



Thomson Reuters
MISRC Presentation on "Cloud Computing"

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Cloud Computing


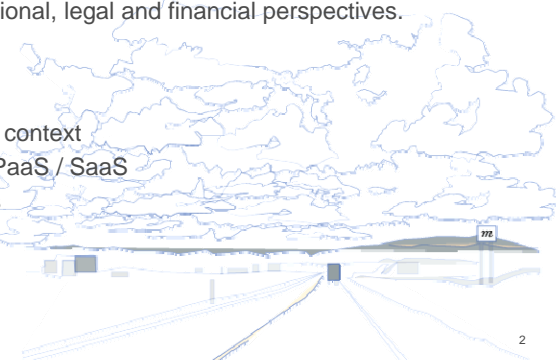
Abstract

- ...difficult to ignore the impact of cloud computing
- ...range of vendor products...responses of IT organizations
- ...re-examination of computing platforms and software products

We present a consumer's perspective of cloud computing...
adoption of cloud infrastructure services...new software products
...from technical, operational, legal and financial perspectives.

Presentation format

- Introduction
- Product & infrastructure context
- Investigations of IaaS / PaaS / SaaS
- Initial cloud experiences
- "Go forward" approach
- Learnings & cautions
- Q&A

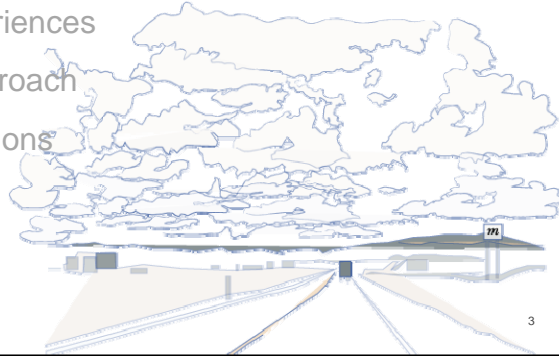


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Cloud Computing

• Introduction

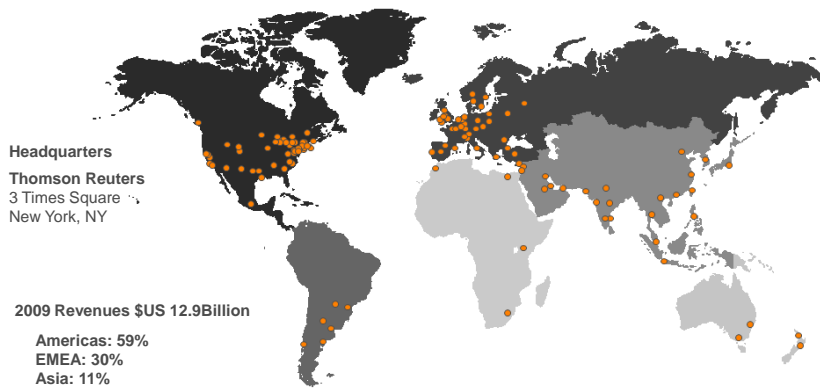
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2009 Revenues \$US 12.9Billion
Americas: 59%
EMEA: 30%
Asia: 11%

Footprint
Over 55,000 employees
in more than 100 countries



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Thomson Reuters

MARKETS DIVISION – \$7.4B



MEDIA: \$3B
Reuters news
reaches 100 million
readers



Professional applications
for 100 million
professionals globally serving
Sales, Trading, Investment &
Advisory and Enterprise markets

PROFESSIONAL DIVISION – \$5.6B



LEGAL: \$3.7B
Westlaw is relied upon by 99%
of the National Law Journal's
top 250 U.S. law firms



TAX & ACCOUNTING: \$1.0B
Checkpoint is used by all of the
top 100 U.S. accounting firms



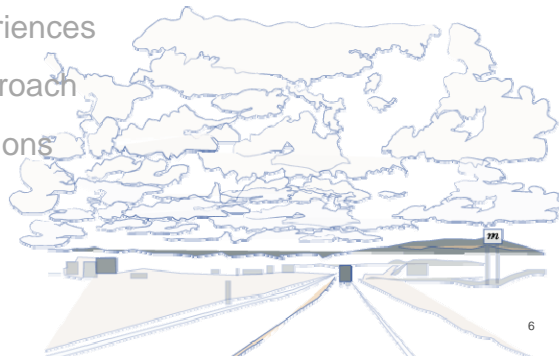
HEALTHCARE & SCIENCE: \$9B
Informing healthcare decisions
affecting over 150 million lives
Used by over 20 million
researchers worldwide



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Infrastructure

Minnesota datacenters

- 5 active data center modules on 3 sites; >100,000 sq. ft. of raised floor
- Network
 - 6x 1-gigabit Internet network pipes from 5 different providers;
 - transmission up to 6,000 megabits/second
 - high-speed connectivity to 400 locations worldwide
 - 68,000+ LAN ports on campus
- Server footprint
 - 15,000 mainframe MIPS running Z/OS & OS/390
 - 18,000 servers: 11630 Linux, 5170 Windows, 1270 Solaris/AIX
 - 10,000 virtual machines
- Storage footprint
 - 11 petabytes of installed storage disk & tape including 5PB NAS & 2.7PB SAN
- Database
 - 1600 Oracle servers, 640 Msft SQLServer, DB2 & others

Smaller datacenters in Ann Arbor & Limerick, Eire



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The screenshot shows a Mozilla Firefox browser window displaying WestlawNext search results. The search query is "are batboys employees in major league baseball". The results page is titled "Overview (14)" and shows a list of search results categorized by type: Overview (14), Cases (41), Statutes (54), Regulations (7,250), Administrative Decisions & Guidance (5,353), Trial Court Orders (20), Secondary Sources (95), Forms (39), Briefs (75), Pleadings, Motions & Memoranda (20), Expert Testimony (6,257), Jury Verdicts & Settlements (6,014), Proposed & Enacted Legislation (7,231), Proposed & Adopted Regulations (3,522), and All Results (34,971). Two case results are visible: "Flood v. Kuhn" (Supreme Court of the United States, June 19, 1972, 407 U.S. 258) and "Charles O. Finley & Co., Inc. v. Kuhn" (United States Court of Appeals, Seventh Circuit, April 07, 1978, 569 F.2d 527). The browser's taskbar at the bottom shows several open applications including Microsoft Outlook, Firefox, and Microsoft PowerPoint.

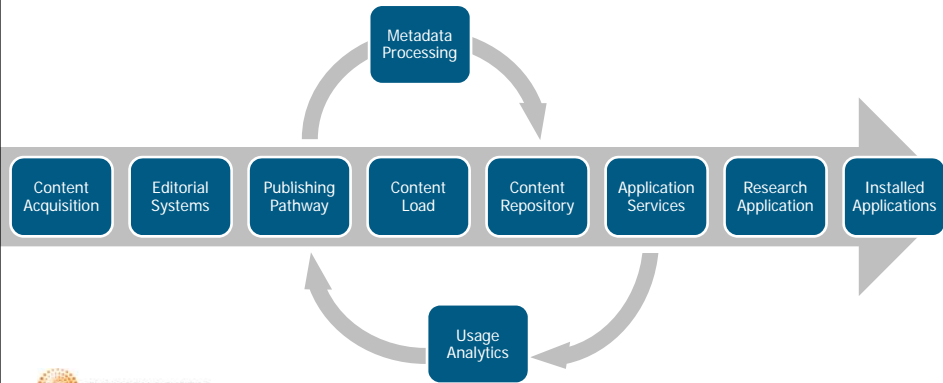
Thomson Reuters--Legal Westlaw product reach

Westlaw and its international variants are used in 115 countries

The image features a world map where 115 countries are highlighted in orange, indicating the global reach of Thomson Reuters' legal products. The map shows coverage across North America, South America, Europe, Africa, Asia, and Australia. The Thomson Reuters logo is located in the bottom left corner, and the number "10" is in the bottom right corner.

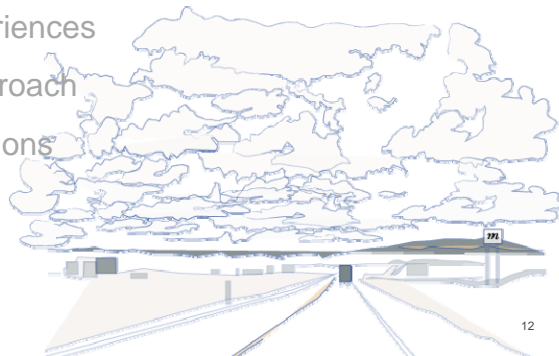
Product Context

TR Professional products address the information needs of distinct market segments--Legal, Tax & Accounting, Science & Healthcare--but the general information flow and application structure follow a common model.



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Initial cloud experiences

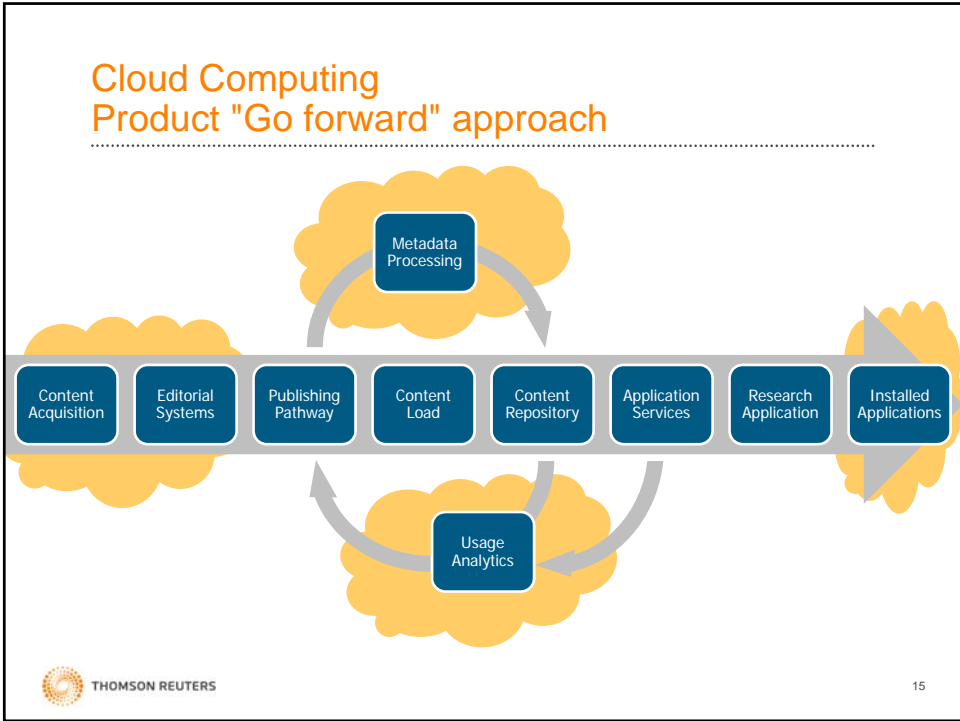
- Classification of 120 million European patent actions
- WestlawNext test harness
- Disaster recovery site for Novus content repository
10% fixed infrastructure
90% cloud capacity
- User-experience "big data" reduction & analytics
- Shared Hadoop clusters:
5 inhouse with expansion into commercial cloud
- Azure early technology adoption program



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 - **Learnings & cautions**
 - Q&A
- Learnings & Cautions

 - Performance
 - Management
 - Reliability
 - Financial implications
 - Intrusion
 - Data locality
 - Information security; attorney-client data privilege & confidentiality
 - Platform selection
 - Brand protection
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