



Ecosystem Information Portal Process

IA-Team®'s Ecosystem Information Portal Process incorporates real-time environmental data for dynamic interactions, processes and linkages to foster sustainable ecosystem management decisions in harmony with human needs.

The opportunity is to assess the impacts of linked processes using indicator data. The use of an indicator to assess environments has been used for a long time. Just think of the canary in the coal mine carried into the mine because of its

extreme sensitivity to methane and carbon dioxide. As long as the miners could hear the singing canary they knew they were safe. A dead canary signaled an immediate evacuation.

The challenge is to correctly anticipate global climate change impacts.

IA-Team®'s Ecosystem Information Portal meets this challenge.

What can serve as our canary to assess threats from global climate change? We cannot evacuate our planet. We need to anticipate global impacts before it is too late. We cannot wait to make decisions but we want assurances that our decision will really alleviate global climate impacts. IA-Team® has identified a way to use indicator data to anticipate global climate impacts eliminating concerns and worries over data quality.

Benefits are cost-effective accurate decisions in the face of changing global climate conditions. The IA-Team®'s Ecosystem Information Portal offers seamless integration of data.

Imagine the ability to anticipate global climate change impacts before it is too late. Now visualize the development of successful environmental solutions directly targeted to meet anticipated challenges.

There are many protocols and models in place to assess ecosystem viability. Similarly, there are many models that attempt to predict climate change. The universal goal is a sustainable global ecosystem in harmony with human needs.

Opportunity exists to meet this challenge and IA-Team®'s Ecosystem Information Portal Process provides the strategically targeted solution.

The most challenging environmental problem right now is global climate change, more specifically, the impact of temperature change on life on this planet. IA-Team®'s value-driven database provides the strategic targeted solution for global climate change impacts to act now.



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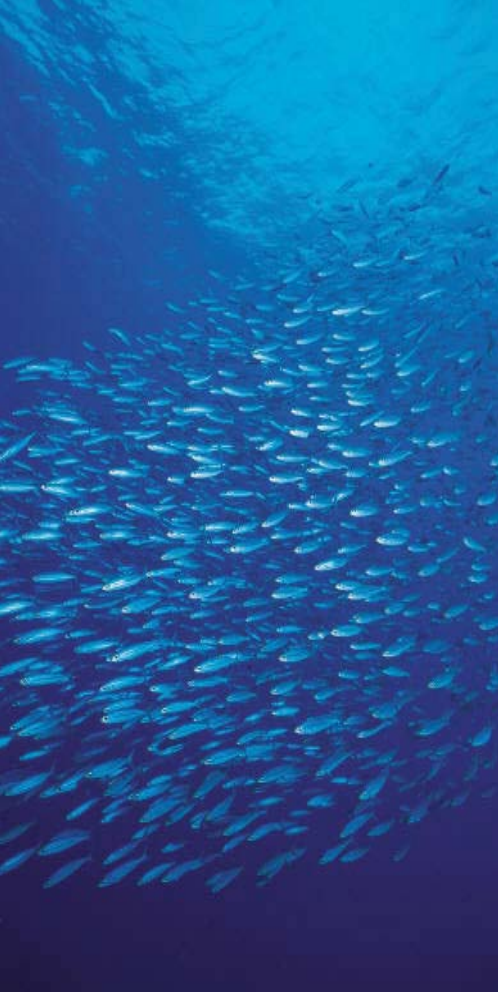
Currently, IA-Team® assimilates valid data from government and other public sources. Imagine the increased benefits when all value-driven data is included. Data assimilated from the equally valid business, non-profit and academic sectors will produce greater accuracy for current global climate impacts and associated global ecosystem problems; because of the linked nature of the Portal, local ecosystem impacts and their causes are also identified.

Do you have trouble using your data in meaningful ways? IA-Team®'s Ecosystem Information Portal has a unique process to handle the special formats of ecosystem data. We start by analyzing the building blocks of data, letters, numbers, symbols and spaces to grasp the inherent patterns. Through these patterns, we identify good from bad data (i.e., incomplete or invalid) while developing strategies for you to prevent bad data patterns from occurring. After this process, your data becomes more valuable.

Are your global climate impact data needs being met? Can you rely on your current information structure to assess how global climate change affects your resources and business? Other models exist that attempt to assess and predict climate change impacts but are criticized because of incomplete formats, poor data quality and data assumptions resulting in magnified predictions. IA-Team®'s Ecosystem Information Portal ensures better climate change strategies; no other solution is designed to accurately identify and integrate indicator data for unified and targeted model predictions.

Features of IA-Team®'s Ecosystem Information Portal Process combine data for multi-species, habitat quality, habitat structure, meteorological, pollution and regulatory compliance all encapsulated in a real-time dynamically linked database. The result is a tool to identify optimum habitat for diverse species and make management decisions that increase ecosystem sustainability and associated services. The key feature of this tool is the use of value-driven data and how the database assimilates carbon cycle data with other ecosystem data sets.

There is a plethora of data available but IA-Team®'s unique process assesses the value of datasets and structures a linked dynamic database. For example, available fishery data comes from scientific studies, commercial logs and creel surveys. IA-Team® analyzes patterns in the data, eliminates redundancies, then synthesizes and assimilates complete datasets. The result is a unified, comprehensive, meaningful database useful to predict population dynamics, biological community structure and optimum habitats insuring better resource management and business decisions.



Temperature and salinity are just a few of the major driving forces in fish behavior and prime factors in defining essential fish habitat. Ocean currents effect distribution and spawning habitat. IA-Team®'s synthesis and assimilation of data allows for linkages and dependencies to facilitate a flowing unified ecosystem model that assesses global climate change all leading to better decision-making.

Strategic predictions of future impacts can be made under varying scenarios, assessed with policy, regulatory, management and business decisions. The linked cleansed unified data structure of the portal provides credible and politically unbiased information accessible to willing participants

from the general public, government, academic institutions, businesses and non-profit organizations through subscription.

The Ecosystem Information Portal Process structures and assimilates biologic, ocean, geospatial and atmospheric data, along with environmental compliance standards, from local, national and global sources. The dynamic process allows data collection, management decisions, regulatory development and compliance, and graphic presentations to occur while data sources and data gaps are identified at the same time the database is being integrated and stratified. Every process step offers opportunities for improvement and these insights are integrated into the Ecosystem Information Portal in real-time.

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With this Process, historic data has the same value as new data and new data is assimilated in real-time. Emerging data collection techniques are addressed as they develop. Redundant datasets and systems are eliminated. Management and business decision impacts are assessed rapidly and efficiently. The Ecosystem Information Portal is unique because of this dynamic streamlined process.

IA-Team®'s Ecosystem Information Portal Process is unique because it standardizes various disciplines of data used as value-driven indicators to accurately predict impacts to ecosystems and the services they provide.



These indicators, like the canary in the coal mine, accurately and strategically identify climate change impacts at global and local ecosystem levels. This information can be used for commercial, scientific, political and economic decisions.

The benefit of IA-Team®'s Ecosystem Information Portal is useable ecosystem information in one encompassing database. Presently, ecosystem assessments rely on datasets from various databases and acknowledge data gaps due to inadequate access to data or incomplete datasets. Are these types of ecosystem assessments reliable? IA-Team®'s Ecosystem Information Portal offers reliability.

Reliability is offered with complete linked datasets in one place, as opposed to, for example, searching the U.S. Geological Survey Geodatabase for geospatial information and then the Environmental Protection Agency's STORET database for water quality information and then performing data quality assessments. Wouldn't it be nice to eliminate this stressful time-consuming process when producing reports? IA-Team®'s Ecosystem Information Portal is a one-stop complete data hub for ecosystem data.

Another benefit of the Portal is pre-processed reports with targeted information, like the location of optimum fish habitat in a proposed shipping route; or identification of fishery impacts resulting from a decrease in the dissolved oxygen standard for coastal waterways.

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IA-Team®'s Ecosystem Information Portal provides credibility, accessibility and compliance.

Increased data volume and the linked, cleansed structure of IA-Team®'s Ecosystem Information Portal, ensures reliability.

Imagine your data in various formats, (IA-Team® can scan forms or handle any electronic data format) assimilated into IA-Team®'s Ecosystem Information Portal where it is integrated, cleansed and structured into a unified database increasing the value of your data (historic, current and future). Your datasets are assimilated with value-drive data from other sources, leveraging the full potential of data for better environmental solutions.

Regulatory compliance is a key feature of IA-Team®'s Ecosystem Information Portal; value driven data analyzed in comparison to regulatory standards in real-time accelerates good decision-making under management and business scenarios. The real-time nature of the data benefits decision-makers because adjustments to policies occur rapidly.

IA-Team® implements the highest security protocols for data handling and information compliance under various regulatory programs. IA-Team® structures the acquisition, preservation and maintenance of data to credibly meet compliance requirements. IA-Team®'s Portal handles confidential data appropriately; your data is safe. An added benefit of IA-Team®'s Ecosystem Information Portal is credibly meeting the standards for

information compliance.

The overall benefit is the ability to strategically develop solutions to our most pressing global ecosystem threat, the impact of climate change on life on this planet. IA-Team®'s Ecosystem Information Portal is the format for credible, well-documented, dependable and scientifically valid ecosystem data to develop successful environmental solutions. You can tell your kids that your work is alleviating global climate change.

Success Stories: IA-Team® is providing technical leadership in the planning and design on a national fisheries information portal for the National Oceanic Atmospheric Administration's Fisheries Services (NOAA-NMFS).

IA-Team® is developing the Highly Migratory Species Information System for the NMFS Southwest Fisheries Science Center. For the Center, IA-Team® cleanses, integrates and synthesizes fishery datasets (originally in paper and varied desktop database formats) into an integrated database. Benefits of the integration are: a standardized user interface, centralized data storage, security, improved data quality controls, and the elimination of redundant technologies for reliable ecosystem assessments.

About IA-Team®: We are passionate about data. We know that organizations evolve by leveraging the data that they collect. Our purpose is simple: to extract the hidden value of data, thus translating it into something that is real and purposeful. That something is information.

IA-Team® scopes, measures and resolves data quality problems, enabling our customers to build some of the most advanced customer information infrastructures available in the marketplace today.

Every solution that we offer is built from our core competencies – evolution through information, customer empowerment, efficiency over elegance, affordable excellence and no impossibilities, just choices.

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IA-Team® is a woman owned business, guided by its President, Lora Martinez. Joe Hudicka is a Senior Partner of the firm. Mr. Hudicka provides technical solutions leadership and coauthored, Oracle8 Design Using UML Object Modeling for Osborne/McGraw-Hill & Oracle Press.

IA-Team® has developed core environmental partnerships and is excited to provide solutions to global climate change impacts.

We would be happy to provide more information on the Ecosystem Information Portal Process and other IA-Team® products and services.

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