

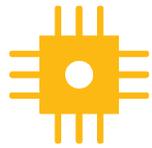


Bullish on Information Management

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IBM Research - Almaden

The World is Getting Smarter

Information is the key



Our world
is becoming
Instrumented



Our world
is becoming
Intelligent



Our world
is becoming
Interconnected

What's Your Passion?

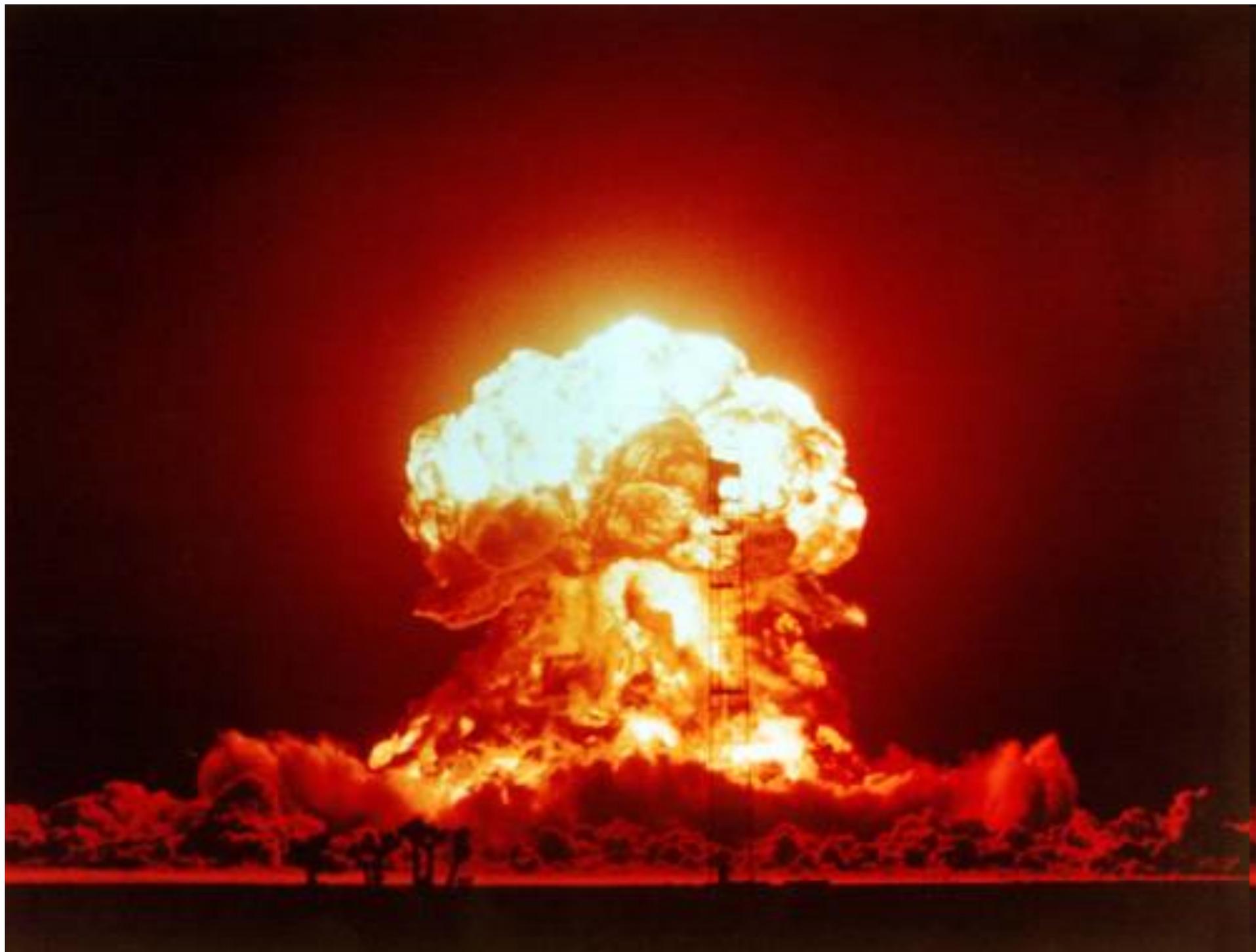


- Do you like the nitty-gritty “MOD” aspects?
 - Architectural possibilities abound
 - Lots of different problems with different constraints
- Do you want to make MOD more usable?
 - More need than ever to raise the level of abstraction
 - Models, tools – all needed, all good
- Do you want to save the world? (or just like being useful?)
 - It’s all about what you know, and what you can do with it
 - Multi-disciplinary is in, domain knowledge opens new doors
 - Analytics is king

Crystal Ball Time: What Might We Be Working On in 20 Years?



- What does it mean to “manage data” in a biologically inspired “computer”?
 - Silicon neurons?
 - Cells that compute?
- What will be possible when there are sensors with processing power in everything we use?
 - Extreme distributed database? P2p redux?
 - Bye-bye data entry? Search on steroids?
- What support will be needed for truly intelligent assistants – can we eliminate explicit requests for information?
 - The ultimate jump in the level of abstraction?



Speaking of Which...



Announcing the

First IBM Scalable Data Analytics for a Smarter Planet Innovation Award

- **Make our know-how help the planet!**
- **Winning proposals will be funded to build solutions that leverage data to make the planet smarter.**
- **Ideal proposals will incorporate data analysis on one or a combination of the following platforms: DB2, solidDB, Infosphere Streams, Hadoop and Jaql, SystemT IE engine, and SPSS.**
- **Award amounts and requirements:**
 - The 2010 Scalable Data Analytics Innovation Award will be valued in the range of US \$10,000 to \$30,000.
 - Full-time faculty member at an accredited college or university that offers Baccalaureate, Master's or Doctoral programs.
- **Key dates:**
 - June 7, 2010: Online submission opens.
 - August 15, 2010: Deadline for submitting a proposal.
 - October 1, 2010: Date award winners will be notified by e-mail.
 - October 2011: IBM-hosted Workshop where awardees will present their work.
- **See http://www.ibm.com/university/innovation/scale_analytics.html for details**

Christoph's Other Questions

- Will all the interesting research be done in industry (labs), but not at universities, like for cars?
 - Hasn't it always been that way? 😊
 - A lot of interesting work will be done in combination with real users – continuation of the multi-disciplinary idea, also in partnership with industry
 - Industrial labs will see new opportunities as intermediaries
- Will research become fundamentally more theoretical and difficult after all the low-hanging fruits have been picked, like in mathematics?
 - Nope. We have as much engineering blood as math blood. We create new low-hanging fruits as we build on earlier work.
- How will the number of MOD research jobs develop long-term?
 - Depends on how well we evolve the field
- For comparison: how has the field changed in the past 10, 20, 30 years? Change of community structure, the way we work, what is publishable, what our students are like.
 - Boring (nothing changes, we just keep having the same discussions, same collaborations (though Asia's now more active))
 - Exception – more interdisciplinary work