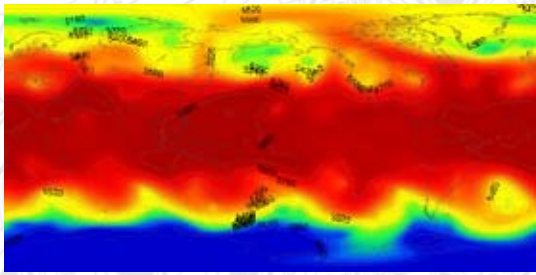


Digital Silk Road : Reviving Silk Road Using Massive Geospatial Data

Asanobu KITAMOTO, National Institute of Informatics, <http://dsr.nii.ac.jp/>

Data-Centric Approaches - 4th Paradigm



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

Frontier

Science & Technology

Culture

Text-centric

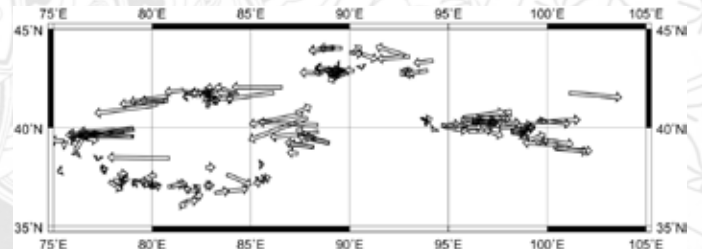
Insect' s eye view = deeper
Only focus on 'my' domain
Traditional way of research

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

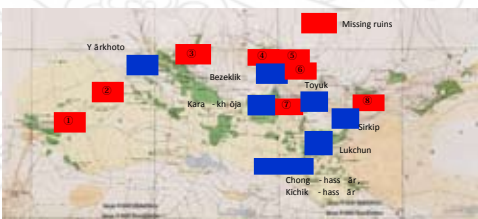
1. Digital excavation



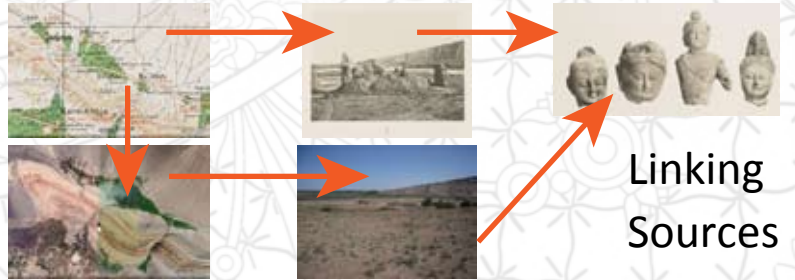
Digitization

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