In Our Information Age

a wealth of information about all kinds of inter-connected entity

But...

Information is not knowledge.

— Albert Einstein

Entity Search and Retrieval
from unstructured data

Entity Analytics
on social/networked data

Entity Search

Page-centric view of the Web

Entity-centric view of the Web

query
result entities
supporting pages

Japanese compact cars
Nobel prize laureate

Entity Integration

Entity Supporting pages

Model: ... Year: ... Fuel efficiency: ...

Name: ... Country: ... Date of birth: ...

BigSocial Data Platform

Application Layer
Business Intelligence
Emergency Management
Political Analysis

Query Processing Layer
Complex Search Queries
Index-Plan Optimizer
Indexes

Data Augmentation Layer
Attributes
User Profiler
Document Analyzer
User Attributes
Doc Attributes

Data Gathering Layer
Topic
Topic Focused Monitor
Data Corpus

Mining and Searching on Graphs

Random walks on graphs

Ranking Classification Extraction

More Examples
World Wide Web
Highway system
Protein interaction network
Social network
Citation graph