

Digital Experience:

Better Than Being There.

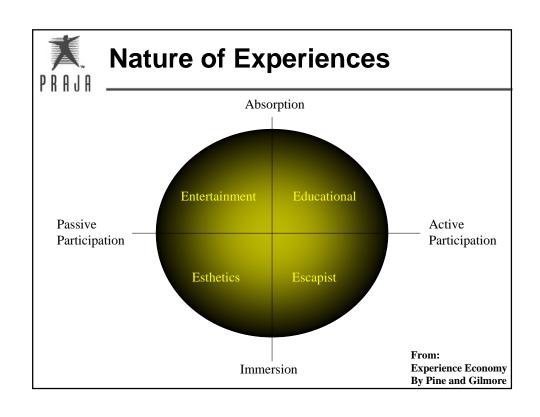
Ramesh Jain jain@praja.com

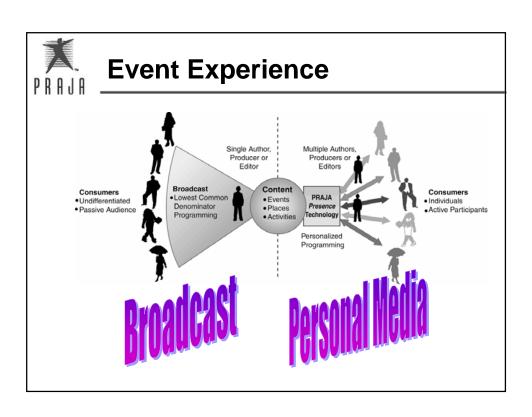
November 4, 2000



Experience

- Direct Observation and Participation
- Two Modes
 - Being there
 - Immersed in the environment
 - Can use your 'senses'
 - Can decide which 'view' of the environment to experience
 - Remote experience
 - Sensors
 - Model of the environment
 - Communication medium
 - User Interaction







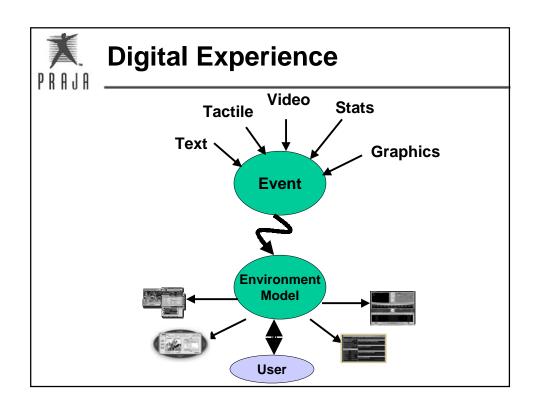
Major Inventions

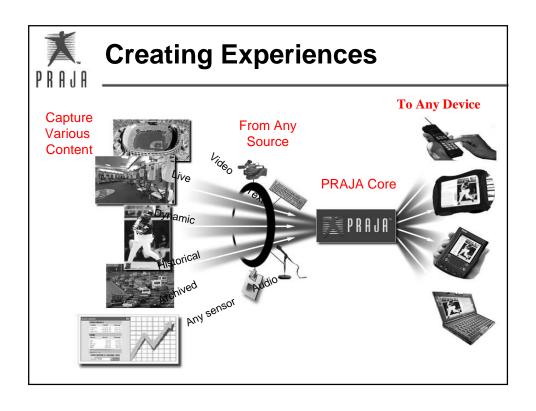
Invention	Application Impact
Languages	Communicate symbolic experiences
Written Languages	Record Symbolic experiences
Paper	Portability
Print	Mass distribution
Telegraph	Remote narrow communication
Telephone	Remote analog communication
Radio	Analog broadcasting of sound
Television	Analog broadcasting of Sight and
Recording media	Analog recording
Digital processing	Machine enhancement and processing
Internet	Multimedia communication



Components of Experience

- Assimilation of sensed information to form Environment model.
- Communication of model and sensed data.
- Participation or Interaction environment for a user.
- Presentation of the correct 'view' to the user.







Towards Experience on Internet

Data

Information

Experience

Experience:
Direct observation or participation

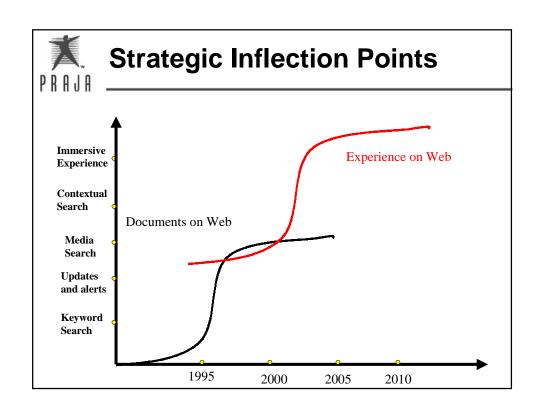
Search, specialized sources

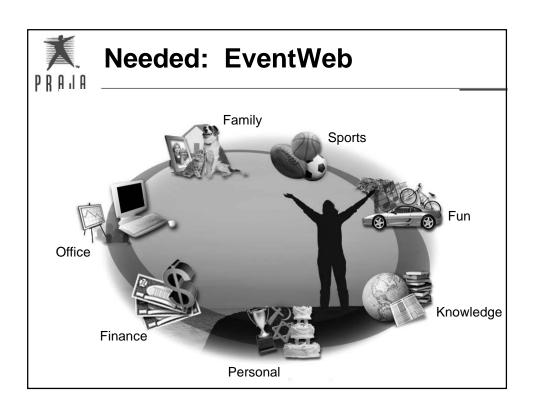
Data: Text, Statistics, Sensors (Video)



The Current DocumentWeb:





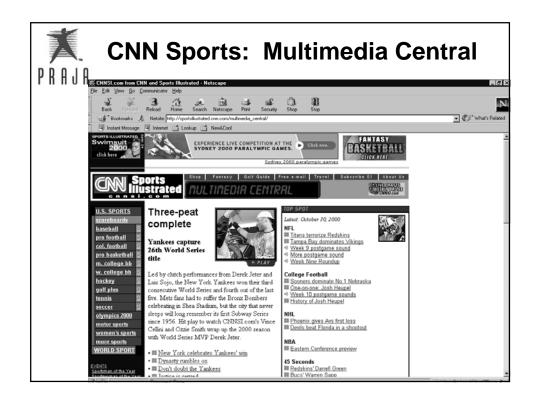


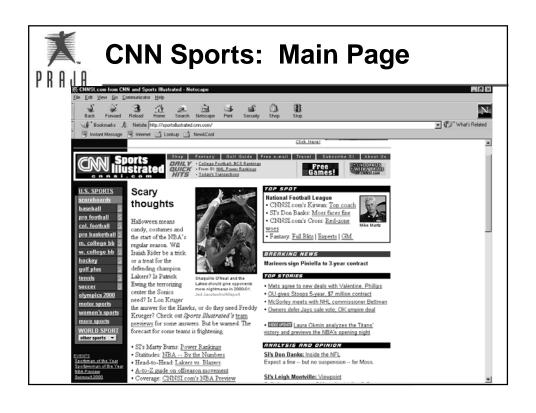


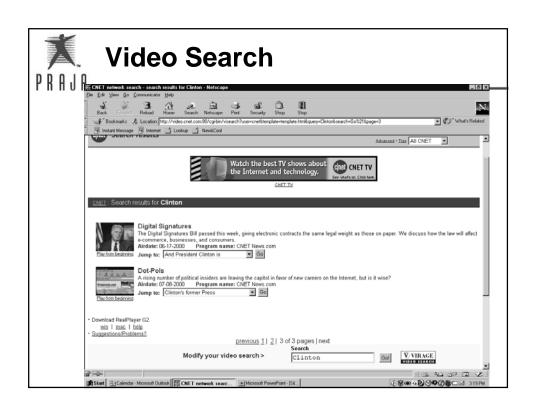
Maximizing the Value of Content

■ Value = Assets X Reconfigurability

For both Live and Archived content.







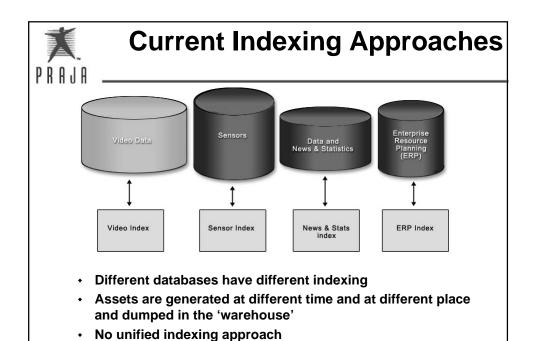


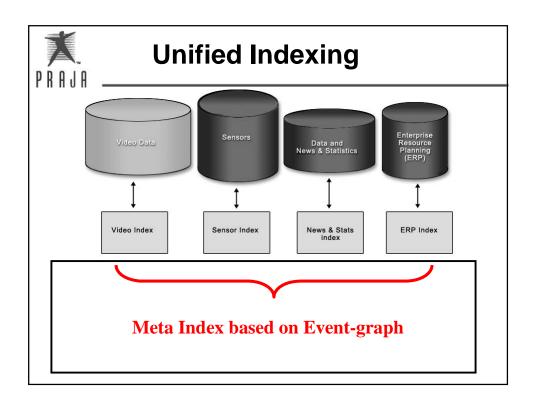


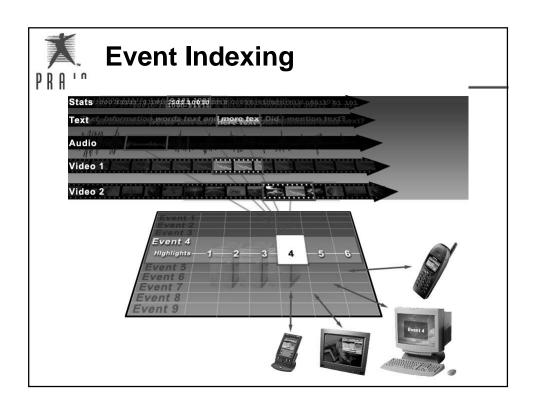
Unified Indexing

- Should not use idiosyncrasy of a medium
 - Video: time, frame number; Text: page, line; ...
- Should be independent of a medium
- Should allow indexing into all media

Event hierarchy is the best 'unified indexing'.



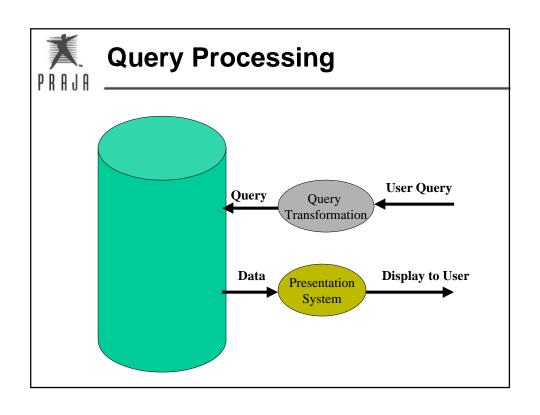


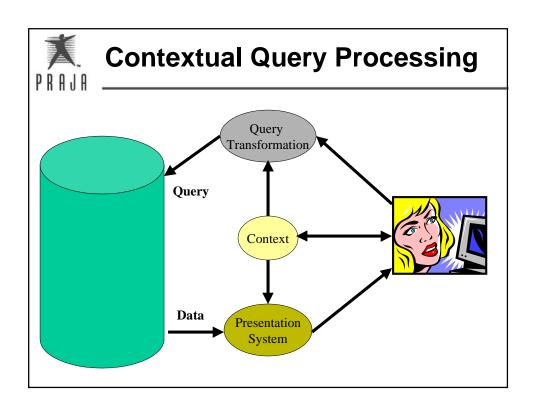


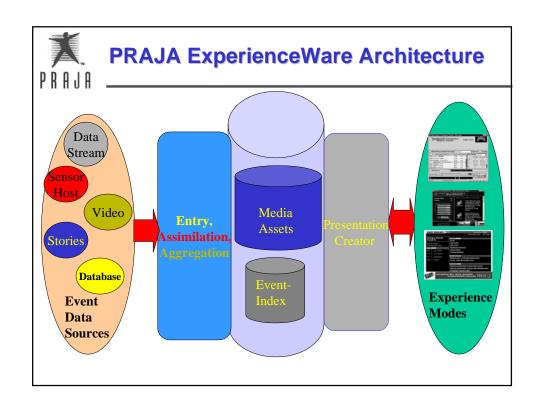


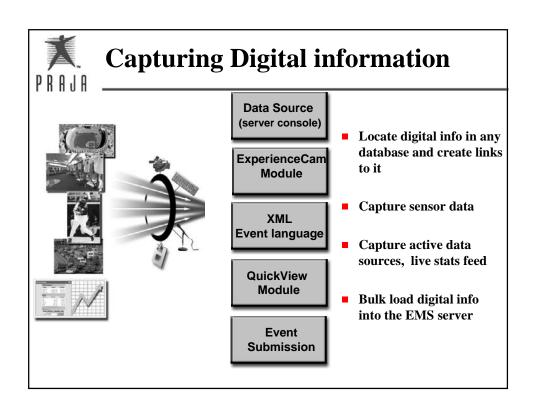
Contextual Search

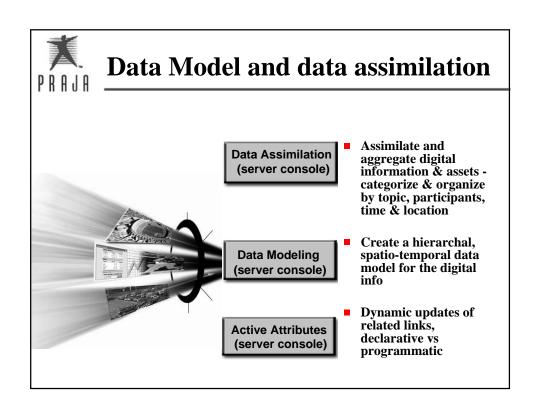
- Context = (person, location, time, situation)
- Person = (set of preferences, personal data)
- Situation = (weighted activity history)
- Contextual Search = Search in Context
- **■** Contextual Inference = Anticipation

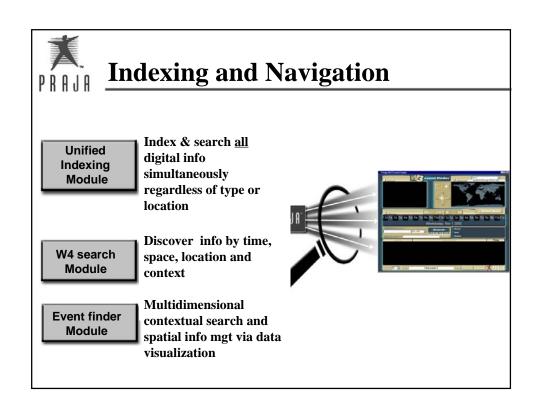


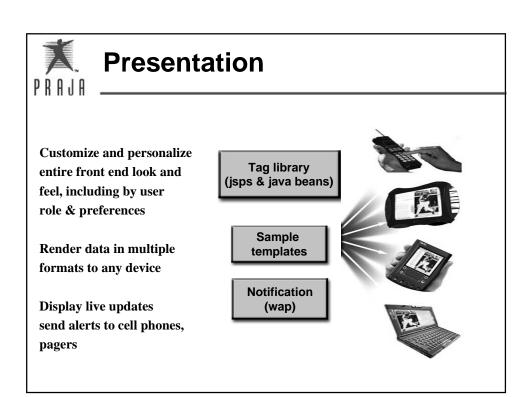


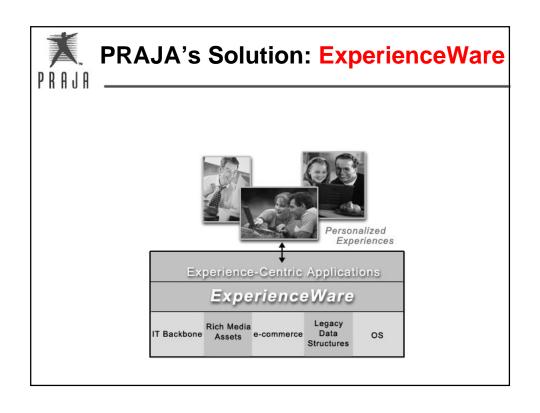


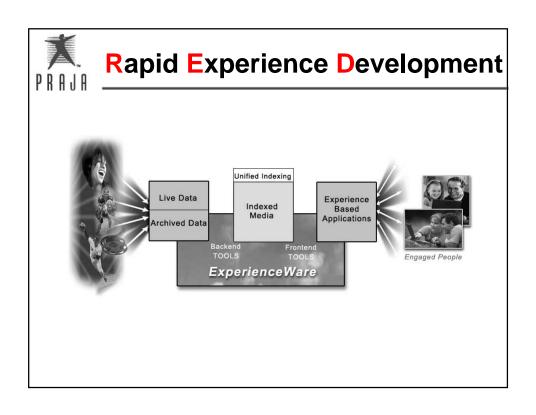


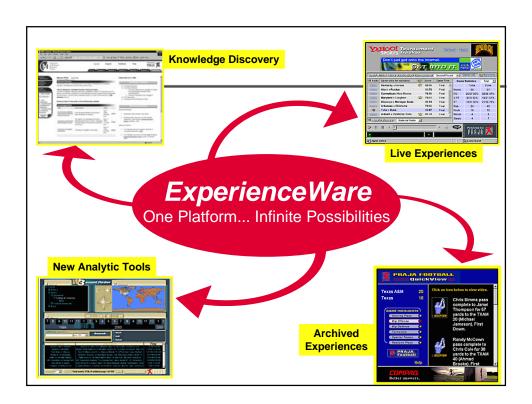




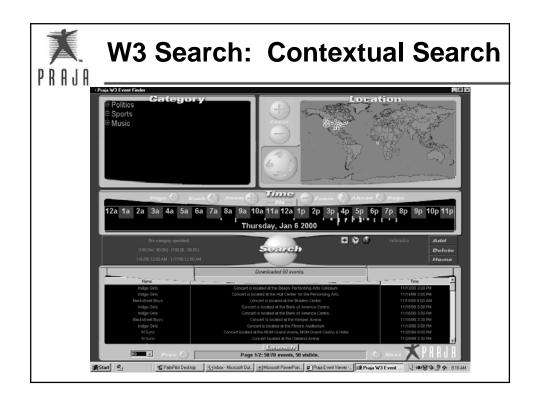




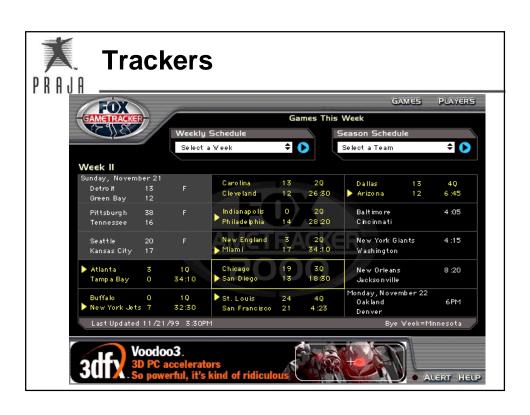


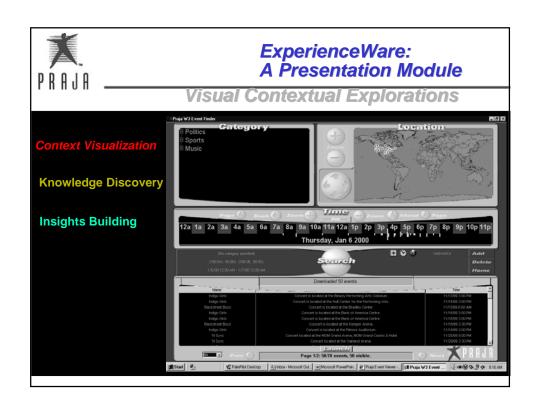


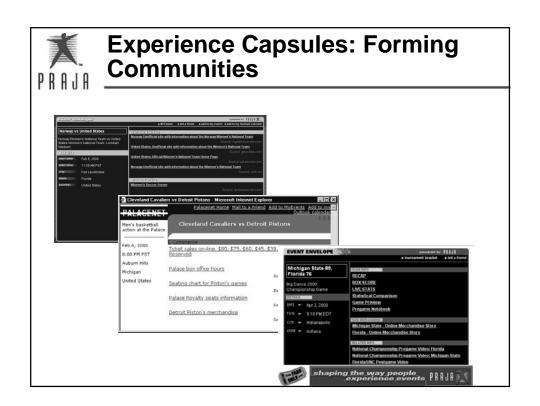


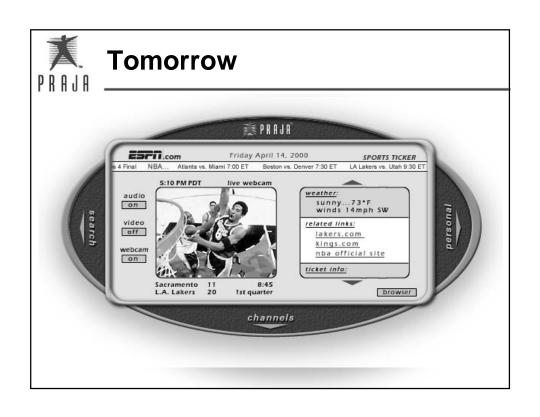


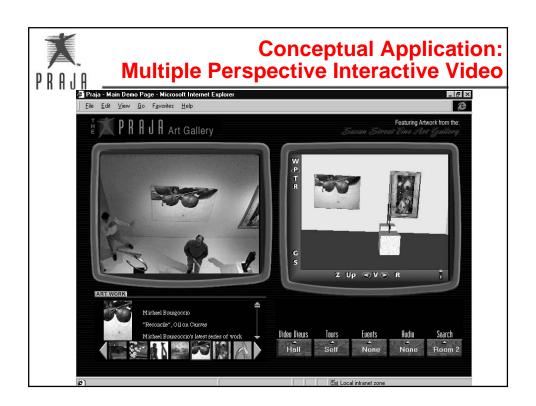


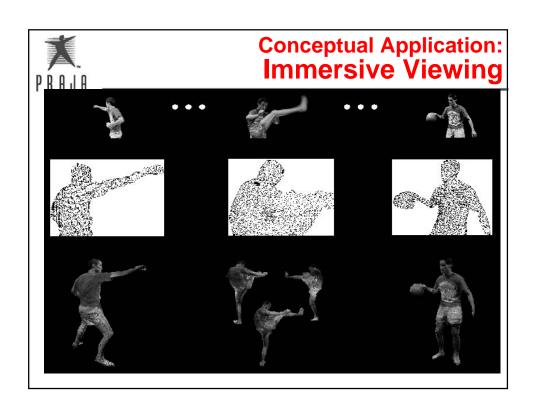




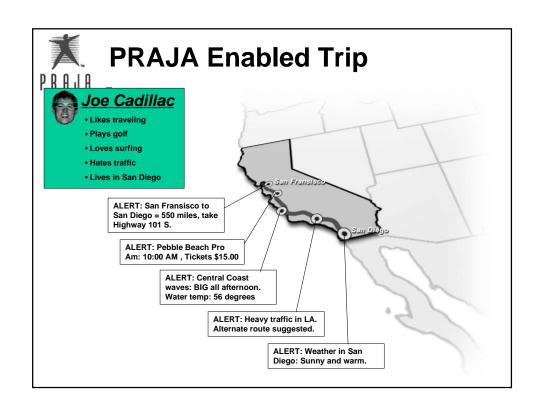


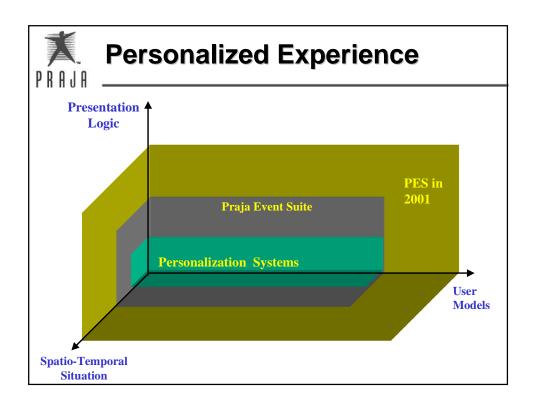


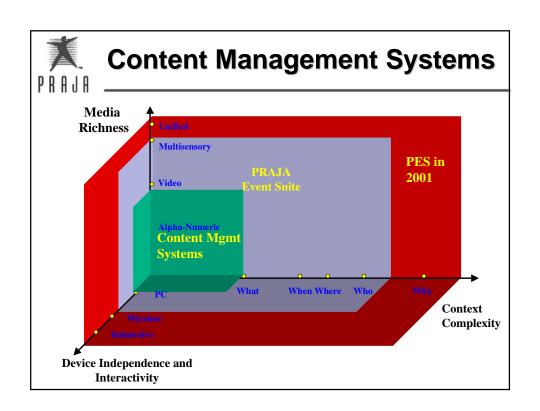














Research Issues

- Assimilation of disparate data
- Unified indexing
- Contextual approaches
- Presentation for experience

PRAJA is interested in research partnerships.

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