The Power of GeoAnalysis in Response to a Crisis



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What is GeoAnalysis?

MRS (www.geodemographics.org.uk) says "GeoAnalysis is the analysis of data, e.g. demographic or customer data, by geographical area or other form of spatial referencing."

(This definition is very similar to definitions from other sources and I think it is probably one of the most succinct.)

The world's leading research association

Matters"

For the purpose of our topic, we would be analyzing data regarding where people work, where they live, and also the locations of facilities and other key assets to determine if they may have been impacted during a regional disaster.

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Why would we want to do GeoAnalysis?

To know which of our employees may have been impacted at work by a regional crisis.

To know which of our employees may have been impacted at home by a regional crisis.

To know which of our facilities and other assets may have been impacted by a regional crisis.

To strategize our alternatives in response to a regional crisis.

To project *in advance* what the impacts could be in various regional crisis situations to enhance our preparedness planning.

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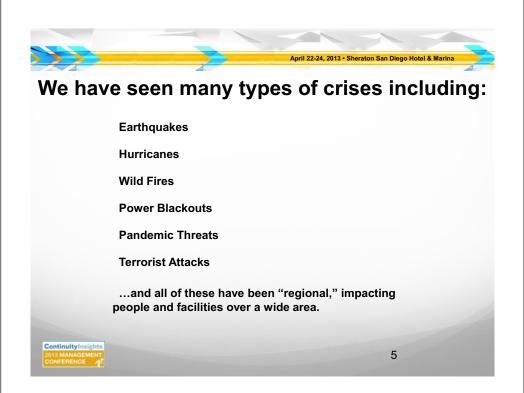
Conceptual GeoAnalysis *logic* that you can immediately apply toward the benefit of your own organizations.

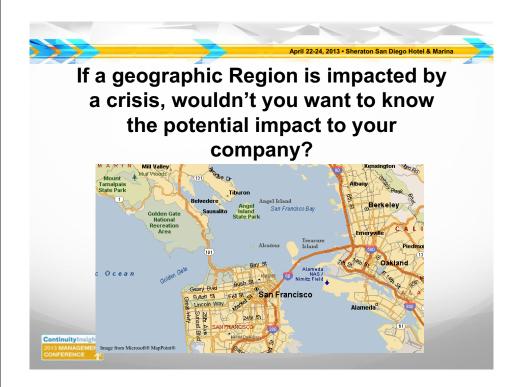
GeoAnalysis *methodology* that you can immediately apply toward the benefit of your own organizations.

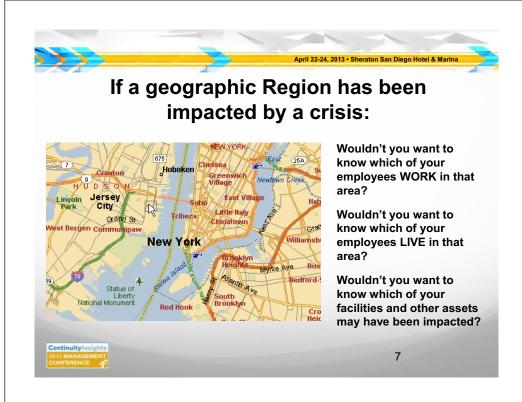
Tools that you can use, at virtually no cost, to use GeoAnalysis for disaster preparedness and response.

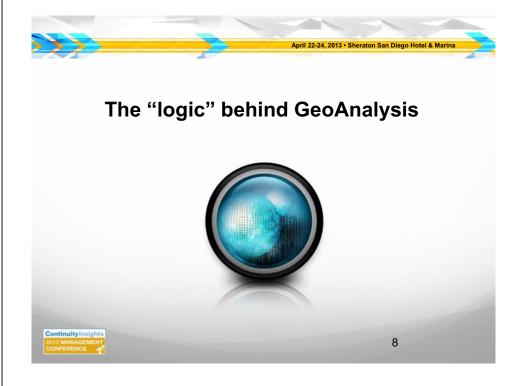
We will be covering those "tools" and you will receive a CD that contains usable samples of them at the end of this session.

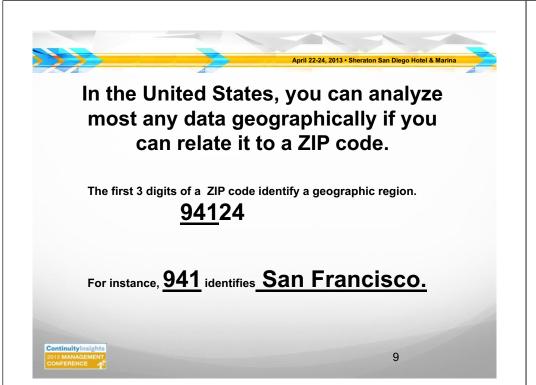


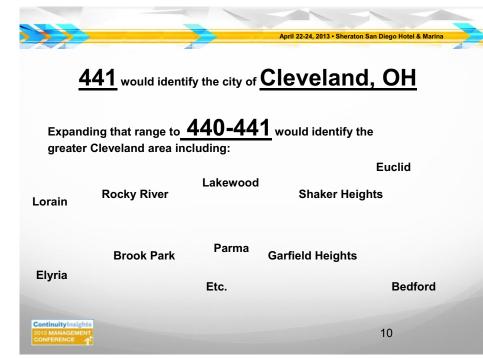


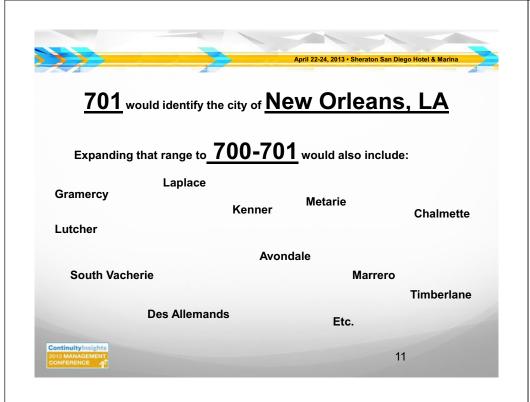


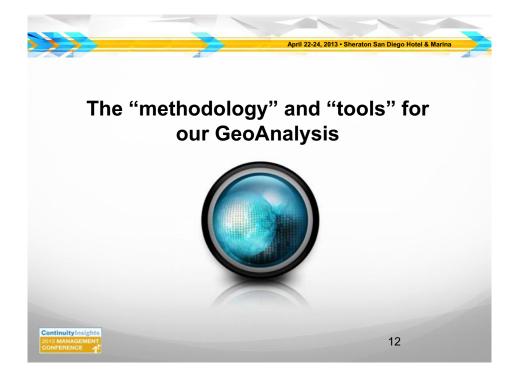












How do we learn which ZIP codes identify specific geographic areas?

There are ZIP code books and maps available that show which ZIP code 3-number prefixes fall into which geographic areas.

Many local phone books contain ZIP code location information, and some will even break down ZIP codes into more granular areas, like districts within a city.

ZIP code information is available from many web sites, often at no cost.

You may already have much of the information you need. For instance, you *know* where your employees and facilities are located and you *know* their ZIP codes.

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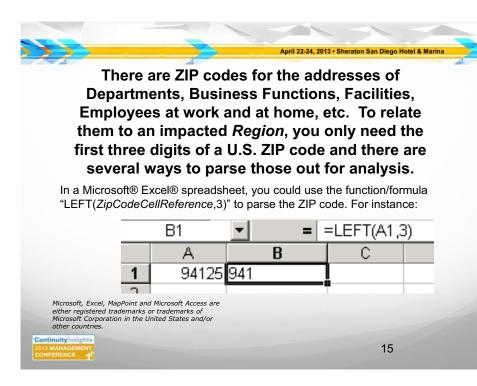
Business people generally relate well to the logic and methodology within a spreadsheet so I will start with that.

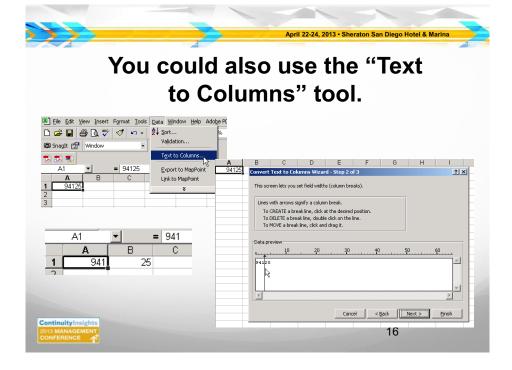
Then I will show you a better way®

Don't get too hung up on the technical details....

There is documentation and there are also samples on the CD you will get at the end of the session.

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In either case, you would end up with something like this.

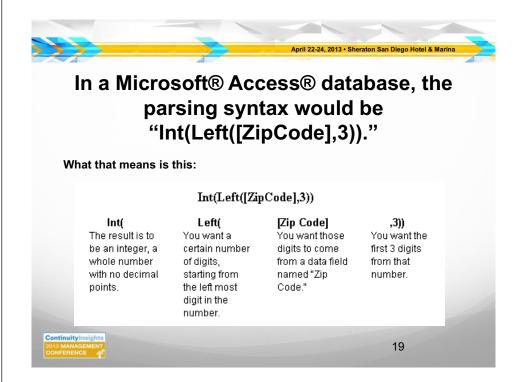
	C2	▼	= = LEFT(B2	2,3)
	Α	В	С	
1	Facility	Zip Code		
2	Facility 1	10022	100	Į.
3	Facility 2	90701	907	
4	Facility 3	92129	921	
5	Facility 4	92660	926	
6	Facility 5	92840	928	
7	Facility 6	93711	937	
8	Facility 7	94103	941	
9	Facility 8	94621	946	

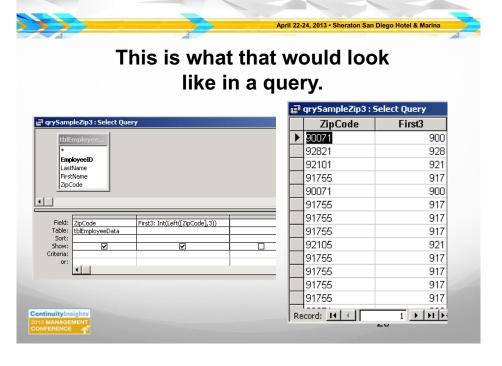
So, let me move on to a "better way" to do this; a database.

Again, don't get too hung up on the technical details....

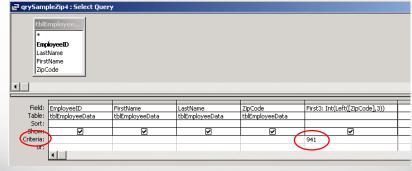
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Let's say that we have a file that includes employee data with the ZIP codes of employees at work and/or at home.



Note that we have specified that we only want to see employees with ZIP codes that have a 941 prefix.

The state of the process.

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We might end up with a list of employees in San Francisco that looks something like this:

ID	First Name	Last Name	Zip Code	First 3
014	Susan	Mario	94129	941
001	Tom	Jones	94123	941
005	Rowena	Alijandro	94118	941
009	Jeremy	Smith	94123	941
012	Linda	Ortegos	94122	941
018	Robin	Warrens	94131	941
002	Henry	Wong	94123	941
007	Arthur	lagos	94110	941
008	Henry	Wu	94110	941
011	Frank	Renaud	94123	941
015	Rosalyn	Kendle	94112	941
016	Yodanda	Green	94134	941
017	Arthur	Yee	94123	941
003	Alicia	Ferrer	94118	941
013	Brian	Fredericks	94112	941
010	John	Derere	94123	941
004	James	Porter	94129	941
006	Loretta	Brown	94118	941

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But what if we only want to focus on employees in the San Francisco Marina District?

(Which was more heavily impacted than other areas of San Francisco by the 1989 Loma Prieta Earthquake.)

Then we could filter on all 5 digits of the ZIP code because 94123 is the ZIP code for the Marina District.

ID	First Name	Last Name	Zip Code	First 3
001	Tom	Jones	94123	941
009	Jeremy	Smith	94123	941
002	Henry	Wong	94123	941
011	Frank	Renaud	94123	941
017	Arthur	Yee	94123	941
010	John	Derere	94123	941

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Think that your Human Resources Department might hesitate to give you employee addresses because of privacy concerns?

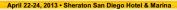
Stress that you don't want the employees' street addresses. <u>You only</u> want their ZIP codes.

For that matter, if you are only planning to do your analysis based on broad geographic REGIONS, <u>you only need the first three digits of their ZIP codes.</u>

HR still won't budge? Think that there is no way you'll be able to do a geographic analysis?

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How about using phone numbers?!?

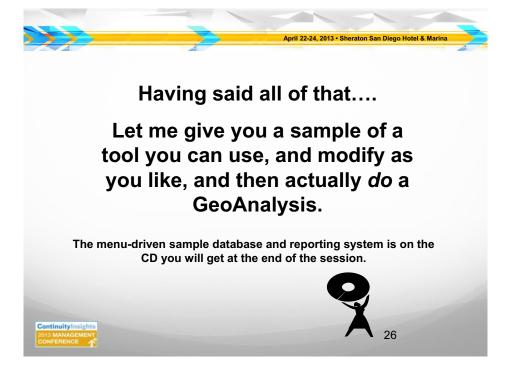
"415" is the area code for San Francisco and you could probably "drill down" to a smaller area by using the 3-digit phone number prefix (e.g., "330") as well. (415) 330-XXXX.

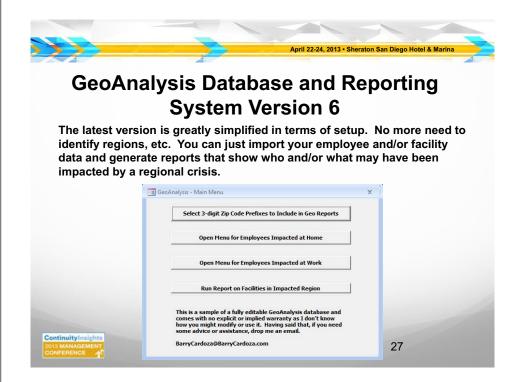
At the very least, you probably already have employee work phone numbers available to you.

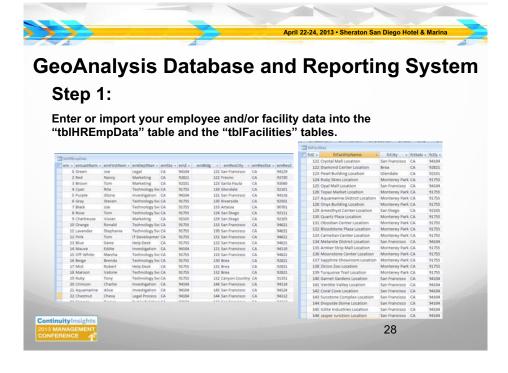
I still think that ZIP codes are the best way to go, because phone numbers will change more frequently than ZIP codes, but there is usually more than one way to meet a goal!

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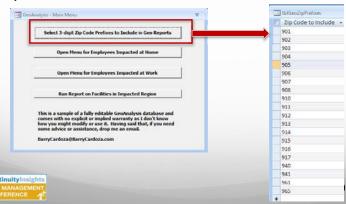


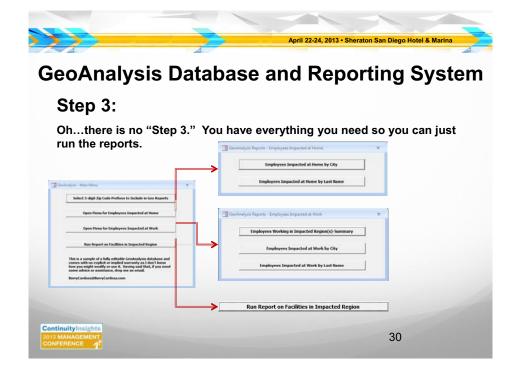


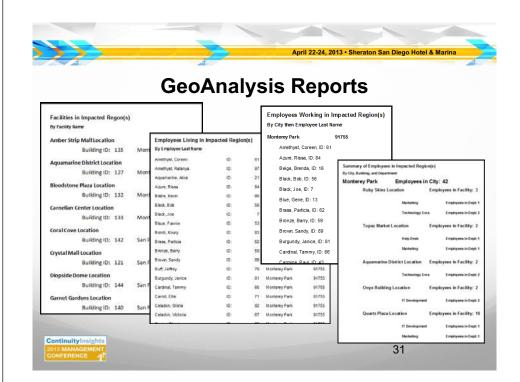


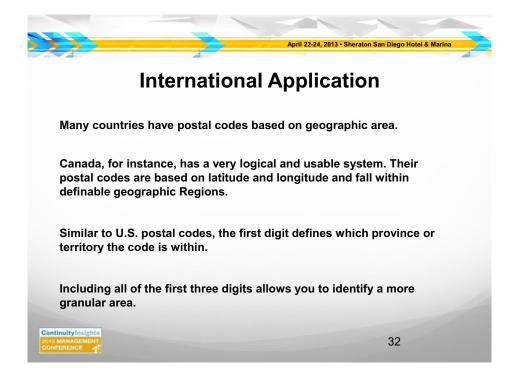
GeoAnalysis Database and Reporting System Step 2:

During a regional crisis, enter the 3-digit Zip Code prefixes for the impacted areas.











Canadian Example

