Supporting Patrons to Obtain In-Demand Credentials That Boost Employability and Career Mobility

Presentation to: PublicLibrary Association

Thursday, September 23, 2021
1:00 PM-2:30 PM (Eastern)
12:00 PM-1:30 PM (Central)
11:00 AM-12:30 PM (Mountain)
10:00 AM-11:30 AM (Pacific)
Innovation Based Economic Development Approach Driving Integration of Libraries
❖ Acknowledge the importance of how Regional Innovation Systems are structured and operate
   ❑ roles of networks
     o Libraries potentially “super-connectors”
   ❑ complex systems characteristics

❖ NV is currently implementing strong ties with community college libraries and community colleges for the creation of career onramps
   ❑ development of national recognised credentials leveraging virtual reality (VR)
     o “second teacher”
     o improve instruction effectiveness & student success rates

❖ Innovation-networks, especially those dominated by entrepreneurs as well as learning networks*
   ❑ Trust represents an imperative element
     o Libraries are the exemplification of trust

❖ Adding layer of the impact of the 4th Industrial Revolution on socio-economic structures
   ❑ libraries vital element in efforts to strengthen the “human role” and civil society*

* Libraries as “Third Space”
Nevada Libraries & NDC-Development

Pilots and MVPs
2014 – GOED commences initiatives in Workforce Development and Libraries become part of the Learn and Earn Advanced-career Pathway framework (LEAP), developed by the Governor’s Office of Economic Development

2015 – Libraries develop makerspaces for STEM learning/entrepreneurship and Carson City Library starts offering courses for earning the MT1, which is a nationally recognized, stackable, advanced manufacturing credential-- via the “Nevada’s Working Capital Project” in collaboration with the local Community College, WNC

2016 – OneStop Career Centers start co-locating in libraries throughout Nevada’s largest library district.
➢ Currently, 10 One Stop Centers are housed within libraries in Las Vegas
➢ In 2019, Rutgers University’s study about public libraries names One Stop Career Centers’ location at NV libraries a best practice

2017 – Library Services Technology Act (LSTA) funds initiate the deployment of the Nevada Career Explorer through NV libraries

2017 – NV Legislature passing SB549 enabling the State Library to create a pilot program aimed at placing extended reality technology (ER) in libraries for immersive educational and occupational experiences.
2018 – Every Nevadan, with a library card, can access a comprehensive career information platform (Nevada Career Explorer) that connects numerous occupational, educational, training and job search resources for easy navigation and search. It helps students, parents and job seekers make sense of the increasingly complex career environment and job market.

➢ The Nevada Career Explorer is currently being further developed into a comprehensive Career Navigation Platform as part of “Project SANDI” (see below)

2019 – Nevada State Libraries and the College of Southern Nevada pilot a 12-week 3D and virtual reality career exploration system program for Kidney Dialysis Technician Certification.

➢ The pilot serves as a blueprint for 4 further career on-ramps to high-demand occupations currently being developed as part of “Project SANDI”.

2020 – Nevada is awarded a US Department of Education ESF-RWP grant for “Project SANDI”. Libraries represent a large portion of the deliverables.

2020 – The American Library Association highlights how Nevada libraries are using virtual reality technology to train the workforce of tomorrow.
Nevada Libraries & Project SANDI

Building on past pilots and MVPs to create Career-Pathway On-Ramps with NDCs
SANDI – Proposed Solutions

Bottom-up Approach – “putting ourselves in the shoes” of the individual

Core Technology Platform + Human-element
- Career Navigator
- Highlighting Career Pathways adhering to LEAP-frameworks' principles
- VR-powered Career On-ramps
- VR-powered Career Exploration
- “Skill Decoding”
- Human Career Navigators
- Academic and Public Libraries

Auxiliary Components
- Tuition Reimbursement
- Entrepreneurship Advice & Training
- Credits for work experience/ skills
- Badge & Bundle - model

Nevada Governor’s Office of Economic Development
Platform approach

- Entrepreneurs
- Educational & Training Providers
- Libraries
- Employers
- WIOA Service Providers
- Entrepreneurial Support Organizations
- SANDI Technology-Core: “Translation” into “Common Language”
- Displaced Individuals
- Learners (incl. upskilled workers)

Nevada Governor’s Office of Economic Development
Each Community College will *champion* Career On-ramps

- Health Care: ‘Dialysis Technician’
- Health Care: ‘Certified Nursing Assistant’ (CNA)
- Advanced Manufacturing: ‘Manufacturing Technician Level 1 +’ (MT1+)
- Skilled Trades: ‘Commercial Air Conditioning Technologies +’ (HVAC+)
- Digital Technologies: ‘Software Development Bootcamp’
Specific Example 1: Using MT1 MVP to build MT1 +

Carson City Library and Western Nevada College (WNC), Carson City, NV developed MT1 NDC

https://www.youtube.com/watch?v=y5dhE6aHvgI

4\textsuperscript{th} Industrial Revolution

A fundamental shift in how we produce, consume and relate to one another, driven by the convergence of the physical world, the digital world and human beings ourselves

Source: Klaus Schwab, Founder World Economic Forum

Up-and Re-Skilling:

Source: Festo Didactic
Specific Example 2: Using Dialysis Technician MVP to build CNA-NDC

College of Southern Nevada (CSN), Las Vegas, NV with Nevada State Library developed **Dialysis Technician NDC Pilot**
https://www.youtube.com/watch?v=18Bb5pUL3vY

Great Basin College (GBC), Elko, NV

with **Project SANDI developing CNA NDC**
Nevada Governor’s Office of **ECONOMIC DEVELOPMENT**

Showcasing elements of in person instruction - from a white board display - of the extracorporeal circuit process in a clinically accurate, virtual reality simulation is like having a second teacher for every student. Distance learning with these tools deployed through the library ensures greater accessibility for all citizens seeking training in middle class healthcare professions and obtainment of a nationally recognized Certified Clinical Hemodialysis Technician credential (CCHT).
Specific Example 2 cont.: CSN Dialysis Technician – ‘MVP’ for 4 additional Career On-ramps

Connection Urban with Rural NV (true state-wide access) and enabling distance education: Nevada is geographically the 6th largest state. Nearly 550 miles span between Clark County Las Vegas’ southern tip and the northern top of Fort McDermitt Paiute and Shoshone Tribes of the Fort McDermitt Indian Reservation in Humboldt County.

Second Teacher for every student: trad. white board display - of the extracorporeal circuit process in a clinically accurate, virtual reality simulation. Distance learning with these tools ensures greater accessibility for all Nevadans seeking on-ramp for a career in healthcare professions and obtainment of a nationally recognized Certified Clinical Hemodialysis Technician credential (CCHT).
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