



Project Newsletter

March 2013

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Project milestones:

- November 2012 - Data Warehouse System Replacement Project contract signed with Microsoft and Infusion
- November 2012 - Project kick-off at IDPH
- January 2013 - SharePoint 2013 Installation
- February 2013 – Dashboard Construction Begins

Project Update and Planning

- The SharePoint Consultant from Microsoft made an onsite visit at the end of January to complete the SharePoint configuration and installation.
- Portal construction has begun! The portal will be comprised of dashboards, an interactive data display within the Data Warehouse Replacement System. Construction of the dashboards will continue over the next few weeks.
- Data Warehouse Coordinator, Meg Harris, will be a presenter at the Iowa Governor's Conference on Public Health in April. The presentation will discuss the principles of data management in the public sector.
- To learn more about the Data Warehouse System Replacement Project and view project updates, visit our website at:

<http://www.idph.state.ia.us/dwh/Updates.aspx>

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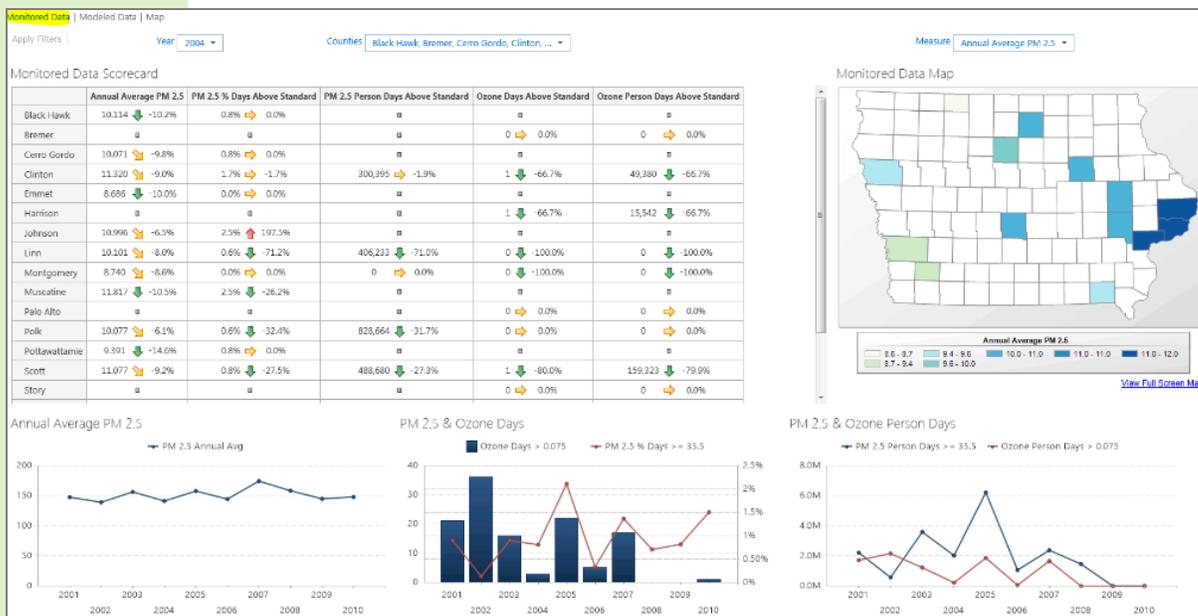
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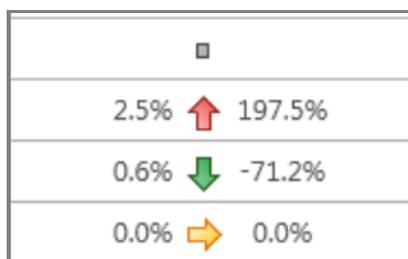
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Data Warehouse System Dashboard Design

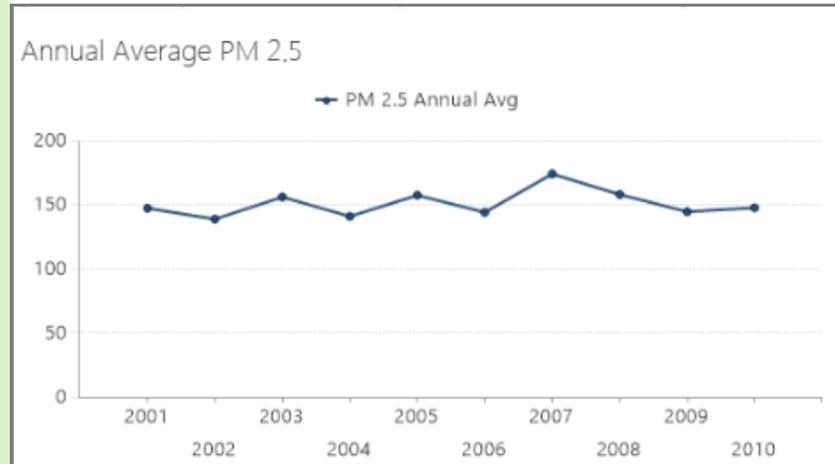
The Data Warehouse Replacement System will feature thirty dashboards. Each dashboard will consist of a scorecard, map, and multiple charts. The user may select the year(s) and county(s) to be displayed. Those filters may be selected from the dropdowns on the page.



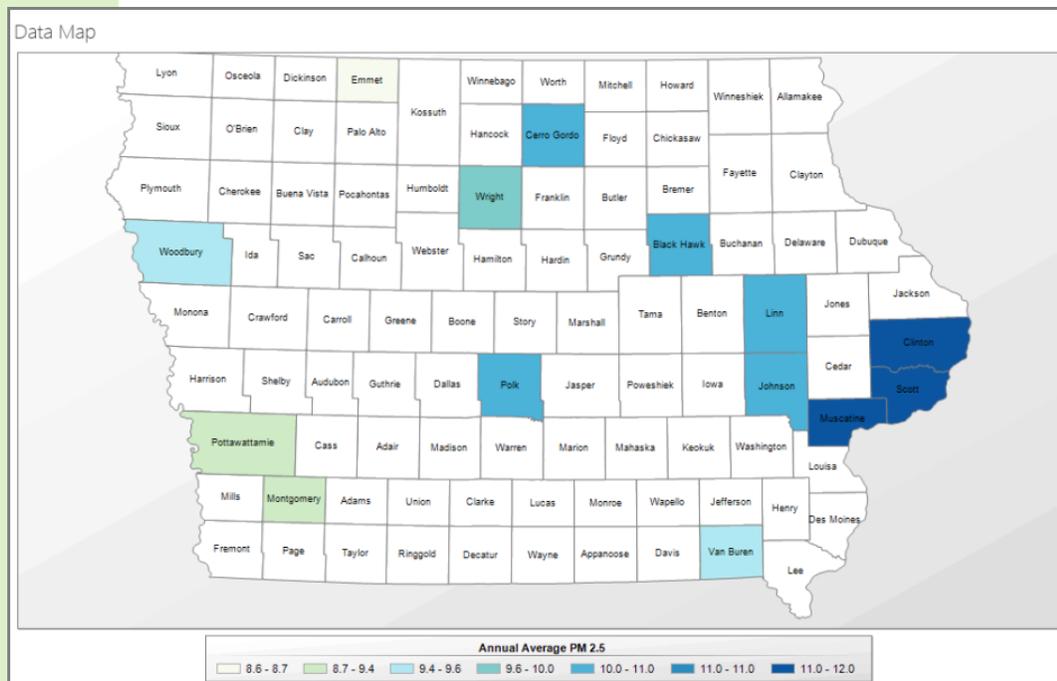
The scorecard will display multiple indicators for the selected year(s) and county(s). In addition to the indicator values, each cell will display an arrow. The arrow will indicate the direction of change in value compared to the previous year. For example, if the measure has increased, then there will be an arrow pointed upwards. If the measure has decreased, then there will be an arrow pointed downwards in the cell. The color of the up and down arrows will depend on the positivity or negativity associated with the change in indicator. The arrows will then be green or red respectively. If there was not a significant difference between the years, then there will be a yellow arrow pointed to the side. If the indicator was not collected or is too small to display for that county, then a grey box will appear within the cell.



The charts will display the data trends over the available years. The charts will be generated automatically based on the user selection of a county from the scorecard. Each of the charts are able to be exported into Excel or PDF format.



In addition to the charts, the user is able to export all of the maps into Excel or PDF format. The user may select the indicator to be displayed in the map from a filter in the dashboard. Also, there is an option to enlarge the image and view the map full screen.



Note: All images were taken from a prototype and are subject to final revision.

Principles of Public Sector Data Management

Principles of data governance are prevalent in private sector companies where data is critical to operations. Despite the criticality of data to evidence-based public health action and evaluation, appropriate management of data in the public sector has been largely absent until recently. In 2011, the Iowa Department of Public Health (IDPH) began a data governance initiative that identified weaknesses in data management and provided recommendations for improving integrity and use of data. In addition, a data warehouse system replacement project brought forth new methods for storing and accessing data. IDPH partnered with Microsoft Consulting Services, and through that partnership will develop a cutting edge platform for access to health data using SharePoint 2013. The presentation will highlight the key components of starting a data governance program in a public institution, including examples of what worked and what did not in the IDPH experience. It will also include a discussion on the options for data management solutions, the importance of intra and inter-agency integration and uses of shared resources in the ever-changing world of information technology.