## The Future of Searching for Scholarly Literature

Discipline-Specific Research Databases in Web 2.0 and the Semantic Web

or

#### Leveraging the "Prescience of Artists and the Art of Science"

#### Cross-Disciplinary Research in Neuroaesthetics

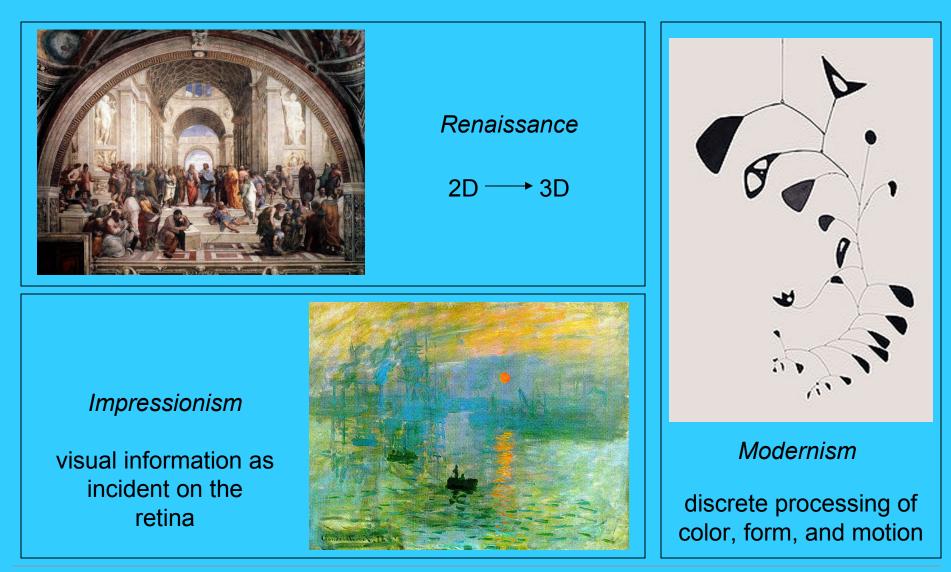
Erik Nemeth

Getty Research Institute, Los Angeles, California

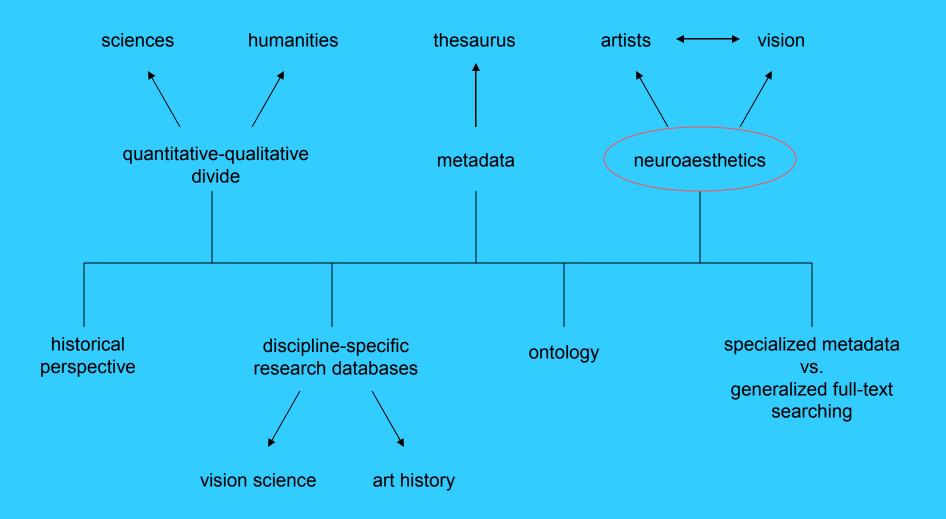
ICIC – 20<sup>th</sup> Anniversary Meeting 19-22 October 2008 Nice, France

## Leveraging the "Prescience of Artists and the Art of Science"

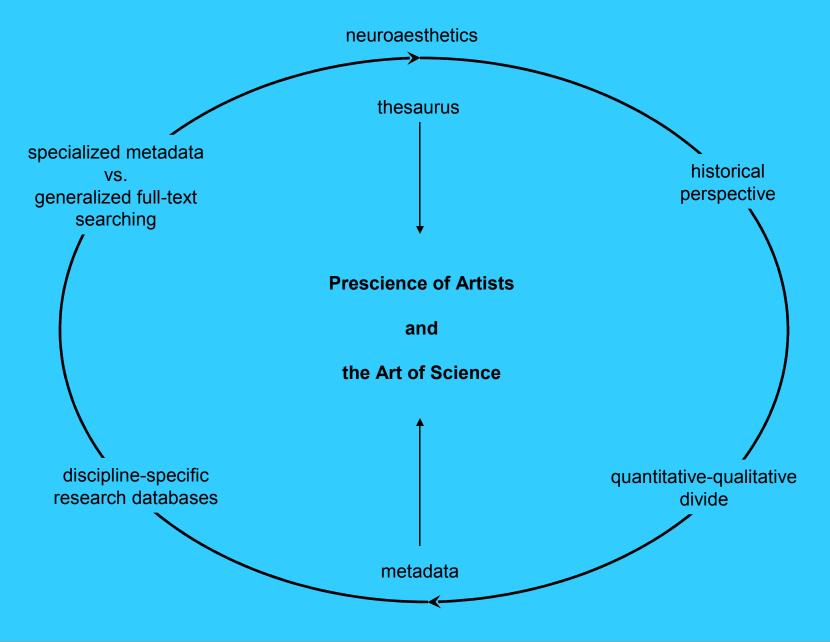
#### Cross-Disciplinary Research in Neuroaesthetics

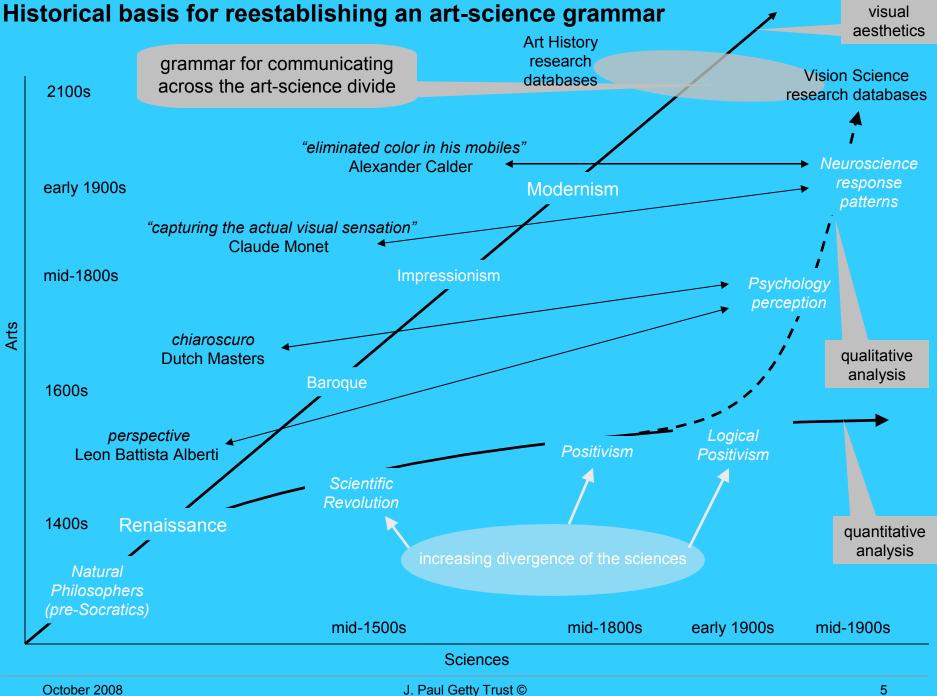


# **Outline – Modern Development of Neuroaesthetics**

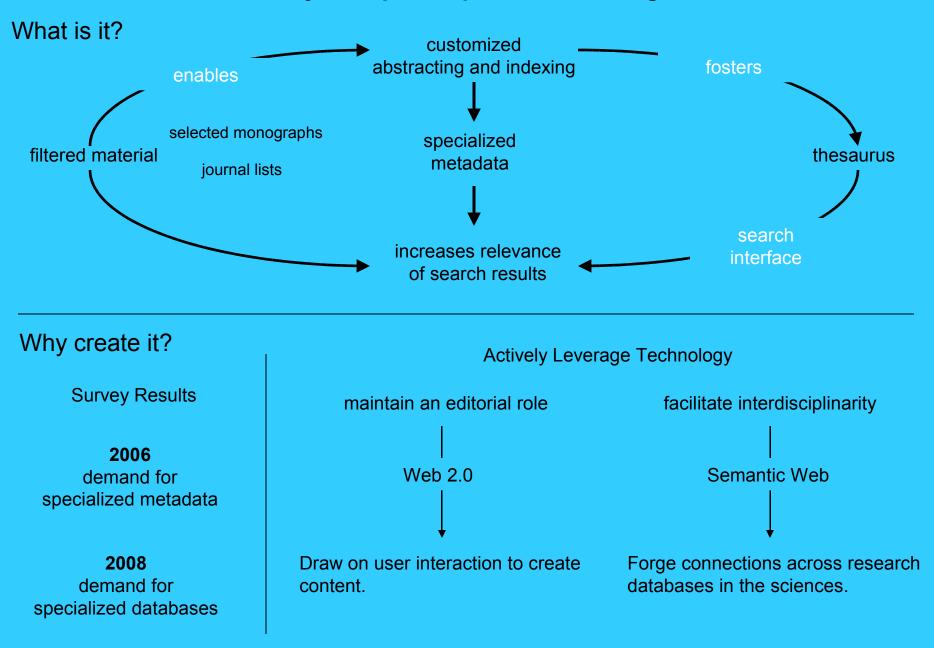


## **Outline – Preexistence of "Neuroaesthetics"**

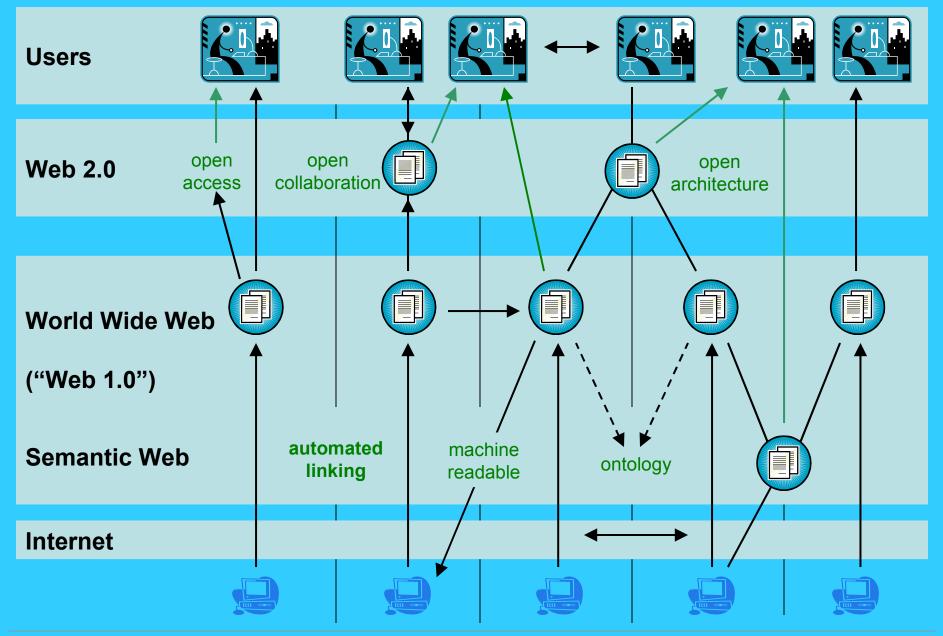




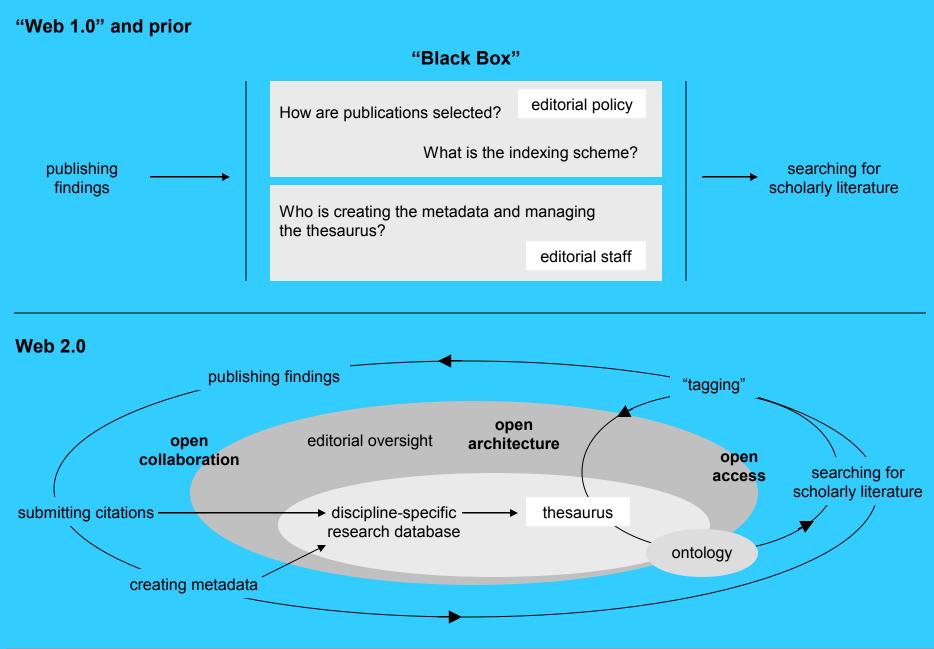
Art History Discipline-Specific Knowledge Base



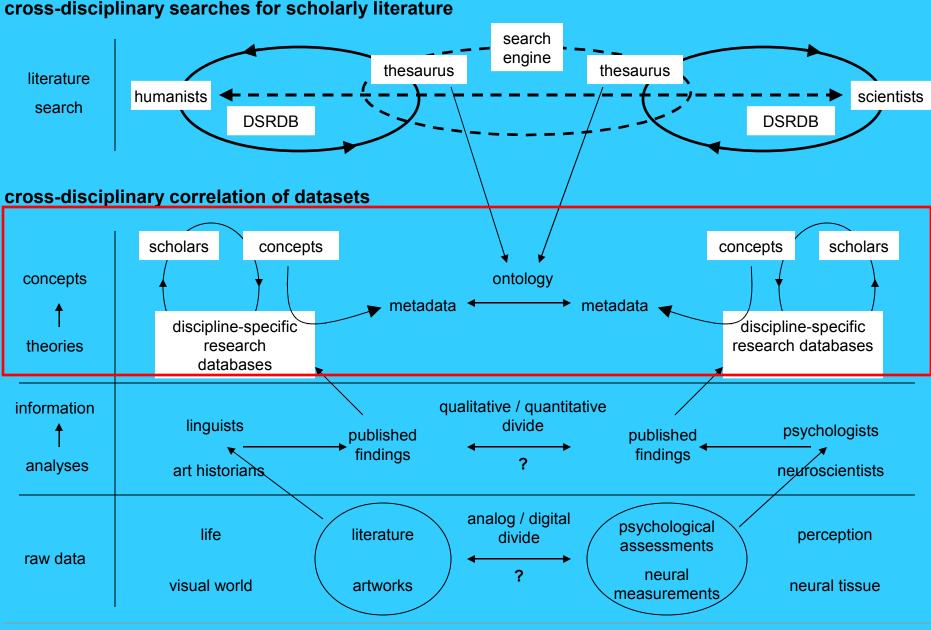
### Web 2.0 and the Semantic Web



### Participation of Scholars in the Evolving Infrastructure



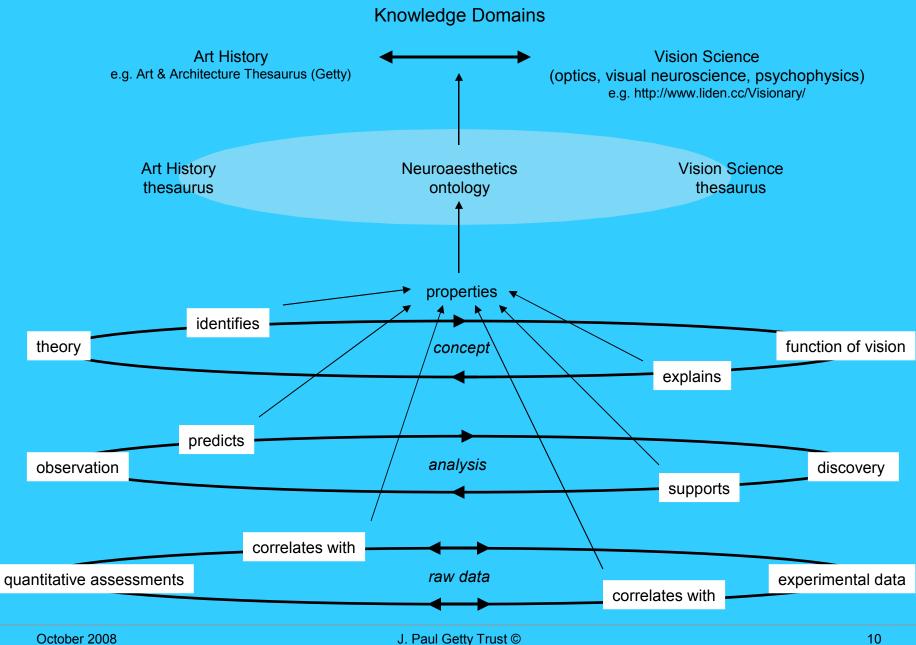
#### **Applications in the Semantic Web to Enable Interdisciplinarity**

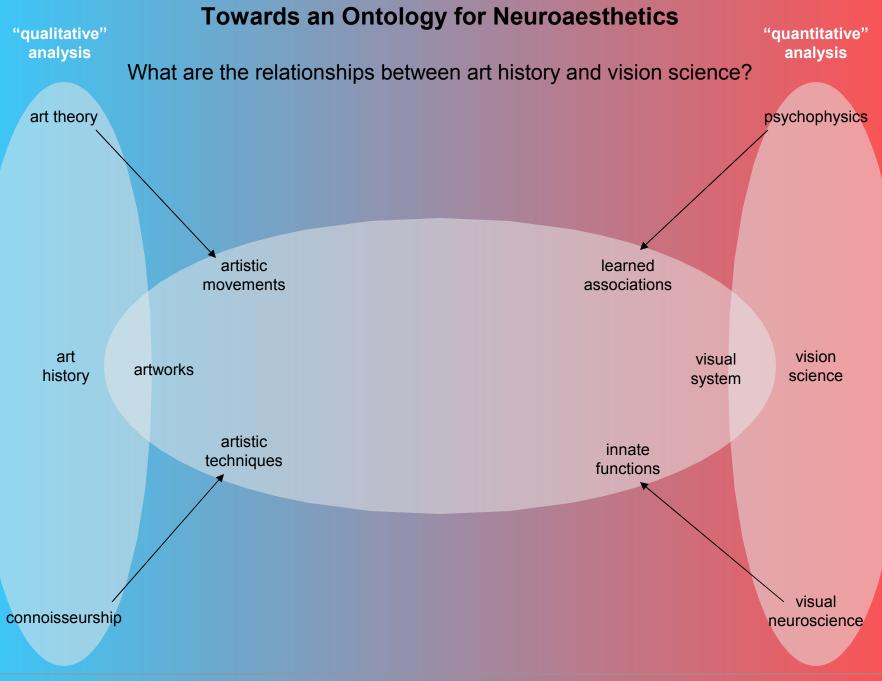


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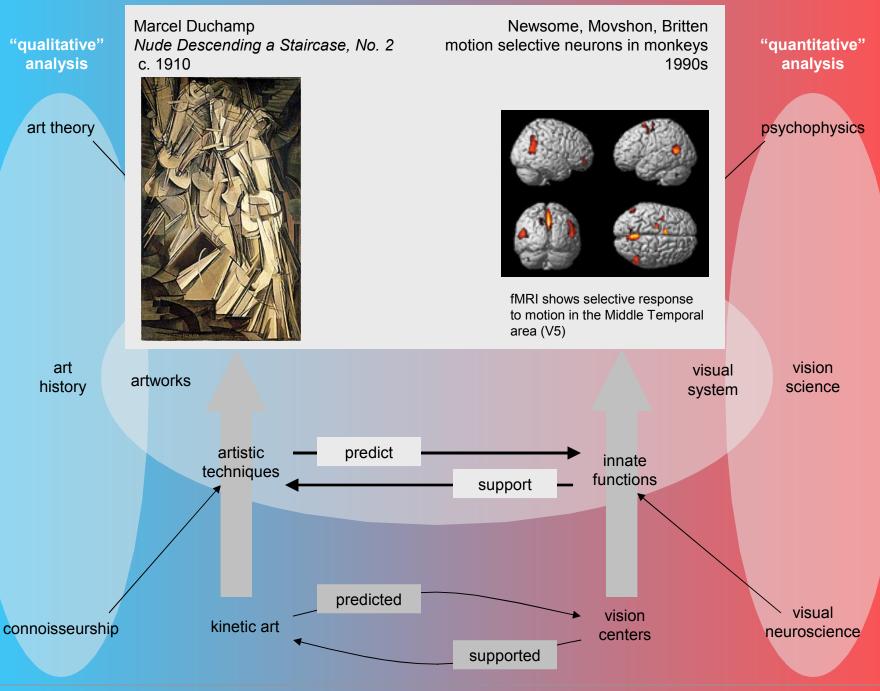
# **Developing a Cross-Disciplinary Ontology**





#### "qualitative" "quantitative" analysis analysis identified depth perspective psychophysics art theory perception explained identify artistic learned movements associations explain art vision visual artworks history science system linear size and perspectives previous familiarity interposition visual connoisseurship neuroscience Piero della Francesca psychophysics Flagellation of Christ mid 1800s late 1450s 12 October 2008

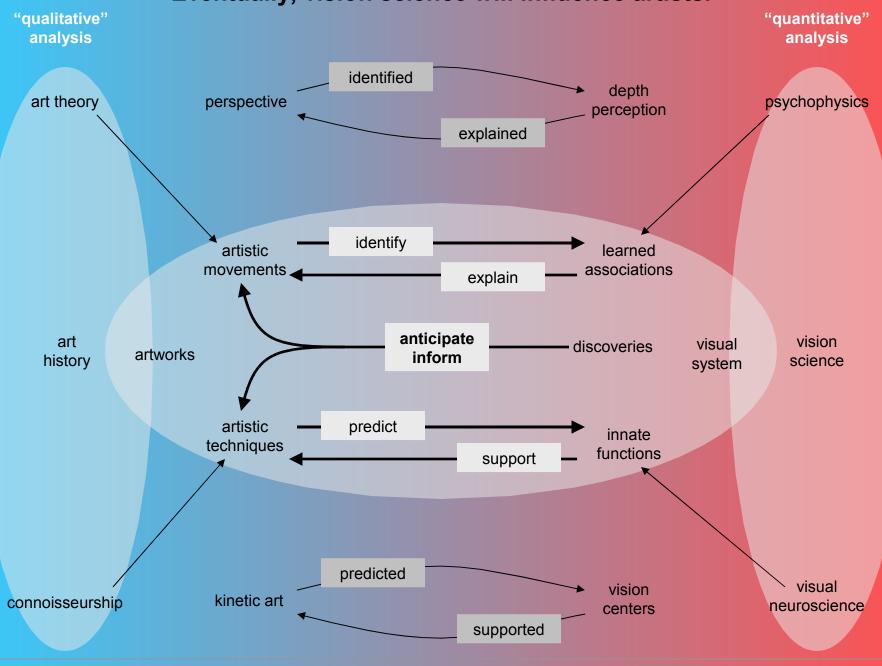
## Artists showed prescience in understanding the visual system.



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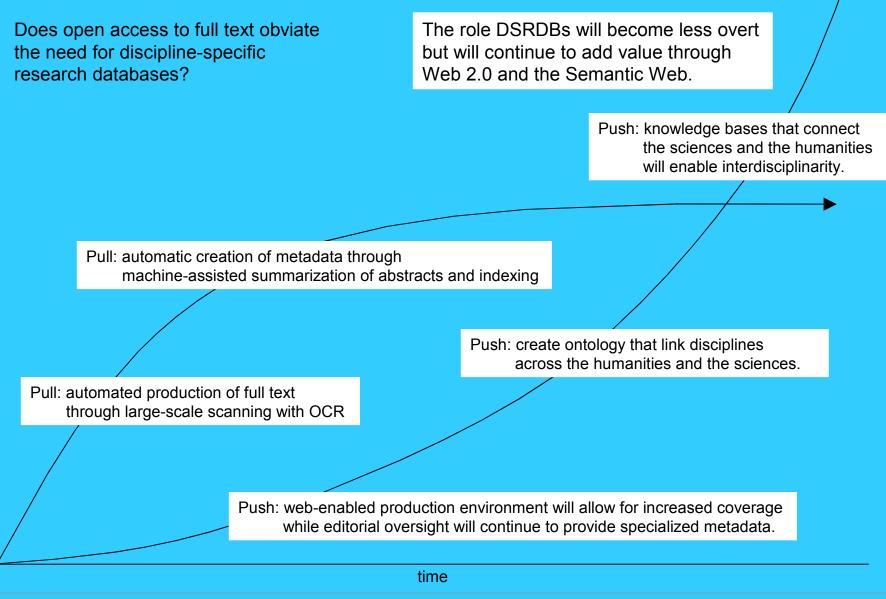
#### **Eventually, vision science will influence artists.**



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#### **Conclusion – Push vs. Pull**

Will technology undermine or sustain the role of DSRDBs?



value to scholarly research

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