

# Welcome to InVEST 3.9.1 x64 Setup

Setup will guide you through the installation of InVEST 3.9.1 x64.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

Advanced

Next >







Cancel

✓ Workspace  

✓ Results suffix (optional)



General

- ✗ Area of Interest (Vector) (Required)   
- ✗ Features Impacting Scenic Quality (Vector) (Required)   
- ✗ Digital Elevation Model (Raster) (Required)   
- ✗ Refractivity Coefficient (Required)  

Valuation

Four downward-pointing chevron icons (∨) are arranged vertically in the center of the Valuation section.

 Run



# InVEST

InVEST (Integrated Valuation of Ecosystem Services and Tradeoffs) is a suite of models used to map and value the goods and services from nature that sustain and fulfill human life. It helps explore how changes in ecosystems can lead to changes in the flows of many different benefits to people.

## What is InVEST?

InVEST is a suite of free, open-source software models used to map and value the goods and services from nature that sustain and fulfill human life. If properly managed, ecosystems yield a flow of services that are vital to humanity, including the production of goods (e.g., food), life-support processes (e.g., water purification), and life-fulfilling conditions (e.g., beauty, opportunities for recreation), and the conservation of options (e.g., genetic diversity for future use). Despite its importance, this natural capital is poorly understood, scarcely monitored, and, in many cases, undergoing rapid degradation and depletion.

Governments, non-profits, international lending institutions, and corporations all manage natural resources for multiple uses and inevitably must evaluate tradeoffs among them. The multi-service, modular design of InVEST provides an effective tool for balancing the environmental and economic goals of these diverse entities.

InVEST enables decision makers to assess quantified tradeoffs associated with alternative management choices and to identify areas where investment in natural capital can enhance human development and conservation. The toolset includes distinct ecosystem service models designed for terrestrial, freshwater, marine, and coastal ecosystems, as well as a number of "helper tools" to assist with locating and processing input data and with understanding and visualizing outputs.

## How it works

InVEST models are spatially-explicit, using maps as information sources and producing maps as outputs. InVEST returns results in either biophysical terms (e.g., tons of carbon sequestered) or economic terms (e.g., net present value of that sequestered carbon).

The spatial resolution of analyses is also flexible, allowing users to address questions at local, regional, or global scales.

InVEST models are based on production functions that define how changes in an ecosystem's structure and function are likely to affect the flows and values of ecosystem services across a land- or a seascape. The models account for both service supply (e.g., living habitats as buffers for storm waves) and the location and activities of people who benefit from services (e.g., location of people and infrastructure potentially affected by coastal storms).

InVEST models are distributed as a standalone application that is independent of a GIS software. You will need a mapping software such as QGIS or ArcGIS to view your results. Running InVEST effectively does not require knowledge of Python programming, but it does require basic to intermediate skills in GIS software.

The tool is modular in the sense that you do not have to model all the ecosystem services listed, but rather can select only those of interest.

## Urban InVEST: Designing resilient cities by nature

In a rapidly urbanizing world, the design of cities will determine the health and wellbeing of billions of people. Urban InVEST provides



- Download InVEST 3.9.1 (Windows)
- Download InVEST 3.9.1 (Mac)
- InVEST User's Guide (online)
- Older and Development Versions of InVEST
- Individual Sample Datasets for InVEST
- 生态系统服务评估与权衡 (InVEST) 模型 (3.2.0 版本) 使用手册
- InVEST User's Guide (Español)

### Data Sources For InVEST

- Download Parameter Value Database
- Download Nutrient Database
- Download Sediment Database
- Download Spatial Data List
- Download Kc Calculator

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### Urban InVEST: Designing resilient cities by nature

In a rapidly urbanizing world, the design of cities will determine the health and wellbeing of billions of people. Urban InVEST provides tools to show how incorporating the value of nature into urban design can deliver better outcomes for people and the planet.

Need Help? Check out the resources on our software and support page.

### InVEST models

- |  |   |   |
|--|---|---|
| <a href="#">Carbon</a>   <a href="#">Read more »</a>               | <a href="#">Coastal Blue Carbon</a>   <a href="#">Read more »</a>         | <a href="#">Coastal Vulnerability</a>   <a href="#">Read more »</a>                         |
| <a href="#">Crop Pollination</a>   <a href="#">Read more »</a>     | <a href="#">Crop Production</a>   <a href="#">Read more »</a>             | <a href="#">Fisheries</a>   <a href="#">Read more »</a>                                     |
| <a href="#">Habitat Quality</a>   <a href="#">Read more »</a>      | <a href="#">Habitat Risk Assessment</a>   <a href="#">Read more »</a>     | <a href="#">Marine Fish Aquaculture</a>   <a href="#">Read more »</a>                       |
| <a href="#">Offshore Wind Energy</a>   <a href="#">Read more »</a> | <a href="#">Recreation</a>   <a href="#">Read more »</a>                  | <a href="#">Reservoir Hydropower Production (Water Yield)</a>   <a href="#">Read more »</a> |
| <a href="#">Scenic Quality</a>   <a href="#">Read more »</a>       | <a href="#">Seasonal Water Yield</a>   <a href="#">Read more »</a>        | <a href="#">Sediment Retention</a>   <a href="#">Read more »</a>                            |
| <a href="#">Urban Cooling</a>   <a href="#">Read more »</a>        | <a href="#">Urban Flood Risk Mitigation</a>   <a href="#">Read more »</a> | <a href="#">Water Purification</a>   <a href="#">Read more »</a>                            |
| <a href="#">Wave Energy</a>   <a href="#">Read more »</a>          |   |   |

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