

MOVING BEYOND ECOLOGY

VALUING RESTORATION SUCCESS WITH SOCIOECONOMICS

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CORAL RESTORATION SUCCESS

Ecological Metrics:

- Coral Survivorship
- Number of Corals Outplanted
- Coral Growth
- Biodiversity
- Coral Coverage

RETHINKING SUCCESS

OF CORAL RESTORATION



SOCIOECONOMIC FRAMEWORK

OF CORAL RESTORATION





SOCIOECONOMIC FRAMEWORK

1. Economic Stimuli & Resilience
2. Differing Beneficiaries
3. Ecological Vs Socioeconomic

ECONOMIC STIMULI & RESILIENCE

OF CORAL RESTORATION FOUNDATION





IMMEDIATE ECONOMIC STIMULI

Total economic impact is spending traced through an economy and measurement of the cumulative effects of that spending.

TOTAL ECONOMIC IMPACT

Spending traced through an economy and measurement of the cumulative effects of that spending.



\$

Investment for Restoration
of Florida's Coral Reef



DIRECT ECONOMIC EFFECTS

All direct effects the organization has on the region due to the organization's operations. For example, direct employees and other organizational spending.

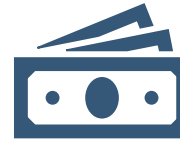
Direct Effects



INDIRECT ECONOMIC EFFECTS

The impact of local industries buying goods and services from other local industries. For example, support industry's operational costs.

Indirect Effects

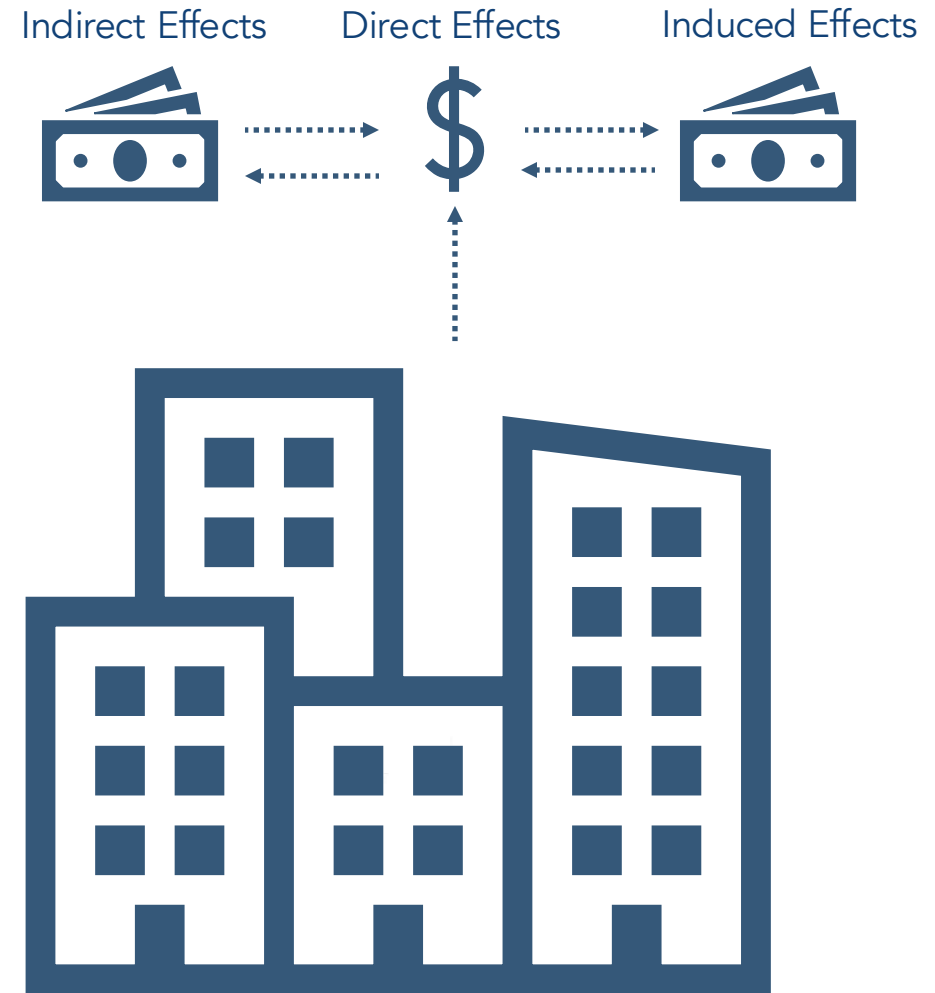


Direct Effects



INDUCED ECONOMIC EFFECTS

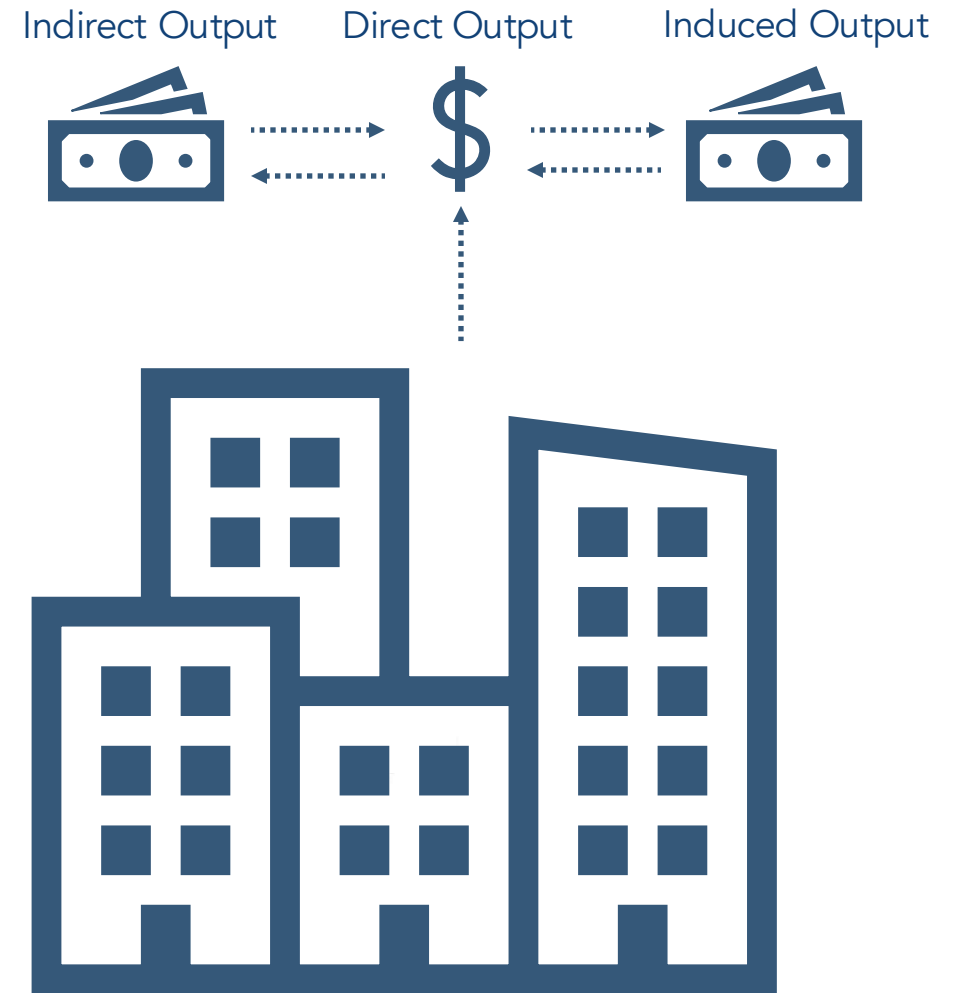
The response by an economy to an initial change (direct effect) that occurs through re-spending of income received by a component of value added. For example, employees spending paychecks in the local community.



TOTAL ECONOMIC IMPACT

Spending traced through an economy and measurement of the cumulative effects of that spending.

Total Economic Impact on the local economy



CORAL RESTORATION INDUSTRY

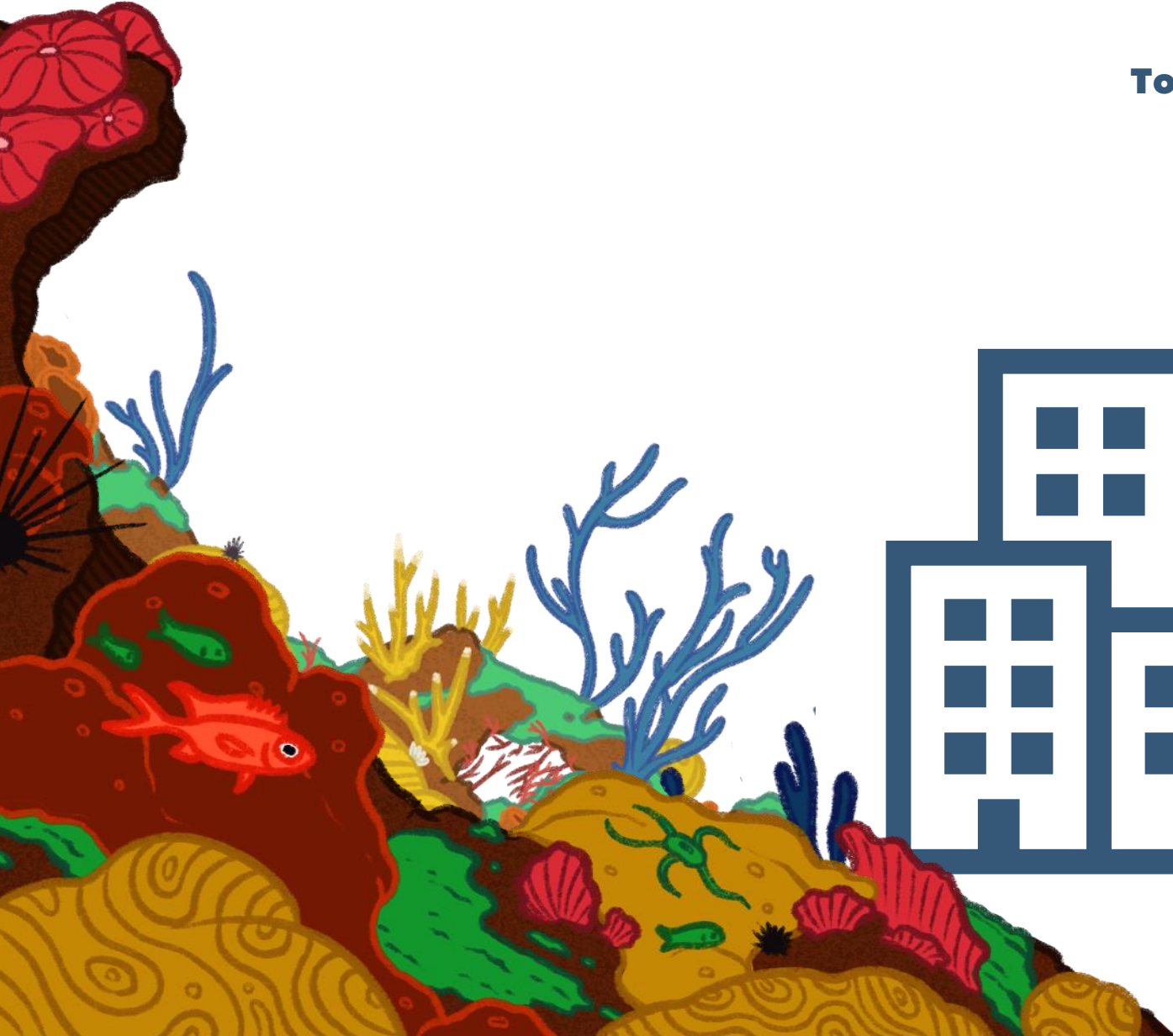
Total Economic Impact on the local economy
(on average)

\$1.41



\$1.00

Investment for Restoration





ECONOMIC RESILIENCE WITH CORAL RESTORATION

Coral restoration **strengthens community resilience** by providing **steady jobs** when tourism industries falter.

In the Florida Keys, for example, **CRF projects sustained the local economy** during the COVID-19 pandemic.

DIFFERING BENEFICIARIES

OF RESTORATION PROJECTS





DIFFERING BENEFICIARIES

Benefits unfold over time and vary by beneficiary. These benefits may be **additive or separate**, reaching different groups at different times.

ECOLOGICAL VS SOCIOECONOMIC

GOALS OF RESTORATION PROJECTS



Environmental Returns



Socioeconomic Returns

SOCIOECONOMIC FRAMEWORK

OF CORAL RESTORATION





1. ECONOMIC STIMULI & RESILIENCE

Coral restoration projects can stimulate the local economy in communities dependent on coral reefs while providing economic resilience.



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2. DIFFERING BENEFICIARIES

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3. ECOLOGICAL VS SOCIOECONOMIC

Ecological and socioeconomic goals may conflict. Local communities should help determine and state priorities based on their **unique needs and values**.

RESEARCH ARTICLE

Coral restoration as economic stimulus: a case study from the Florida Keys (United States)

R. Scott Winters^{1,2,3} , Madeline H. Rothwell¹



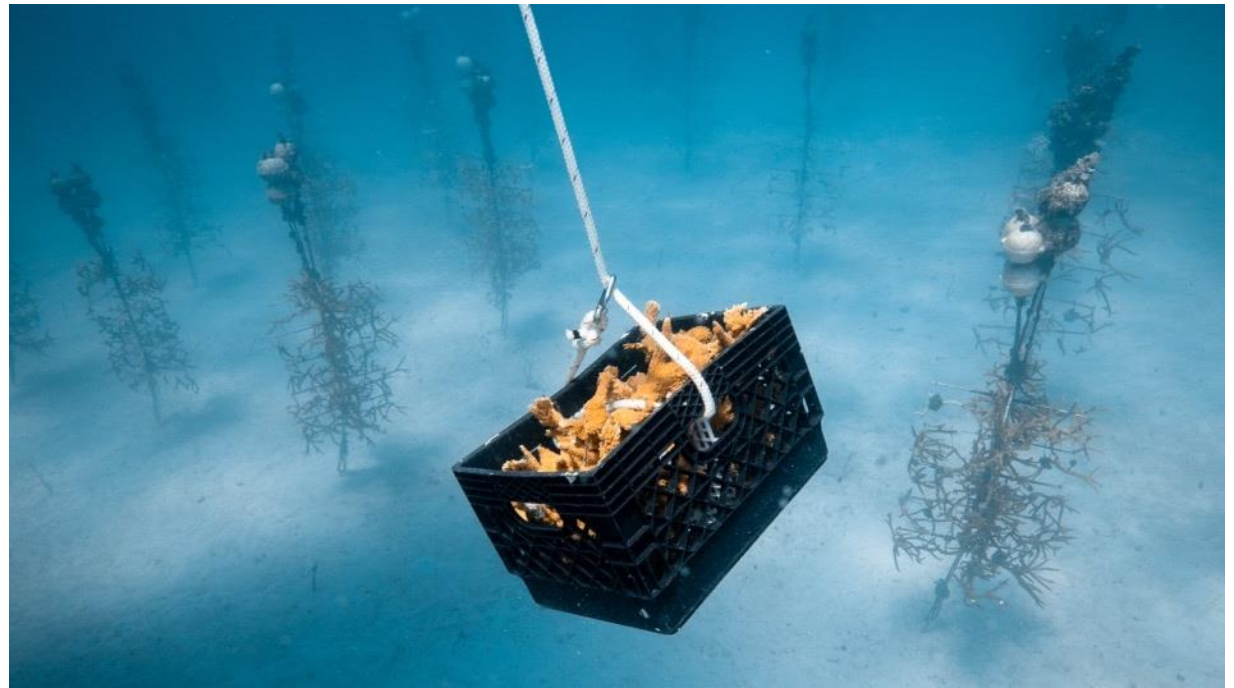
METHODOLOGY

IMPLAN.com software package and data set (IMPLAN, 2023). For a contribution analysis of the period 2018–2022, in Monroe County, FL (U.S.A.).

PEER-REVIEWED ARTICLE

Coral Restoration as Economic Stimulus: A Case Study from the Florida Keys (USA)





THANK YOU!

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