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Rich Internet Application serves public health education

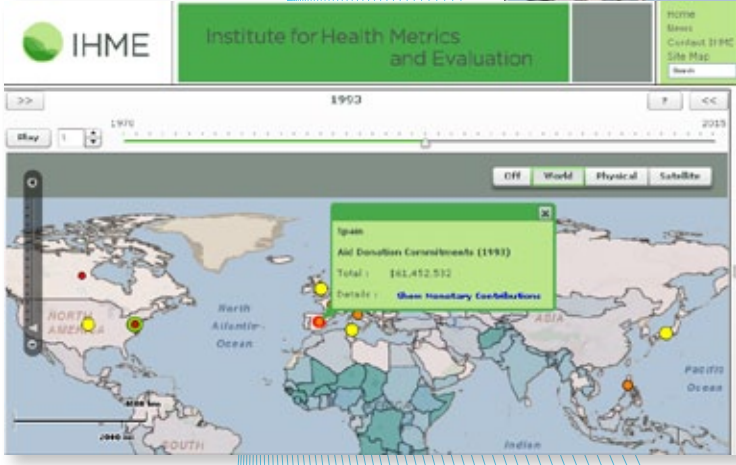
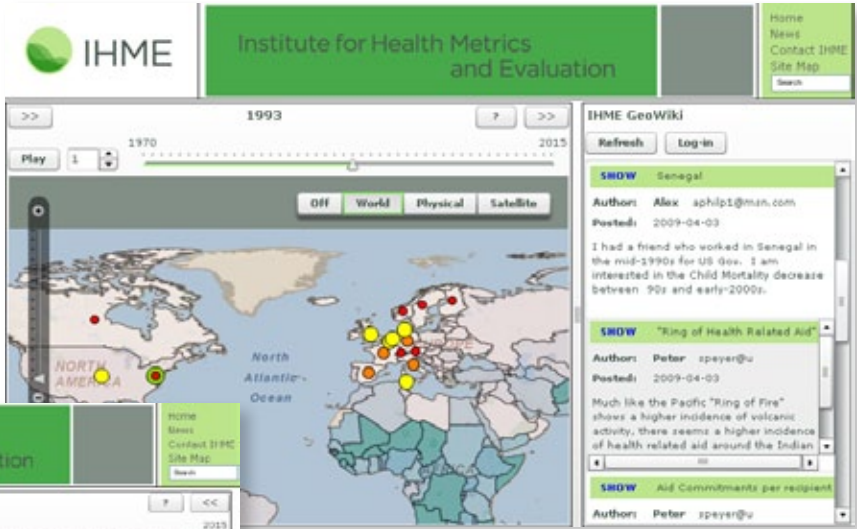
GCS Research delivers health metrics through ArcGIS Adobe Flex portal.

The Institute for Health Metrics and Evaluation contracted GCS Research to build an ArcGIS Server-Adobe Flex web site for viewing and comparing child mortality, vaccination, and international aid rates in countries across the world. Map layers display several categories of child mortality rates (e.g. neonatal, post-natal, under 5, etc.), foreign health aid received, foreign health aid given, and DTP immunizations. The site offers dynamic interaction with data over time, graphic overview displays as well as detailed data tables, and a GeoWiki for user comments.

The screenshot displays the IHME web application interface. At the top left is the IHME logo. The main header area contains the text 'Institute for Health Metrics and Evaluation' and a navigation menu with links for Home, News, Contact IHME, Site Map, and a search box. Below the header, there are three tabs: 'Health', 'Aid & GDP', and 'Country'. The 'Health' tab is selected, and a dropdown menu shows 'Child Mortality: Under Five'. A data table for the year 1993 is displayed, showing child mortality estimates and 95% confidence intervals for various countries. To the right of the table is a world map with a timeline slider set to 1993. The map shows colored dots representing data points for different countries. Below the map, there are map style options: 'Off', 'World', 'Physical', and 'Satellite'. A legend for 'Child Mortality: Under Five' and 'Aid Donation Commitments' is visible at the bottom left of the map area.

Country	Estimate	95% Confidence
Afghanistan	260.00	218.30 - 365.20
Albania	36.80	36.80 - 36.90
Algeria	60.20	59.40 - 61.90
Angola	254.00	253.90 - 254.10
Argentina	26.00	24.80 - 28.10
Armenia	45.80	45.70 - 51.70
Australia	8.10	7.70 - 8.20
Austria	8.00	7.80 - 8.10

IHME site offers timeline selection and scrolling “play” options, and three map views.



- Featured Technologies**
- ESRI ArcGIS Server 9.3
 - Adobe Flex SDK
 - ArcGIS Flex API
 - Custom ArcGIS Map Services
 - ASP.NET
 - Microsoft IIS Web Server

The site collates a great deal of data—spanning decades and covering the entire world—into one interactive, easily comparable display. Users can navigate the map by country and review the health statistics for it, or they can select by country name. The site offers both at-a-glance accessibility, with timeline controls for selecting specific years or clicking “Play” to watch the map change, and detailed collections of information for more in-depth research.

The IHME GIS tool is a Rich Internet Application that runs in the standard Adobe Flash web browser plug-in. The Flash application is built with the Adobe Flex SDK using the ArcGIS Flex API. The application is a mashup of ArcGIS Online base maps, custom ArcGIS Map Services, and a GeoWiki message board developed with ASP.NET and hosted on a Microsoft IIS Web Server.



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