



information technology at Argonne National Laboratory

National Laboratories Information Technology Summit
May 12, 2008
Chicago, Illinois

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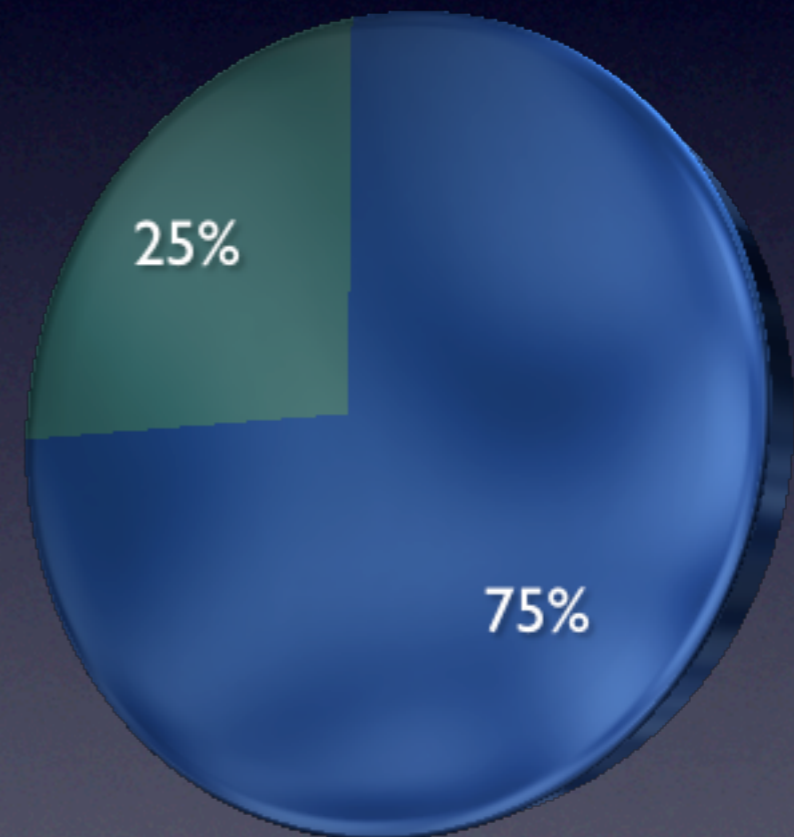
a multi-program lab

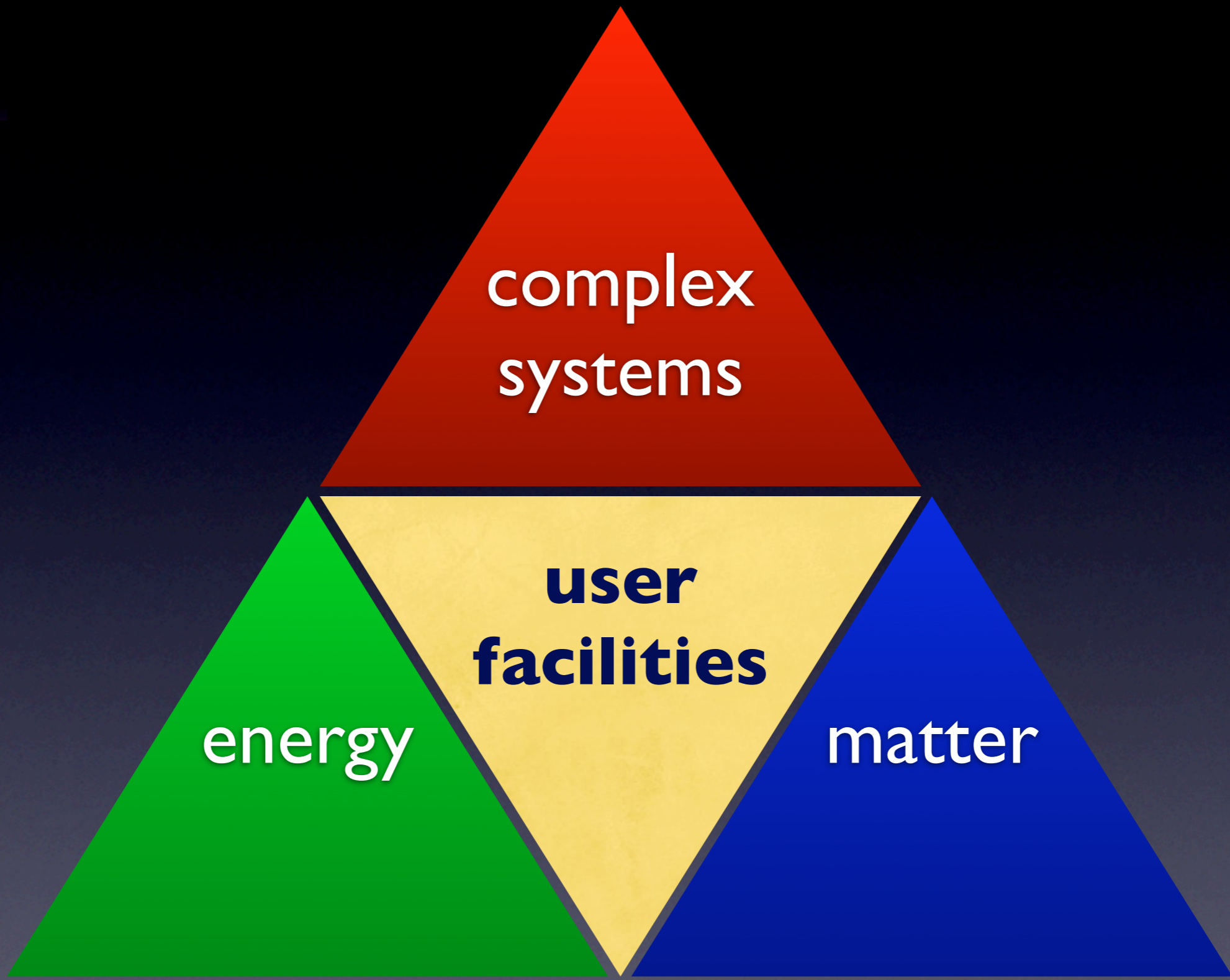
UChicago Argonne, LLC

3,000 employees

4,250 facility users, visiting
scientists, students

9,000 badged users





science & engineering

characterization
of matter at the
atomic and molecular
levels

user facilities

characterization
of matter at the
nuclear level

understanding
complex systems
through leadership
computing

Argonne Tandem-Linac
Accelerator System

Argonne Leadership
Computing Facility

operations

programs

cybersecurity

lab

lab

division

hpc &
user facilities

division

IT support
(helpdesk, desktop,
lan, email,
calendar, etc.)

lab

mixed

business systems

lab

lab

division

lab networks
& telecom

lab

lab



Argonne
NATIONAL
LABORATORY

IT is people

science

collaboration

business

a *digital* laboratory

computing, data

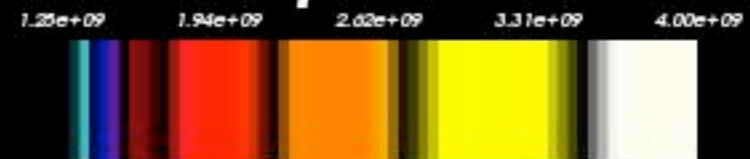
navigating

web 2.0 lab services

science / engineering

ALCF *Intrepid*
556 Teraflops IBM BG/P
163,840 processors,
80TB memory

Temperature



Time: 2.586e+00 seconds



Argonne
NATIONAL
LABORATORY

science / engineering

new core backbone

free storage services

lab computing resource



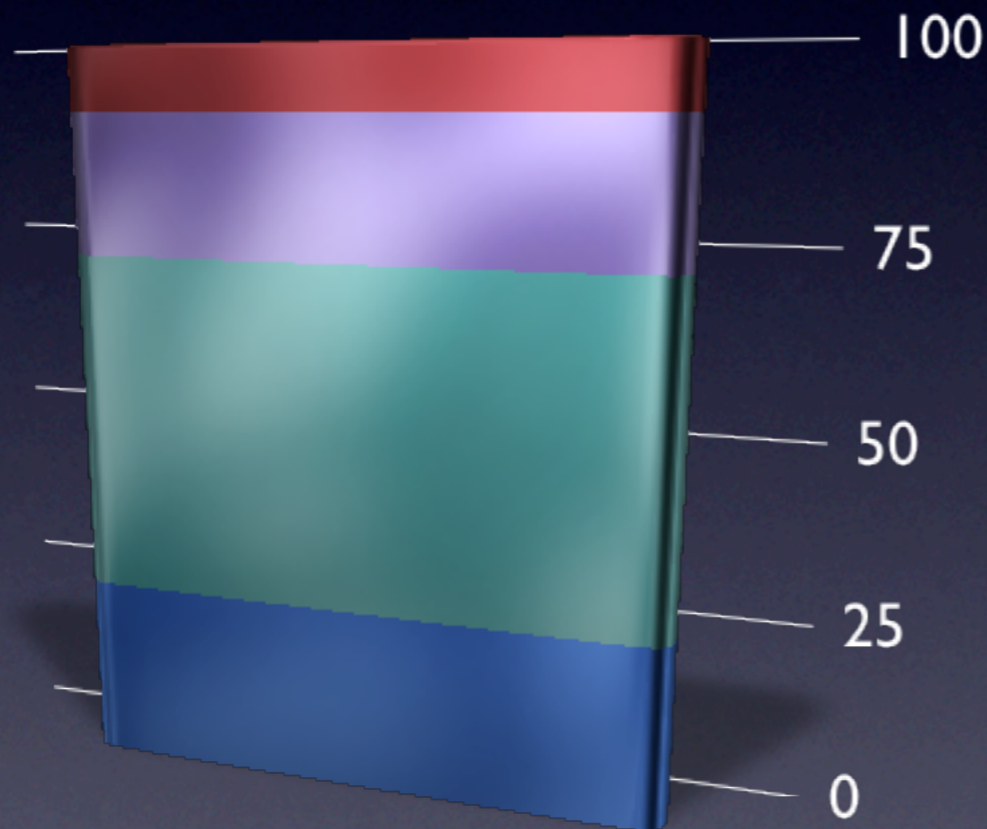
navigating

Web 2.0

new document services

internal social networks

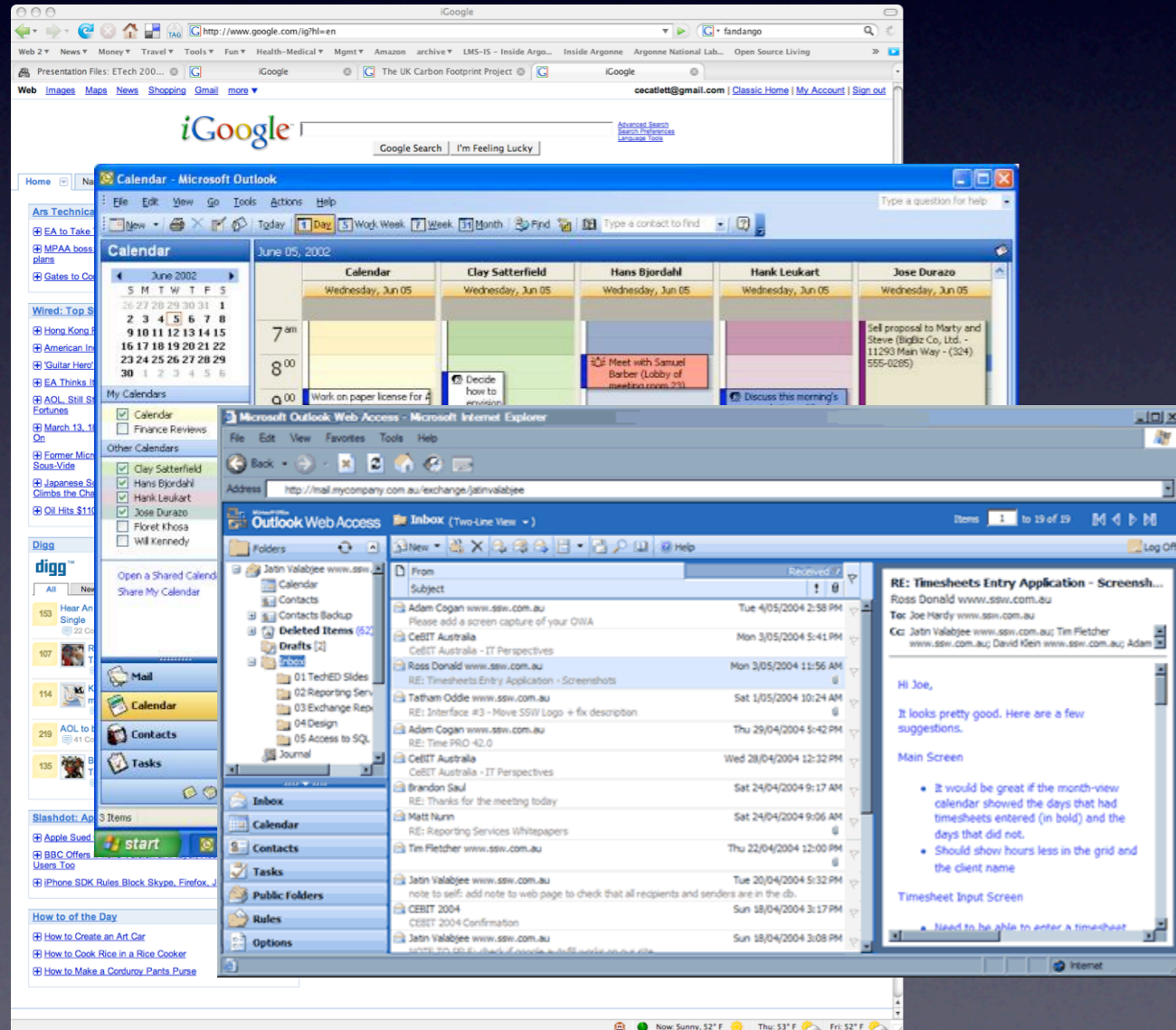
doing business



- strongly disagree
- somewhat disagree
- somewhat agree
- strongly agree

“I am increasingly overloaded by the amount of information I have to deal with”

doing business



exploit
routines
calendar (subscriptions)
browser (RSS)
email

architecture

interaction/
notification
interface

applications

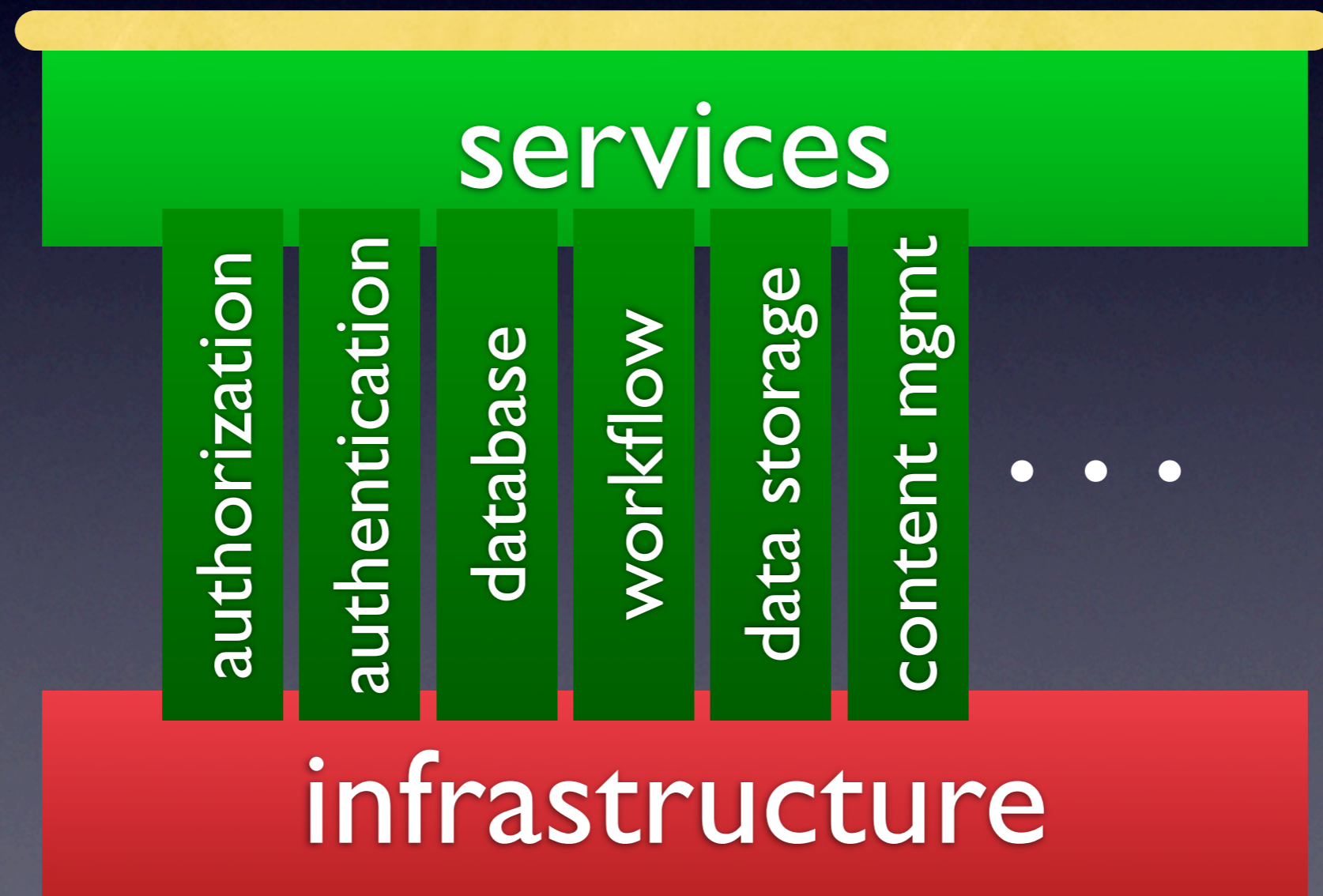
application service interface

services

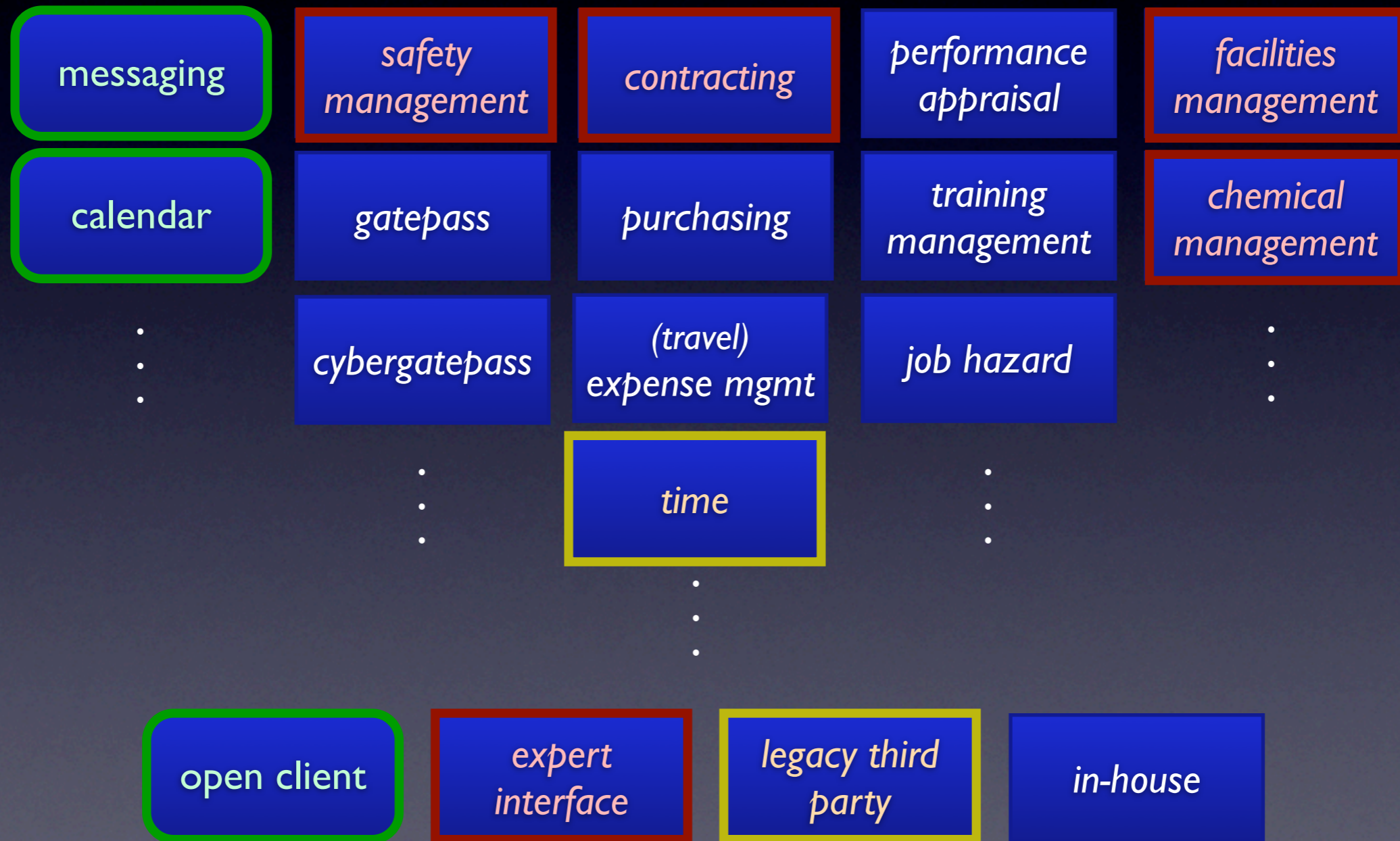
infrastructure

application services

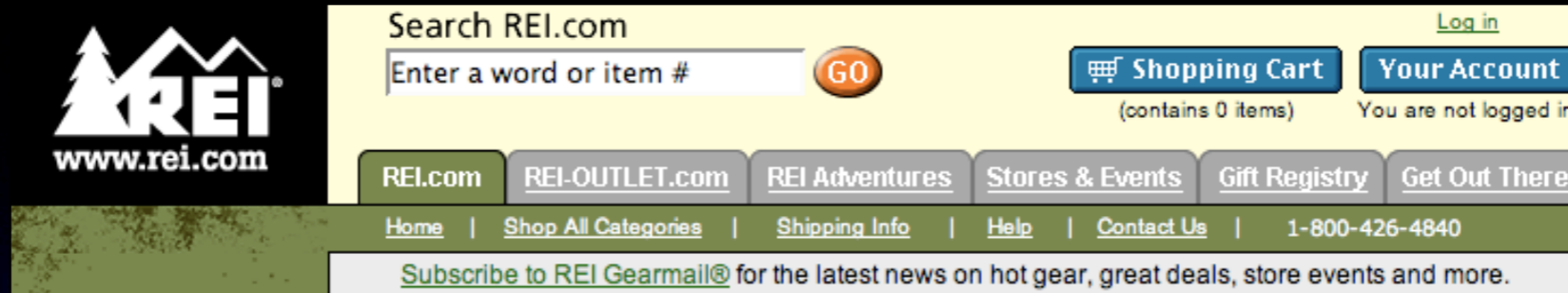
web services standards



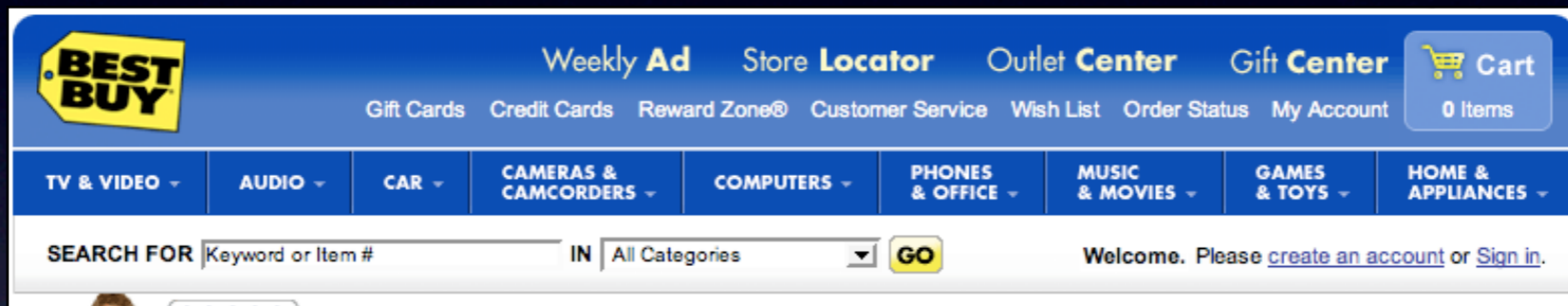
applications



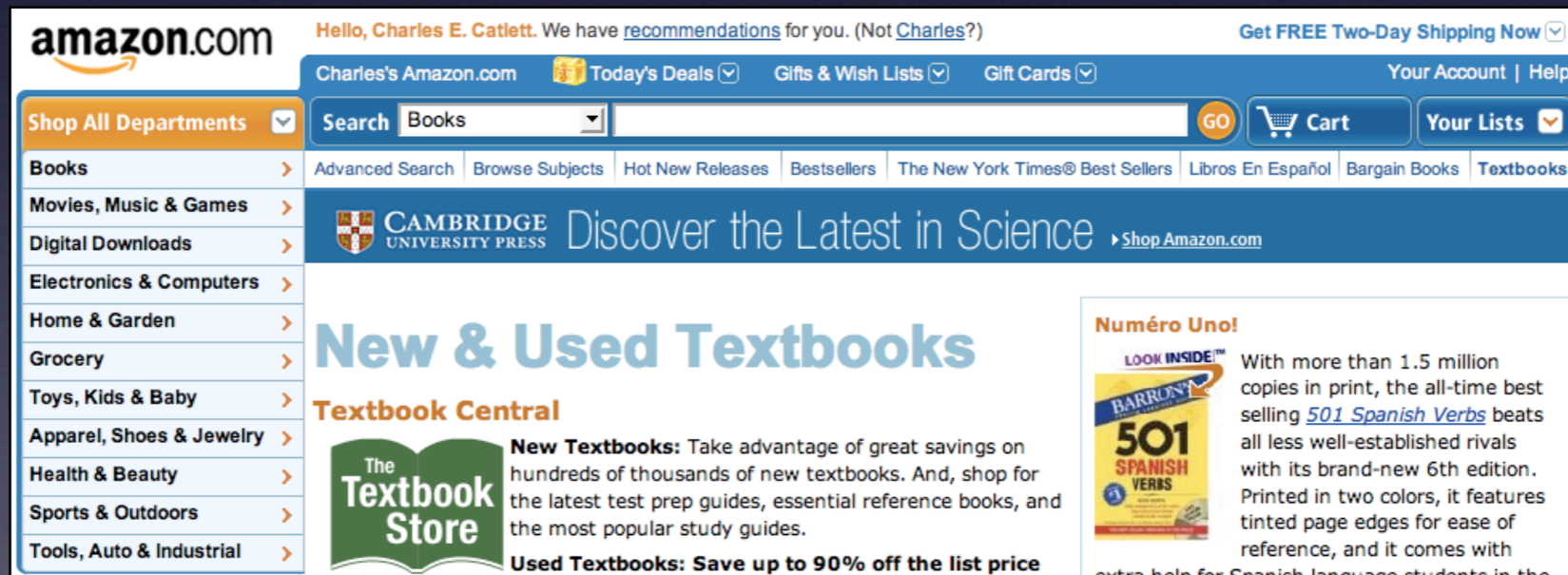
examples



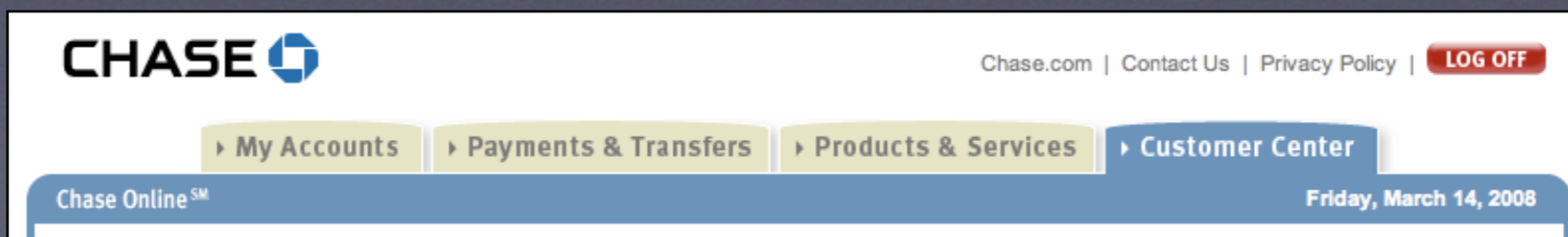
REI.com logo and search bar. Search bar contains "Enter a word or item #". Navigation links include "REI.com", "REI-OUTLET.com", "REI Adventures", "Stores & Events", "Gift Registry", and "Get Out There". A shopping cart icon shows "(contains 0 items)". A "Log in" link is present with the text "You are not logged in." Below the navigation is a green bar with links for "Home", "Shop All Categories", "Shipping Info", "Help", "Contact Us", and "1-800-426-4840". A subscription prompt reads "Subscribe to REI Gearmail® for the latest news on hot gear, great deals, store events and more."



Best Buy logo and navigation. Links include "Weekly Ad", "Store Locator", "Outlet Center", "Gift Center", and "Cart" (0 Items). A secondary row of links includes "Gift Cards", "Credit Cards", "Reward Zone®", "Customer Service", "Wish List", "Order Status", and "My Account". A category menu includes "TV & VIDEO", "AUDIO", "CAR", "CAMERAS & CAMCORDERS", "COMPUTERS", "PHONES & OFFICE", "MUSIC & MOVIES", "GAMES & TOYS", and "HOME & APPLIANCES". A search bar contains "Keyword or Item #". A "GO" button is next to the search bar. A welcome message says "Welcome. Please create an account or Sign in."



Amazon.com logo and user greeting: "Hello, Charles E. Catlett. We have recommendations for you. (Not Charles?)" and "Get FREE Two-Day Shipping Now". Navigation includes "Shop All Departments" (Books, Movies, Music & Games, Digital Downloads, Electronics & Computers, Home & Garden, Grocery, Toys, Kids & Baby, Apparel, Shoes & Jewelry, Health & Beauty, Sports & Outdoors, Tools, Auto & Industrial), "Search Books", "GO", "Cart", and "Your Lists". A Cambridge University Press banner reads "Discover the Latest in Science". A "New & Used Textbooks" section features "Textbook Central" and "The Textbook Store". A "Número Uno!" promotion for "501 Spanish Verbs" is also visible.



CHASE logo and navigation. Links include "My Accounts", "Payments & Transfers", "Products & Services", and "Customer Center". A "LOG OFF" button is in the top right. The footer shows "Chase OnlineSM" and the date "Friday, March 14, 2008".

one login
(once)

intuitive
navigation
consistent
interface
experience

people

science

collaboration

business