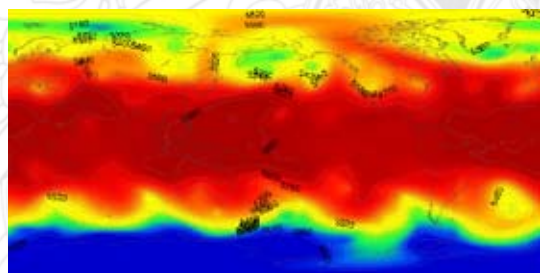


# Digital Silk Road : Reviving Silk Road Using Massive Geospatial Data

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## Data-Centric Approaches - 4th Paradigm



1. Observation
2. Theory
3. Simulation
4. Data Analysis

**Frontier**

Science & Technology

Culture

### Text-centric

Insect' s eye view = deeper  
Only focus on 'my' domain  
Traditional way of research

### Data-centric

Bird' s eye view = wider  
Have a look on other domains  
Innovative way of research

**Digital humanities : Data-centric humanities powered by informatics**

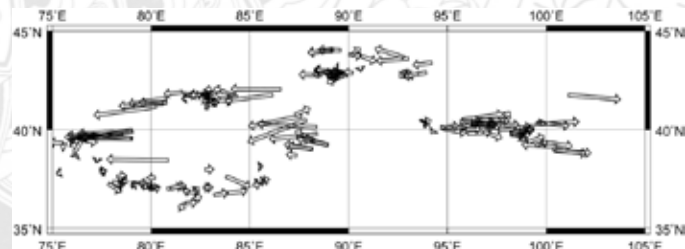
## 1. Digital excavation



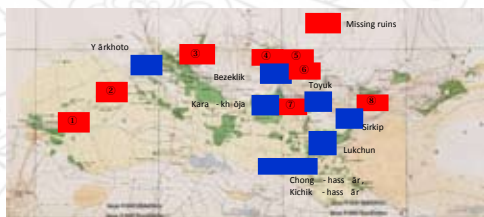
Digitization



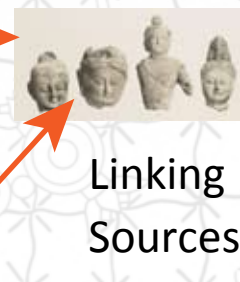
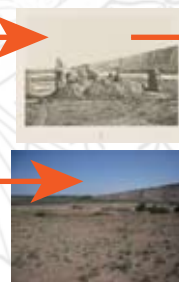
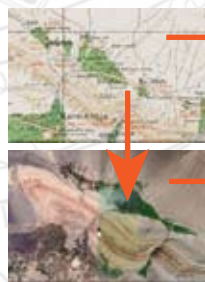
Geometric correction



Quality Control



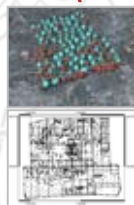
Discovery of missing ruins



Linking Sources

## 2. Virtual City

*Beijing : massive (29 bil. pixels) Bam (Iran) : Insufficient, heterogeneous data*



Manual  
Semi-auto

