

National Bioeconomy Pipeline



1. Secure, Web-based Pipeline Integration of Multipoint, National Rx & Research Data

Integrates US Agency, Corporate, University, Non-profit Data

2. National Bioeconomy Pipeline Spurs US Innovation

For US Agencies, Corporate, Universities, Non-profits, etc.

Simplified and rapid access of relevant, Pipeline-unified Rx and research data spurs new medical discoveries.



3. National Bioeconomy Pipeline Improves US Healthcare

3a. US Health Care Facilities

Facilities securely integrate, correlate & validate their data with relevant Pipeline data, spurs cost effective, improved, streamlined delivery of US medical services.



Patient History
Family history
Environmental data
Cost data
Insurance data
Other data

Imaging data
Lab data
Assay data
Genetic data
Phenotypic data
Epigenetic data
Other data

3b. Real Time Point of Care



Interactive, secure Pipeline access points rapidly return relevant results for up to date, real time point of care. Patient outcomes updated, correlated with National Pipeline, continually improves US medical results.

3c. HealthCare.gov

Easy to use, interactive, .gov access point utilizes relevant, non-confidential Pipeline data, provides US consumers up to date, pertinent medical, health care and insurance provider information.



A National Bioeconomy Pipeline

A National Bioeconomy Pipeline can be used for creating new and innovative applications, from helping to accelerate and spur fundamental biomedical research, to helping calculate current national healthcare costs and formulating appropriate reimbursement strategies.

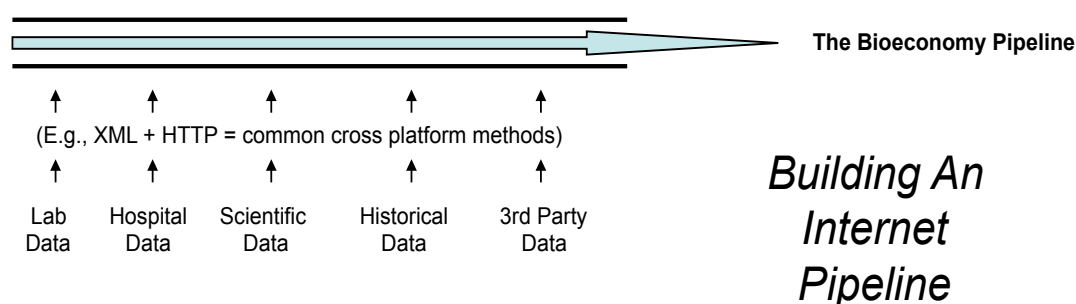
A National Bioeconomy Pipeline would be a powerful new computational approach for managing the exchange of information among various medical, healthcare and provider databases, devices, applications, etc.

The Pipeline would also maximize flexibility for addressing unexpected or new data types and healthcare events. It would also have the capability for interjecting human and creative insight into the global, real time Internet data flow.

A Pipeline is an Internet paradigm that handles vast quantities of heterogeneous data in real time, which allows seamless integration, fusion, and leverage of a multitude of point applications and captures multi-data types and events for discovery, analysis, design, deployment.

A National Bioeconomy Internet Pipeline can be defined as a data pipelining technique because it allows the exchange of information between data types without requiring them to be translated into the same format.

An Internet pipeline uses Web-based standards like XML, HTTP, HTTPS and others to build secure Web pipelines. The pipeline uses such standard techniques to non-disruptively overlay and make accessible otherwise landlocked data.



Data classification and analysis can be continuously improved by using previous results or by introducing additional related information into the pipeline.

Further, additional applications and tools can utilize and leverage the pipeline, like Google and Bing search engines, IBM's Watson natural language query system, or ExQor's cognitive systems for interjecting machine-level "self-knowledge" into the Pipeline.