Data without Limits

Dr. Werner Vogels CTO, Amazon.com



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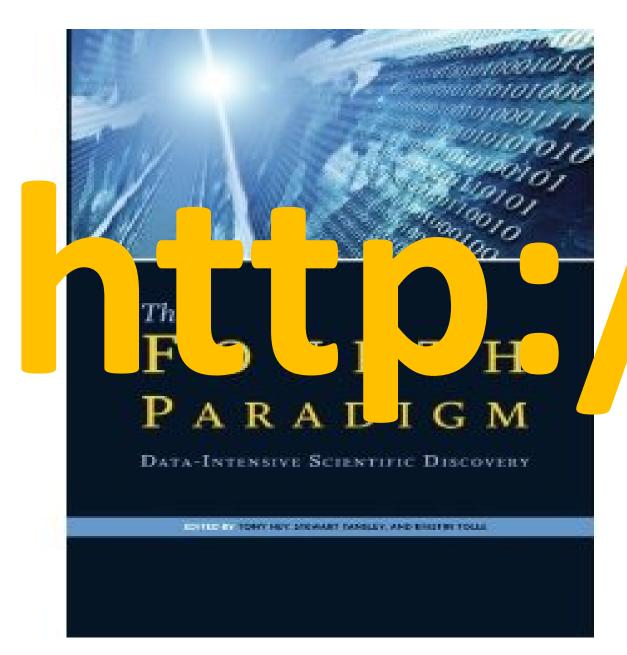


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3 Velocity



The collection and analysis of large amounts of data to create a competitive advantage



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by Microsoft (Oct 22, 2009) Platform: Windows 7

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BIG-DATA REQUIRES



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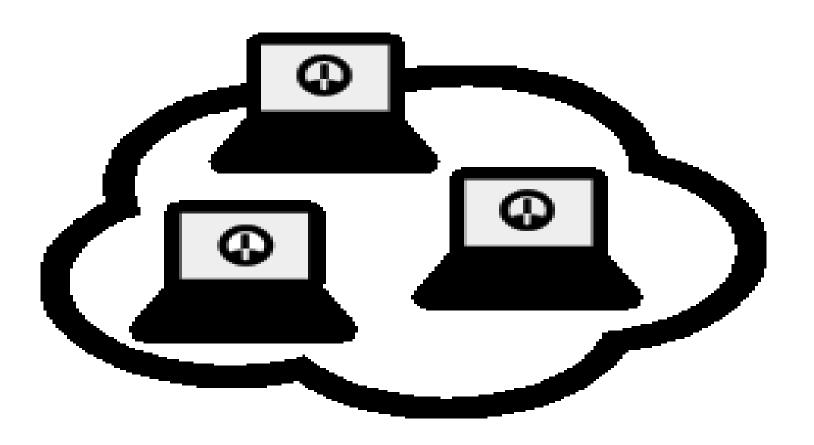


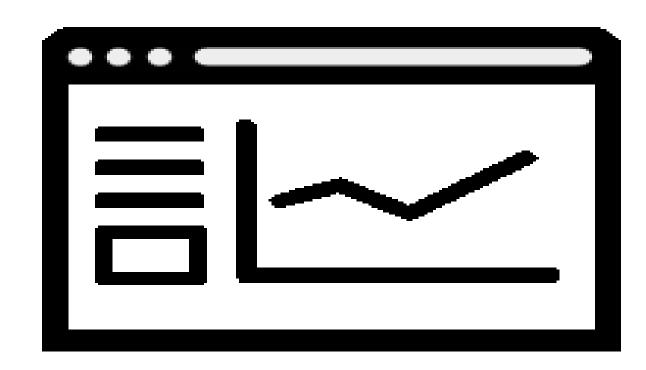
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Wakapa







Step 1: Tracking

We've created a unique tracking application. It keeps track of all website visited, software used, and/or ads seen.

Step 2: Panel

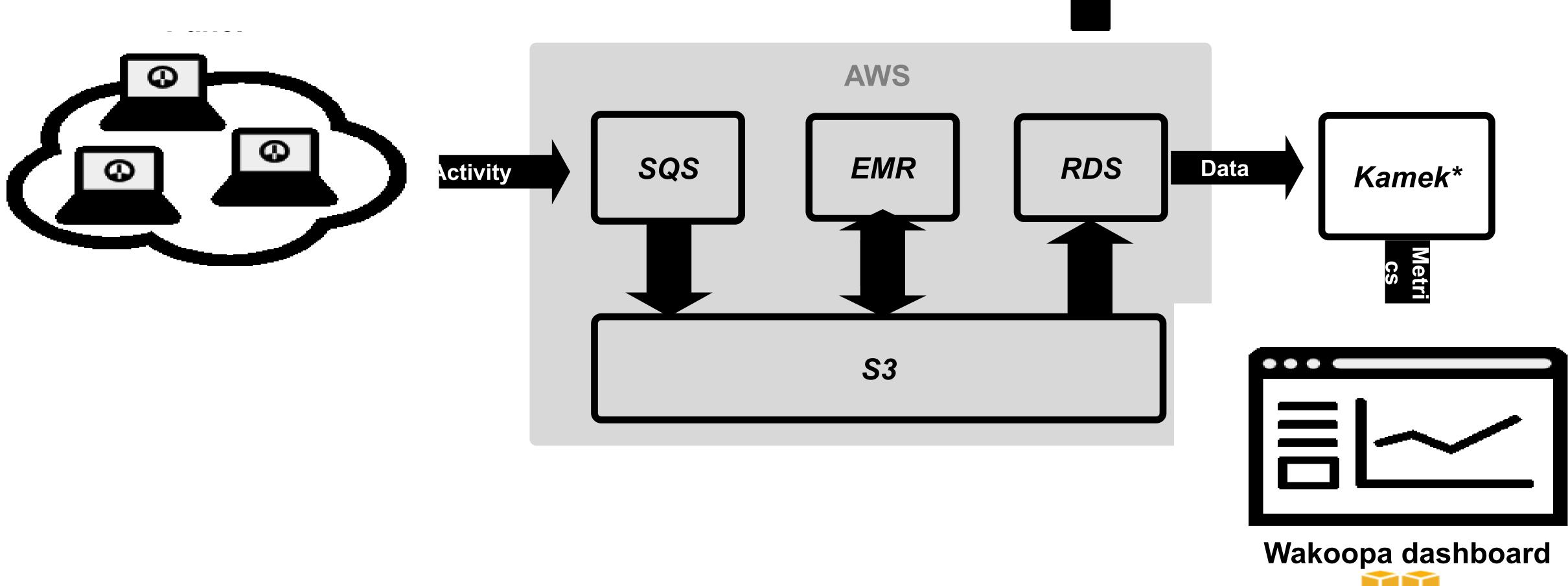
We invite members of a research panel to install it. We know not only their digital habits, but also their offline demographics and behavior.

Step 3: Dashboard

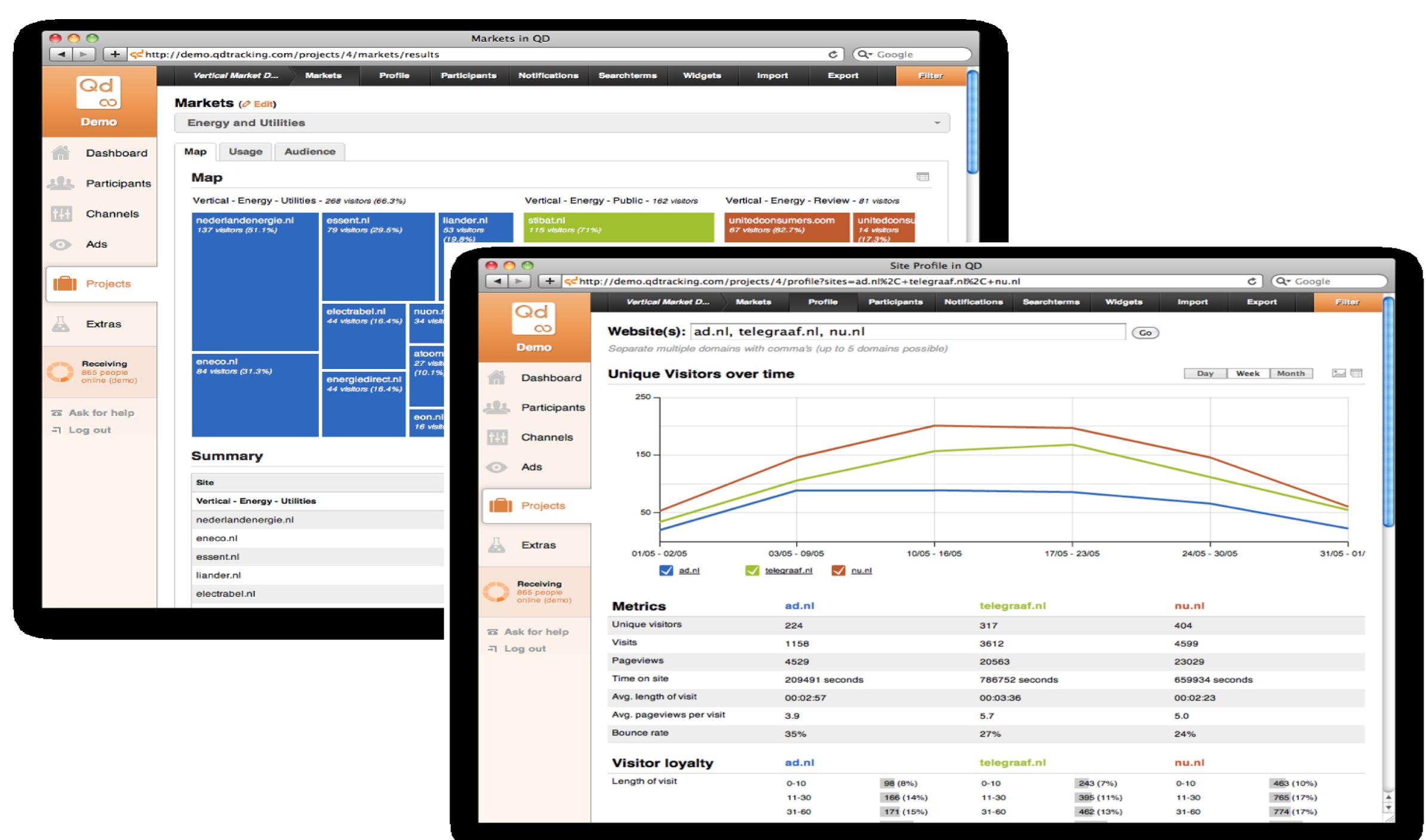
Usage data now begins to pour into the Wakoopa dashboard in real-time. Log in, and create beautiful visualizations and useful reports.



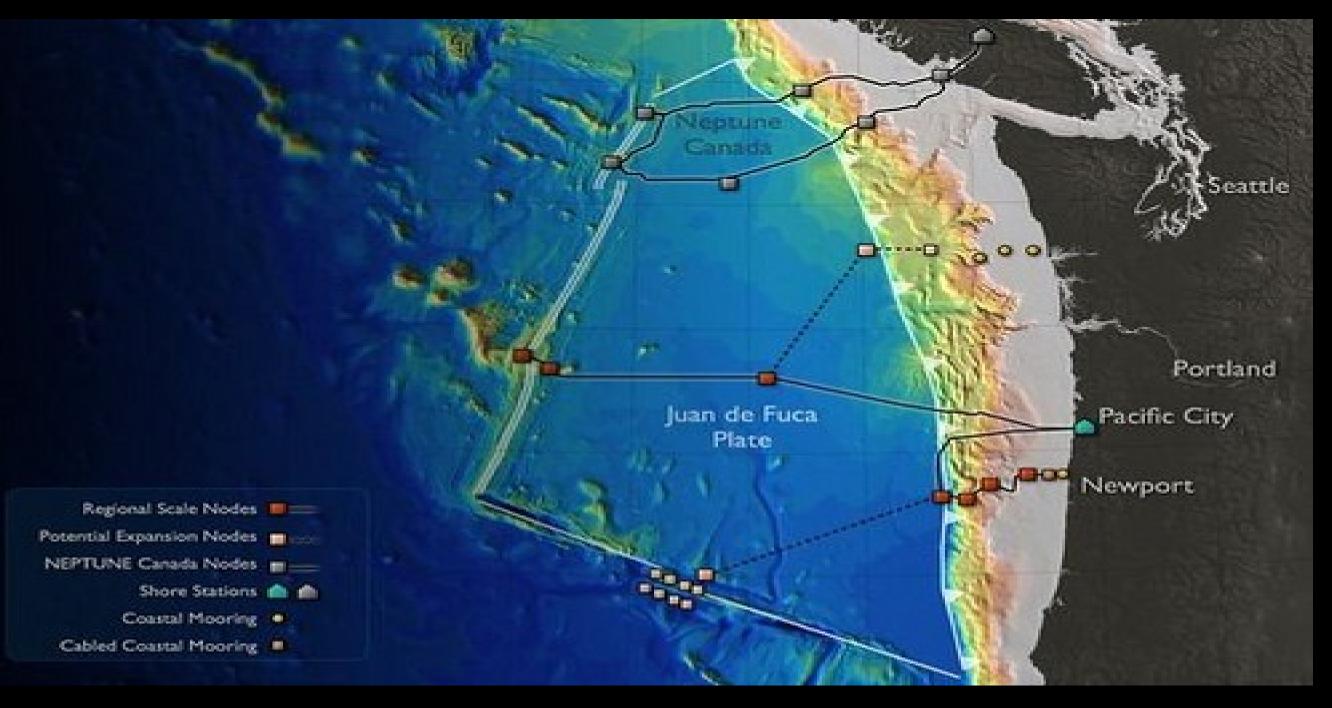
Wakaapa

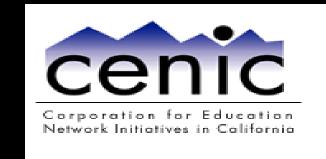


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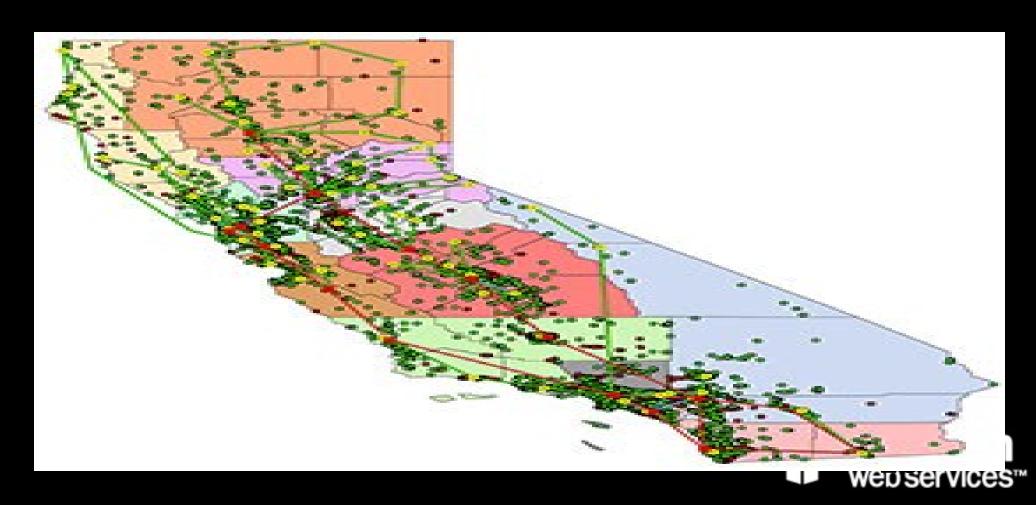












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razorfish



Storage Muck



4Q11 HDD shortage to reach 19 million units

4Q11 HDD shipments and supply gap estimate

m units

Short age, 19
Seagate2, 48

WD, 30

HGST, 17
Toshiba, 15
Samsung, 10

140 million HDD demand
140 million +HDD inventory

120 million HDD capacity

Supply volume includes inventory from 3Q11

HDD makers already started reducing shipments to clients in early October

Supply volume to retail clients has already been affect in late October

HDD price already rose close to 50%

э Source: DIGITIMES Research, October 2011

DIGITIMES







Database Muck



Amazon DynamoDB



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DATA QUALITY CONTROL

- Control Data
- Correct Data
- Validate Data
- Enrich Data



- —A large provider of business listings (over 20MM in the US) needs to determine where each data element belongs and if it is valid.
- -1 MM new pieces of data are reviewed a day.



Data Engine Processing

- 2 exception cases:
 - Conflicting information
 - New information that requires validation

Exceptions are sent to Mechanical Turk

- Workers validate new information through Web and Phone research
- Workers remove duplicates

New Data is published

 Data can be pushed out to the website for monetization.



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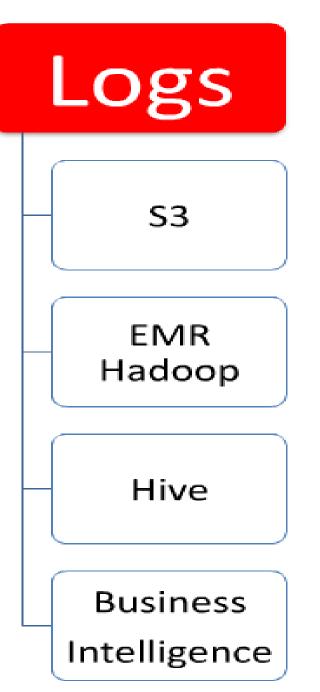
Computational Muck



AMAZON ELASTIC MAPREDUCE



Hadoop - Elastic Map-Reduce (2009)



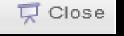
- Web Access Logs
- Streaming Service Logs
- Terabyte per day scale
- Easy Hadoop via Amazon EMR
- Hive SQL "Data Mart"
- Gateway to Datacenter BI

Slideshare.net talks evamtse "Netflix: Hive User Group" http://slidesha.re/aqJLAC adrianco "Crunch Your Data In The Cloud" http://slidesha.re/dx4oCK



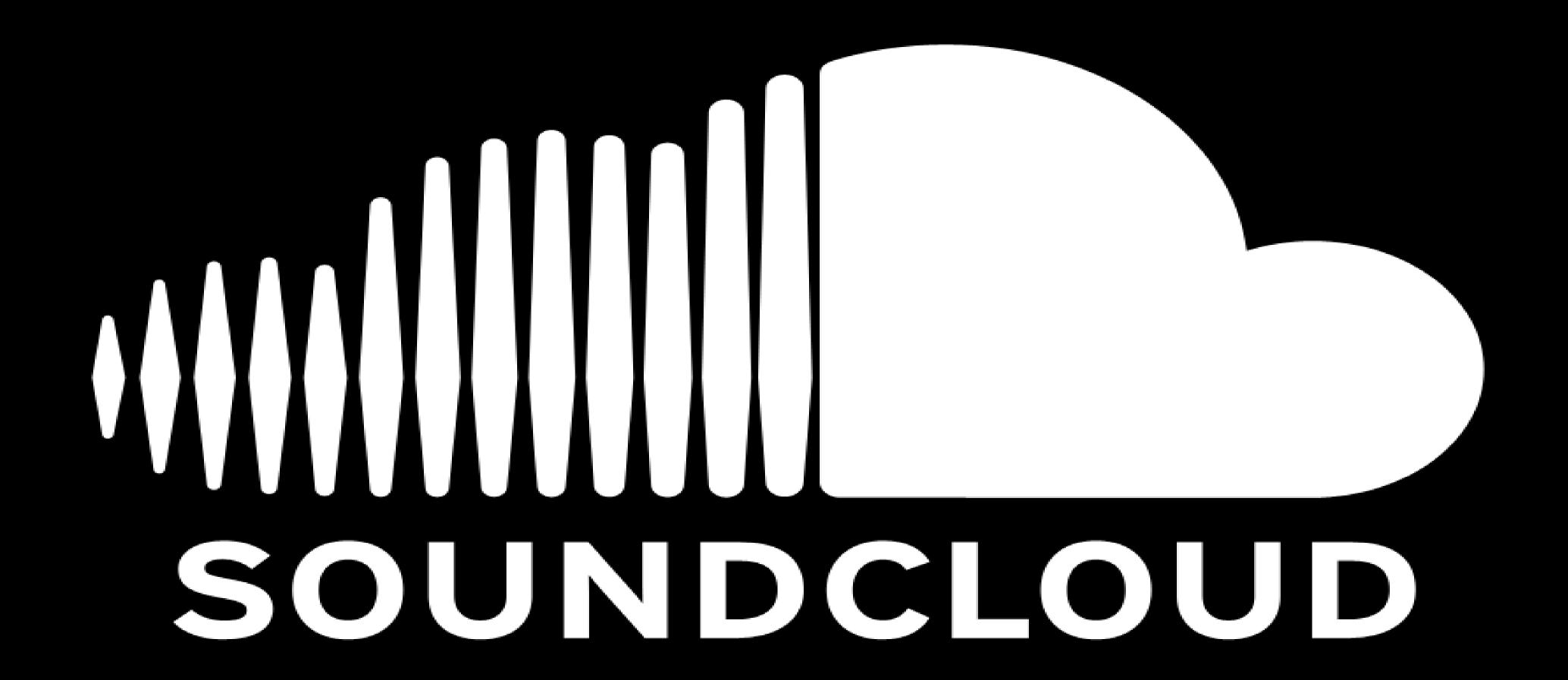


















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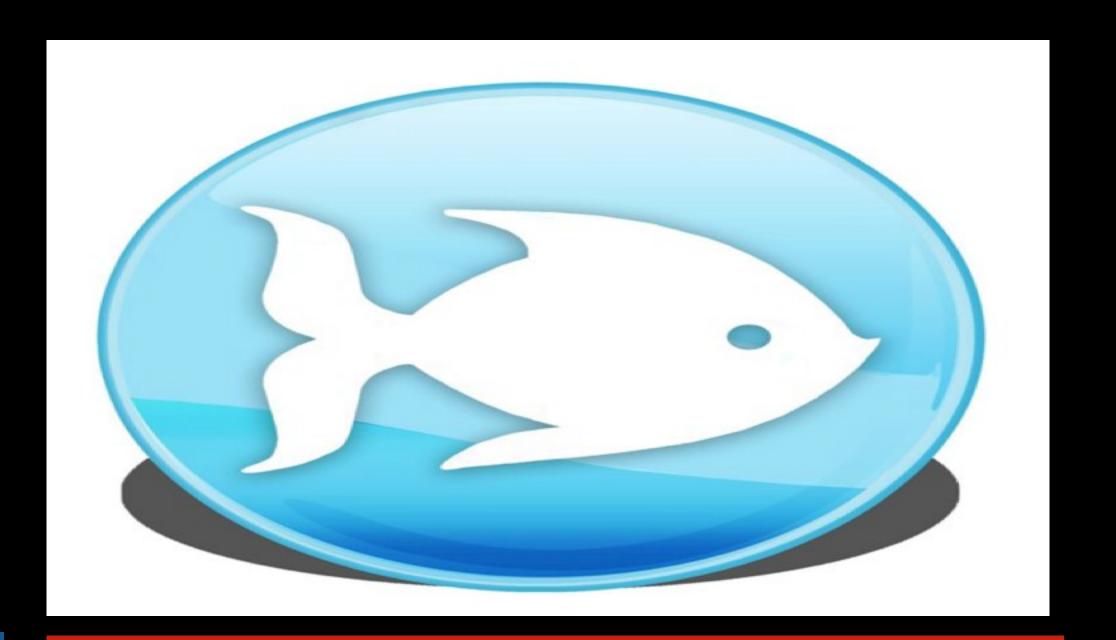
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Lingit lager programvare utviklet for lese- og skrivesvake.









Hjelpemidler



Få hjelp nå!

Vår programvare hjelper deg når du skal lese eller skrive bokmål, nynorsk eller engelsk.

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Lingit Skolepakke



Skolepakke

En enklere og bedre hverdag for elever med lese- og skrivevansker

Les mer

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Du kan bestille vår programvare for leseog skrivestøtte direkte i nettbutikken.

Gå til nettbutikken



Nyheter

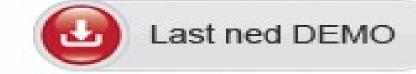
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VG Nett skriver om foreldre som betaler mer enn 50.000 kr i året...

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dyslektiske barn

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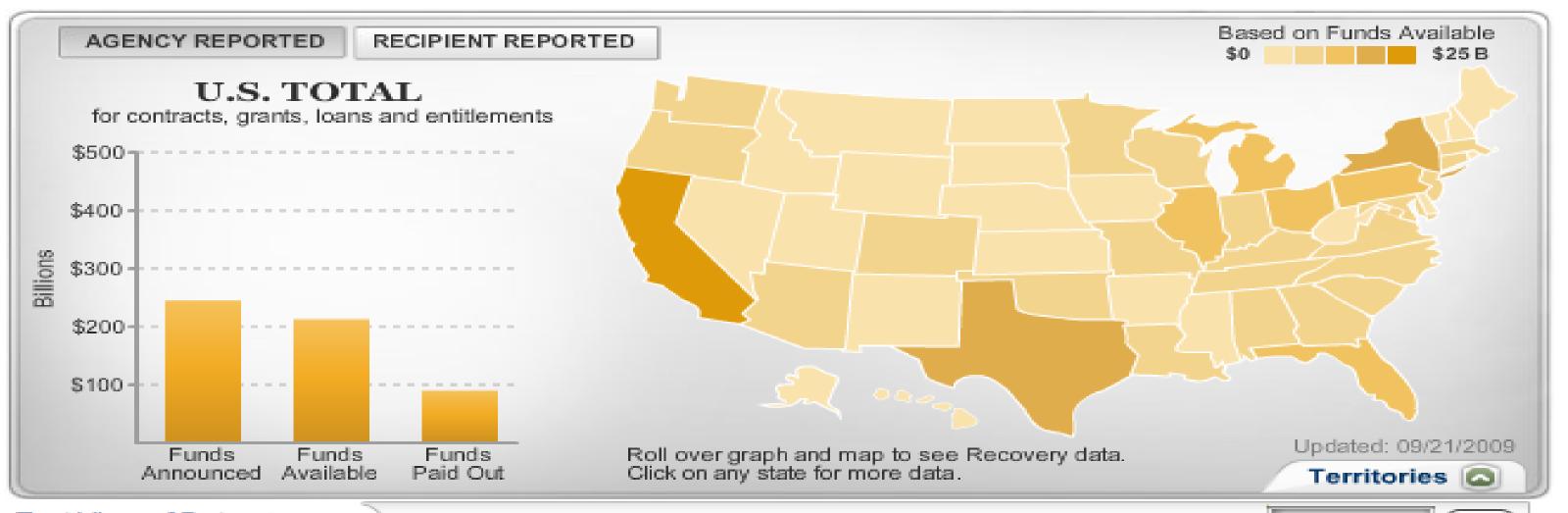


Recovery.gov is the U.S. government's official website providing easy access to data related to Recovery Act spending and allows for the reporting of potential fraud, waste, and abuse.

RECOVERY.GOV TRACK THE MONEY

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WHERE IS THE MONEY GOING? OPPORTUNITIES FAQS & RESOURCES NEWS ACCOUNTABILITY CONTACT US HOME ABOUT



PA: WATER SYSTEM UPGRADES

September 25, 2009

Hazleton City Authority, PA has started an upgrade of its drinking water system as the result of a \$12.5M Recovery Grant. Source: Hazleton City Authority

Find out more about PA: Water System Upgrades >>





Text View of Data Source

View Recovery Information in Your Neighborhood

	(50)
ZIP	()

ESTIMATED JOBS CREATED/SAVED

Recipient Data Will Be Released on October 15th, 2009

- >> Find more information about Recovery related jobs.
- >> How Job Data is Estimated CEA (PDF 58kb)

funding through a contract or grant and projects yet to be contracted job opportunities.

A company receiving Recovery Act out (Contracts Up for Bid) may offer Source: CONTRACTS

DATA, DATA & MORE DATA Funds Available To see where the money is going, make your selections below and click go. by Award Type Contracts Grants Loans Contracts Grants \$141,328,765,077 \$11,956,971,293 -- Agency ---- Amount --Go) Loans \$7,821,594,305 Updated 09/18/2009 Source >> To access data to create your own reports visit the Download Center.

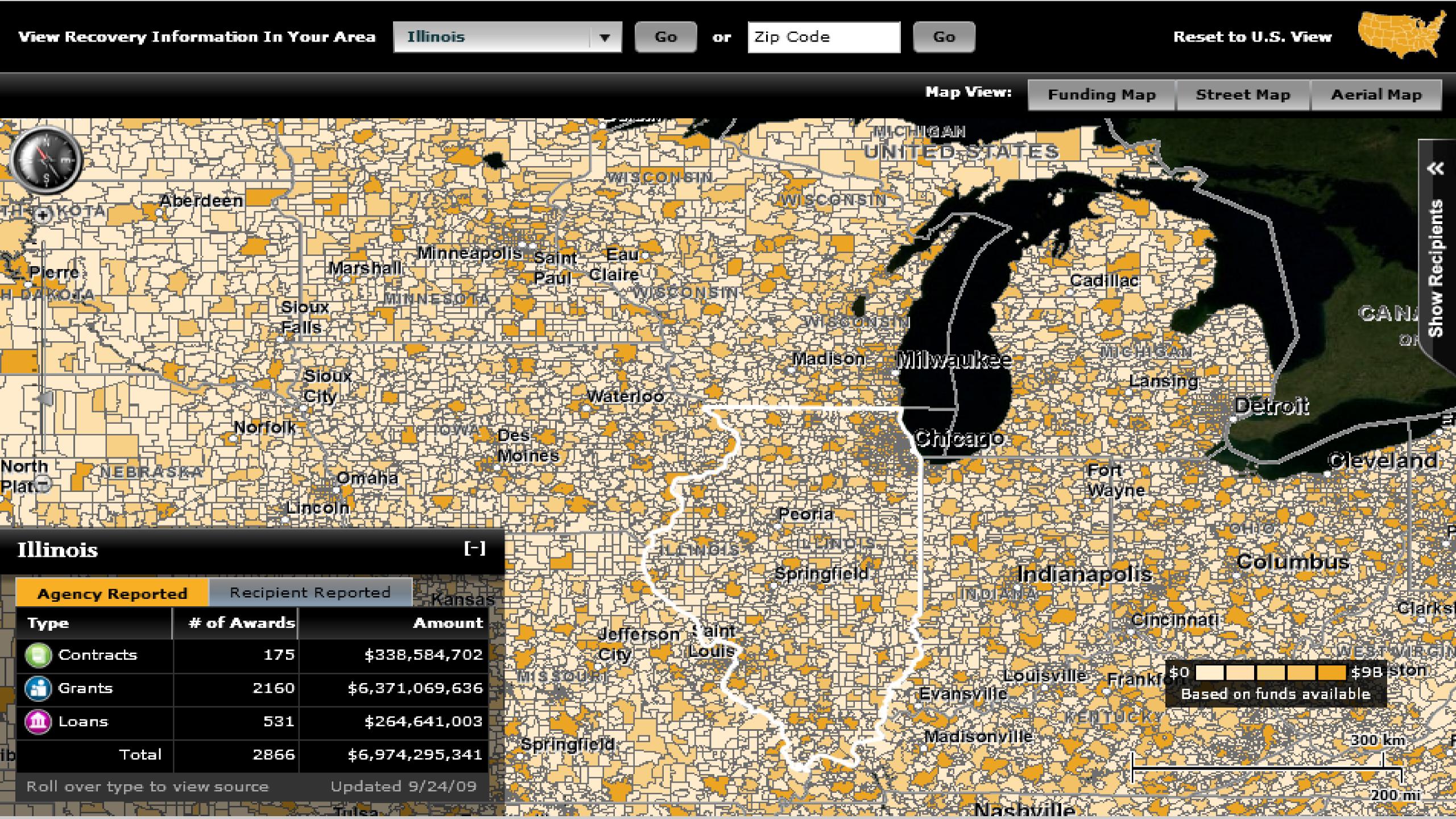
CHAIRMAN'S CORNER

Earl E. Devaney is chairman of the Recovery Accountability and Transparency Board, which manages this website and oversees spending under the American Recovery and Reinvestment Act of 2009.

September 29, 2009

After overcoming many challenges, the Recovery Board is launching its new stateof-the-art website. We plan to hold federal agencies and recipients of Recovery money accountable to you, our

citizens. Please watch my video to







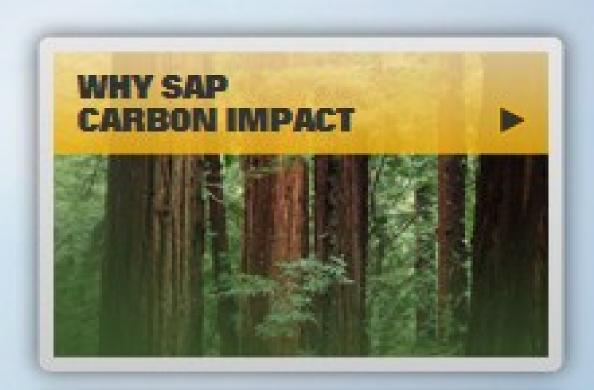
Microsoft®

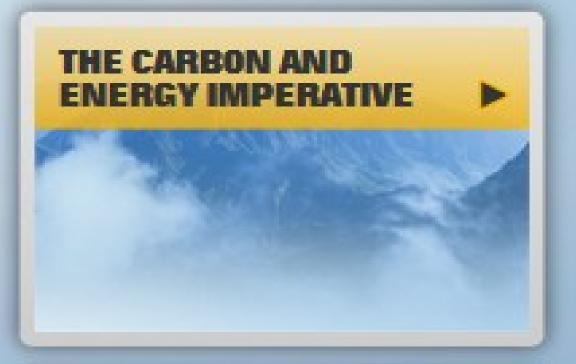


SAP CI LOGIN

SAP CARBON IMPACT OnDemand

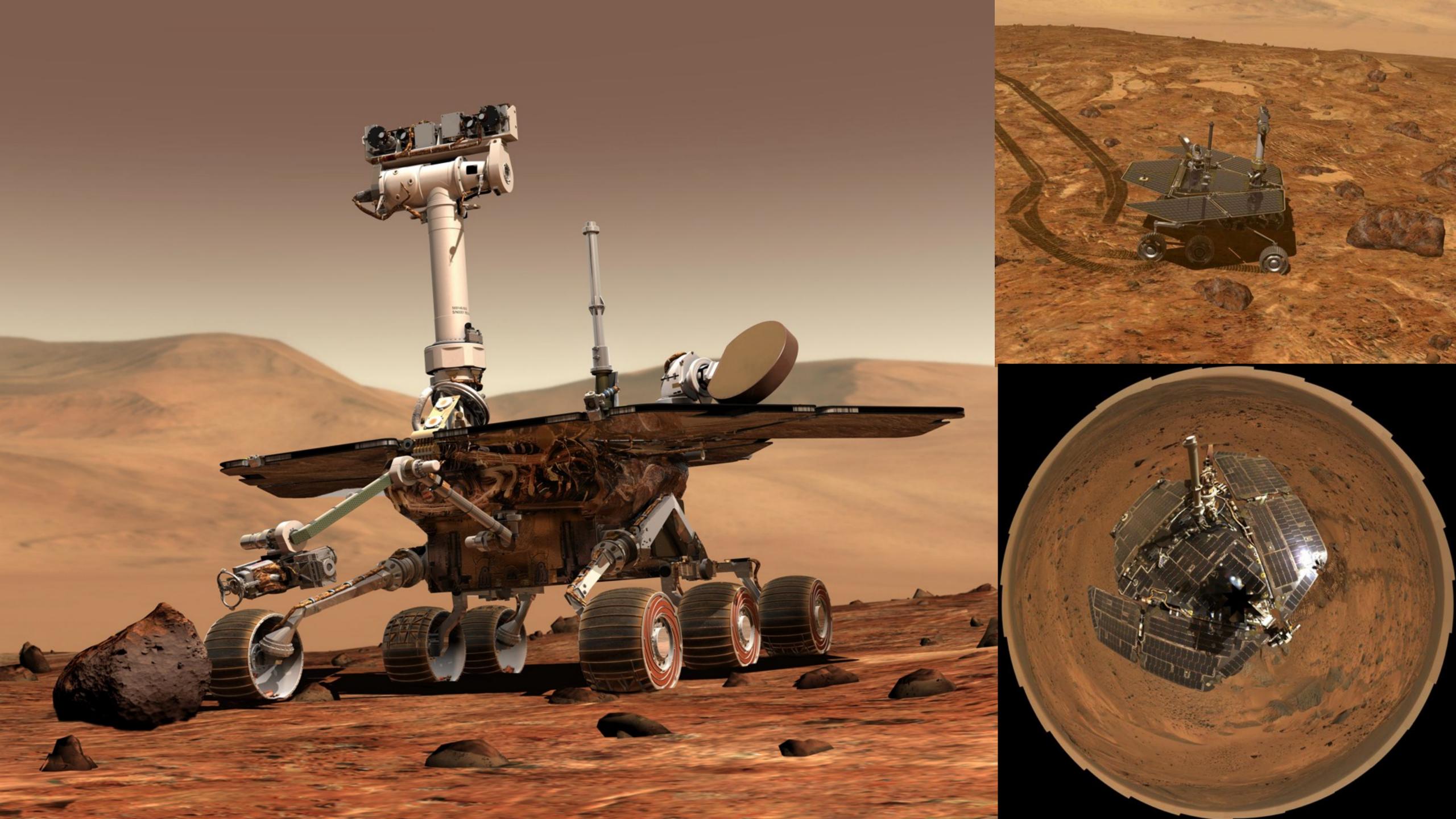
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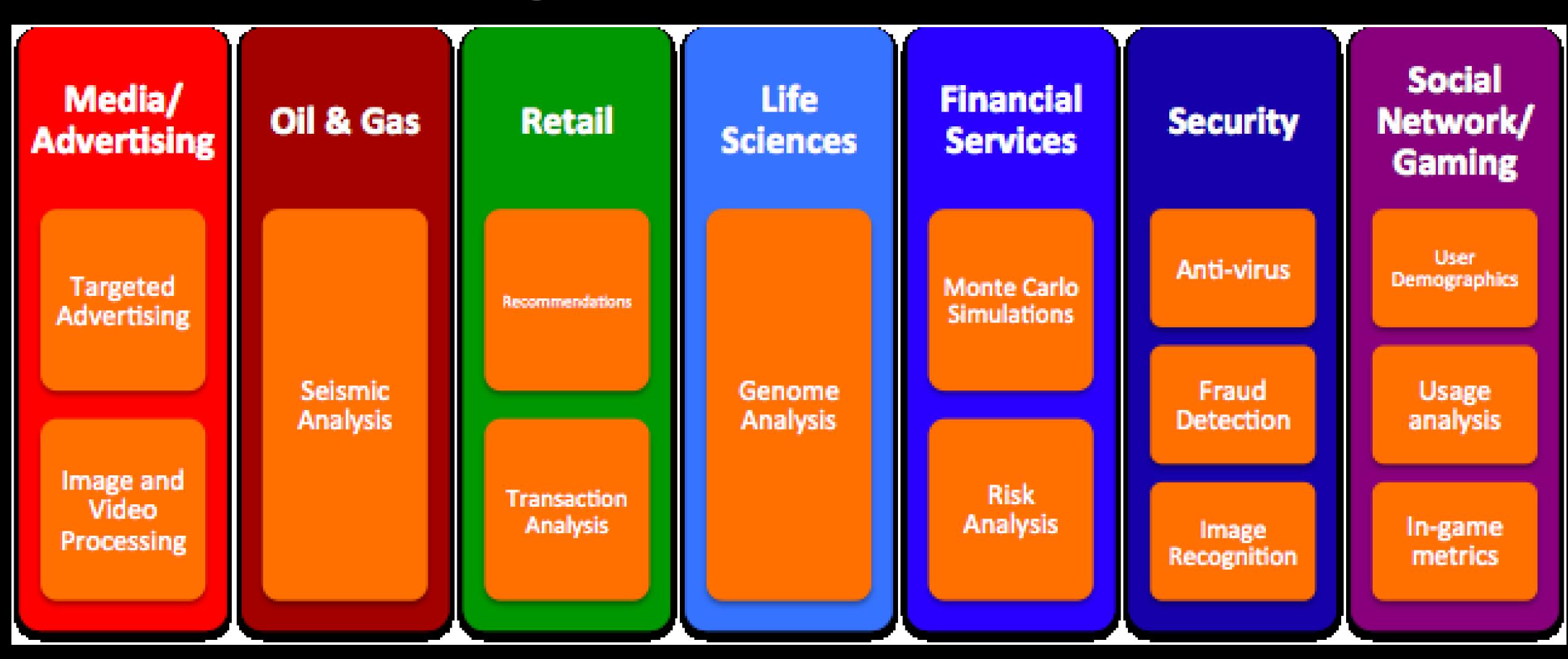
1000 Genomes

A Deep Catalog of Human Genetic Variation





Big Data Verticals





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