

MAKING SENSE OF THE INFORMATION IN THE REAL TIME WEB

Jurgen Van Gael (@jvangael)
Microsoft Research
Future of Social Networks - 2010



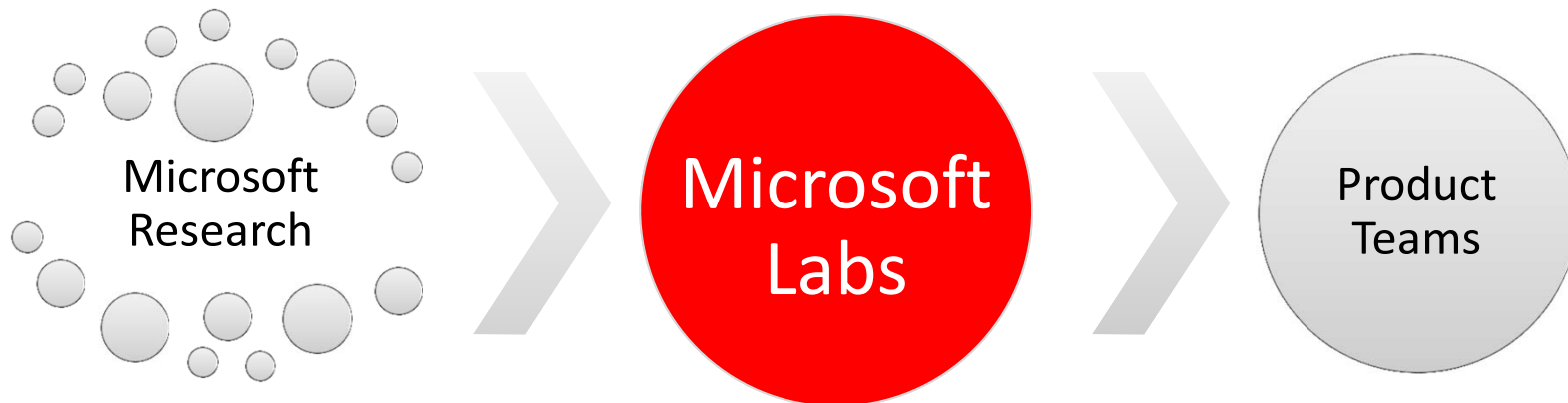
Overview

- Future Social Experiences Labs
- The Real-Time Web
- Making Sense of Information
- Project Emporia

Why are we here and who are we?

FUSE LABS

Labs at Microsoft



Pushing the limits
of technology



Proving or dis-proving
concepts

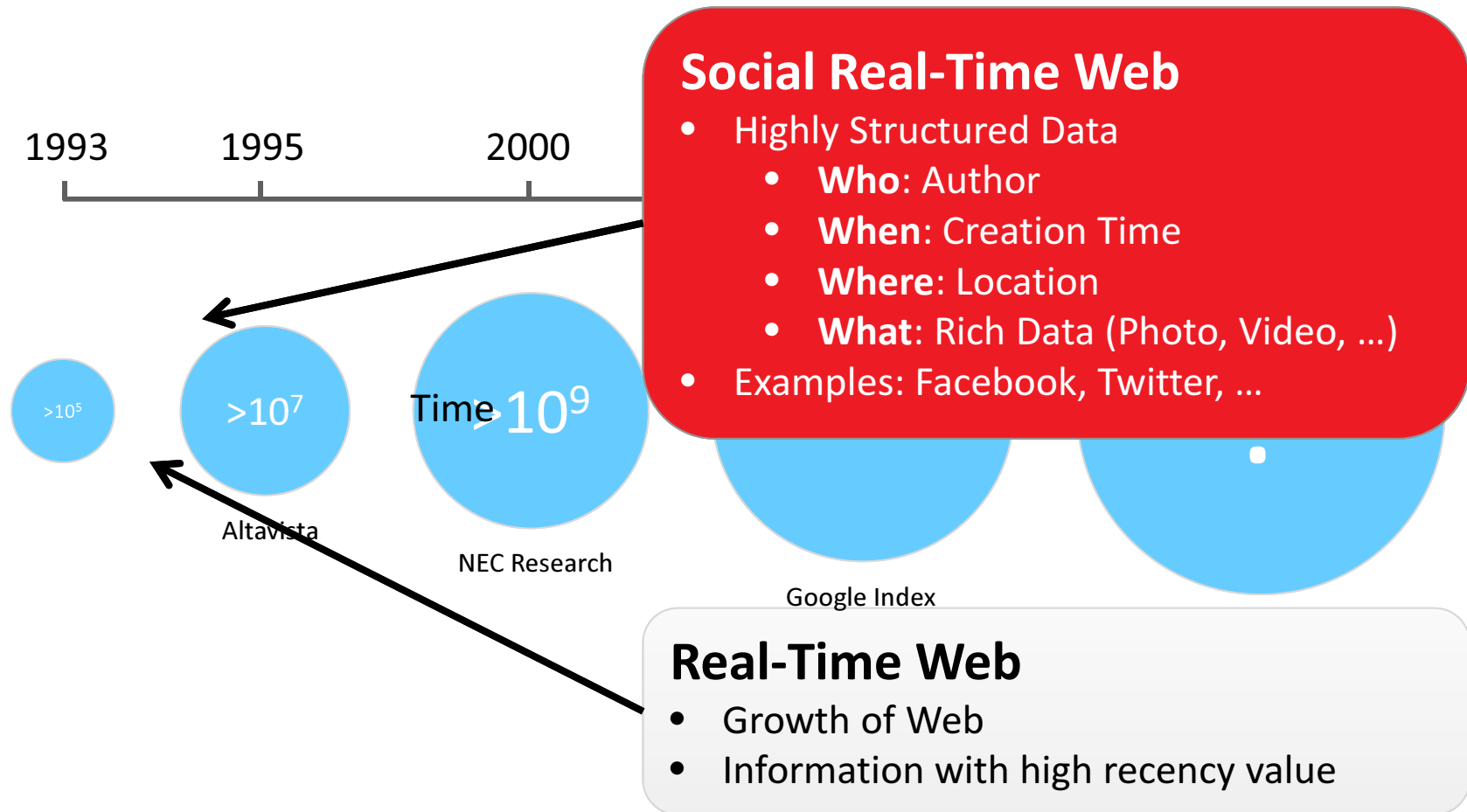


Execution

What is the real-time web and what is the problem?

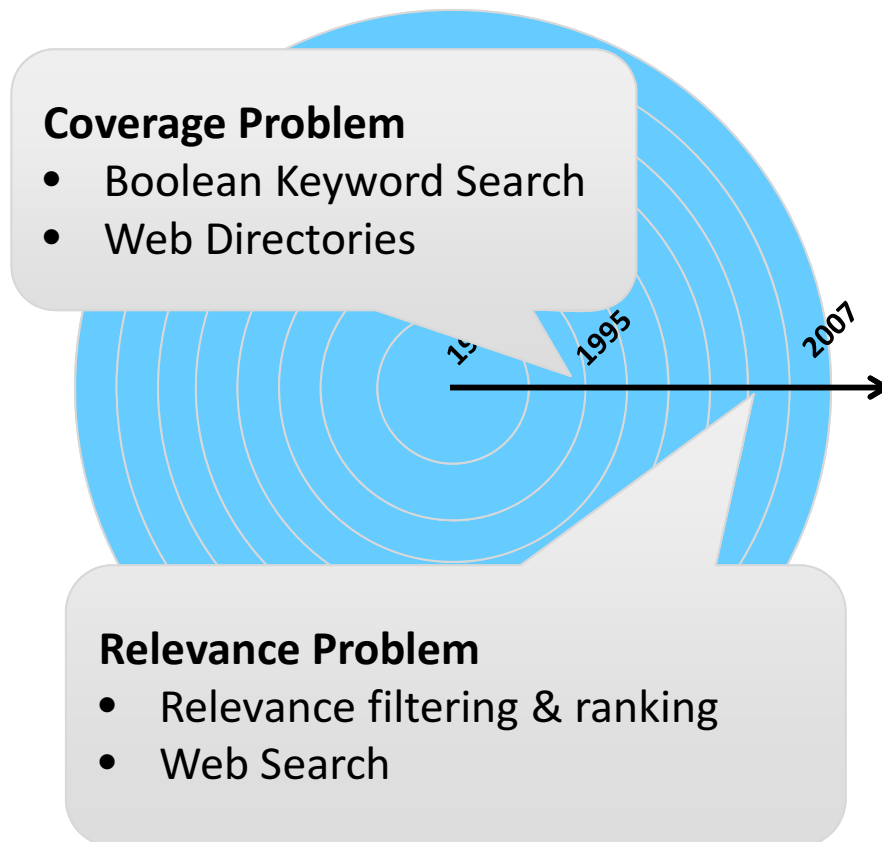
THE REAL-TIME WEB

Information on the Web

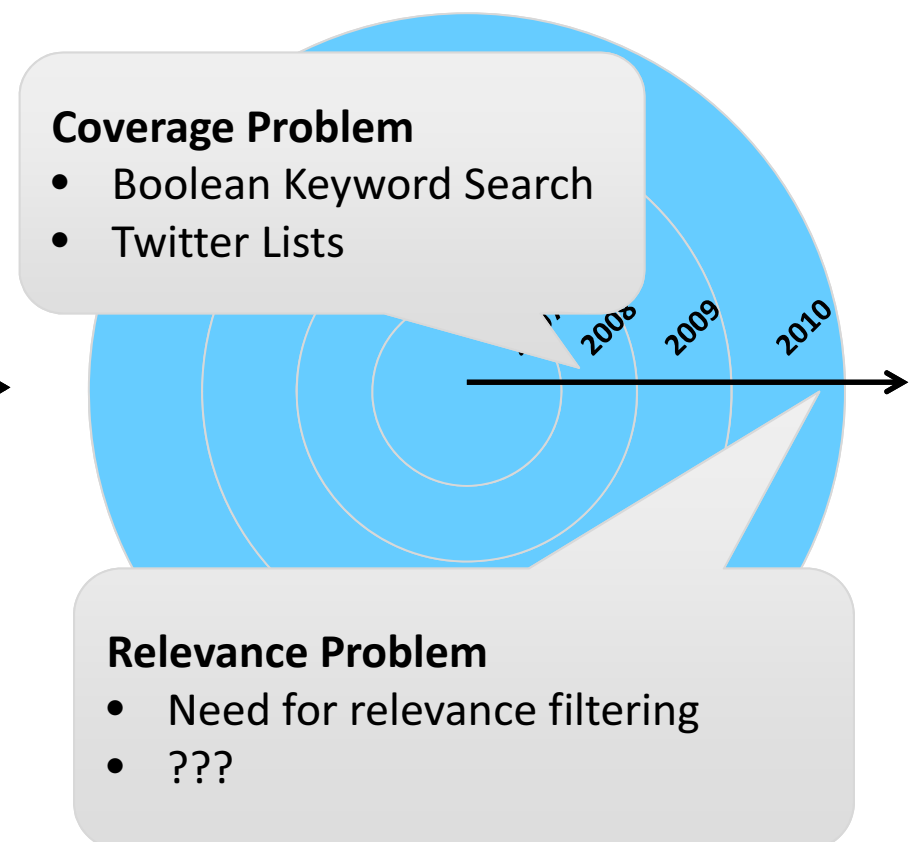


From Coverage to Relevance

World Wide Web

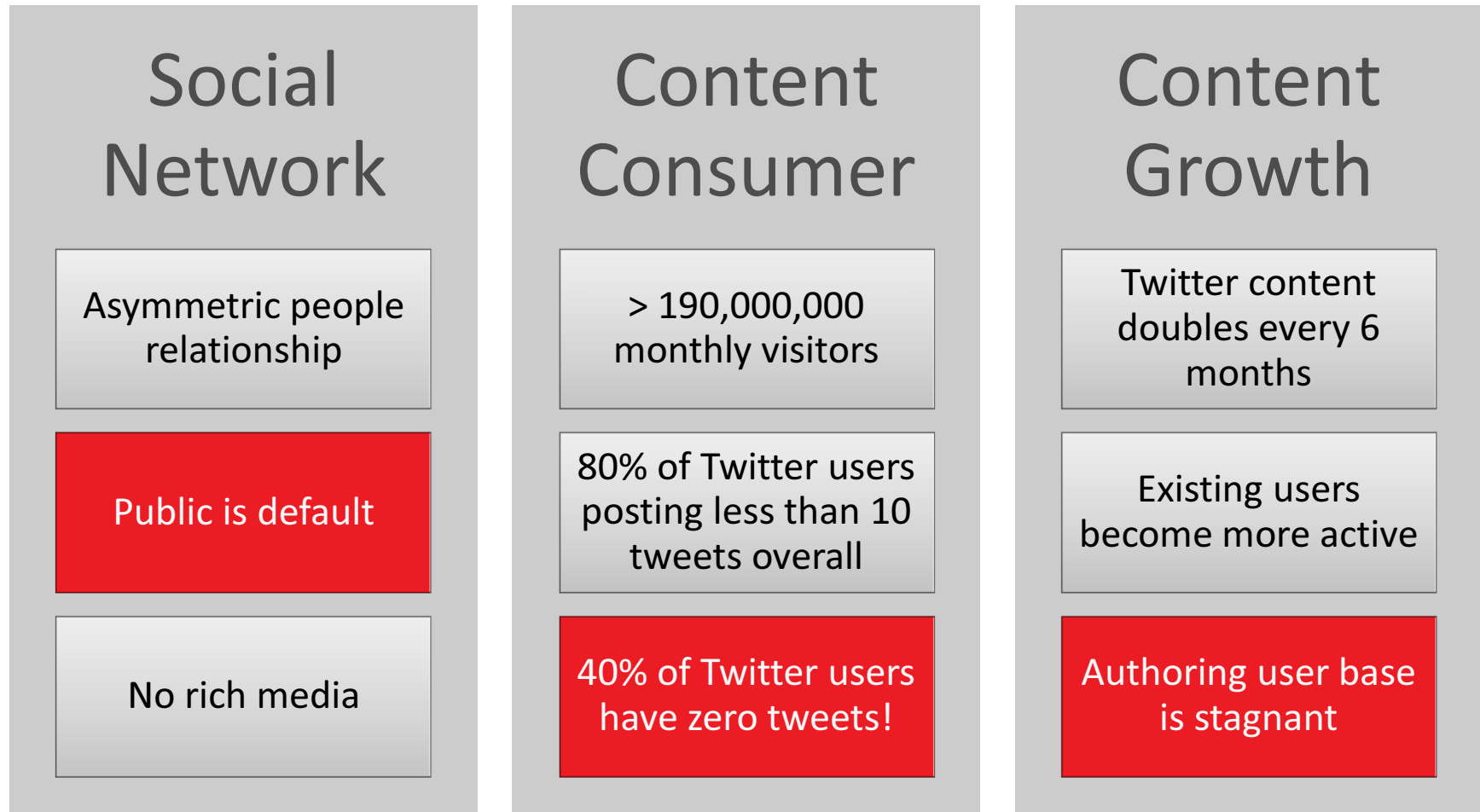


Twitter

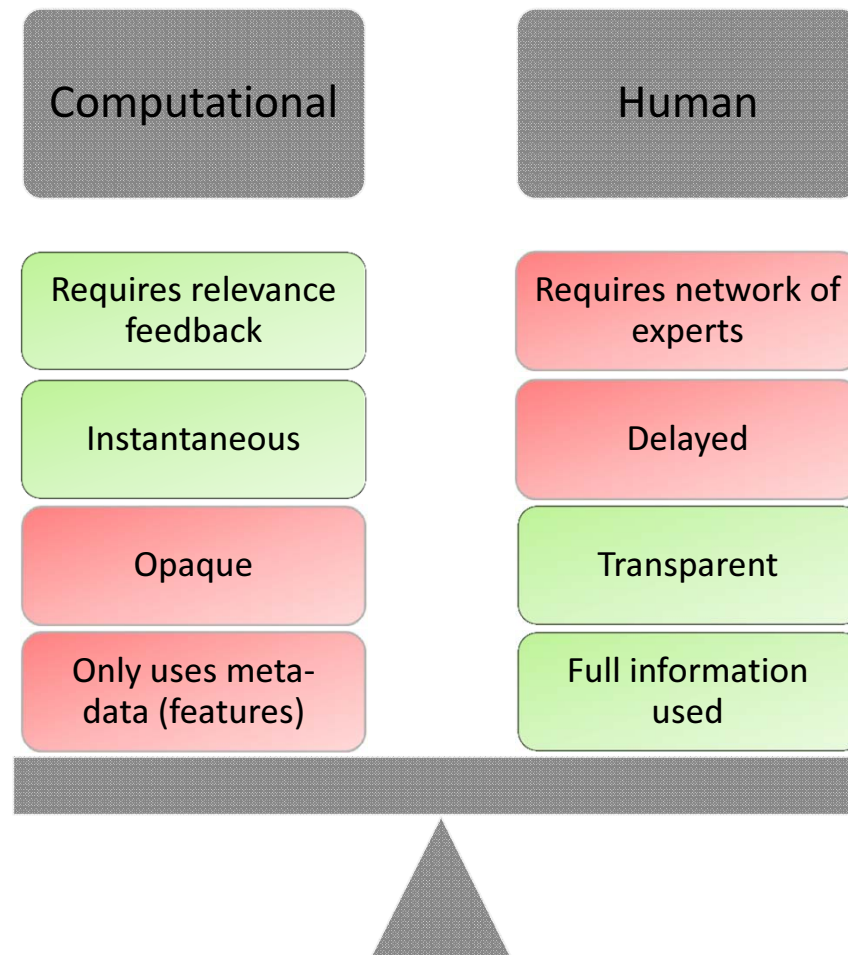


DEMO

Twitter – Social Network or Microblog?

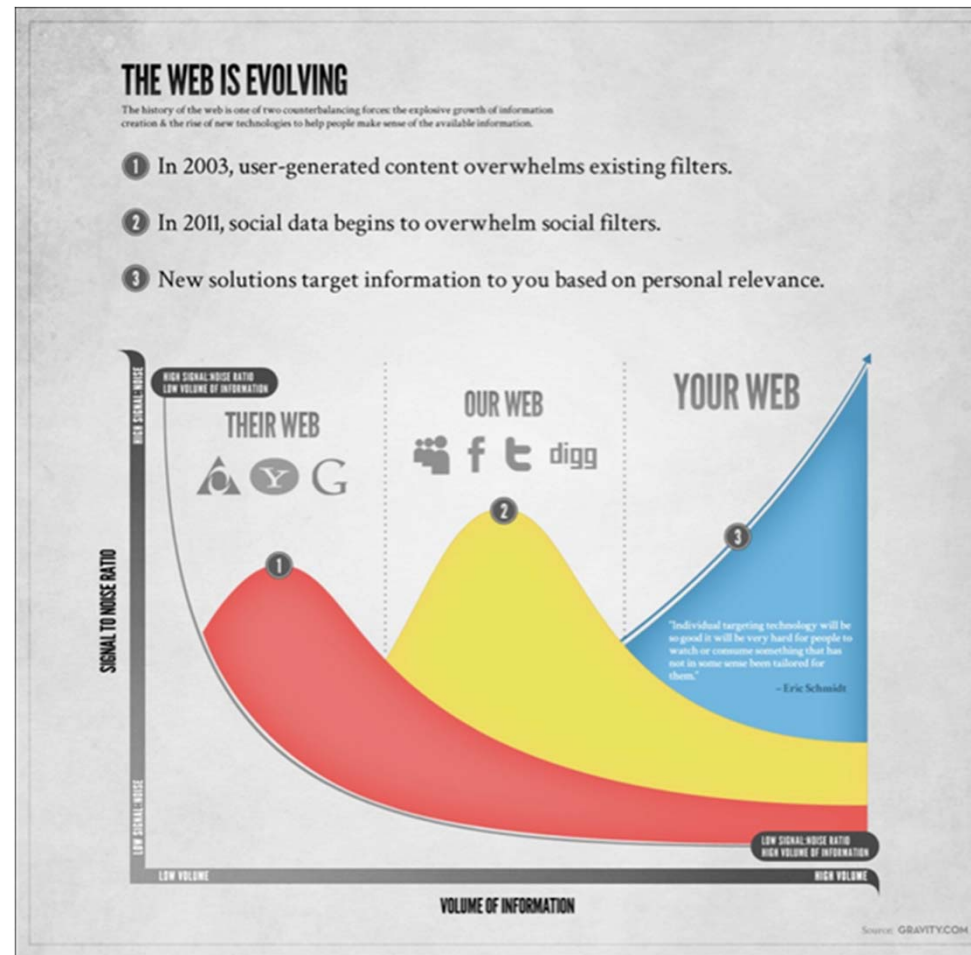


Computational vs. Human Intelligence



The Future Will Be Personalized

TechCrunch - 17/11/2010 - Amit Kapur

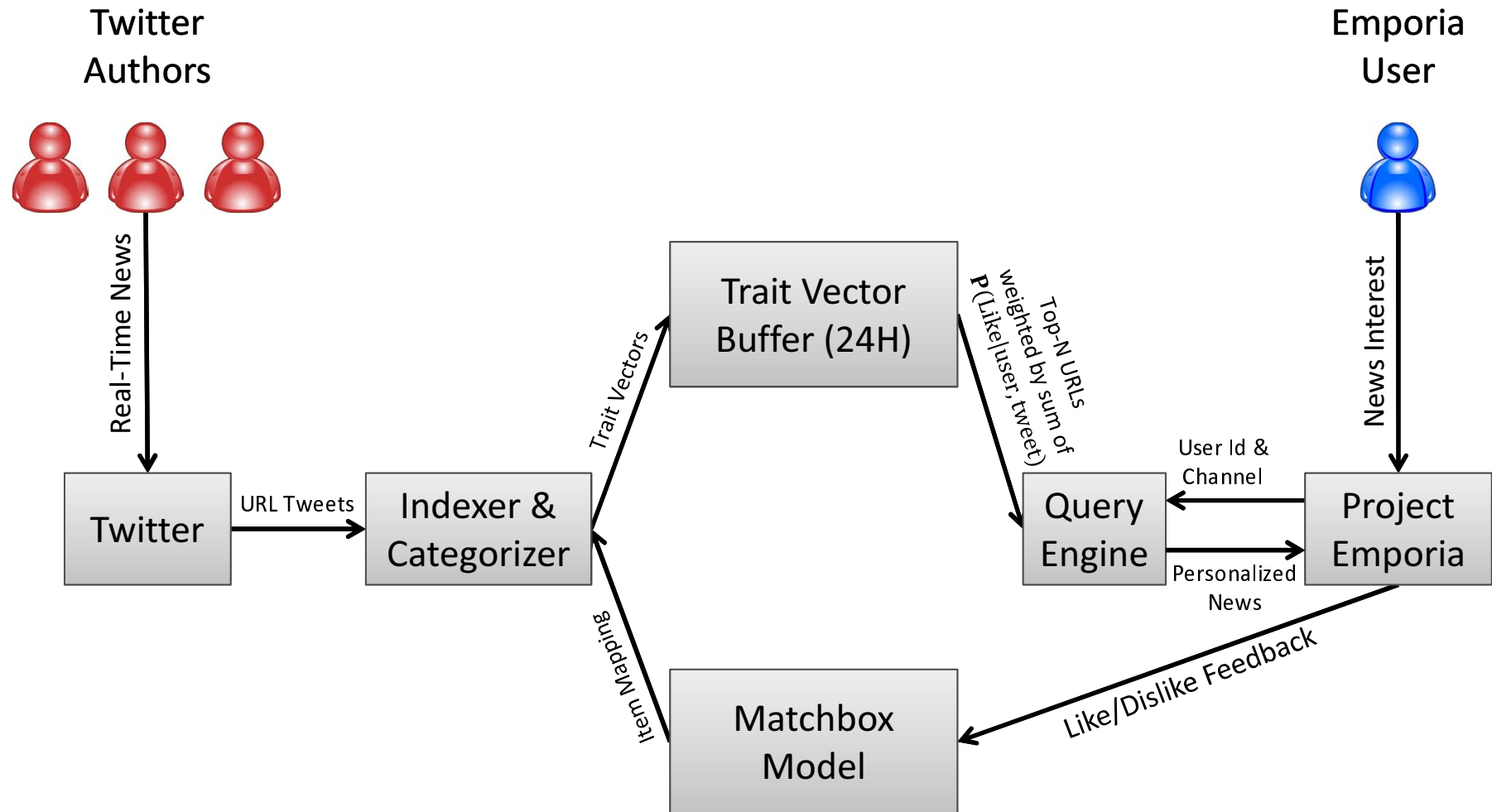


Open up the world of the social real time web.

PROJECT EMPORIA

DEMO

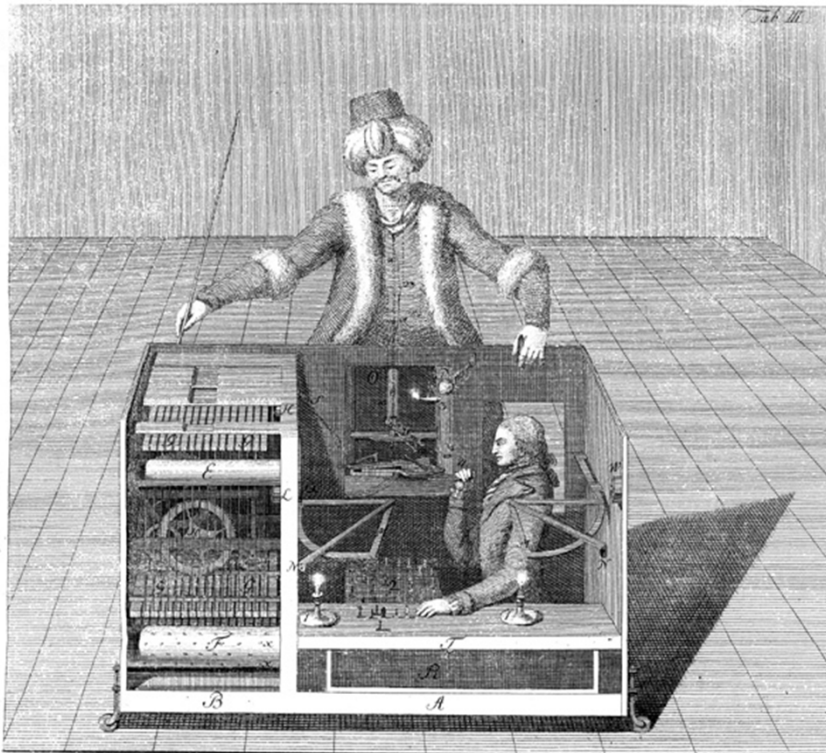
Project Emporia Pipeline



Leveraging the Wisdom of the Crowd

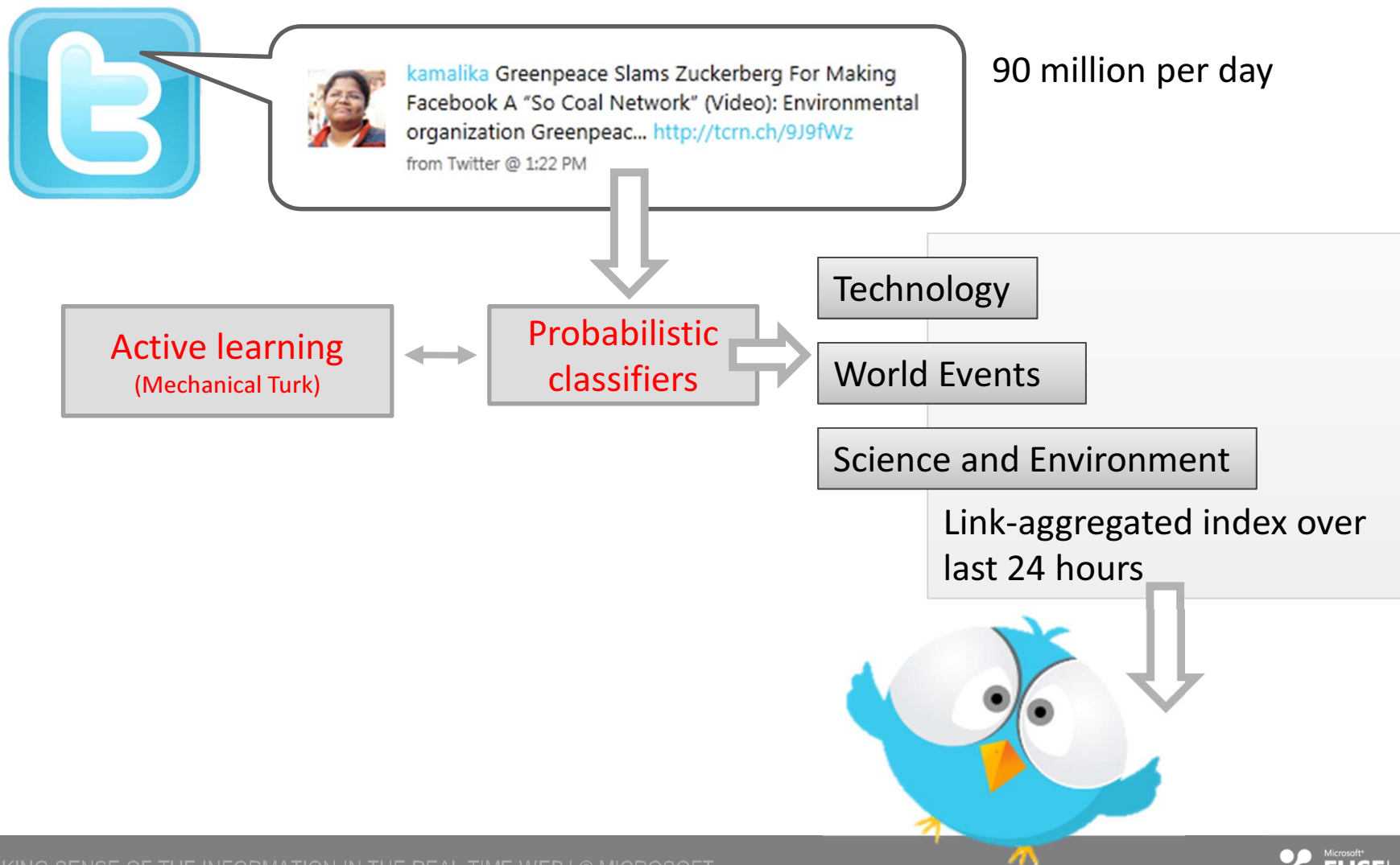
CLASSIFIER TRAINING

What is Mechanical Turk

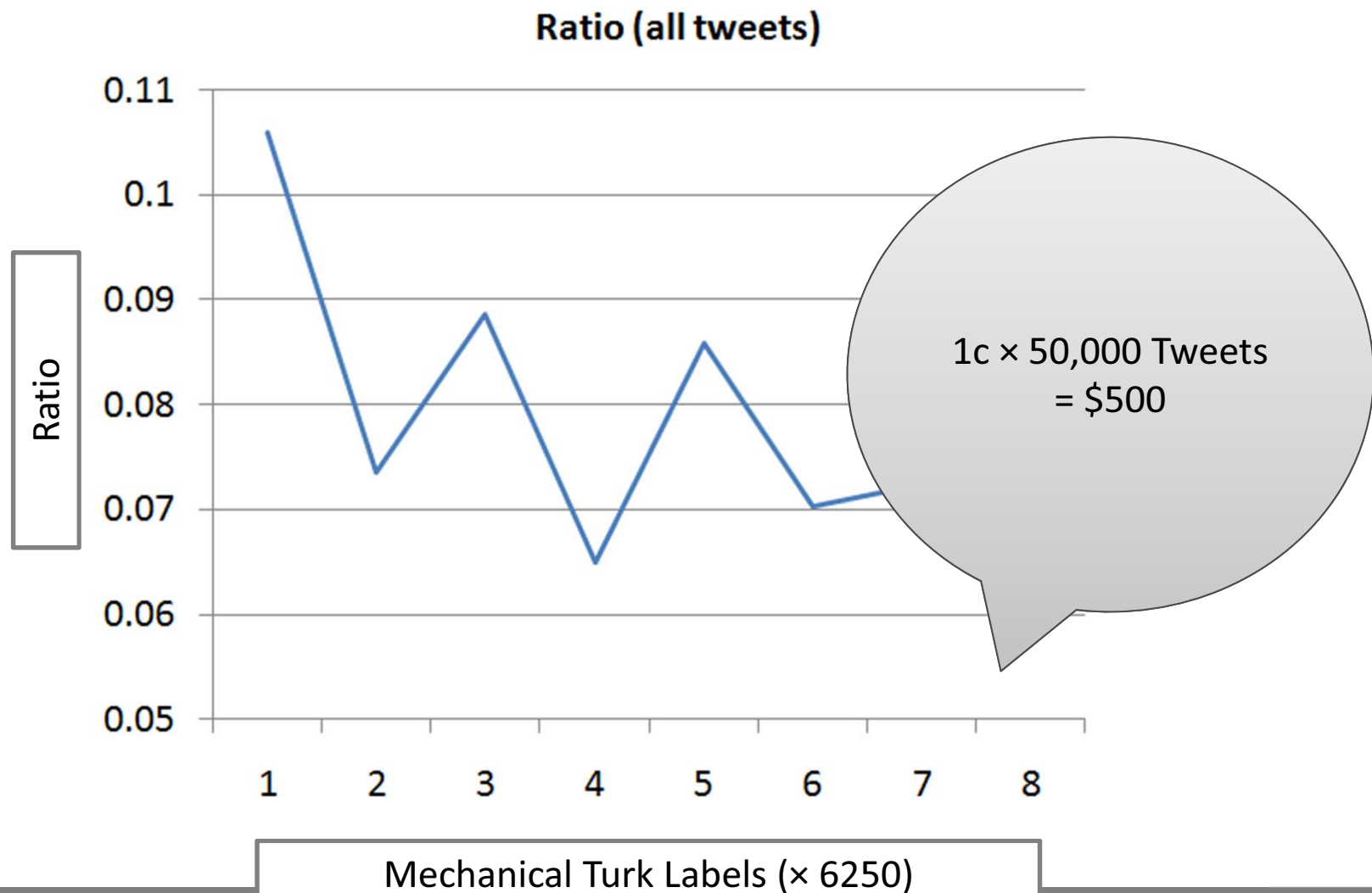


- Human Intelligence Task
- Pay per job (+bonus)
- ✓ Fast turnaround
- ✓ Large Marketplace
- Noisy Results
- Fraudsters

In Project Emporia



Learning Performance



Crowdsourcing Relevance

MATCHBOX RECOMMENDATIONS

ID=22549

Age<25

Student

Female



Drama

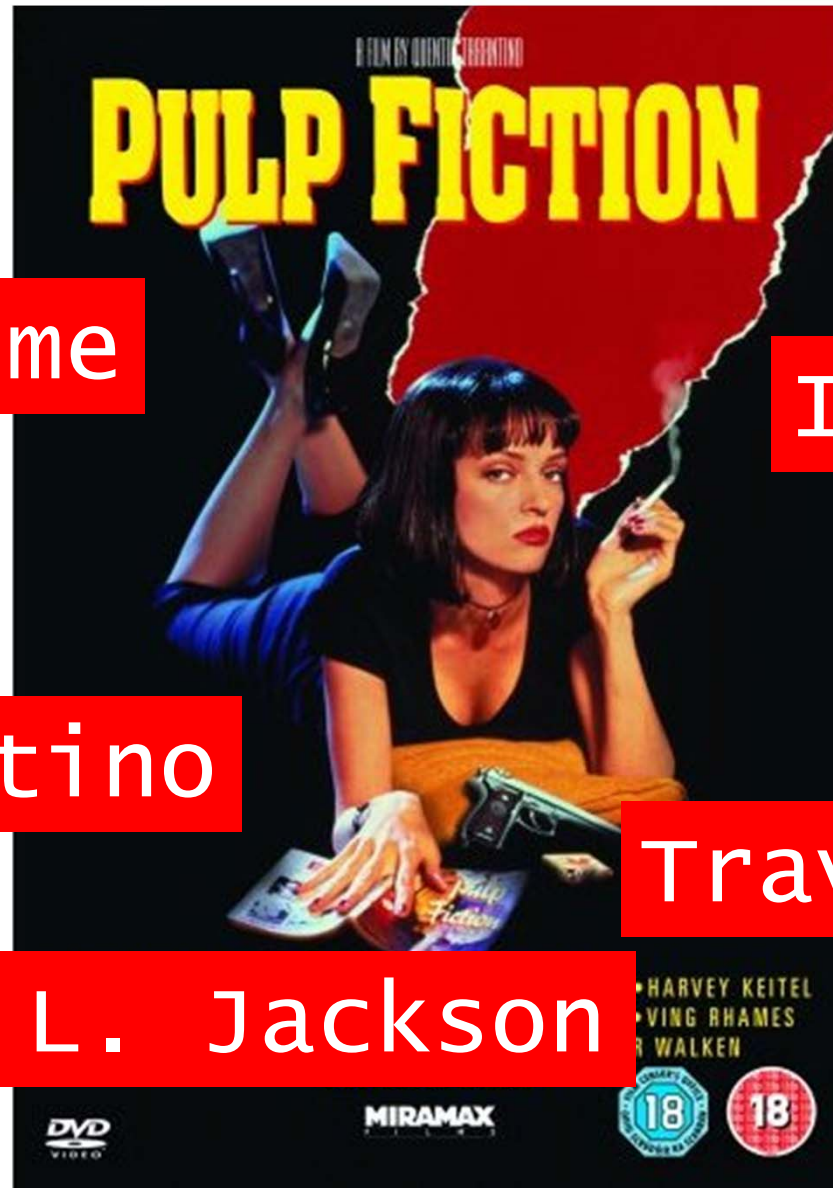
Crime

ID=2345

Tarantino

Travolta

Samuel L. Jackson



Training...



ID=22549

Age<25

Student

Female

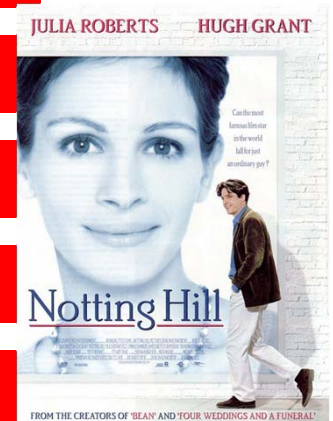
Julia Roberts

Hugh Grant

ID=5432

Comedy

Romance



Prediction



ID=22549

Age<25

Student

Female

ID=9765

Eva Green

Daniel Craig

Action



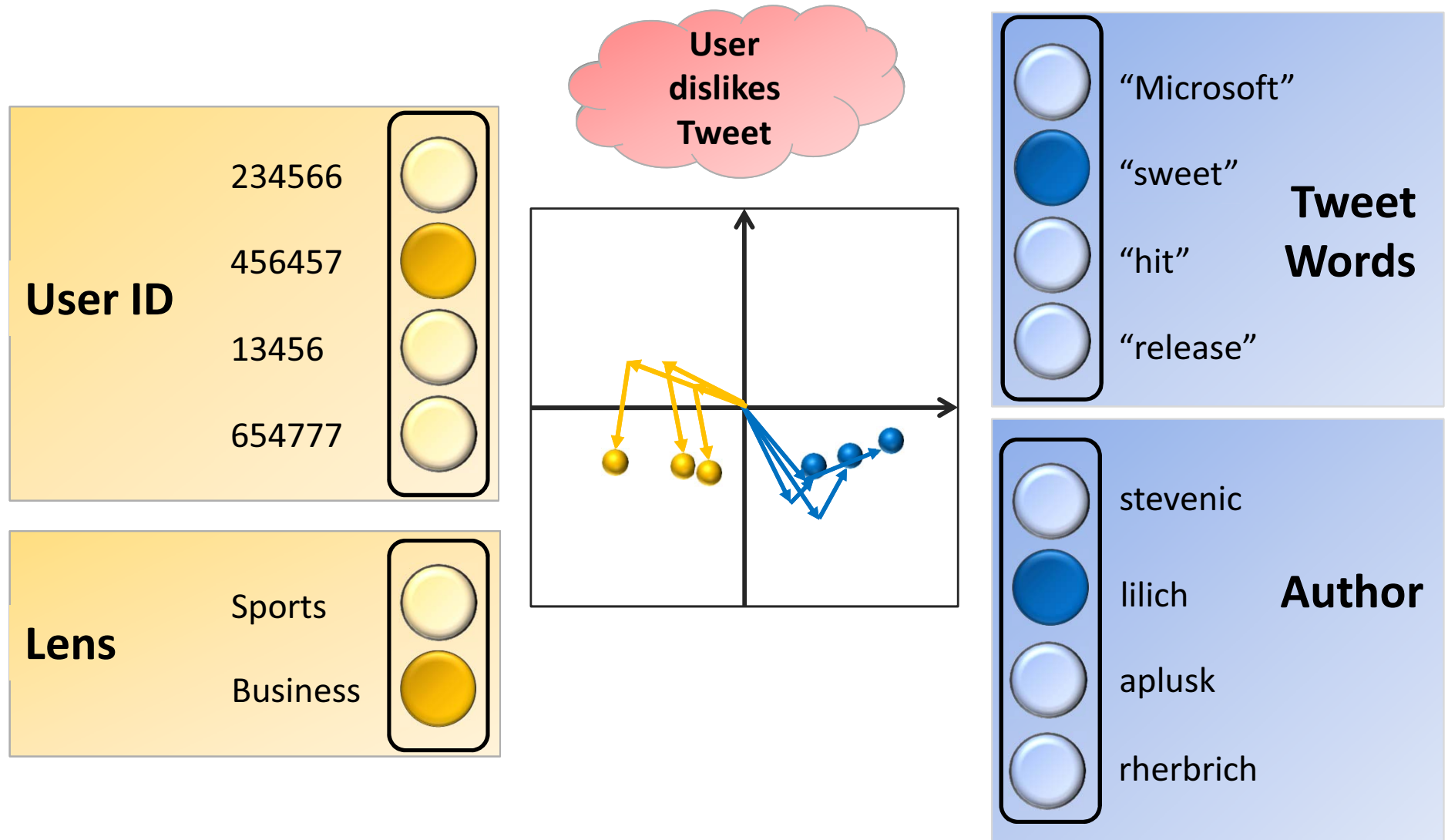
Collaborative Filtering

Features
Allow
Generalisation

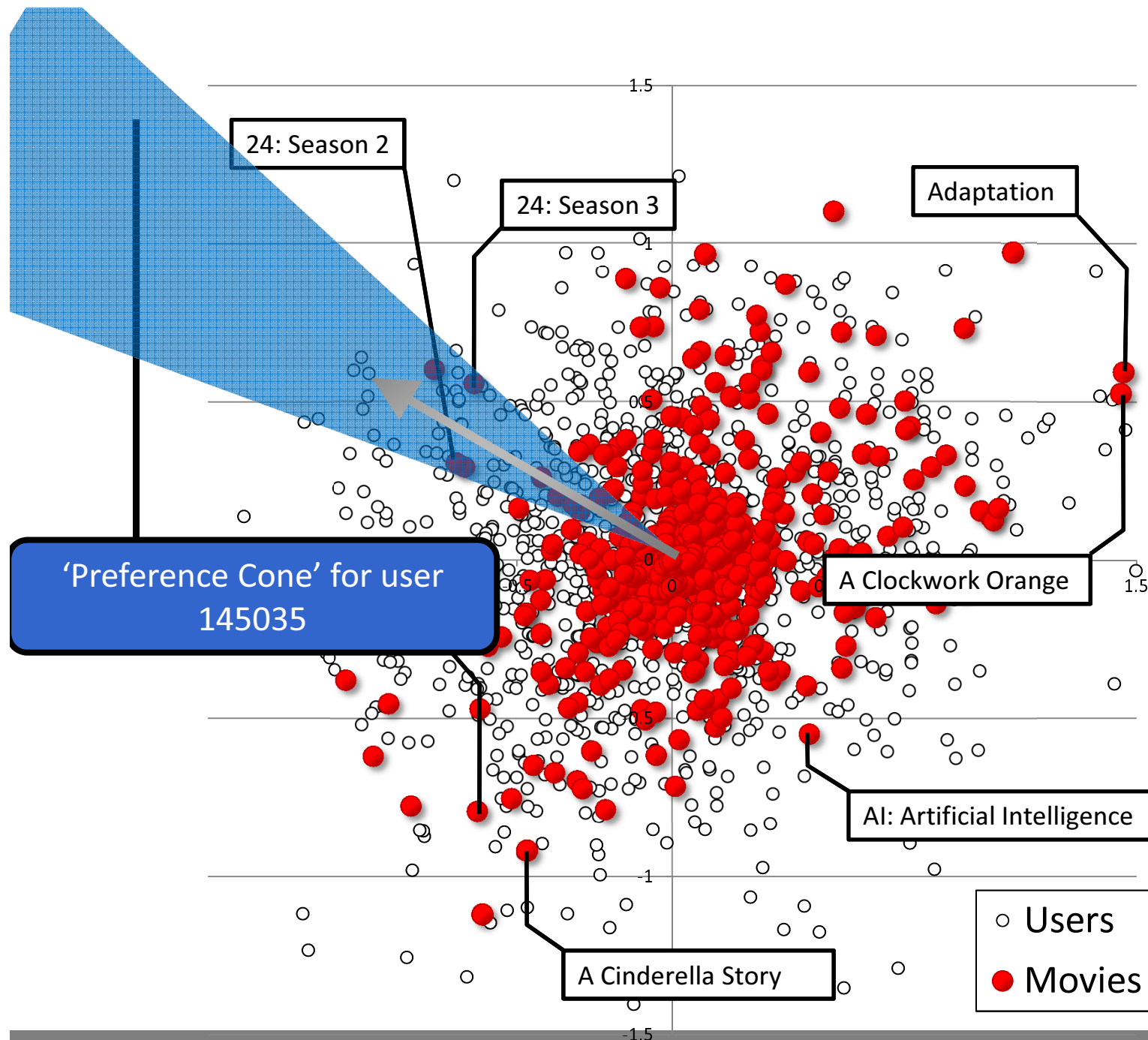
Users

Items

Recommender System: MatchBox



User Item Trait Space



SUMMARY

Social Real-Time Web

- Pivotal moment – relevance is the next big challenge
- Combining human and computational intelligence is key

Project Emporia

- Alpha Release from Microsoft Research FUSE Labs
- Leverages the power of social networks:
 - Content Creation (Twitter, RSS)
 - Content Filtering (Mechanical Turk)
 - Content Recommendation (Emporia Users)

Go play at www.projecttemporia.com

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technology world events entertainment sport business & finance science & environment lifestyle politics

Top 25 stories @ 8:47 AM

- Facebook Gives App Developers a Cool New Tool NEW
tweets 277
- iPhone Screen Replacement, iPhone Repair Specialist in Sydney, Nobody can fix it? Bring... NEW
tweets 182
- Google Docs Editing Goes Mobile NEW
tweets 140
- Editing your Google Docs on the go - Official Google Docs Blog NEW
tweets 110
- Netflix CEO: Long-Form Video Isn't Meant for Mobile (or iPads) NEW
tweets 95

Welcome to Emporia

Emporia determines the TOP stories being shared NOW on Twitter and categorizes them so you can read, vote, or share them with friends.

- 1 Click on a story on the left to read more
- 2 Share a story via email, Facebook or Twitter
- 3 Vote* and get more relevant top stories to match your taste
- 4 Click refresh ↻ to view the latest stories and apply your votes


* You'll get prompted to sign-in so we can save your votes.


feedback

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personalized news delivered in small bites


Jurgen Van Gael | profile | sign out

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[science & environment](#)
[lifestyle](#)
[politics](#)

Top 25 stories @ 8:47 AM




Facebook Gives App Developers a Cool New Tool

relevance


HP Unveils Its Own Brand of Video Conferencing Software and Hardware - NYTimes.com

relevance




WeeklyPoll: Microsoft's 'To The Cloud' TV Campaign - ReadWriteCloud

relevance



Orb TV aims to deliver streaming video sites Google TV can't | Crave - CNET

relevance



Kinect data massaged into retro-futuristic 'Box Cloud,' iPad tilts its way into the action --...

relevance

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* You'll get prompted to sign-in so we can save your votes.



Share




feedback


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