



ERC WEEK

ERC's 10th anniversary

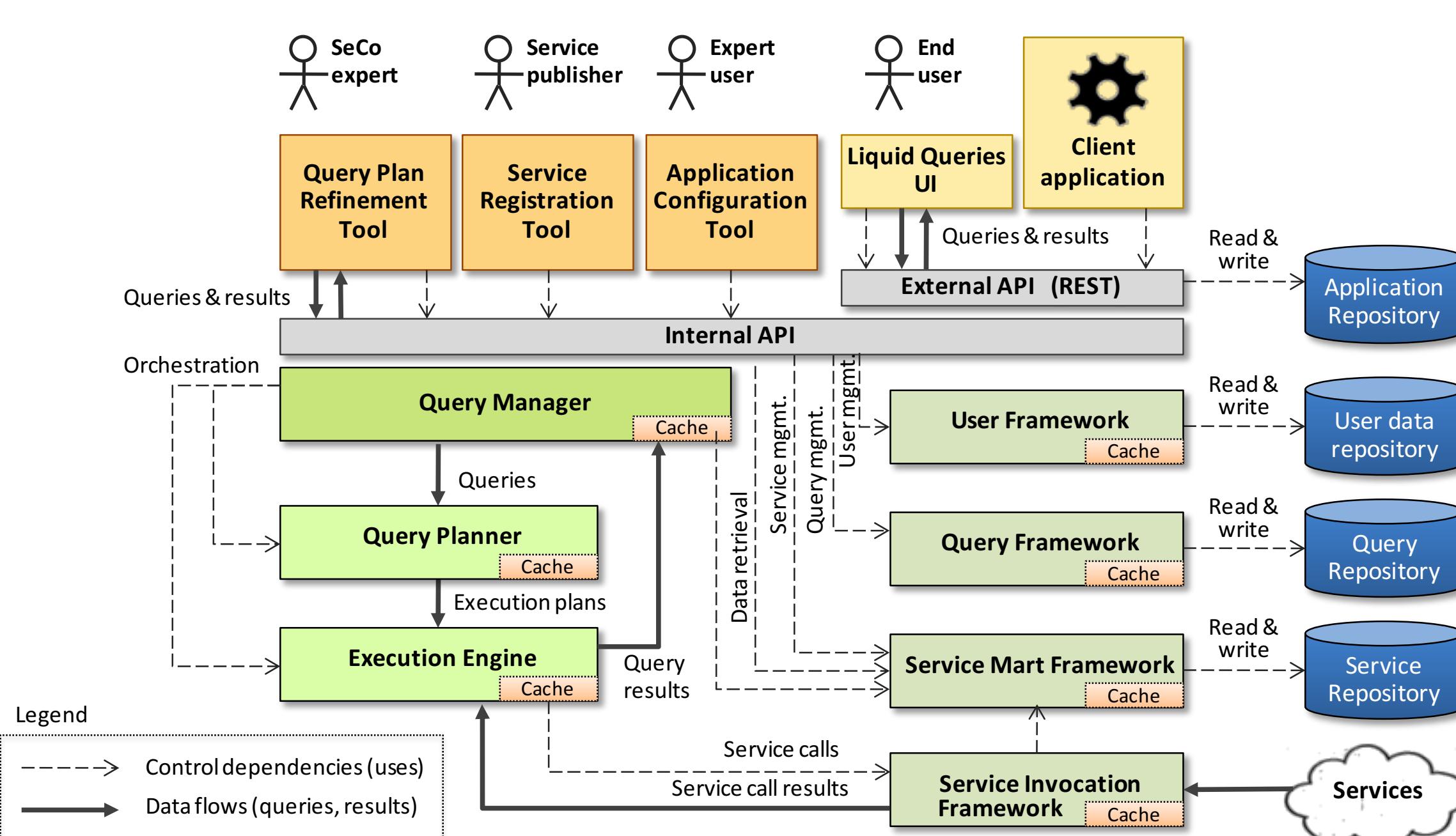
Search Computing (SeCo)

Stefano Ceri

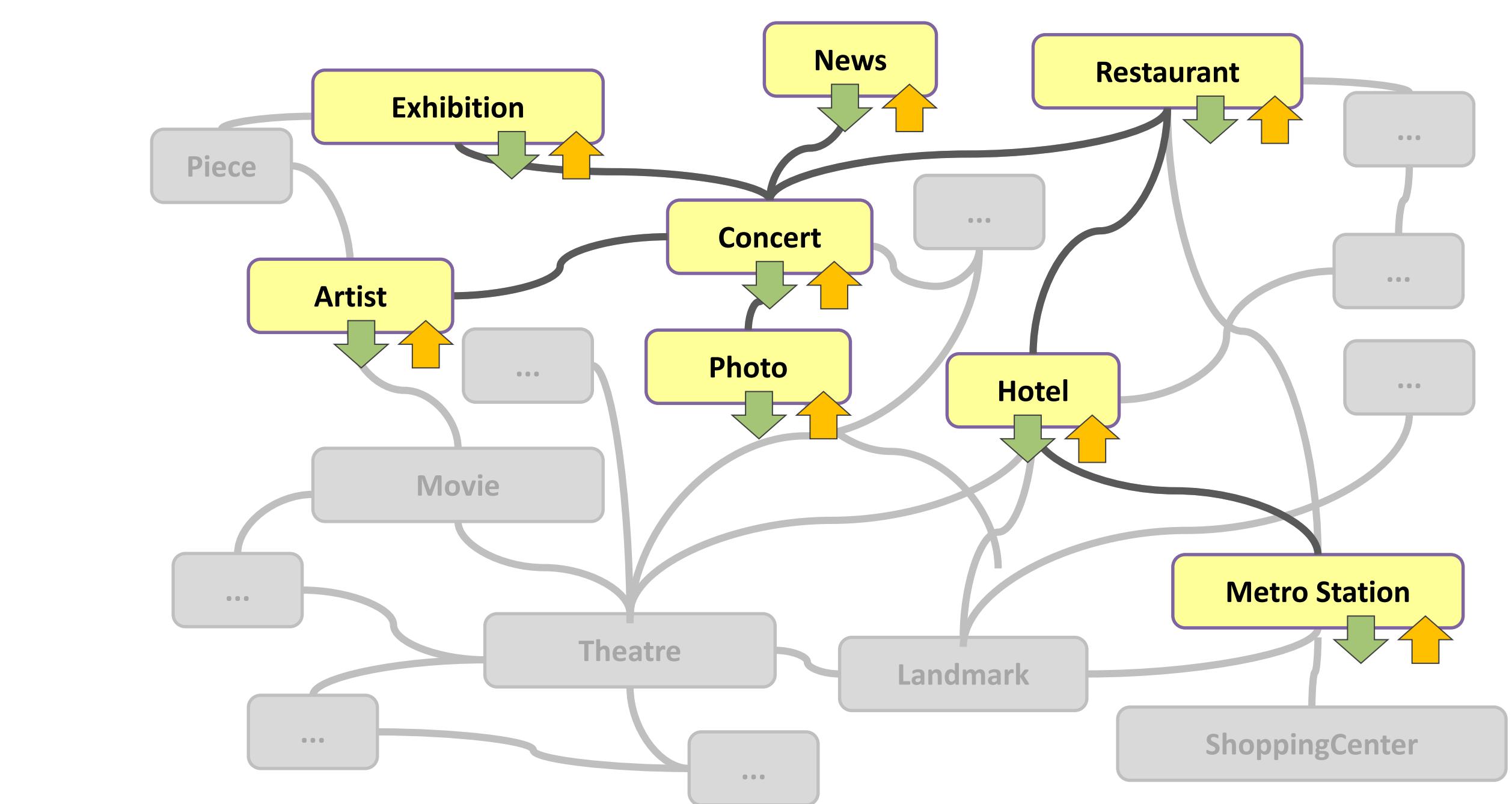
DEIB (Dept. Of Electronics, Information and Bio-engineering)

FOCUS: build theories, methods and tools to support search-oriented multi-dimensional queries

- Given a **multi-domain** query over a set of **search services**
- Build global solutions by integrating data produced by each service
- Rank global solutions according to a global rank function and output results in rank order
- Support user-friendly query definition and result browsing
- Support exploratory search by adding search domains during the search process



ARCHITECTURE OF SEARCH COMPUTING



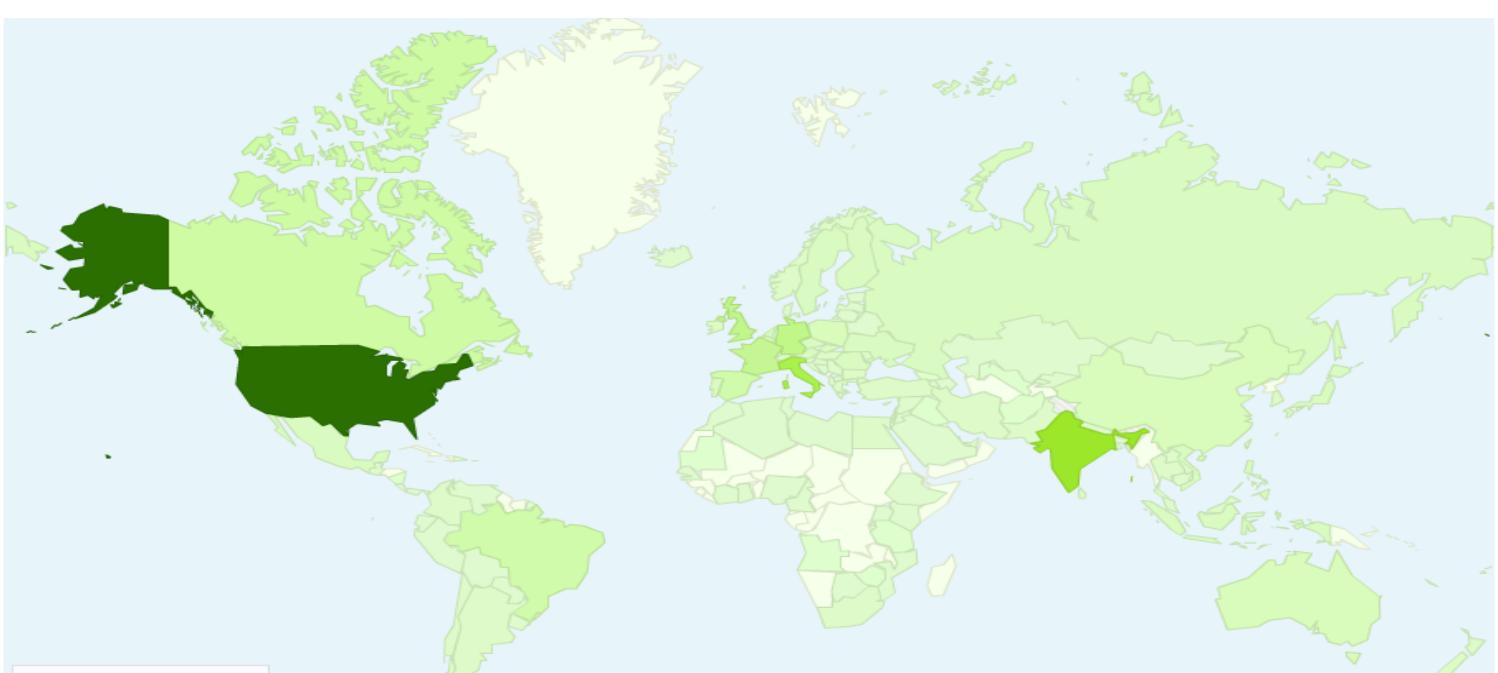
USER INTERACTION: LIQUID QUERIES, QUERY RESULTS (MAPS AND MULTI-DIMENSIONAL TABLES)

Concert		Restaurant		Other Events		Hotel	
Name	Dist.	Name	Distance	Name	Distance	Name	Distance
Jazz at the Rrazz Featuring Bruce Forman - Guitar With Mike Greensill	0.76	New Delhi Restaurant	0.14	Riverdance	0.22	Hilton San Francisco	0.05
		First Crush Restaurant Wine Bar & Lounge	0.15	Tricks of Light: Silent Films	0.73		
Ahmad Jamal	0.76	Arang Restaurant	0.12	Judy Butterfield Home for the Holidays Show	0.76		
		Rasselos on Fillmore Jazz Club	0.14	The Howard Stone Show!	0.91		
				Bill Fontana: Spiraling Echoes	0	1330 Fillmore Street	0.76
				Gods and Goods: Global Art and Trade	0.21		
				1330 Fillmore Street	0.76		
				The Edward Albee's Who's Afraid of Virginia Woolf? Presented by Actors	0.85		
					12/19/2009		

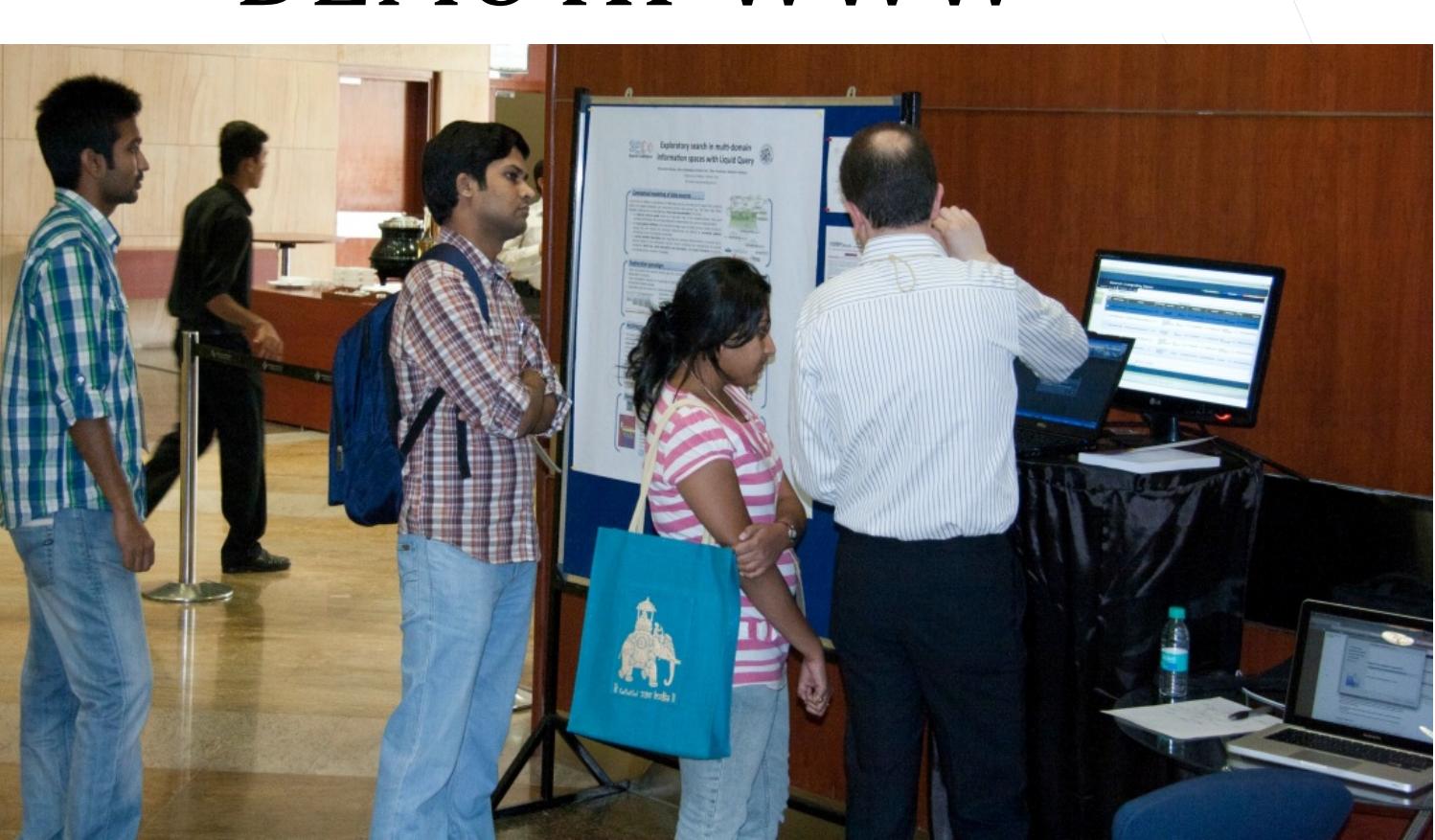
TEAM AT KICK-OFF



BLOG VIEWS



DEMO AT WWW



SeCo RESULTS:

- Research publications at major scientific venues of DB/Web communities
ACM-SIGMOD, VLDB, WWW, ACM-TODS, ACM-TWEB, VLDB JOURNAL
- Several working prototypes, demos at WWW, ACM-SIGMOD
- Active Web Site and Blog
- Books about SeCo published by Springer-Verlag:
 - LNCS 5950: Search Computing Challenges and Directions (2010)
 - LNCS 6585: New Trends in Search Computing (2011)
 - LNCS 7538: Broading Web Search (2012)
 - DCSA: Web Information Retrieval (2013)
- Two US Patents (2012, 2014)

SEARCH COMPUTING BOOKS

