2014_D1)

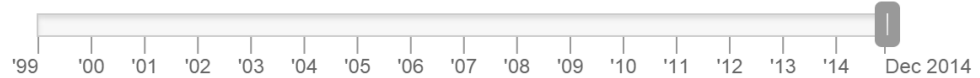
"Working-age" defined as 18-66 (average planned retirement age based on April 2014 Gallup poll).

THE GEOGRAPHY OF JOBS

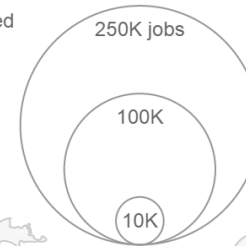
Net Job Gains/Losses by Metropolitan Statistical Area

12 months ending on:

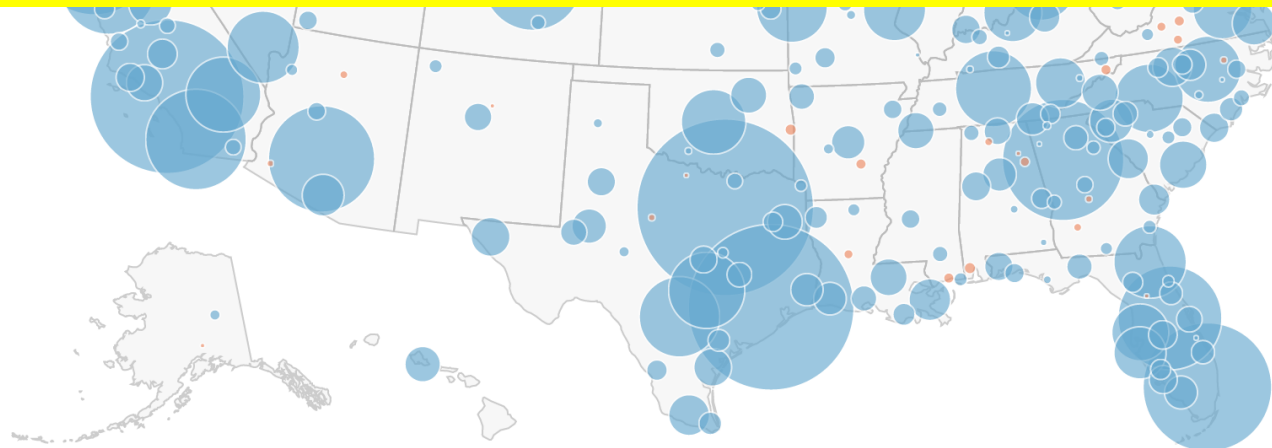
DEC 2014



● jobs gained
● jobs lost



The image is a link. It only works in presentation or preview mode. Just click the map and it will take you to a browser and the link.





4

WHAT IS A CENTER OF
EXCELLENCE?

WHAT IS A CENTER OF EXCELLENCE?

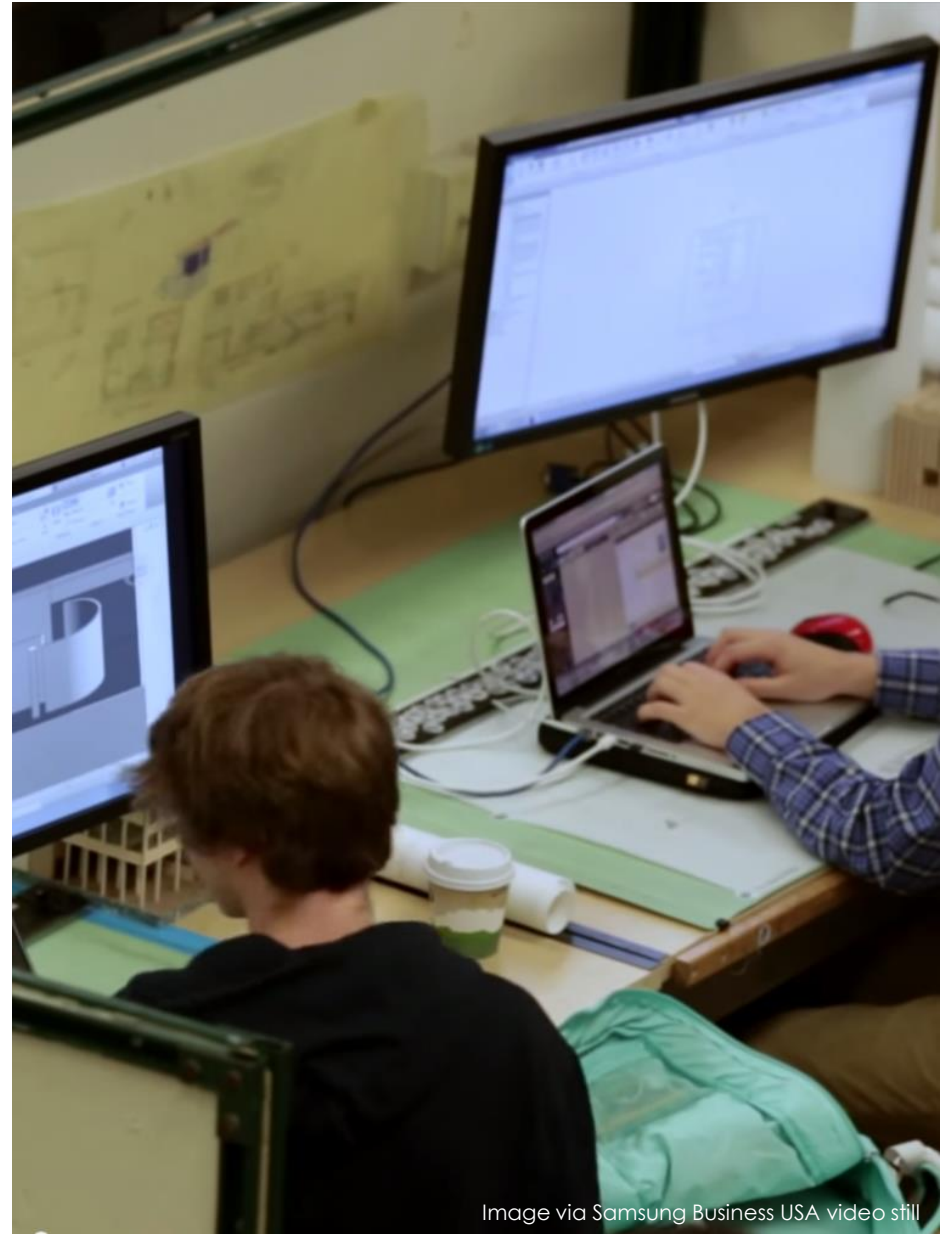
Centers of Excellence are typically a **collaboration of higher education institutions and businesses**, leveraging the unique assets found within a region to support the advancement of research or training within a specific industry or focus area. They often serve as **a magnet for industry expertise** and are **dedicated to the success of companies within a region**. They also provide leadership, recognition, best practices, research, support and/or training for entrepreneurs, as well as current and future employees within one or more industries.

RWU - Samsung Design Studio

Partnership between Roger Williams University and Samsung Electronics America, Inc.

Samsung provides cloud access technology and interactive whiteboards to students

RWU President, Donald J. Farish:
“This forward-thinking partnership reduces student costs, and most importantly, results in a hands-on, technology-driven learning environment that will prepare our students to thrive in the professional worlds they will encounter after graduation.”



Texas Tech UPTEC

The Unconventional Production Technology and Environmental Consortium researches “the chemistry processes, technological development and materials, environmental components, and the overall effects of hydraulic fracturing in the West Texas area.”

Over 50 collaborators, from 14 TTU departments and the School of Law

3 research areas/sub-groups:
Chemistry, Materials and Technological Developments; The Lifecycle of Water; and Public Engagement and Education.



Universities at Shady Grove

A collaboration of nine degree-granting public institutions that are all part of the University System of Maryland. In addition, USG's Board of Advisors includes business, government, and community leaders.

Students enroll in the university that offers their degree or certificate program, take full-time, part-time, evening, or weekend courses at USG and receive their degree from the offering university upon completion.

"USG has a customizable partnership model that includes scholarships, internships, employment opportunities and program engagement."

Mission: "To bring the highest quality University System of Maryland education, research, and services to citizens, businesses, and government in Montgomery County and the surrounding region."



UT Center for Identity

Partners include executives from law enforcement, federal government, state government and corporations.

Interactive content: Identity Theft Protection and Recovery Toolkits, Beat the Thief Game, IDWise Risk Kit App

Research projects: Identity Threat Assessment and Prediction (ITAP), Identity Ecosystem, Mobile Wallet

Workforce development: A national study (to be completed by summer, 2015) assessing existing/future employment and educational needs in identity management, privacy, and security. Creating programs to meet those needs.



WSU's Energy Systems Innovation Center

Eight Washington State University (WSU) faculty members in power, energy and computer science, 18 members in allied fields (economics, sociology, psychology, public policy). The center also collaborates with a wide range of government and industry partners and provides opportunities for annual memberships and visiting scholars.

Works to address the demand for clean tech/renewable energy

“helping bridge the gap between science and society”



5

NEXT STEPS

NEXT STEPS

- Stakeholder alignment (identify task force members)
- Conduct program inventory
- Begin building catalog of best practices



QUESTIONS

THANK YOU



TIP
strategies
AUSTIN • SEATTLE



2905 San Gabriel Street
Suite 205
Austin, TX 78705

512.343.9113

www.tipstrategies.com

Image Credit :Austin_Texas by Ed Schipul via Flickr (CC BY-SA 20)

