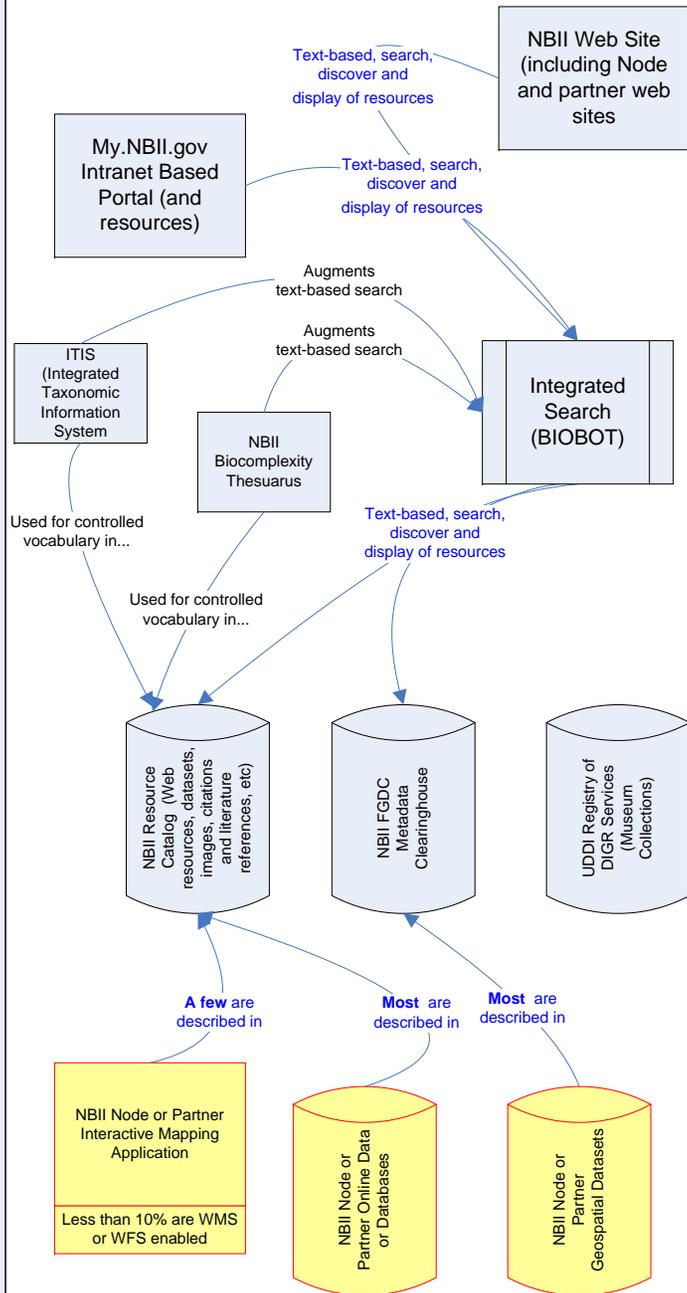
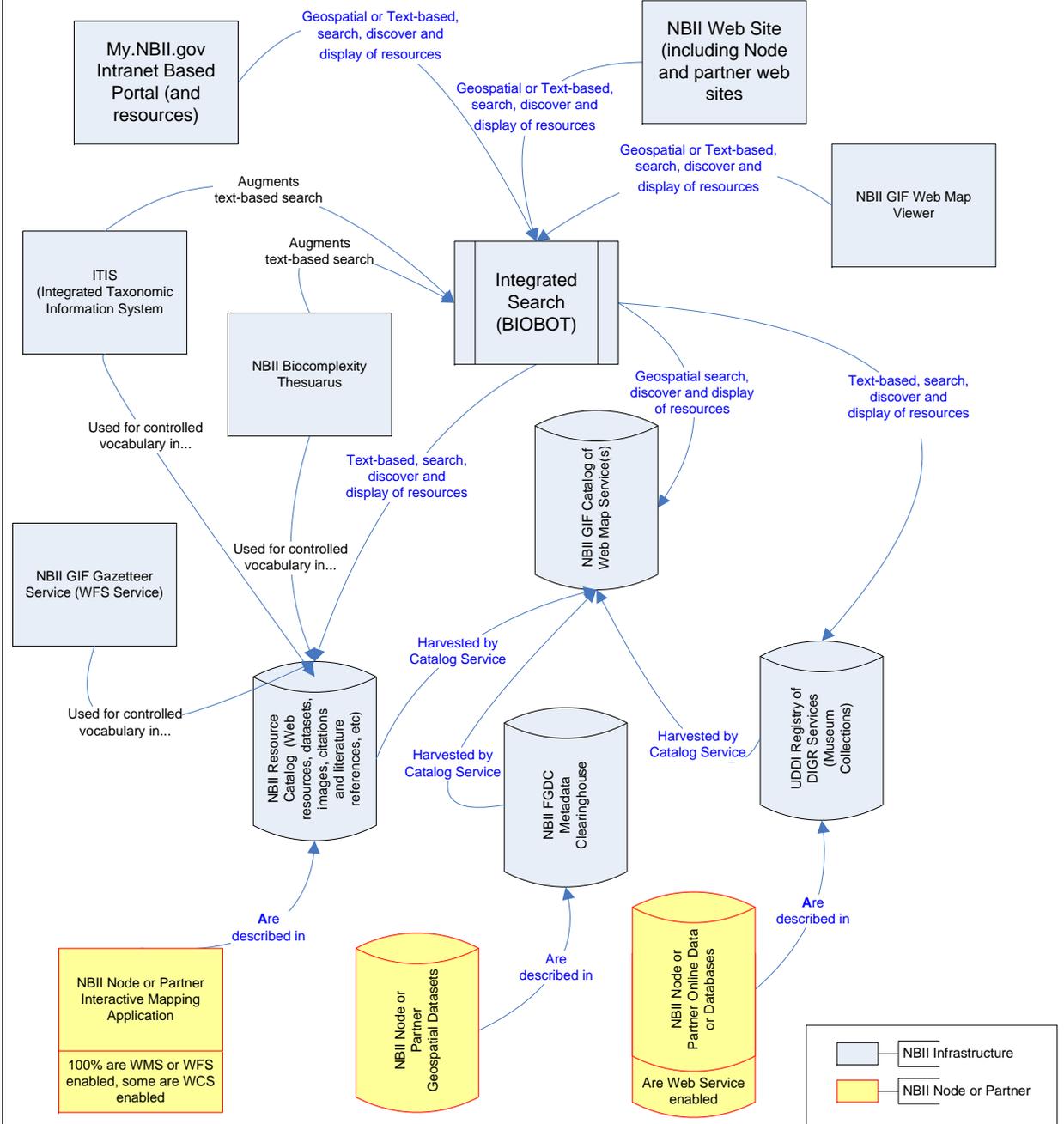


Geospatial Interoperability Framework: General Design Diagram Level 0

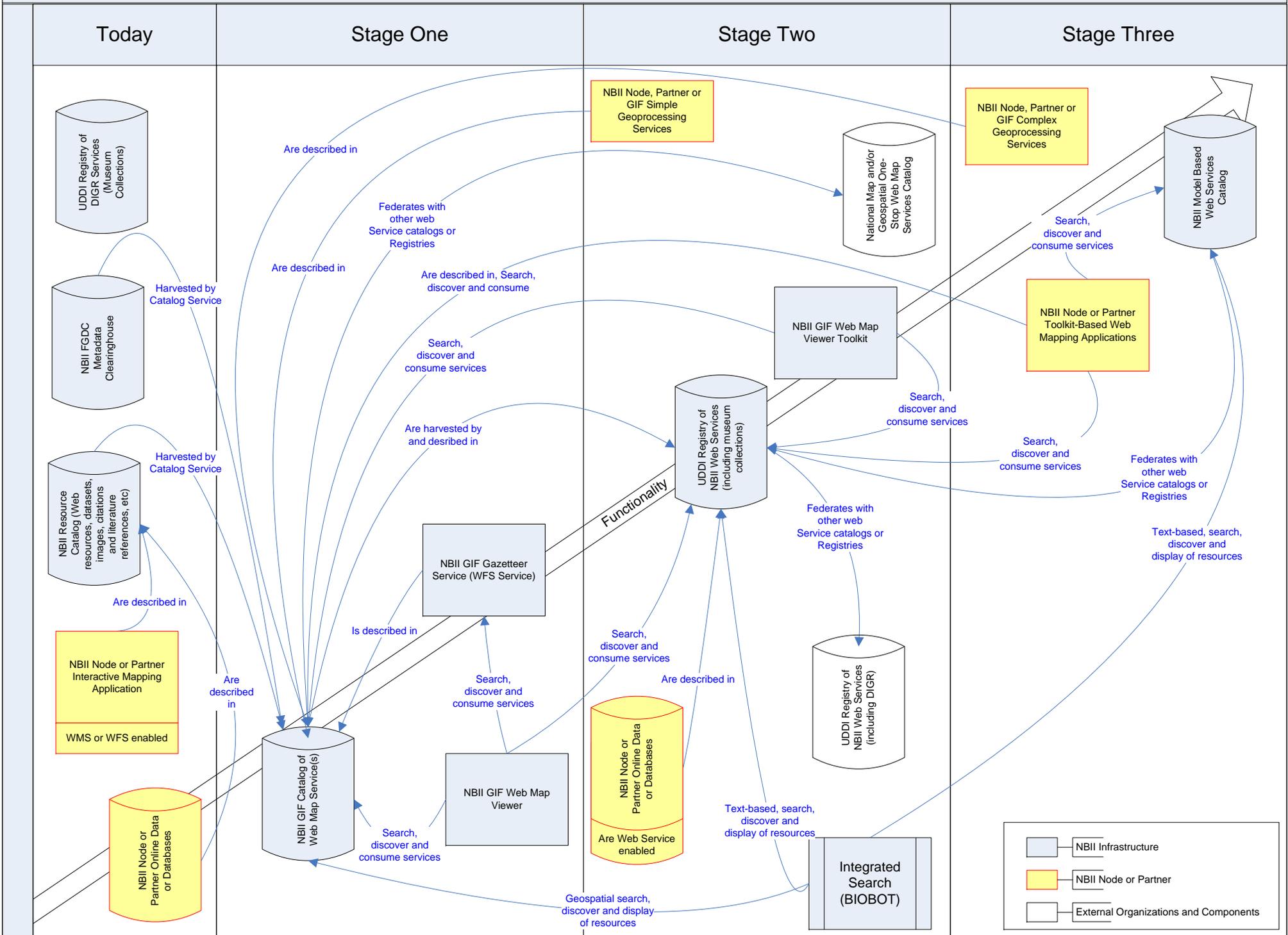
Today



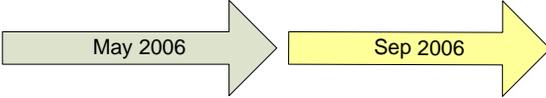
Enterprise Architecture: Vision and Goal



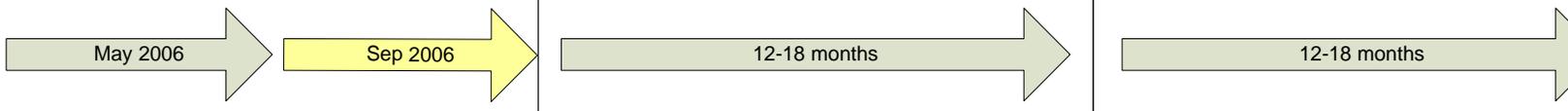
Geospatial Interoperability Framework: General Design Diagram Level 1



Geospatial Interoperability Framework General Design: Sample Use Case Describing Functionality

	Today	Stage One	Stage Two	Stage Three
	 <p>NBII GIF Web Map Viewer</p> <p>Basic Web Map Viewer that accessed a catalog of NBII Web Map Services</p>	 <p>May 2006</p> <p>Sep 2006</p> <p>Basic Components Installed by Program Office</p> <p>Nodes and Partners participating fully in the Stage One framework components</p>	 <p>12-18 months</p>	 <p>12-18 months</p>
Use Case	<p>Users can use prototype Web Map Viewer to visualize data, perform queries and generally interact with maps that are listed within the catalog of Web Map Services</p>	<p>Users can use the production version of the Web Map Viewer to discover and view NBII maps and services from the NBII Catalog of Web Map Services</p> <p>Users can now query the Gazetteer to find a place to re-center or orient the map to their area of interest</p>	<p>In addition, users can discover and view other NBII online data or databases (such as species profiles), or other types of NBII resources from within the Web Map Viewer</p> <p>Users can discover and view other maps from the Geospatial One Stop and National Map catalogs</p> <p>Users can save "Online Maps", resymbolize maps, and distribute these for collaboration purposes.</p>	<p>In addition, users search for other types of resources such as models.</p> <p>Users will be able to use the Web Map Viewer to edit or manage data that resides on a WFS, allowing collaboration on geospatial assets</p>
Nodes and Partners	<p>Nodes are responsible for developing specific, targeted applications, WMS enabling the application, and registering the application metadata within the NBII Resource Catalog</p>	<p>Nodes continue their responsibilities for developing specific, targeted applications, WMS, and/or WFS enabling the applications as appropriate, and registering the application metadata within the NBII Resource Catalog</p>	<p>Nodes continue their responsibilities for developing specific, targeted applications, WMS, WFS, and/or WCS enabling the applications as appropriate, and registering the application metadata within the NBII Resource Catalog</p> <p>In addition, Nodes are responsible for enabling online data and databases and registering these remote web services in the UDDI Registry of NBII Web Services.</p>	<p>Node responsibilities not yet determined</p>
Program Office and Infrastructure	<p>Program Office and Infrastructure Nodes are responsible for gathering requirements, determining the optimum design, and developing the Geospatial Interoperability Framework, ,</p>	<p>Program Office is responsible for installing basic components of the GIF such as the Catalog of Web Map Services, and Gazetteer Service, and the Web Map Viewer</p> <p>Program Office is responsible for harvesting the NBII Resources Catalog and populating the Catalog of Web Services on a periodic basis.</p> <p>Program Office is responsible for assisting the nodes in the process of WMS enabling their applications and registering the application metadata in the NBII Resource Catalog</p>	<p>Program Office is responsible for assisting the Nodes in enabling their applications to utilize the remote web services, and responsible for making the UDDI Registry of NBII Web Services available</p> <p>Program Office is responsible for ensuring the Catalog of Web Map Services are contained or harvested by the UDDI Web Services Registry</p> <p>Program Office is responsible for developing a GIF Web Map Viewer toolkit for use by the Nodes</p>	<p>Program Office is responsible for ensuring UDDI Registry of NBII Web Services are available</p> <p>Program Office is responsible for assisting in the use of the GIF Web Map Viewer toolkit for use by the Nodes</p>

Geospatial Interoperability Framework General Design: Sample Use Case Describing Functionality

	Today	Stage One	Stage Two	Stage Three
	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> NBII Node or Partner Interactive Mapping Application </div> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> WMS or WFS enabled </div> <p>Specific, targeted applications such as the BirdCon Breeding Bird Survey Interactive Mapping Application</p>	 <p>May 2006 → Sep 2006 → 12-18 months → 12-18 months</p> <p>Basic Components Installed by Program Office</p> <p>Nodes and Partners participating fully in the Stage One framework components</p>		
Use Case	<p>Users can use the application to visualize data, perform queries and generally interact with maps as programmed within the specific application</p>	<p>In addition, users can now discover and view other NBII maps within the BirdCon application, including a series of base maps from the USGS National Map program</p> <p>Users can now query the Gazetteer to find a place to re-center or orient the map to their area of interest</p>	<p>In addition, users can discover and view other NBII online data or databases (such as species profiles), or other types of NBII resources from within the Web Map Viewer, from within the BirdCon application</p> <p>Users can discover and view other maps from the Geospatial One Stop and National Map catalogs</p>	<p>In addition, users can simulate or model scenarios by using external services such as species distribution models, based on integrated data from distributed sources not contained within the BirdCon application.</p>
Nodes and Partners	<p>Nodes are responsible for developing the application, WMS enabling the application, and describing the application within the NBII Resource Catalog</p>	<p>Nodes are responsible for WMS enabling their applications, and registering the application metadata in the NBII Resource Catalog</p> <p>Nodes are responsible for enabling their application to utilize the Gazetteer services to assist in Map orientation within Interactive Mapping Applications</p> <p>Nodes are responsible for enabling their application to search and retrieve other maps from the NBII GIF Catalog of Web Map Services</p>	<p>Nodes are responsible for enabling their application to utilize the remote web services to as listed in the UDDI Registry of NBII Web Services. For example, the BirdCon Application can add species profile pages by using one or more web services providing species level information.</p> <p>Nodes are responsible for enabling their application to utilize the geospatial services such as simple geoprocessing services (e.g. buffering).</p> <p>Nodes can provide simple geoprocessing services</p>	<p>Nodes are responsible for enabling their application to utilize the remote web services to as listed in the Registry of NBII Model Based Web Services</p> <p>Nodes are responsible for enabling their application to utilize the geospatial services such as complex geoprocessing services</p> <p>Nodes are responsible for evaluating the use of the GIF Web Map Viewer toolkit, and subsequently developing Toolkit based applications when appropriate</p>
Program Office and Infrastructure	<p>Program Office and Infrastructure Nodes are responsible for gathering requirements, determining the optimum design, and developing the Geospatial Interoperability Framework, ,</p>	<p>Program Office is responsible for installing basic components of the GIF such as the Catalog of Web Map Services, and Gazetteer Service, and the Web Map Viewer</p> <p>Program Office is responsible for harvesting the NBII Resources Catalog and populating the Catalog of Web Services on a periodic basis.</p> <p>Program Office is responsible for assisting the nodes in the process of WMS enabling their applications and registering the application metadata in the NBII Resource Catalog</p>	<p>Program Office is responsible for assisting the Nodes in enabling their applications to utilize the remote web services, and responsible for making the UDDI Registry of NBII Web Services available</p> <p>Program Office is responsible for ensuring the Catalog of Web Map Services are contained or harvested by the UDDI Web Services Registry</p> <p>Program Office is responsible for developing a GIF Web Map Viewer toolkit for use by the Nodes</p>	<p>Program office is responsible for assisting the Nodes in enabling their application to utilize the remote web services to as listed in the Registry of NBII Model Based Web Services</p> <p>Program Office is responsible for ensuring UDDI Registry of NBII Web Services are available</p> <p>Program Office is responsible for assisting in the use of the GIF Web Map Viewer toolkit for use by the Nodes</p>

Geospatial Interoperability Framework General Design: Sample Use Case Describing Functionality

Today	Stage One	Stage Two	Stage Three
 <p data-bbox="205 285 270 427">NBII Node or Partner Online Data or Databases</p>			