

BOARD OF REGENTS
BRIEFING PAPER

Agenda Item Title: How TMCC is Meeting the Needs of New and Emerging Industry

Meeting Date: June 11-12, 2015

2. BACKGROUND & POLICY CONTEXT OF ISSUE:

One of the many missions of community colleges is workforce development, and Truckee Meadows Community College is no exception. With the announcement of Tesla Motors and other major businesses locating and/or expanding in Northern Nevada, the local economy is growing. TMCC is working to meet the needs of a trained workforce to help train Nevadans to fill jobs in the community.

3. SPECIFIC ACTIONS BEING RECOMMENDED OR REQUESTED:

Information item only.

4. IMPETUS (WHY NOW?):

With the expanding industry in the state and Northern Nevada, this presentation will highlight how Truckee Meadows Community College is responding to new and emerging needs of local businesses.

5. BULLET POINTS TO SUPPORT REQUEST/RECOMMENDATION:

This agenda request:

1. Is timely due to the board meeting being held at TMCC and in Northern Nevada;
2. Provides relevant information related to workforce training by TMCC specific to the service area;
3. Is an item for the community college agenda section;

6. POTENTIAL ARGUMENTS AGAINST THE REQUEST/RECOMMENDATION:

N/A

7. ALTERNATIVE(S) TO WHAT IS BEING REQUESTED/RECOMMENDED:

N/A

8. COMPLIANCE WITH BOARD POLICY:

- Consistent With Current Board Policy: Title #____ Chapter #____ Section #____
- Amends Current Board Policy: Title #____ Chapter #____ Section #____
- Amends Current Procedures & Guidelines Manual: Chapter #____ Section #____
- Other: _____
- Fiscal Impact: Yes____ No__X____
Explain: _____

Meeting the Needs of New and Emerging Industry

Jim New, Dean of Technical Sciences
Truckee Meadows Community College

Presentation to the NSHE Board of Regents, June 11-12, 2015

Aligned with Nevada's priorities

Sector	Programs
Aerospace & Defense	UAV Technician
Information Technology	Networking, Database, Programming, Web, Computer Science, HVAC
Energy	Energy Technologies
Health Care	Nursing, EMS, Radiology, Dental Hygiene, Dental Assisting, Community Health, etc.
Logistics	Logistics Operations/Management
Manufacturing	Advanced Manufacturing, Production Technicians, Machining,

The Tesla Effect

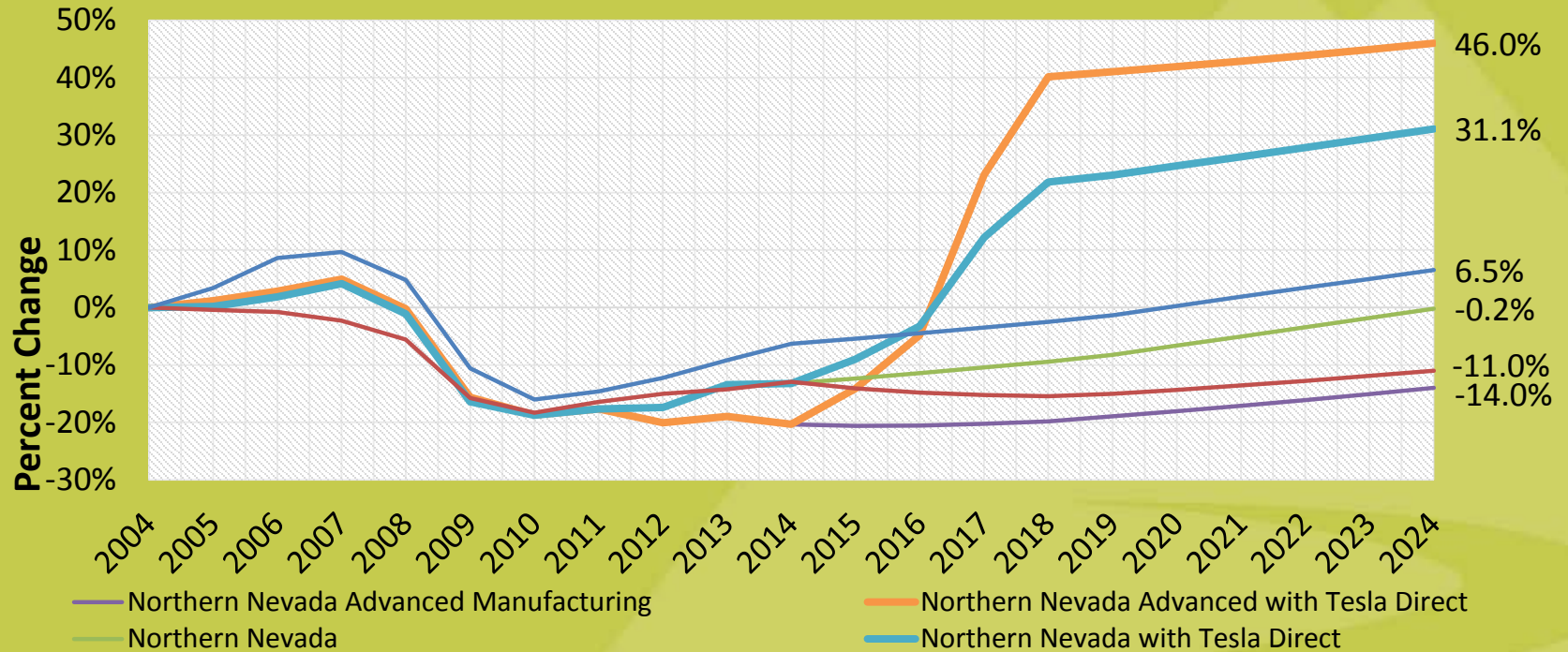
- Gigafactory will bring 3,600 construction and 6,500 factory jobs to northern Nevada in the next three to four years
 - 2,000 Engineering
 - 4,000 Technicians (CT or AAS level training)
 - Production Associates
 - Robotic Equipment Technicians
 - Material Handlers
 - Battery Technicians
 - 50% of positions will be filled by current Nevada residents
 - 90% of residents will require additional training for factory jobs

Staffing the Gigafactory

Year	All Positions	Technician Jobs	Resident Training
2015	700	420	231
2016	1000	600	330
2017	3000	1800	990
2018	1800	1080	594
Total	6500	3900	3575

Adapted from analysis by Governor's Office of Economic Development

Manufacturing Sector Trends and Forecasts



Source: Governor's Office of Economic Development

Beyond the Gigafactory

Year	Annual Growth		
	Indirect Jobs	Induced Jobs	Total
2015	555	597	1,152
2016	794	853	1,647
2017	2,380	2,559	4,939
2018	1,428	1,536	2,964
Total	5,157	5,545	10,703

Source: Economic Development Authority of Western Nevada

Explosive Growth Anticipated



Source: Economic Development Authority of Western Nevada

Innovative Training

- Manufacturing Institute's Right Skills Now
Intensive 16 week accelerated Training
Machining, Welding
- Open-Entry/Exit Flex Training
Modularized content, customizable for employer needs
Production (Automation) Technicians
- GOED Learn and Earn Advanced Career Pathway (LEAP)
Advanced Manufacturing AAS

Department of Labor TAACCCT Grant

- 2011-15 Round 1 (\$900,000)
 - CNC Machining
- 2013-16 Round 3 (\$3.2 million)
 - CNC Machining
 - Production Technician
 - Welding
- 2014-17 Round 4 (\$1.7 million)
 - Diesel Technician

Additional Initiatives

- Department of Labor American Apprenticeship Initiative
 - Nevada College Apprenticeship Consortium application (\$3 million) Advanced Manufacturing, 2015-2020
- Perkins Grant
 - Unmanned Aerial Vehicle Technicians and Operators
- Bachelor of Applied Science proposals
 - Logistics Operations Management
 - Emergency Management/Homeland Security
- Under Development
 - Water Technology
 - Battery Technology

Applied Technologies Center Renovation

- Department of Commerce, Economic Development Administration grant (\$2.49 million)
 - New Advanced Manufacturing labs Automation, Logistics, Production
 - Expanded HVAC/R shop
 - Improved capacity in all shops
 - New classrooms and student space



Applied Technologies Center Renovation



(BOARD OF REGENTS' AGENDA 06/11/15 & 06/12/15) Ref. BOR-23, Page 13 of 13

Truckee Meadows Community College