

MICHIGAN STATE
UNIVERSITY

Beta Presentation

Global Water Dashboard

[The Capstone Experience](#)

Team Dow

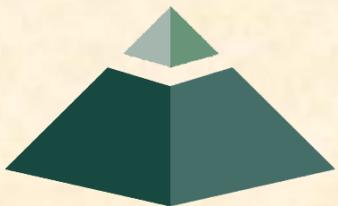
Tony Curley

Nate Henry

James Solomon

Department of Computer Science and Engineering
Michigan State University

Spring 2012



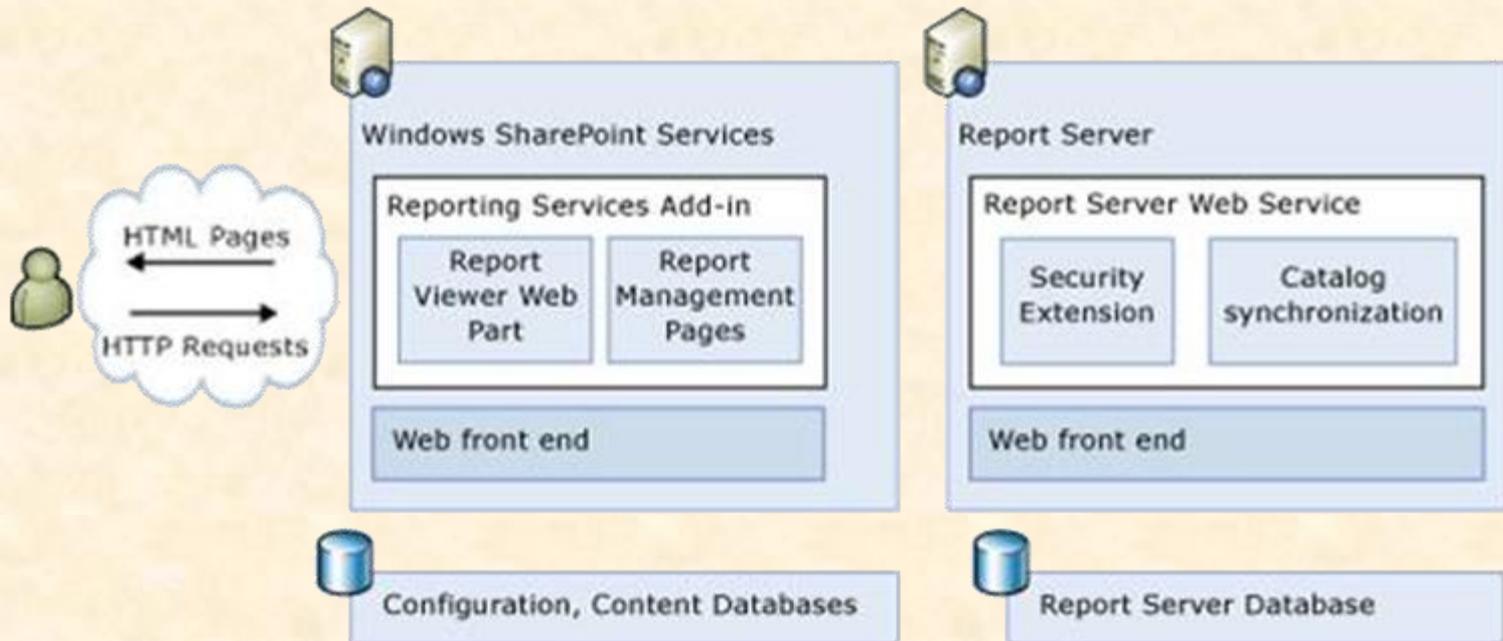
*From Students...
...to Professionals*

Project Overview

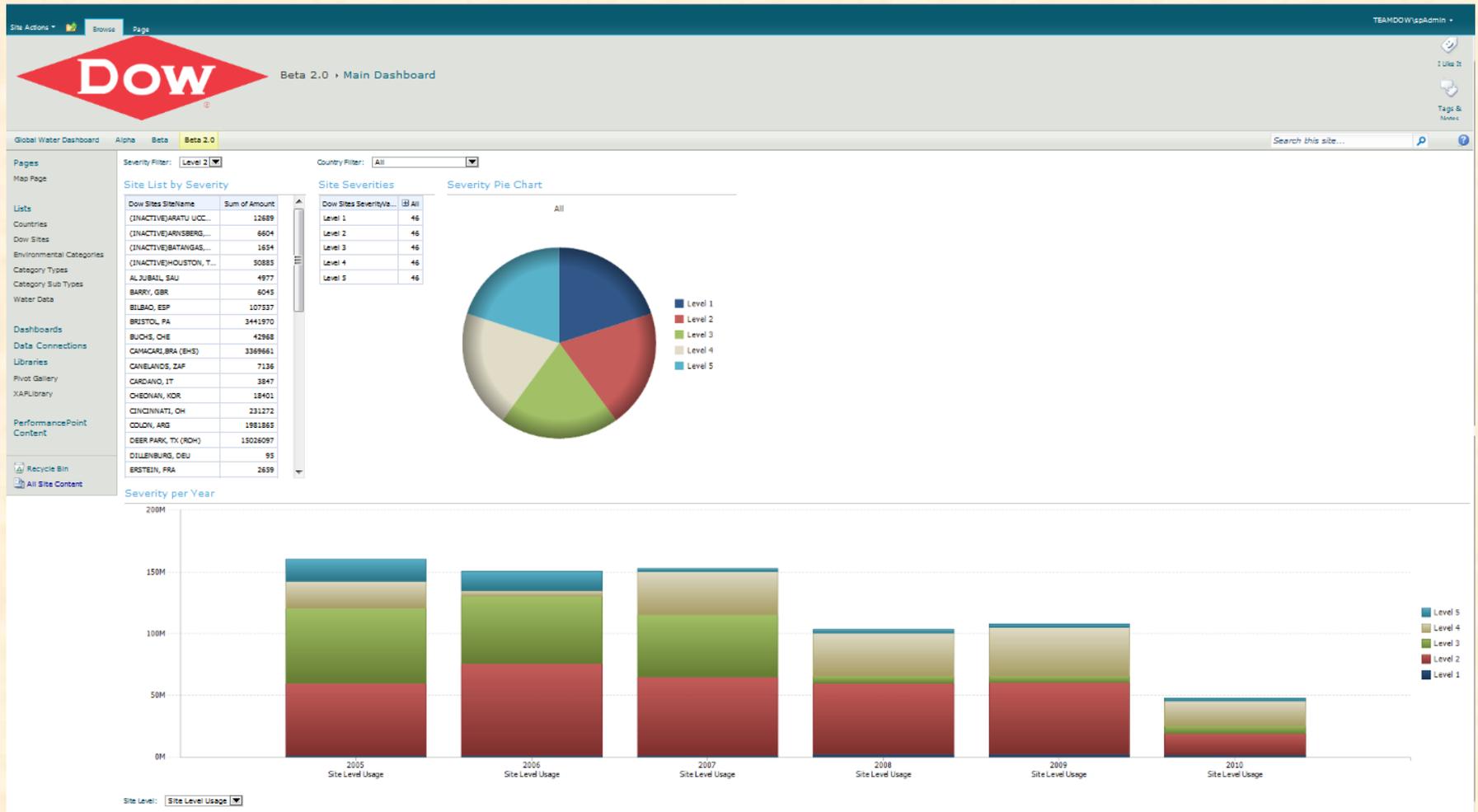
- Reusable SharePoint WebParts
- Visual display of Dow Plant emissions data
- Integrated map displaying filtered plant sites
- Dynamic SSRS analytical data



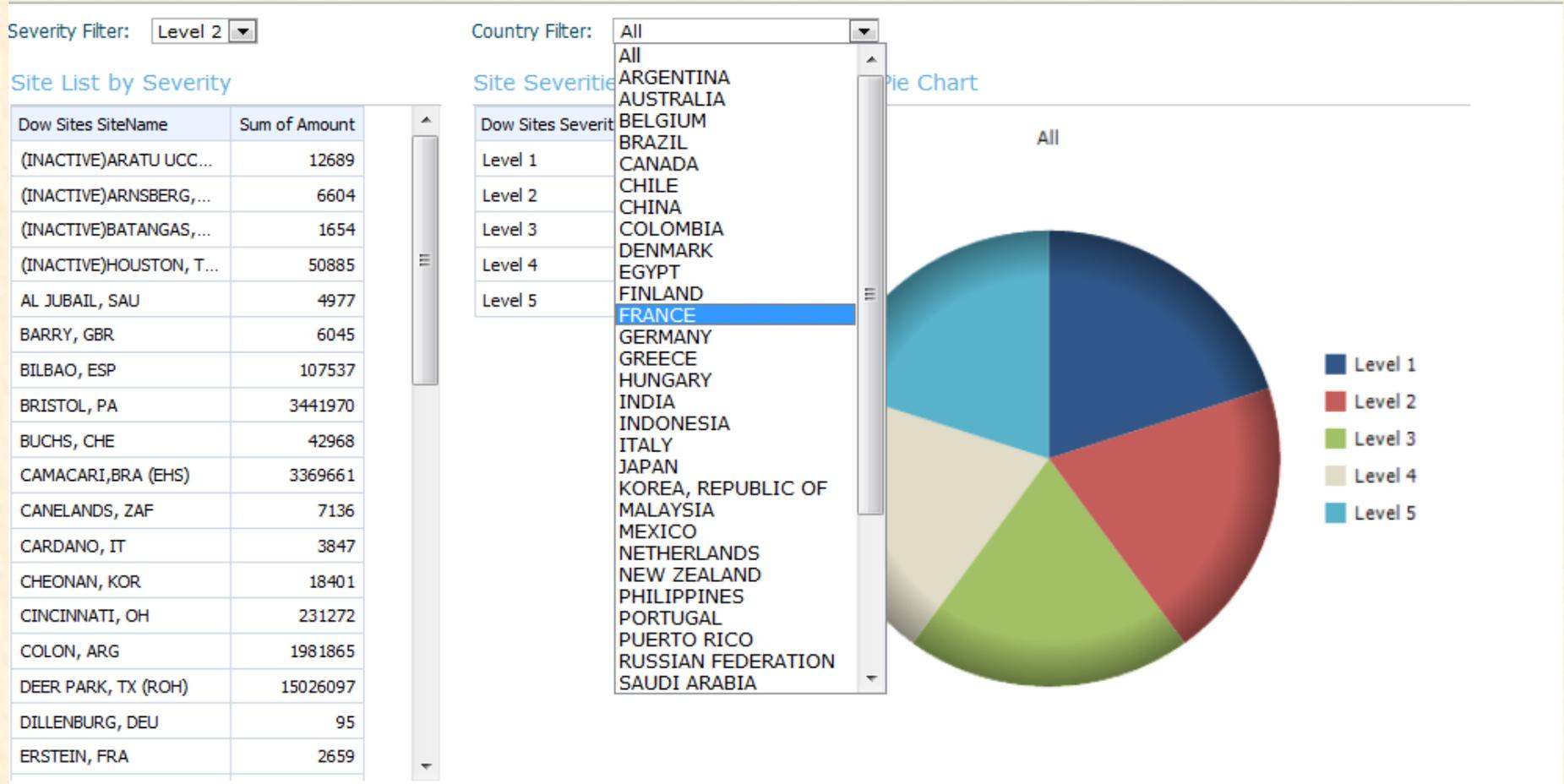
System Architecture



Main Dashboard



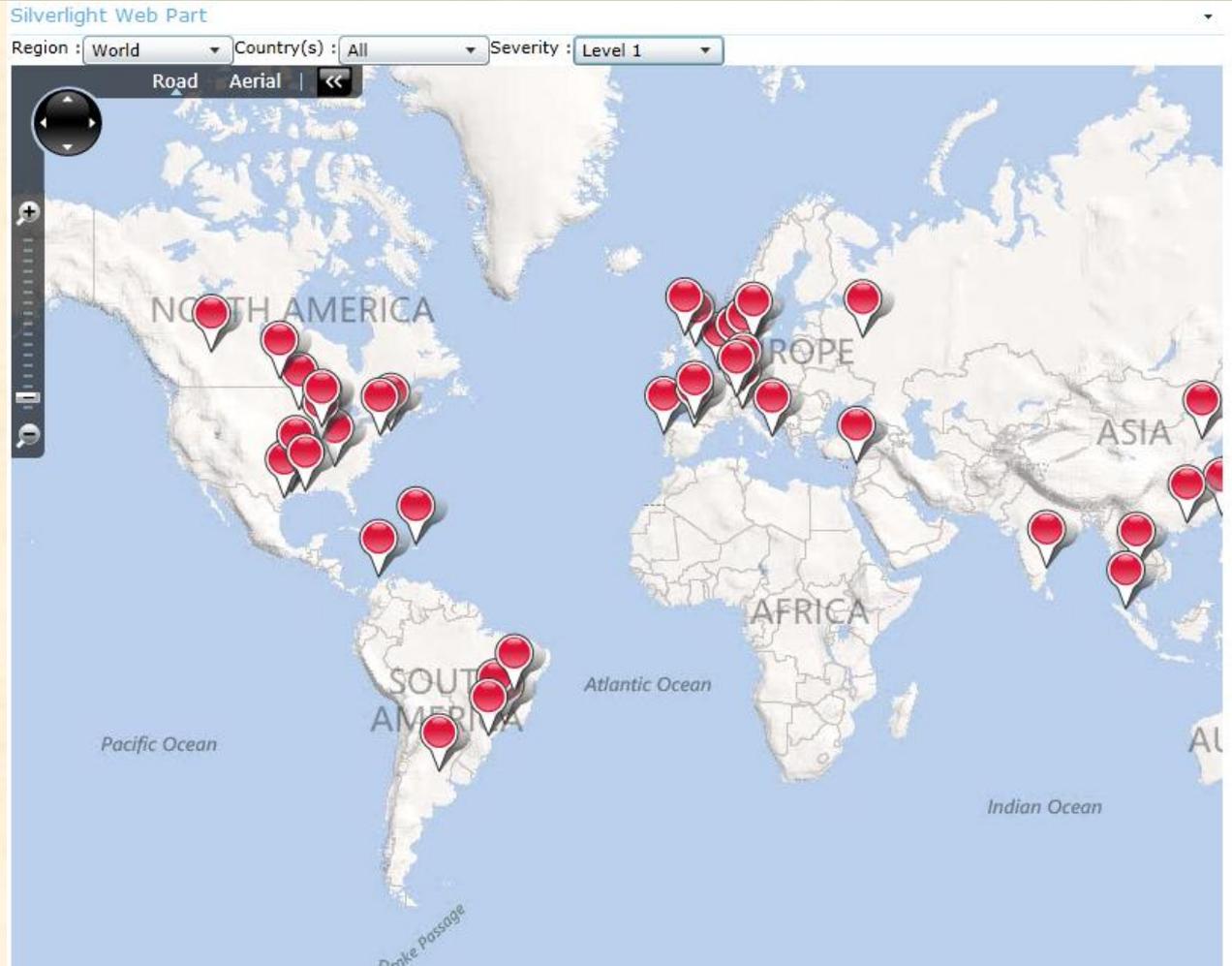
Main Dashboard



Map



Map



Map

Silverlight Web Part

Region : World Country(s) : All Severity : Level 1

Road Aerial

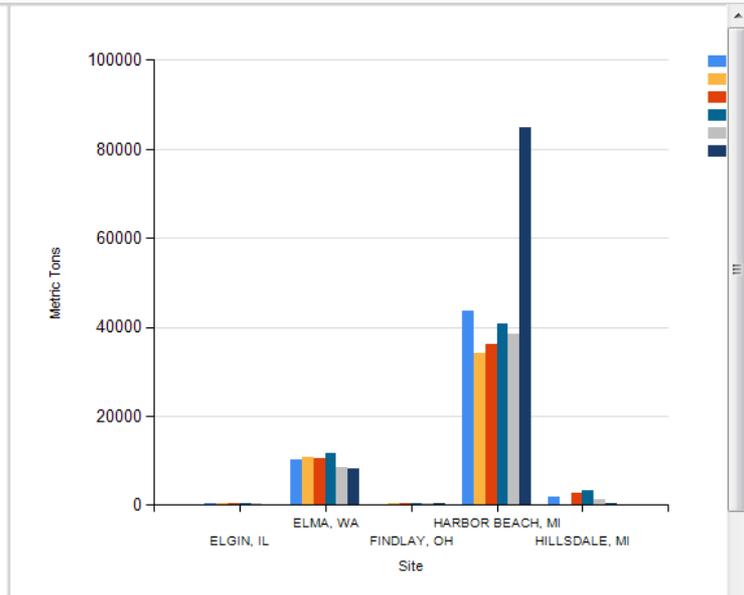
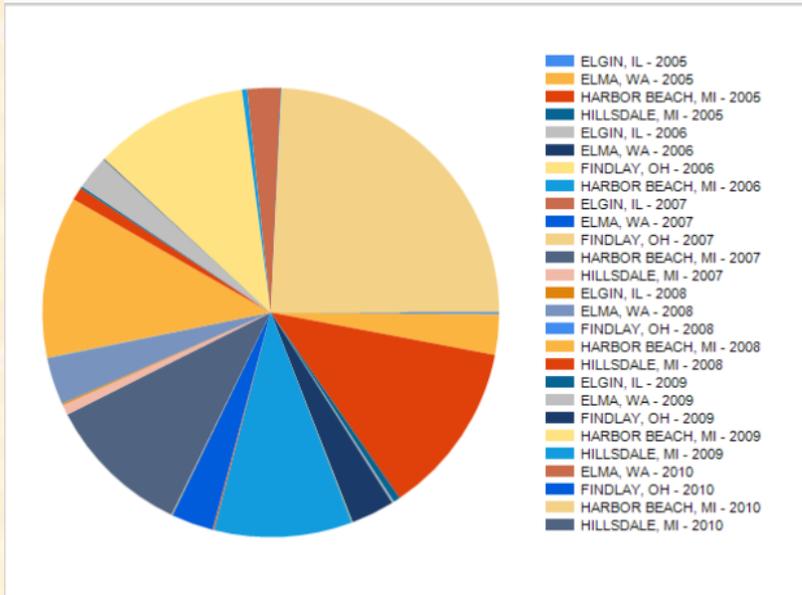
(INACTIVE) BERLIN, ZAF
<http://www.dow.com/>
Matt Murdock 1-800-369-0308
0308 Dow StreetSOUTH AFRICA
Severity Index: Level 1
Basin 50

Add Site Generate Report Close

Map labels: MISS., ALA., GEORGIA, S.C., FLA., NORTH CAROLINA, VIRGINIA, KENTUCKY, TENNESSEE, MISSOURI, THE BAHAMAS, Nassau, Havana, CUBA, Caribbean Sea, Port-au-Prince, JAMAICA, HAITI, DOMINICAN REPUBLIC, GUYANA, Paramaribo, Georgetown, SURINAME, French Guiana (F.R.), Bogota, D.C., COLOMBIA, Quito, ECUADOR, AMAZONAS, PARÁ, PERU, Lima, BRAZIL, CAPE VERDE, Tegucigalpa, Managua, San José, COSTA RICA, PANAMA, PANAMA CITY, GUATEMALA, HONDURAS, EL SALVADOR, NICARAGUA, BELIZE.



Reports



Parameters

Sharepoint List Data Source
http://dow-srv/Beta2

Site Name
ELGIN, IL, ELMA, WA, FINDLAY

Environmental Category Lookup
Water

Start Year
2005

Category Type Lookup
Site Level Intake

End Year
2010

Category Sub-Type Lookup
Purchased Water, Site Level Rec

Apply



Site Lookup Site Name	Environmental Category Lookup	Category Type Lookup	Category Sub Type Lookup	Year	Amount	En Ca Lo of I
ELGIN, IL	Water	Site Level Intake	Purchased Water	2005	459	ME TO
ELGIN, IL	Water	Site Level Intake	Purchased Water	2006	447	ME TO
ELGIN, IL	Water	Site Level Intake	Purchased Water	2007	447	ME TO
ELGIN, IL	Water	Site Level Intake	Purchased Water	2008	432	ME TO
ELGIN, IL	Water	Site Level Intake	Purchased Water	2009	528	ME TO
ELMA, WA	Water	Site Level Intake	Purchased Water	2005	10173	ME TO



What's left to do?

- Extensive Testing
- Site Templates
- Improve UI
- Documentation

