



CONNECTING HANDS
CAREER AND WORKFORCE
CONSULTING AND EVALUATION

PRESENTED BY
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Evaluating Virtual Exchange Projects and Programs

University of South Florida
College of Education

25 March 2023



Agenda

1	Virtual Exchange in Education
2	Consider Your Audience
3	Theoretical Approach
4	UN Sustainable Development Goals
5	Qualitative Instrumentation
6	Instructional Design
7	Analysis

Virtual Exchange

Experiences?





Virtual Exchange Learning Environments



career education



world languages



academics

Consider Your Audience

- ◆ Stakeholders
Funding agencies, governing agencies
- ◆ Institutions
Strategic goals, international engagement
- ◆ Virtual Exchange Participants
Educators, students, demographics, curricula

Identifying Values and Purpose

Who are you serving?
How can you serve them effectively?



Approach

Theoretical Orientation	Practical Application
<ul style="list-style-type: none">• Management• Participant• Collaborative• Culturally Responsive	<ul style="list-style-type: none">• A priori guiding questions• Scope• Timeline• Curricula<ul style="list-style-type: none">◦ Industry-specific for CTE/CWE

Effective literature is necessary to guide your orientation and theoretical approach.

Develop an understanding of the core curriculum learning objectives and benchmarks.

Methodology

Key Indicator

Qualitative Methods	Quantitative Methods
<ul style="list-style-type: none">• Survey instruments identified, compatible• A priori questions identified, compatible• Institutional Revenue Board (IRB) established	<ul style="list-style-type: none">• Instructor demographics• Student demographics• Population and region demographics

Mixed-methods approach may or may not be warranted.

Theoretical Orientation

Perspective-Taking

MANAGEMENT

Emphasize improvement as primary part of the evaluation.

PARTICIPANT

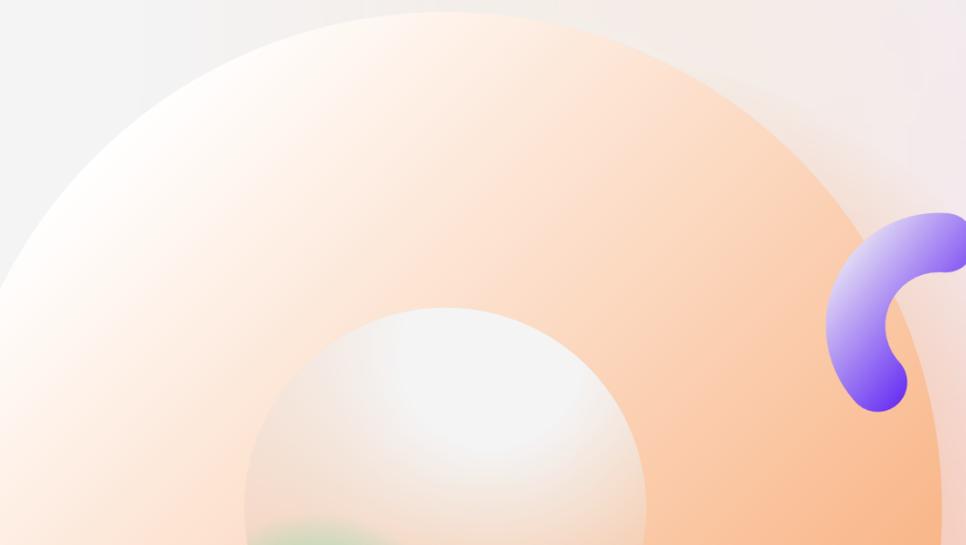
Measures input, activity, and output in relation to VE program/project goals.

COLLABORATIVE

Increased investment of interest, community engagement, reduce bias.

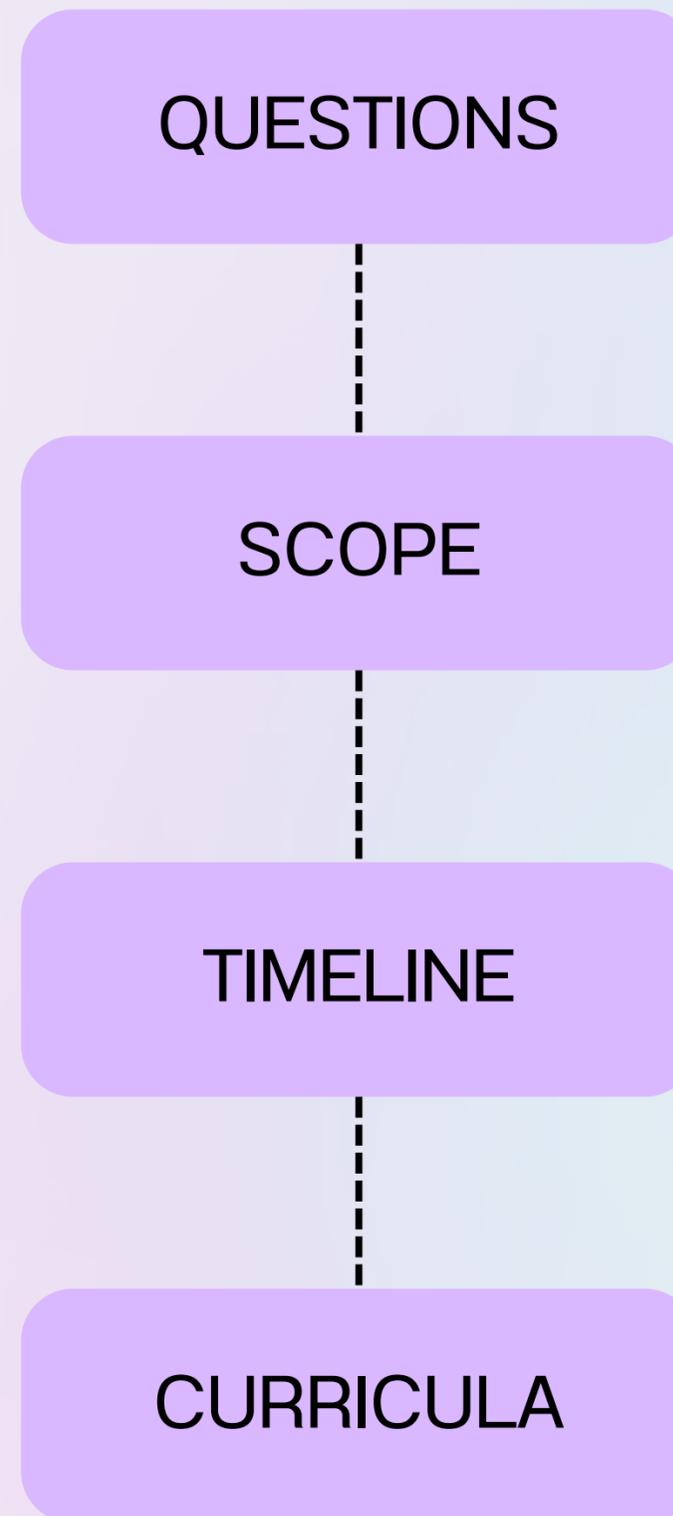
CULTURALLY-RESPONSIVE

Considers the impact and implications of international student and teacher engagement.



Practical Application

Logistics.



A priori questions craft evaluation design, convey approach, and communicate criteria.

Establish this early and completely. Allow for organic, reasonable flexibility.

Defined according to data collection, analysis, and deliverables.

Education levels, courses, standards, industry-specific (if CTE/CWE).

Broader Impact

STEM

Initiatives in U.S. and Career and Technical/Workforce Education (CTE/CWE)

SP

Strategic partnerships unite academic and business communities, improve education, and foster employment

SDGS

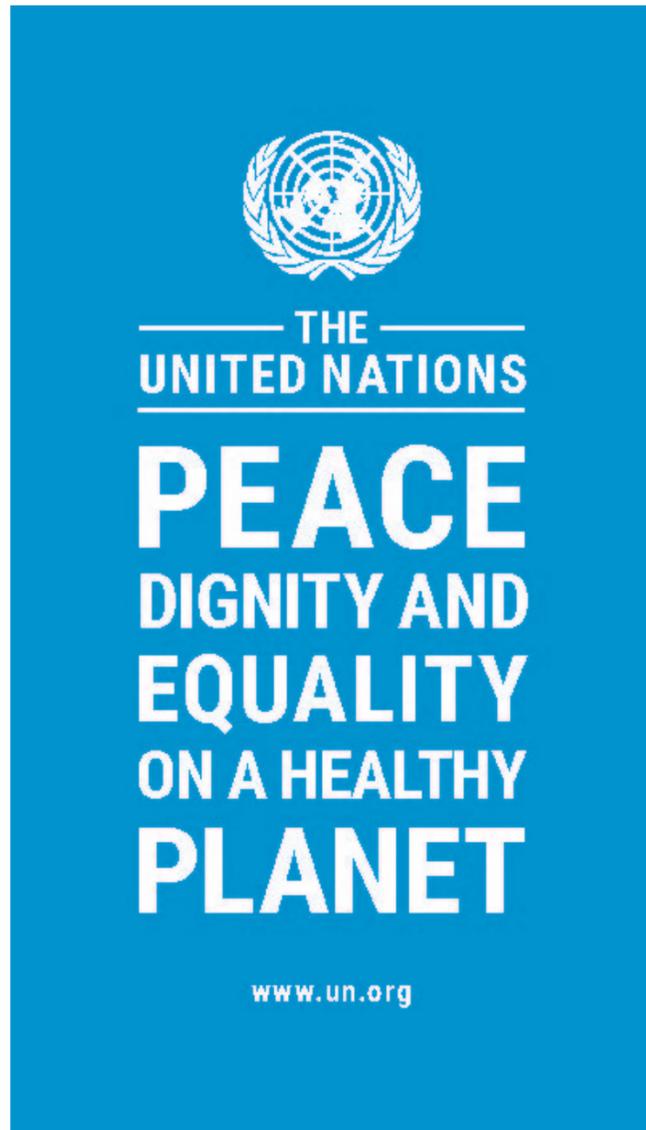
United Nations Department of Economic and Social Affairs - 17 Goals for Sustainable Development

NSF

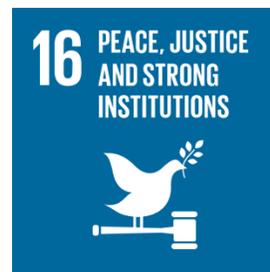
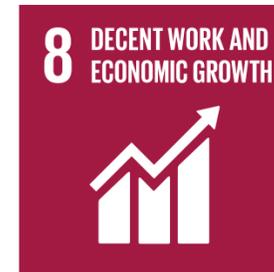
National Science and Technology Council Committee on STEM Education: Charting a Course for Success

WEF

World Economic Forum: Jobs of Tomorrow—Mapping Opportunity in the New Economy



Sustainable Development Goals



THE GLOBAL GOALS



THE GLOBAL GOALS

WWW.EDUCATORSTECHNOLOGY.COM

**Education is the
most powerful
weapon which you
can use to change
the world.**

NELSON MANDELA



SUSTAINABLE DEVELOPMENT GOALS





Jobs of Tomorrow

Care Economy

Data and Artificial Intelligence

Engineering and Cloud Computing

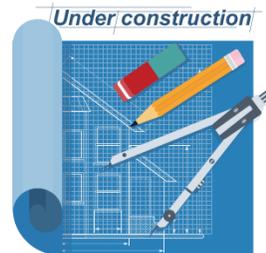
Green Economy

People and Culture

**Product Development, Sales,
Marketing and Content**



Agriculture, Food & Natural Resources



Architecture & Construction

Arts, A/V



& Communication

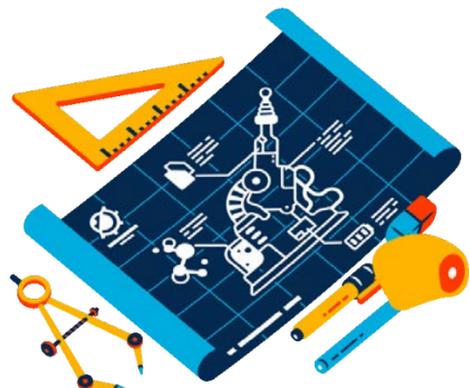


Business, Management & Administration

Education & Training

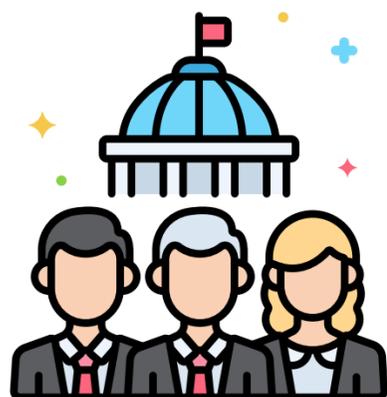


Energy



Engineering & Technology Education

Finance



Government & Public Administration



Health Science

Hospitality & Tourism



Human Services

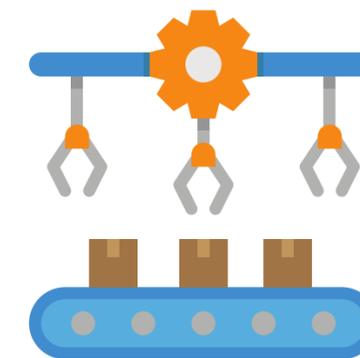


Information Technology

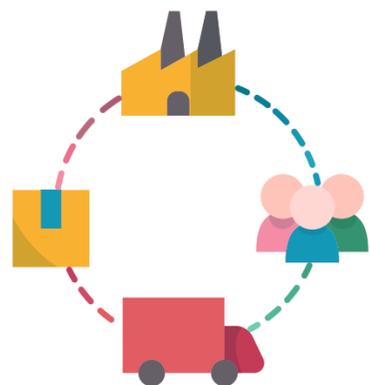


Law, Public Safety & Security

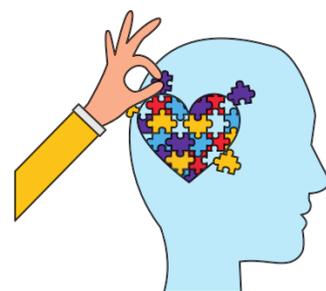
Manufacturing



Marketing, Sales & Service



Transportation, Distribution & Logistics



Diversified Education

FL CTE Career Ready Practices

Communication

Communicate clearly, effectively, and with reason.



Decision Making

Consider the environmental, social, and economic impacts of decisions.



Technology

Use technology to enhance productivity.



Critical Thinking

Utilize critical thinking to make sense of problems and persevere in solving them.



Global Competence

Work productively in teams while using cultural/global competence.



Common Career Technical Core

1. Act as a responsible and contributing citizen and employee.
2. Apply appropriate academic and technical skills.
3. Attend to personal health and financial well-being.
4. Communicate clearly, effectively and with reason.
5. Consider the environmental, social and economic impacts of decisions.
6. Demonstrate creativity and innovation.
7. Employ valid and reliable research strategies.
8. Utilize critical thinking to make sense of problems and persevere in solving them.
9. Model integrity, ethical leadership and effective management.
10. Plan education and career path aligned to personal goals.
11. Use technology to enhance productivity.
12. Work productively in teams while using cultural/global competence.

Commitment

Reach net-zero carbon emissions across our operations by 2040

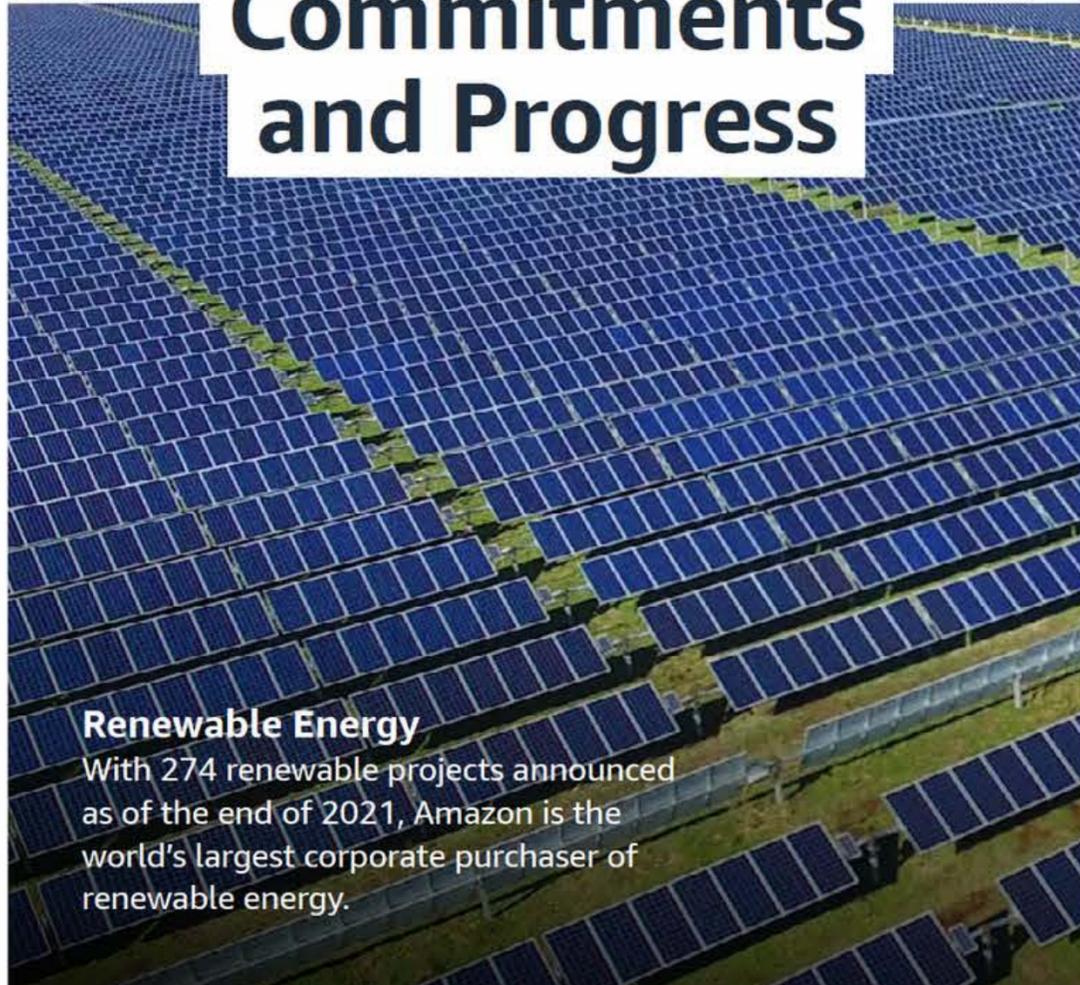


The Climate Pledge

Over 300 signatories have joined Amazon in signing The Climate Pledge.



Our Environmental Commitments and Progress



Renewable Energy

With 274 renewable projects announced as of the end of 2021, Amazon is the world's largest corporate purchaser of renewable energy.

Commitment

Make 50% of Amazon shipments net-zero carbon by 2030



Shipment Zero

In 2021, more than 100 million packages were delivered to our customers' doorsteps globally using zero-emission vehicles. Since 2015, we have reduced per-shipment packaging weight by 38% and eliminated over 1.5 million tons of packaging.



Commitment

Reduce food waste by 50% across our U.S. and Europe operations by 2030



Commitment

On a path to powering our operations with 100% renewable energy by 2025—five years ahead of our original target of 2030



Learn more about our complete list of [Goals and Progress](#) on our website.

AMAZON WEB SERVICES



AWS CloudRoom

AWS CloudRoom is an educational volunteer initiative powered by AWS InCommunities that provides students aged 9-14 with learning experiences focused on the Cloud and emerging cloud technologies. AWS CloudRoom will take place in select regions from September 28 to October 28, 2022.

[Register here](#) and learn more.



Girls' Tech Day

AWS Girls' Tech Day is a program that aims to educate, inspire, and empower girls and young women aged 8 to 24 to pursue careers in technology. It encourages future female builders to Think Big and ignite their imaginations through STEAM, as well as participate in fun and engaging workshops and explore exciting career paths in technology.

[Register here](#) and learn more.



Think Big Space

AWS Think Big Spaces provide a place beyond the standard classroom for students to explore and cultivate an interest in STEAM and STEAM related careers. These labs encourage a hands-on approach where students think big to solve real-world problems.

[Learn more »](#)



Hyperlocal Programs



THE GLOBAL GOALS



STEAM Education, Access, and Equity



Environmental stewardship

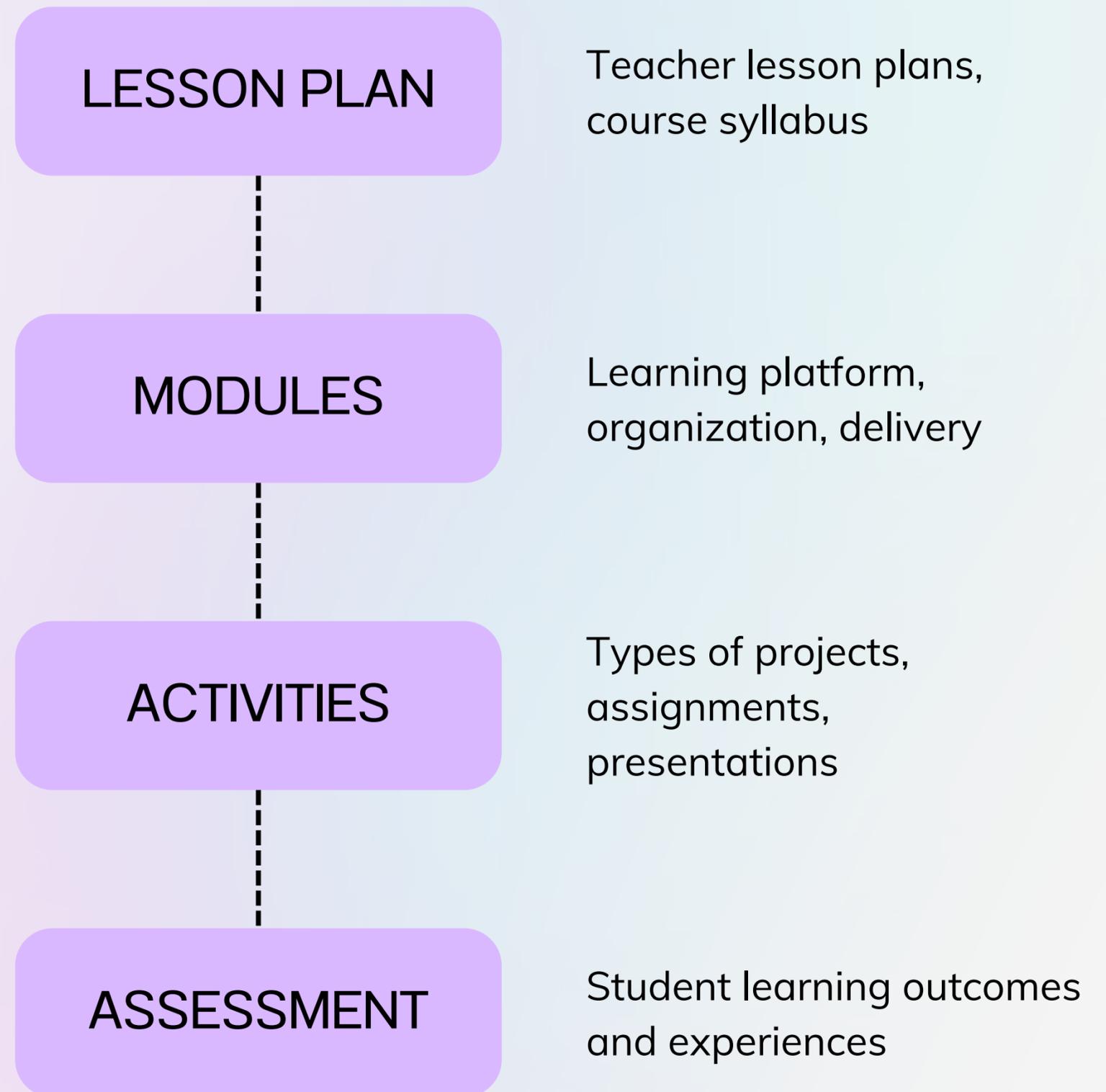


Local Tech Upskilling



Instructional Design

Virtual Exchange learning project/program implementation



Use of Technology



Platform

How will students communicate?



Digital literacy

Tools to research, communicate, collaborate, create



Transferable Skills

Variety of applications used in career and enterprise

Preparing students effectively with relevance and rigor.

Key Indicator



Project Based Learning



Cross-Curricular

Creativity in project-building across disciplines



Problem-Solving

Challenge students' ingenuity and innovation



Real-World Scenarios

Practical application and research

Preparing students effectively with relevance and rigor.

Key Indicator



Assessment



Presentation

Digital representation of project, presentation skills



Learning Objectives

Standards and benchmarks identified



Reflection

Student testimonials

Preparing students effectively with relevance and rigor.

Key Indicator

March 22nd.mp4

Mayan Ruins of Edzná in Campeche



Edzna means "House of the Itzaes", Edzna Mayan Ruins are located to 61 kilometres to the south-east of Campeche's City. Edzna was possessing numerous religious, administrative buildings and habitacionales distributed in a surface of approximately 25 square kilometres. His architecture possesses influence of the style Puuc, Peten and Chenes.

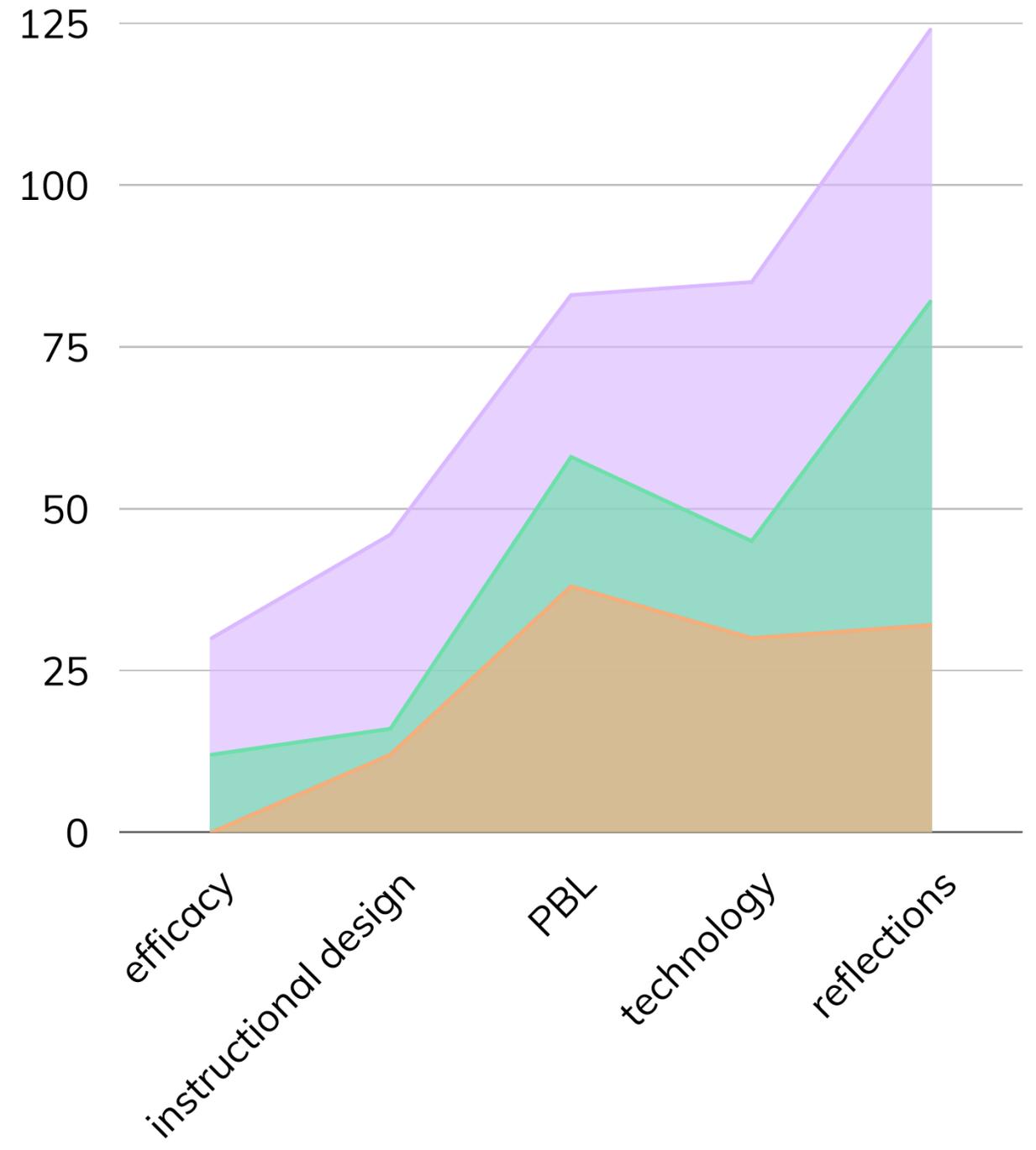
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2:12 / 12:38



The 21st C Learner is . . .





Analysis

Formative, summative, useful.

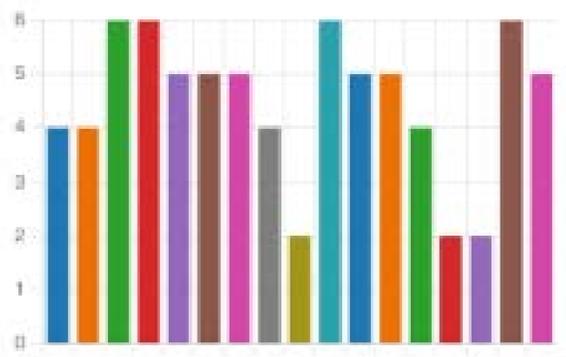
Data-Based



Learning Outcome Expectations

When asked to define which of the 17 SDGs aligned with teaching curriculum, all goals were useful to various members in varying degrees.

- No poverty 4
- Zero hunger 4
- Good health and well being 6
- Quality education 6
- Gender equality 5
- Clean water and sanitation 5
- Affordable and clean energy 5
- Decent work and economic gro... 4
- Industry, innovation, and infrastr... 2
- Reduced inequalities 6
- Sustainable cities and communit... 5
- Responsible consumption and p... 5
- Climate action 4
- Life below water 2
- Life on land 2
- Peace, justice, and strong institu... 6
- Partnerships for the goals 5



Global Goals and Multicultural Activity Plans

	Dimension	Subdimension	Indicator of Merit
Process	Activities	SDGs	Value Rubric
Outcomes	Attitude	Knowledge, Skills	Lesson Plan Ideas
	Side Impact	Satisfaction	Participant Claims
Comparisons	Study Abroad	Multidisciplinary	Comparisons with alternatives



SWOT ANALYSIS

While this evaluation was overwhelmingly positive and conducive to learning, a SWOT analysis provides a snapshot of programmatic findings.

S

STRENGTHS

- Cultural Learning
- Classroom Cultural Exchange Opportunities
- World Heritage and History
- Global Citizenship
- Empathy and Compassion

W

WEAKNESSES

- Cost-prohibitive for some institutions
- Learning objectives

O

OPPORTUNITIES

- Targeted interdisciplinary partnerships
- Curriculum developed through SDGs
- Representation in University Educational Exchange projects

T

THREATS

- Weather and politics impeding on travel plans
- Grant funding-dependent

Recommendations



Challenges

Environmental, individual



Limitations

Beware of bias, hermeneutics



SWOT

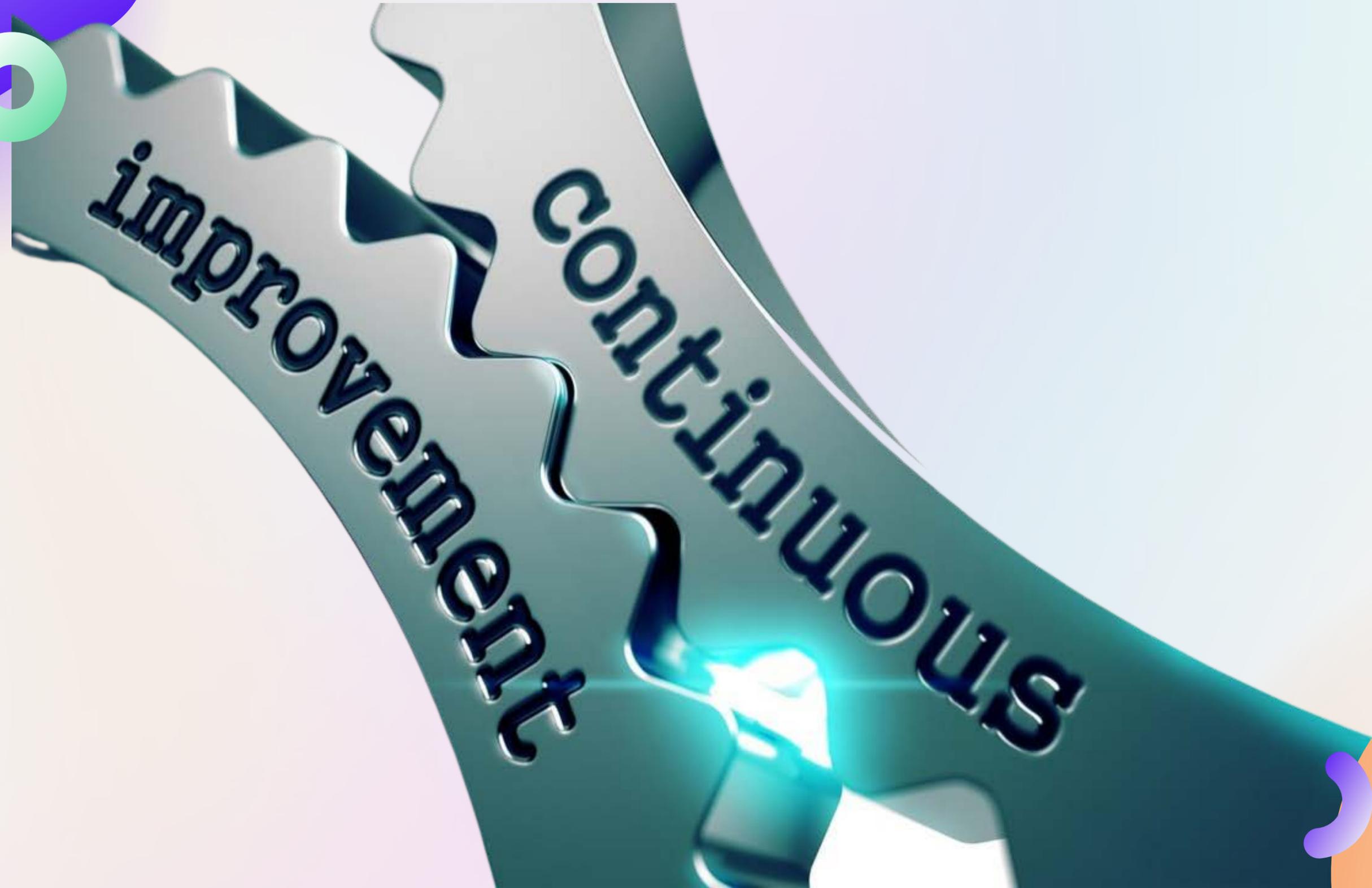
Strengths, weaknesses, opportunities to improve, threats

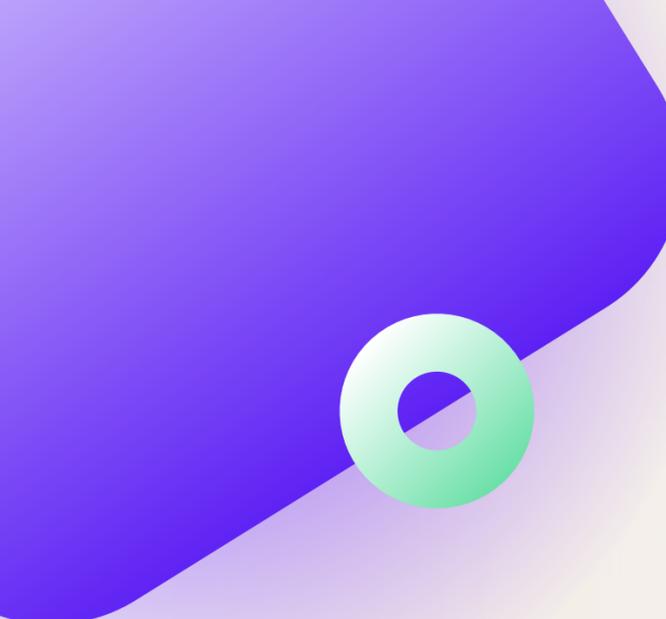
Make it useful!

Evaluator Value
Indicator

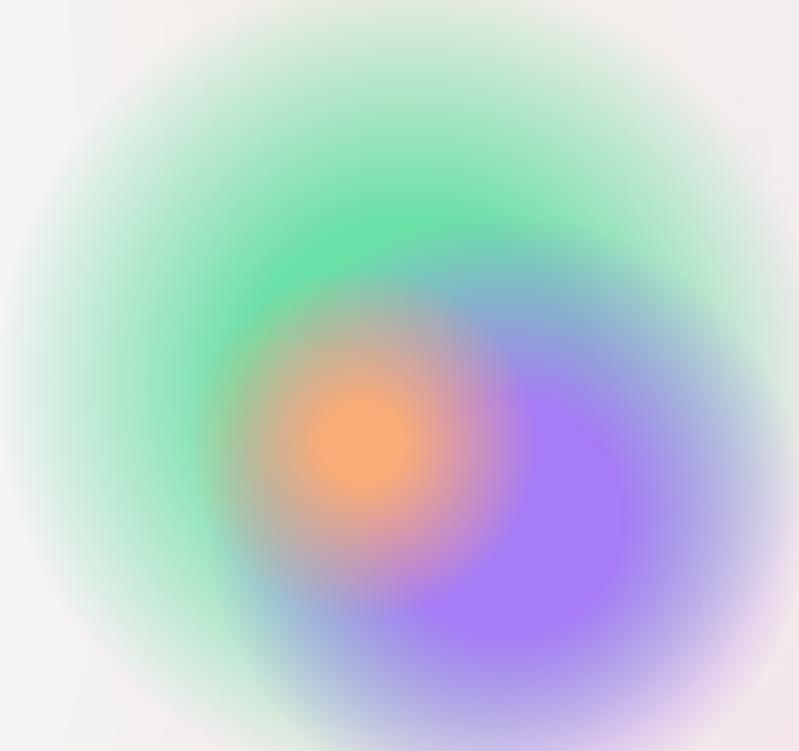


Recommendations





thank you!



questions?



comments?

contact

gaynor@usf.edu

