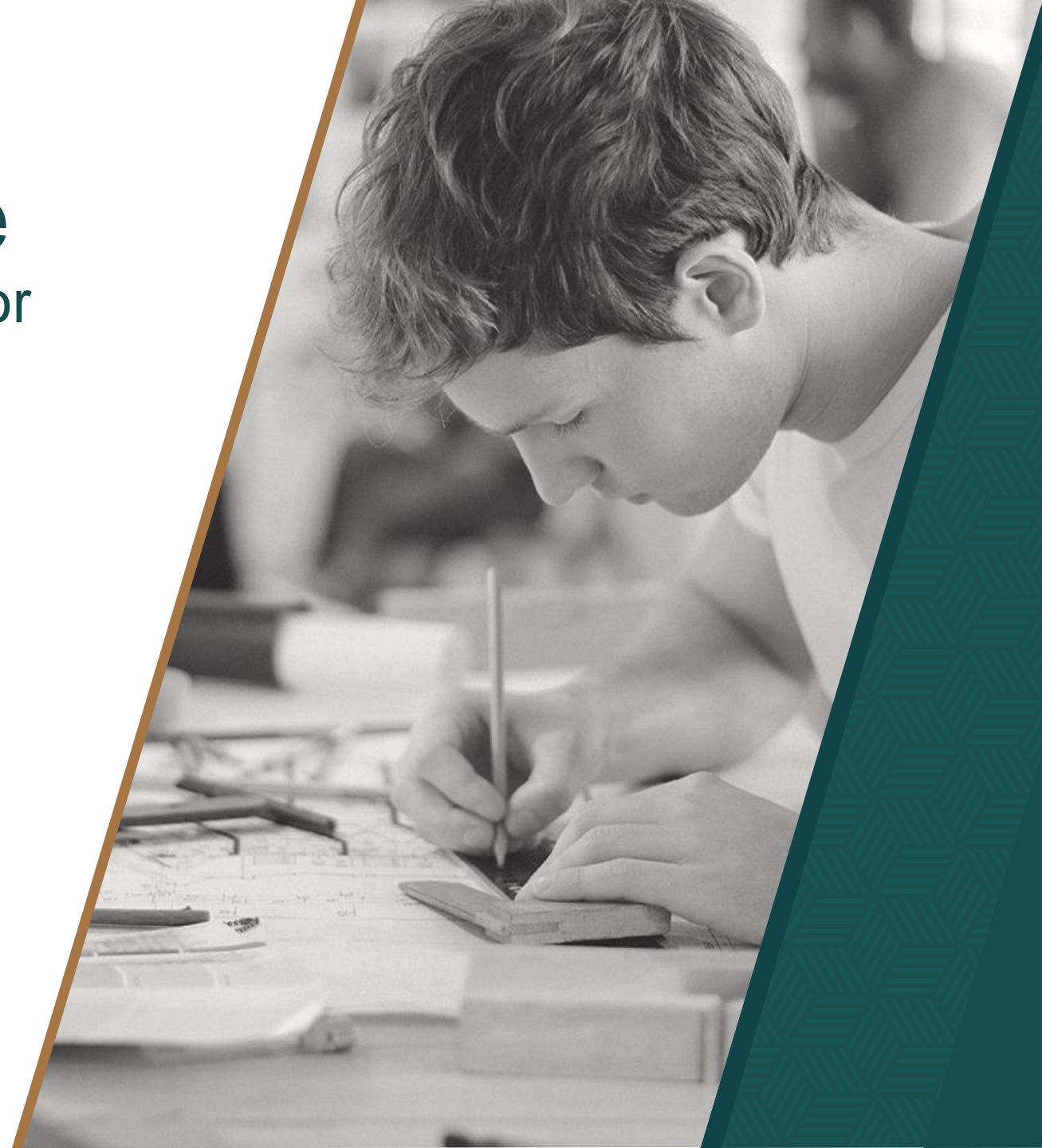


Credential Engine

Benefits and Opportunities for Federal Agencies

May 15, 2017



Transparency through Technology

-Develop common terms (Credential Transparency Description Language - CTDL) to describe key features of:

- Credentials
- Credentialing organizations
- Quality assurance (QA) bodies

-Create & populate voluntary, web-based credential registry with credential issuers and QA bodies

-Bring the registry to scale under non-profit governance

-Develop, test, & deploy prototype search app to facilitate use of the registry by stakeholders

-Foster competitive app marketplace



Credential registry, descriptors, and applications are open-source.

Credentials Addressed by Credential Engine

Registry Includes All Kinds of Credentials,
Credentialing Organizations, and
Quality Assurance Bodies



Apprenticeship



Badge



Certificate



Certification



Degree



Diploma



License



Micro-Credential



QA Bodies

Credential Transparency Description Language (CTDL)

Declaring Name, Purpose, Type of Credential and Credentialing Organization

- Credentialing organization identification
- Credential organization type
- Credential identification
- Credential type
- Purpose of credential
- Where credentialing is offered
- Jurisdiction

Declaring What Is Inside the Credential

- Credentialing eligibility requirements
- Competencies/learning outcomes required to attain credential
- Assessments required to attain credential
- Education and training for the credential
- Time required to attain credential
- Credentialing costs
- Maintaining credential
- Credential removal
- Credential holder authentication
- Version management
- Employer engagement

Declaring Other Key Characteristics and Connections

- Primary scope of application: subject/discipline area
- Primary scope of application: career preparation and advancement
- Role of occupational regulation and licensing
- Geographic portability of credential use
- Connections to other credentials
- *Career Pathway Connections**
- External quality assurances
- Employer recognition
- *Number and characteristics of credential holders**
- *Employment and earnings of credential holders**

**Italicized descriptors are not yet in use*

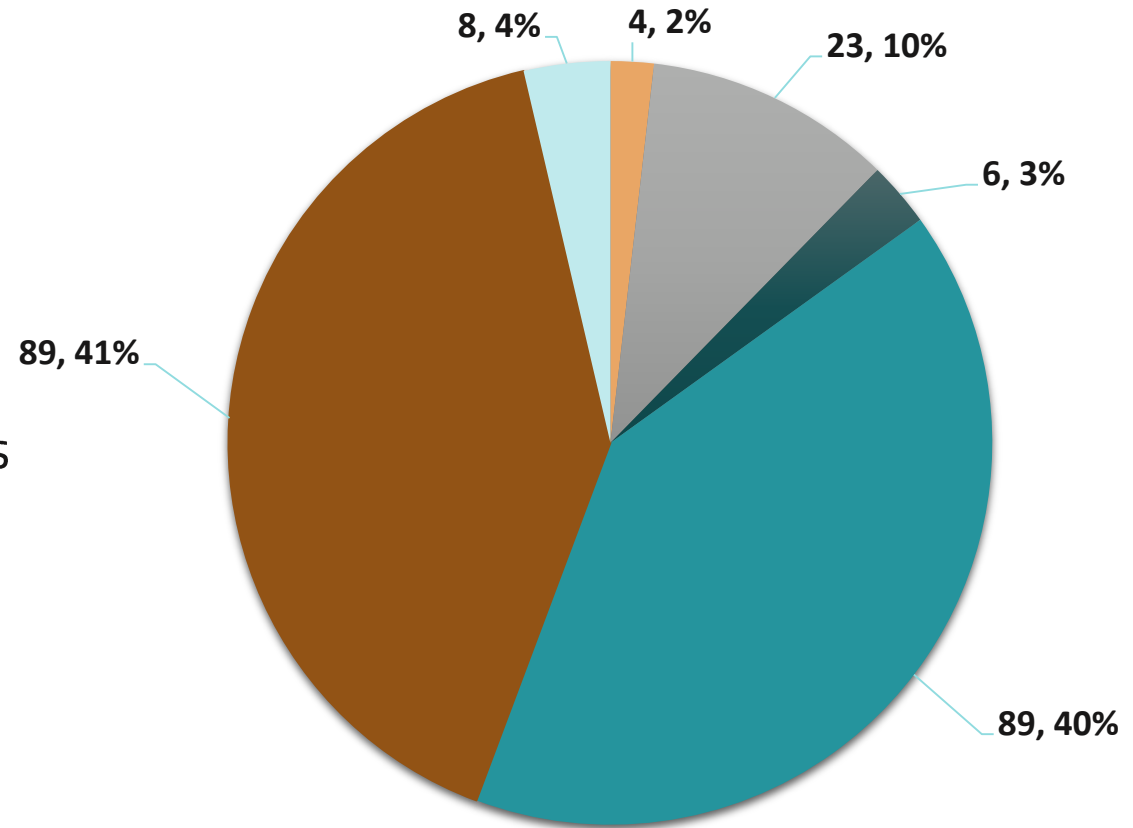
Profile of Current Registry Participants

Participant Organizations (April 2017)

99 total participants

- 13 Private Colleges & Universities
- 4 For Profit Colleges & Universities
- 10 Public Colleges & Universities
- 17 Community Colleges
- 36 Industry Certification Bodies
- 9 Industry Certificate Granting Institutions
- 5 Quality Assurance Organizations
- 5 Other

Credentials (as of April 17, 2017 = 209)

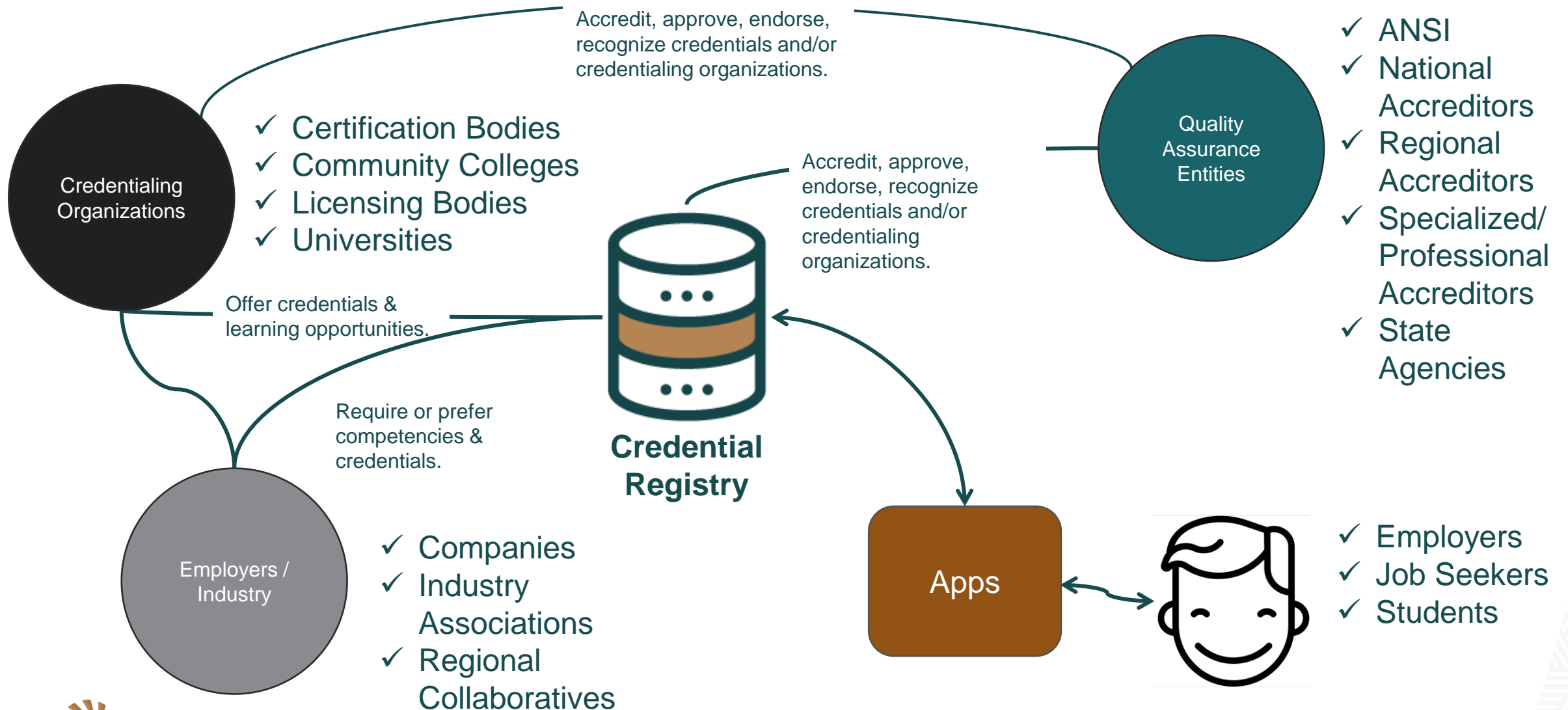


Associate's Degree Bachelor's Degree Master's Degree Certificate Certification Badge

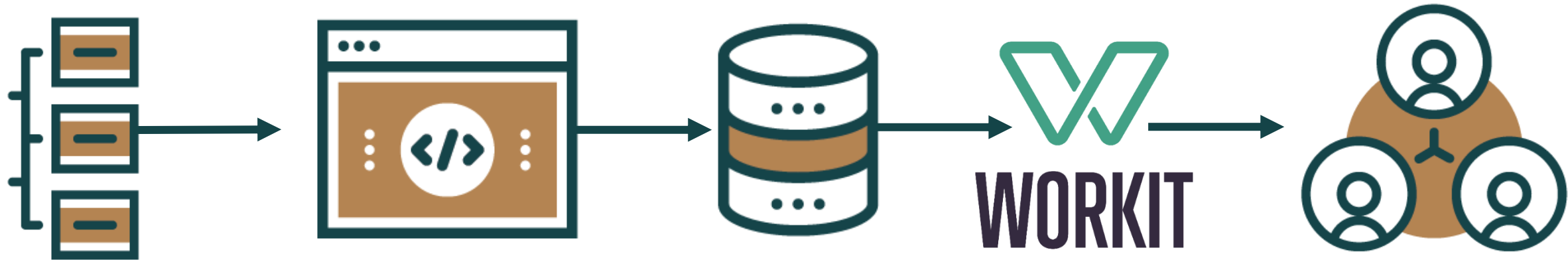
Benefits to Participants

- ✓ Gain greater visibility to vast market of students, employers, others.
- ✓ Demonstrate commitment to credential and QA transparency.
- ✓ Be at forefront of groundbreaking technology effort driving new credentialing ecosystem.
- ✓ Receive suite of services beneficial to short—and long-term technology planning, including:
 - technical and non-technical materials
 - information about Web 3.0 technologies
 - roadmap document showing where they are now and what steps can be taken to enable W3C vision for Linked Data
- ✓ Influence initiative by providing feedback throughout the process.

Example Stakeholder Relationships



How it Works Now



Credential Transparency Description Language (CTDL) – Metadata Infrastructure

CTDL Editor – Converts Partner’s credential and quality assurance information to CTDL and publishes it to the Registry.

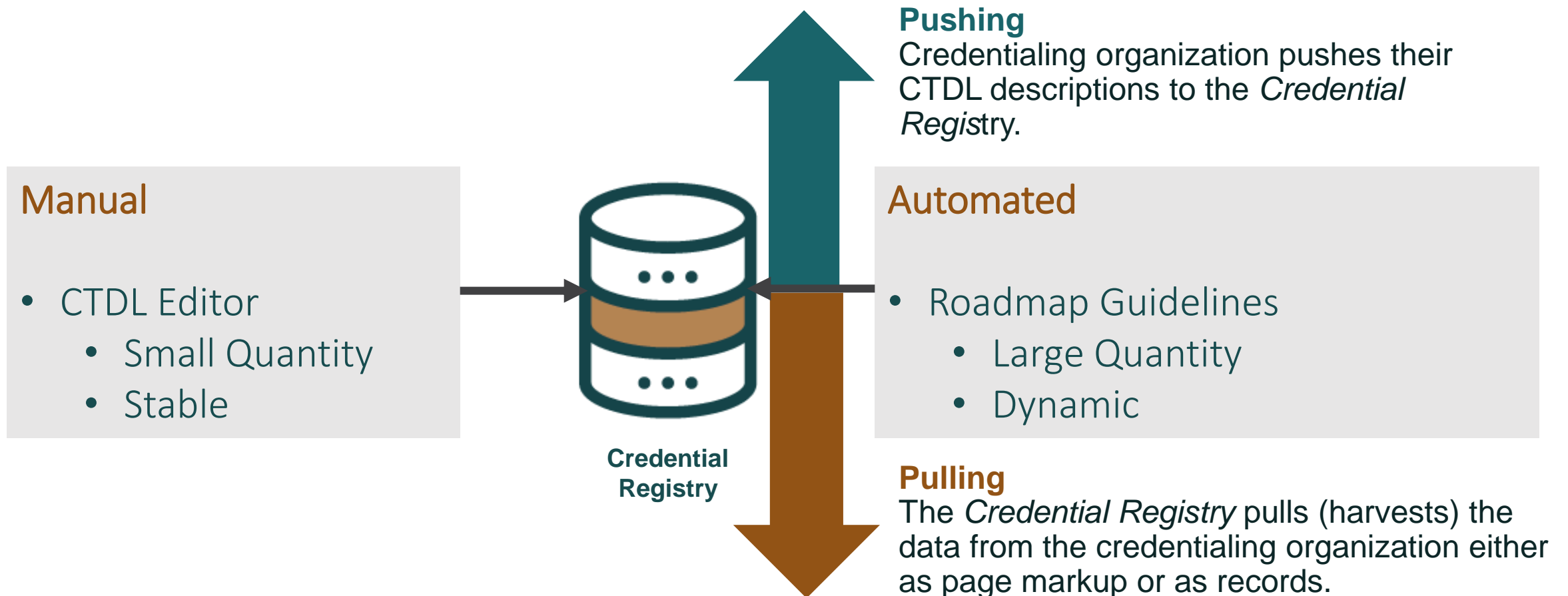
Credential Engine Registry – Set of services and Registry.

Credential Finder Prototype App – Basic search to demonstrate, review, and get feedback.

Partners – Review, provide feedback, fill gaps.

Make updates.

Moving from Pilot Sandbox to Live



Workit™ Search App Prototype

- Participants view information about the small number of credentials they have selected for testing on the registry in the context of an app.
- Shows the credential information from the Registry.
- Provides context for understanding the Credential Transparency Description Language (CTDL) and why it's important to have transparent and comparable credential information.
- Requires a password.

The screenshot displays the Workit Search App Prototype interface. At the top, the logo 'WORKIT' is visible alongside the text 'Discover Credentials Powered by Credential Registry Prototype Phase'. A search bar is present with a search icon and a dropdown menu for 'Search'. To the right, there is a 'My Account' dropdown menu. Below the search bar, a green header contains the word 'Search' and a 'For' dropdown menu set to 'Credentials'. A search input field contains the placeholder text 'Start typing to search...'. To the right of the input field are buttons for 'Search', '+ Filters', and a refresh icon. Below the search bar, it indicates 'No filters selected.' and 'Found 225 results'. A 'Sort A-Z' dropdown menu and 'List' and 'Map' view options are also visible. The main content area displays two credential entries. The first entry is '21st Century Skills for Workplace Success' with a 'Certificate' icon. It includes a description of the credential, its inclusion in NOCTI's Employability Skills assessment battery, and details about the assessment format and content. Below the description are tags for '1 Quality Assurance', '3 Levels', '18 Subjects', and '52 Competencies'. The second entry is 'A.A.S. in Radiologic Technology' with an 'Associate's Degree' icon. It includes a description of the program at Ivy Tech Community College of Indiana, details about the program's focus on radiologic technology, and information about the application process. Below the description are tags for '2 Connections', '2 Quality Assurance', and '1 Occupation'. At the bottom of the interface, a green footer bar displays statistics: '0 Credentials', '0 Organizations', '0 Assessments', and '0 Learning Opportunities'. There are also buttons for 'Toggle Details', 'Compare Selected', and a trash icon.

Benefits and Opportunities for Federal Agencies

- ✓ Become pilot partner
 - Publish one or more credentials on the registry.
 - Participate in technical webinars about Web 3.0 technologies
- ✓ Application Use and Development
 - Use Workit search app to find information on credentials for recruitment and hiring
 - Develop federal agency directories and other applications
- ✓ Provide input on CE development to meet federal agency needs

Contact Information

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