



MARINE TECHNOLOGY SOCIETY

MICROCREDENTIALS INITIATIVE

What are microcredentials?

- Short, competency-based recognitions, with demonstration of mastery
- Transferrable electronic badge is issued
- Badges can be added to resumes, LinkedIn profiles or other social media

Microcredentials can be "stacked" in various ways to build toward competencies needed for learners to attain their specific certification, degree and/or employment goals.



Microcredentials are:

- Personalized: create own pathway based on interests and career goals and address gaps in skills
- Flexible: addresses increasing need for flexible learning mechanisms
- Performance-based: awarded based on demonstrated mastery of the subject matter



Stackable MTS microcredentials:

- Will be endorsed by accredited institutions
- Directly address the workforce preparation need
- Improve the ability of educational institutions to transition some of their programs to skills based credentialling

The content offered within the microcredentials will not only address the technical content, but will be framed around the U.S. Department of Education's Career and Technical Education (CTE) tenets.



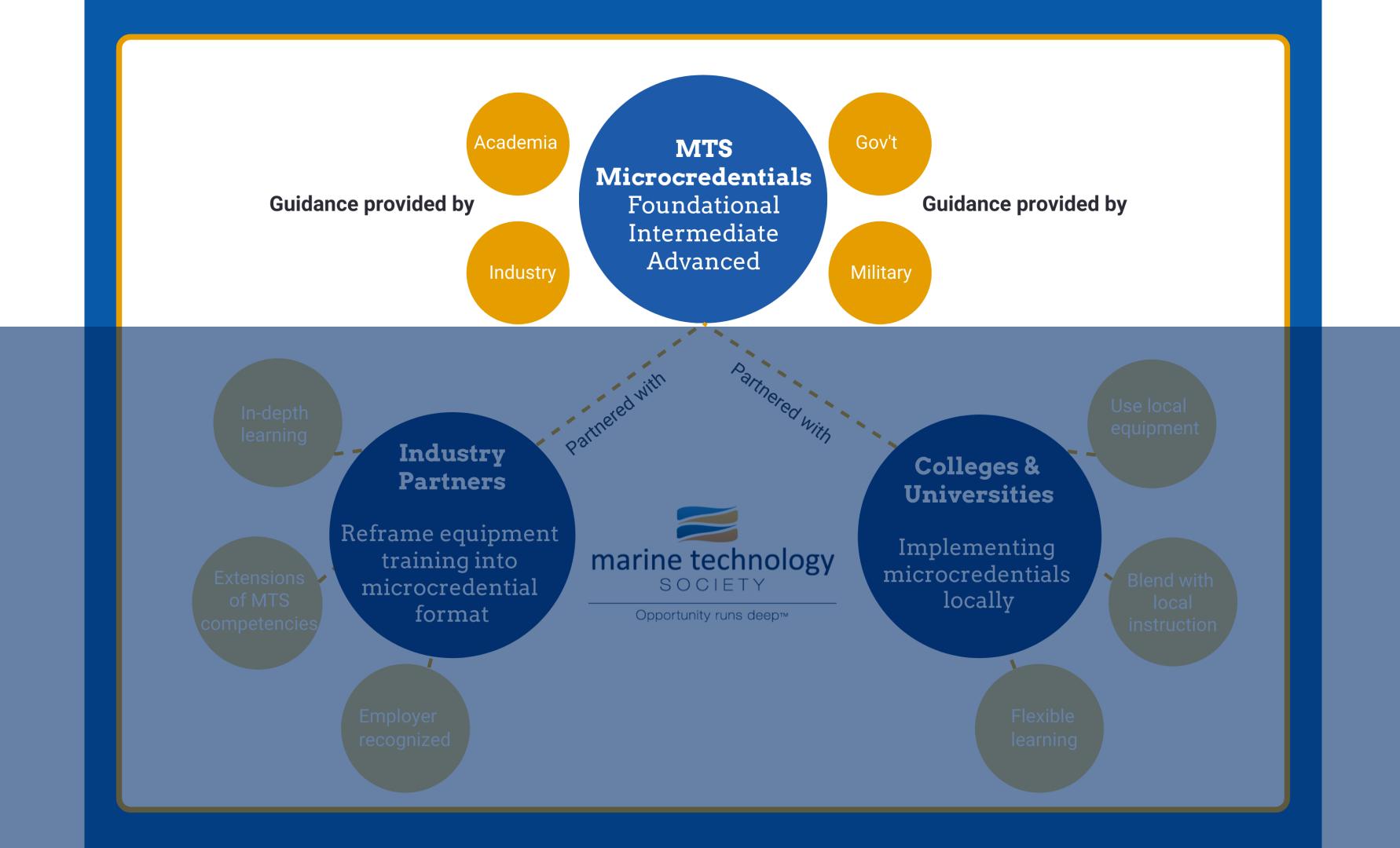


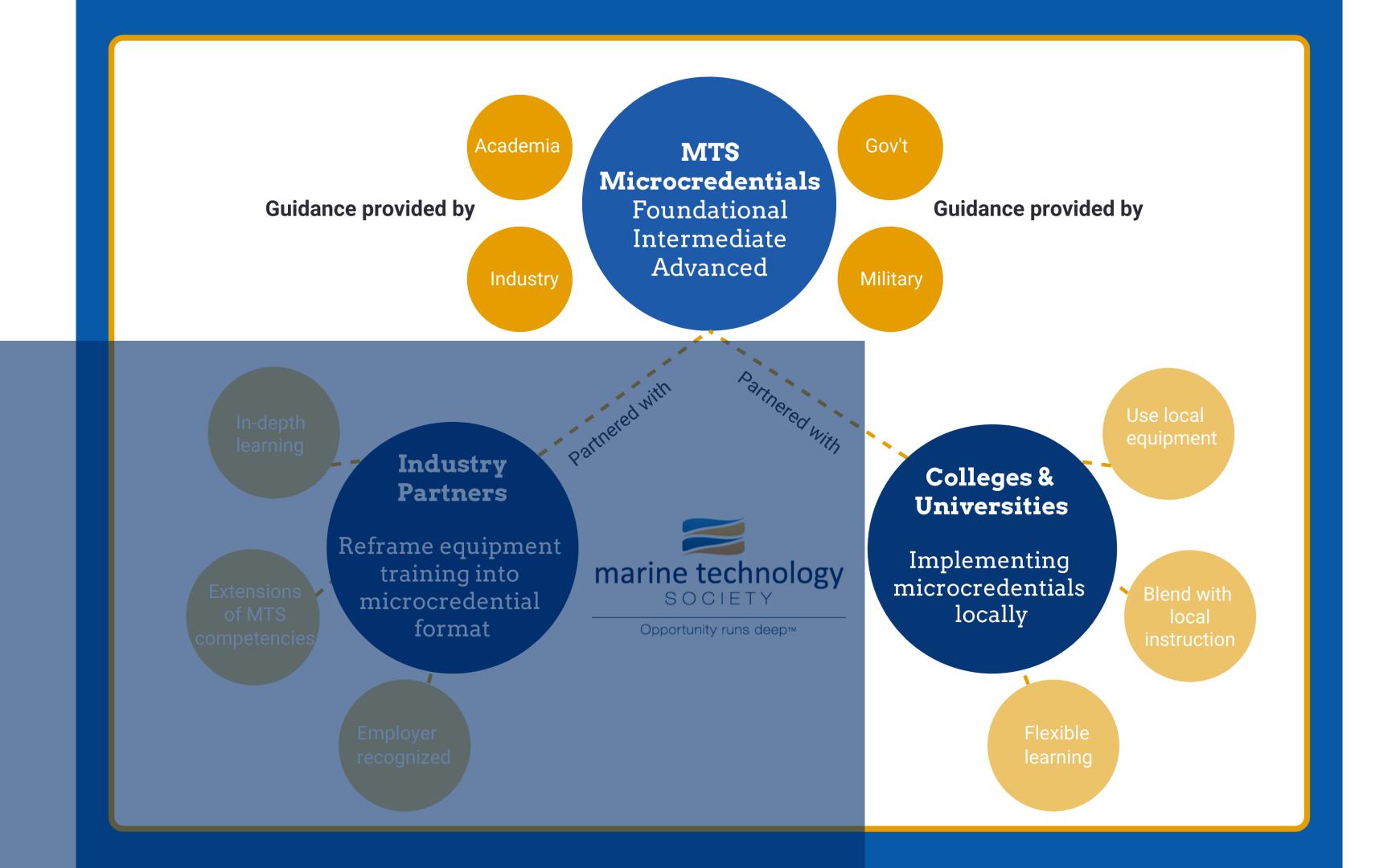
WORKFORCE DEVELOPMENT

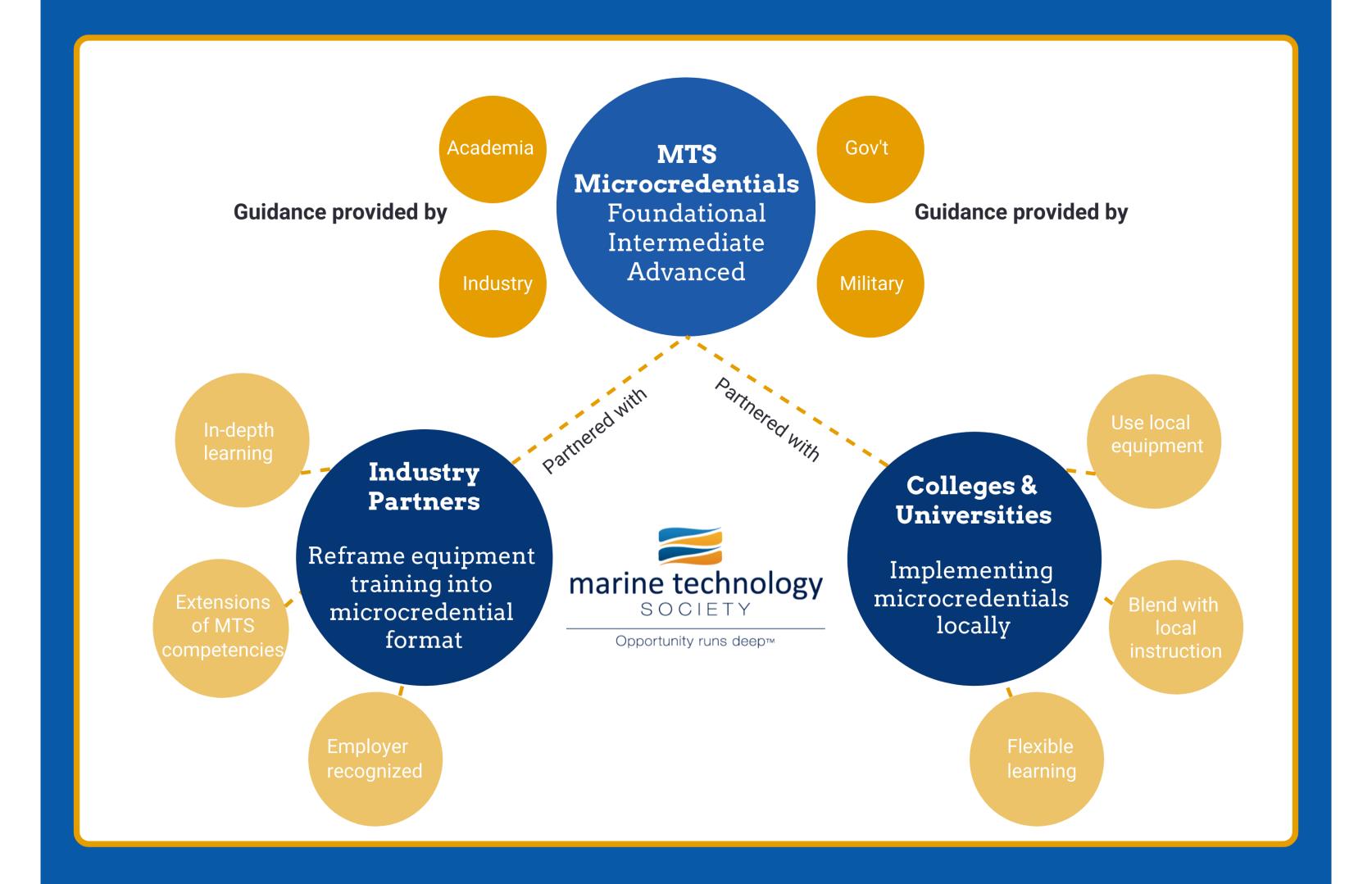
Innovative and flexible pathways

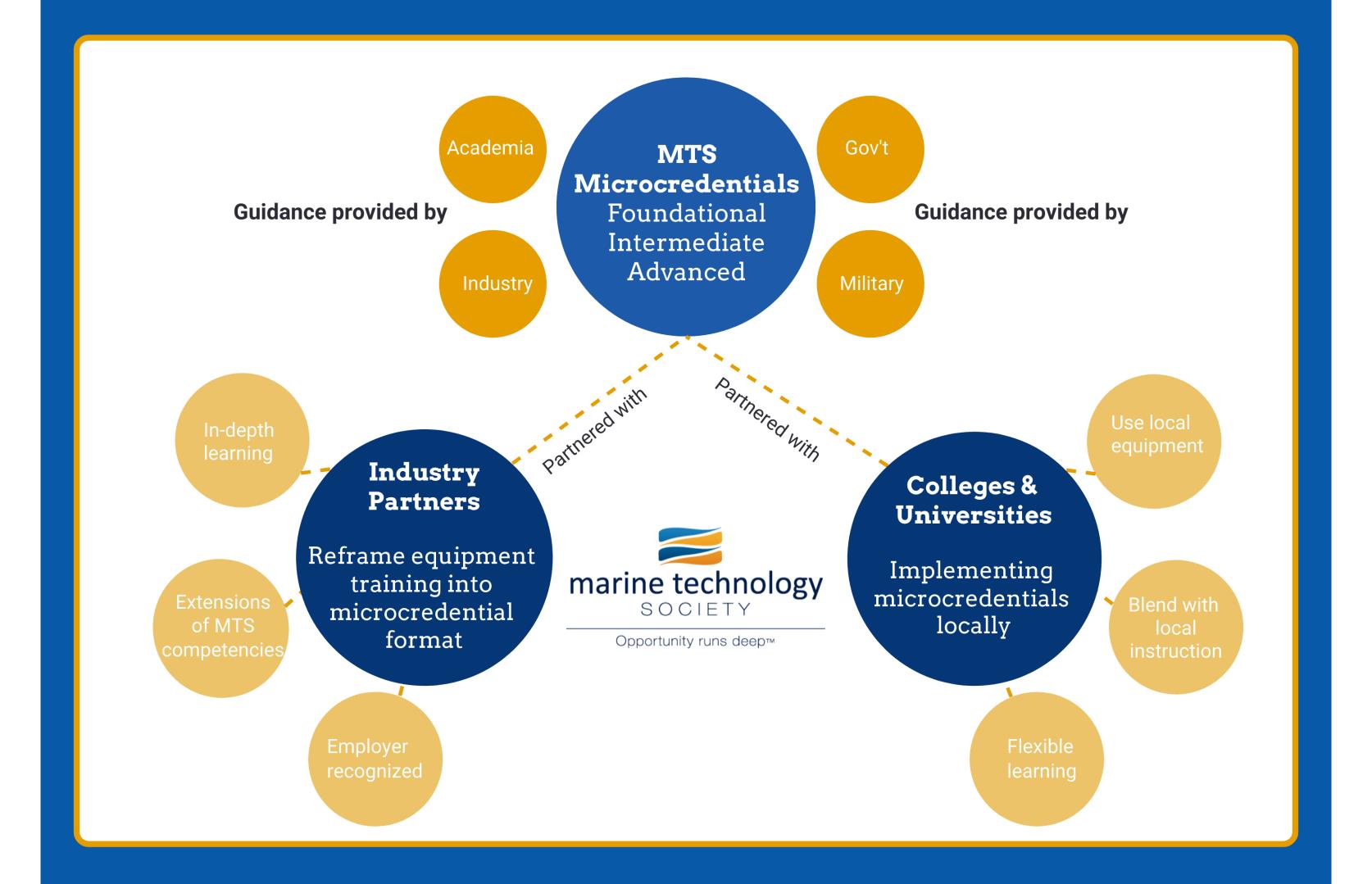
Recognition of skills - microcredentials

Partnerships









Ability Levels

Foundational (Learning focus)

Validated Experience:

- Fundamentals of the technology
- Beginning concepts
- Uses/application
- Basic knowledge demonstrated

Intermediate (Learning and competency demonstration/practicum)

Validated Experience:

- Technology applications
- Intermediate concepts
- More complex uses
- Intermediate level knowledge demonstrated
- PD at work and application

Advanced (Competency mastery through demonstration)

Validated Experience:

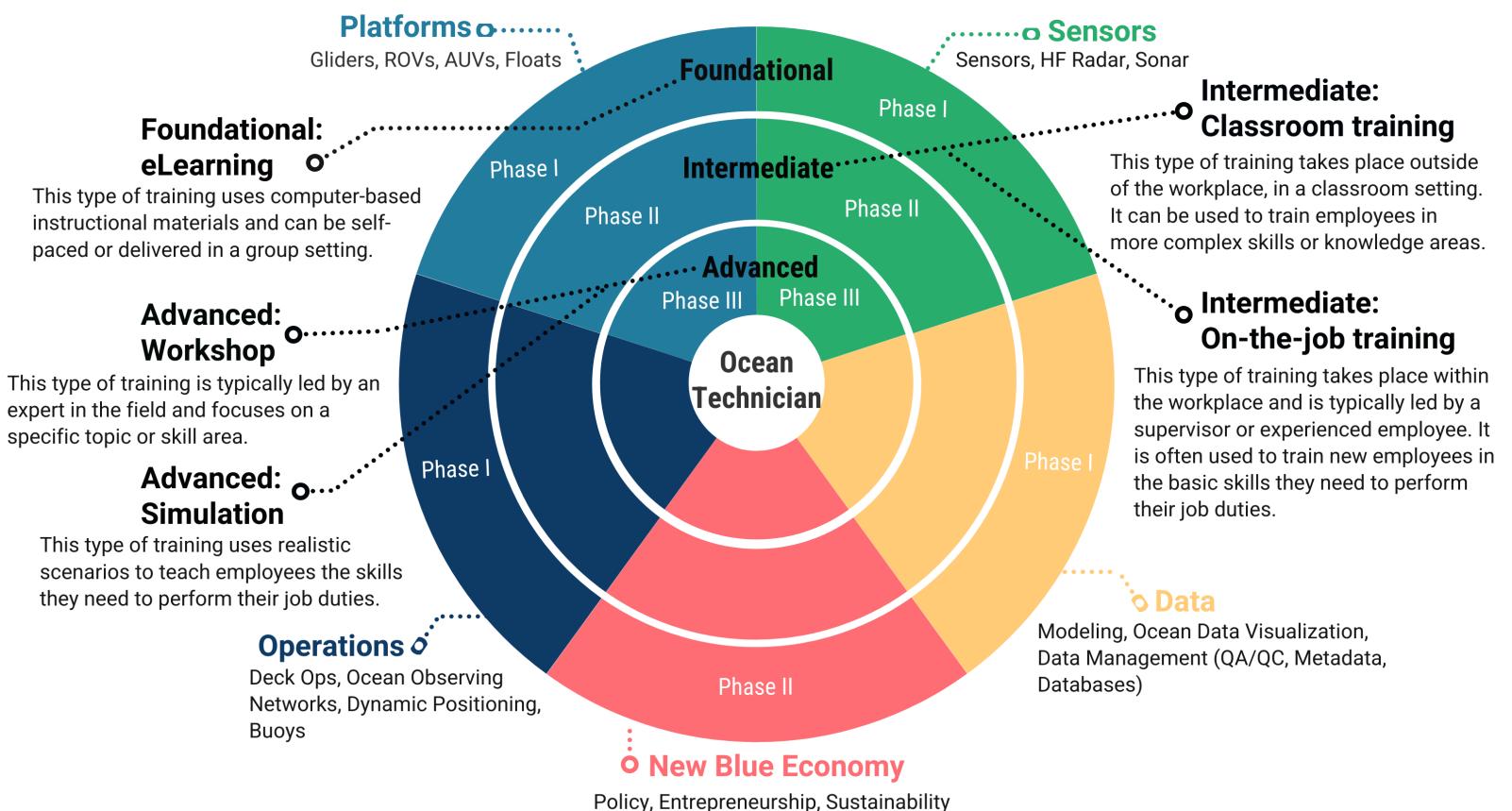
- Practical experience (months to years)
- Capstone Experiences demonstration of abilities
 O Platforms O Sensors O Data



Building an Ocean Technician Workforce

The most effective preparation combines several different types of training, to ensure that technicians have the opportunity to learn in a variety of ways and master the skills they need to be successful in their role.





MICROCREDENTIALS AVAILABLE FOR AWARDING:

- FOUNDATIONAL GLIDER HARDWARE
- FOUNDATIONAL GLIDER SOFTWARE
- FOUNDATIONAL SONAR
- FOUNDATIONAL ROV
- FOUNDATIONAL DECK OPS

MICROCREDENTIALS IN DEVELOPMENT:

- INTERMEDIATE GLIDER SOFTWARE
- ADVANCED GLIDER
- ADVANCED MULTIBEAM SONAR
- FOUNDATIONAL PROTOTYPING
- FOUNDATIONAL FLOATS

MICROCREDENTIALS ONLINE:

- WHAT IS THE BLUE ECONOMY
- WHAT IS MARINE TECHNOLOGY



CULTIVATING AWARDING PARTNERS

RUTGERS UNIVERSITY NORTHWESTERN MICHIGAN COLLEGE **UNIVERSITY OF ALASKA** STOCKTON UNIVERSITY UNIVERSITY OF SOUTHERN MISSISSIPPI UNIVERSITY OF WASHINGTON **OREGON STATE UNIVERSITY UNIVERSITY OF RHODE ISLAND UNIVERSITY OF MASSACHUSETTS - BOSTON UNIVERSITY OF NEW HAMPSHIRE** MISSISSIPPI GULF COAST COMMUNITY COLLEGE PLOCAN
UNIVERSITY OF DELAWARE
MISSISSIPPI STATE UNIVERSITY
PEARL RIVER COMMUNITY COLLEGE
UNIVERSITY OF SOUTH FLORIDA
FLORIDA ATLANTIC UNIVERSITY
UCSD - SCRIPPS
EAST CAROLINA UNIVERSITY
UNIVERSITY OF VIRGIN ISLANDS
NATIONAL OCEANOGRAPHY CENTRE

DEVELOPING RELATIONSHIPS WITH COMPANIES AND INDEPENDENT TRAINERS TO SERVE AS AWARDING PARTNERS



AWARDING MICROCREDENTIALS

Competencies equate to badges

Badges vary in length of time

Awarded by MTS to partner schools

Partner schools inform MTS

Can be alongside locally issued badges

Assessment rubrics will be developed



OPPORTUNITES

Recruiting for Review Team Members

Recruiting for partners to implement Foundational ROV, Sonar and Glider

Recruiting students for summer experiences





marine technology society

Opportunity runs deep™

DISCUSSION

STRUCTURE OF THE MICROCREDENTIALS AND PROGRAM

WHERE ARE THE PAIN POINTS?
TRAINING "SUPPLY"
TRAINING "DEMAND"

POTENTIAL FOR ADOPTION AND GROWTH
TOPICS FOR FUTURE MICROCREDENTIALS

