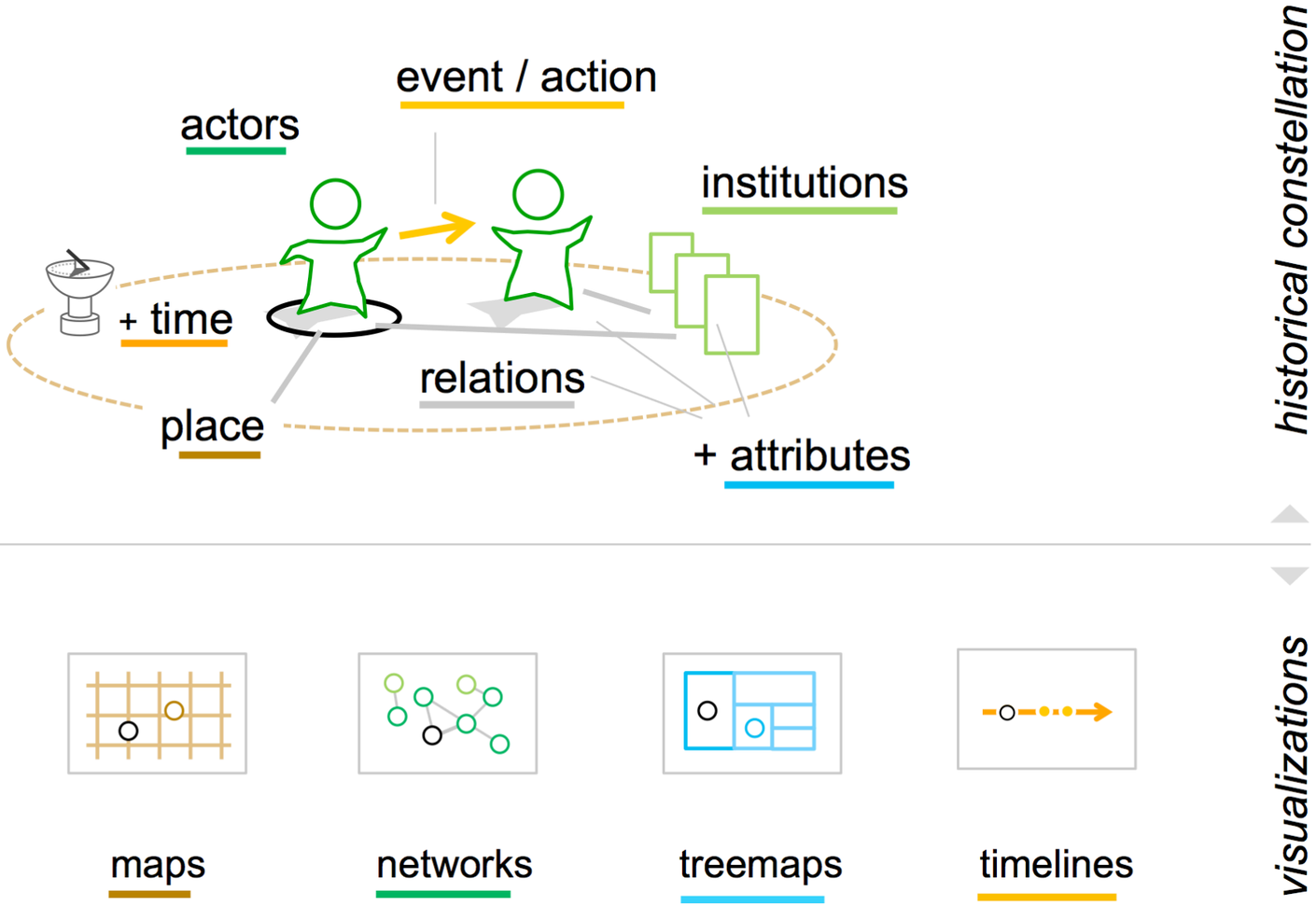
A Synoptic Visualization Framework for the Multi-Perspective Study of Biography and Prosopography Data

Florian Windhager, Paolo Federico,
Saminu Salisu, Matthias Schlögl, Eva Mayr

Biographical and Prosopographical Data and Views

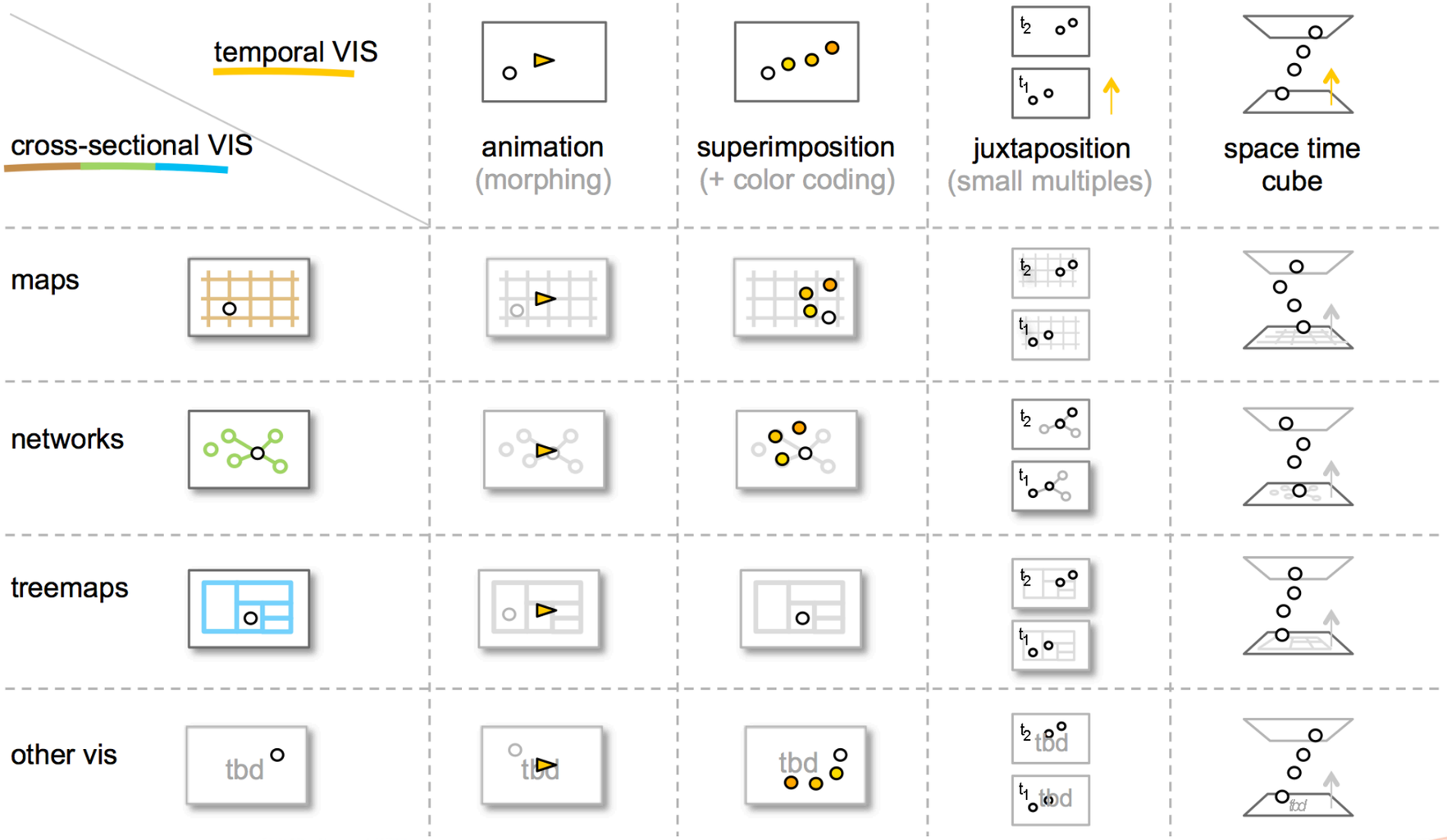


How do we move from
‘Split Attention’ Interfaces
to a Systematic Support of
Cognitive Information Integration?

Biographical and Prosopographical Perspectives

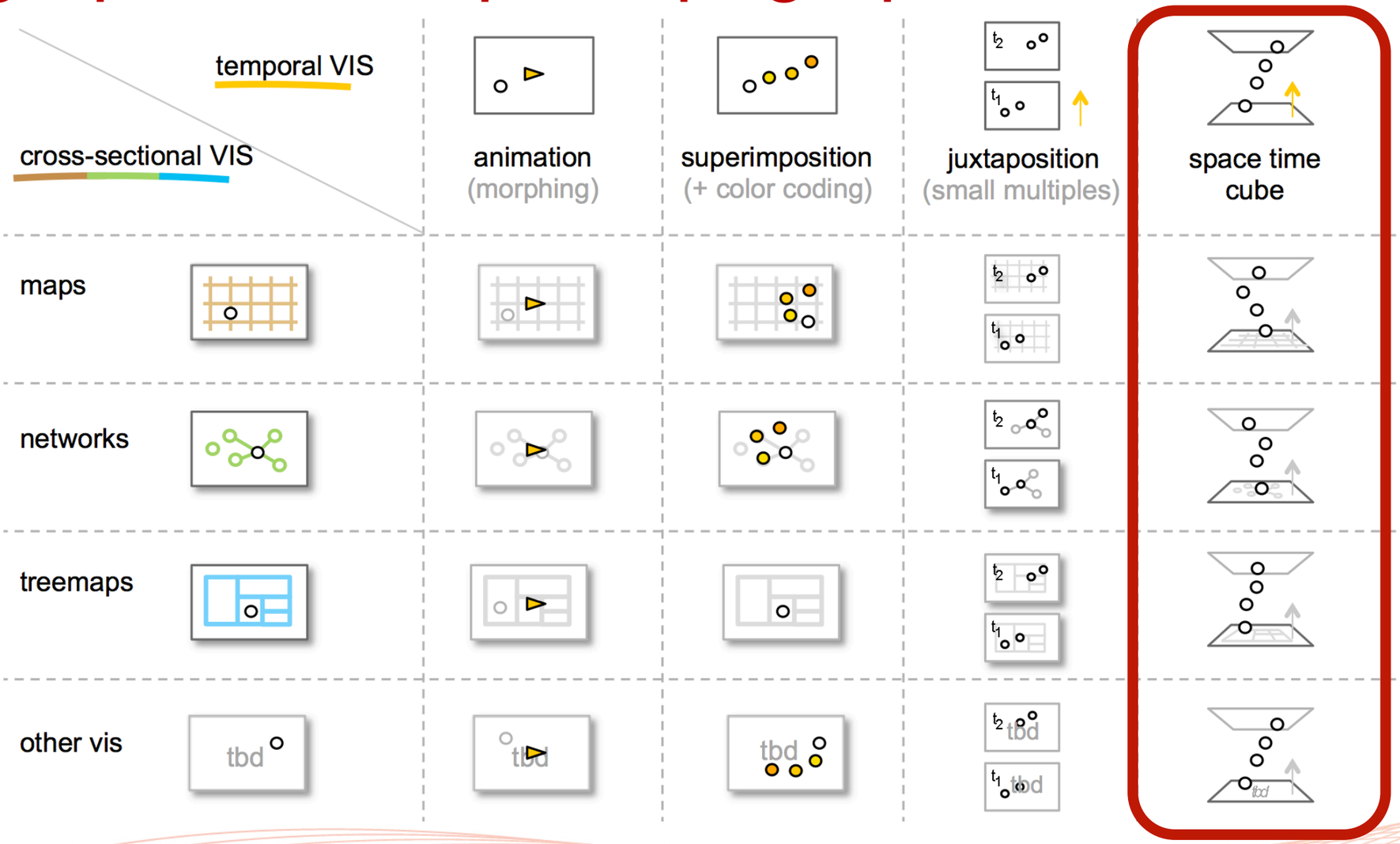
- Temporal
  - diachronic, longitudinal, dynamic, time-oriented
- Cross-sectional
  - synchronic, structural, spatial, non-temporal

Matrix of temporal and cross-sectional VIS methods for biographical and prosopographical data



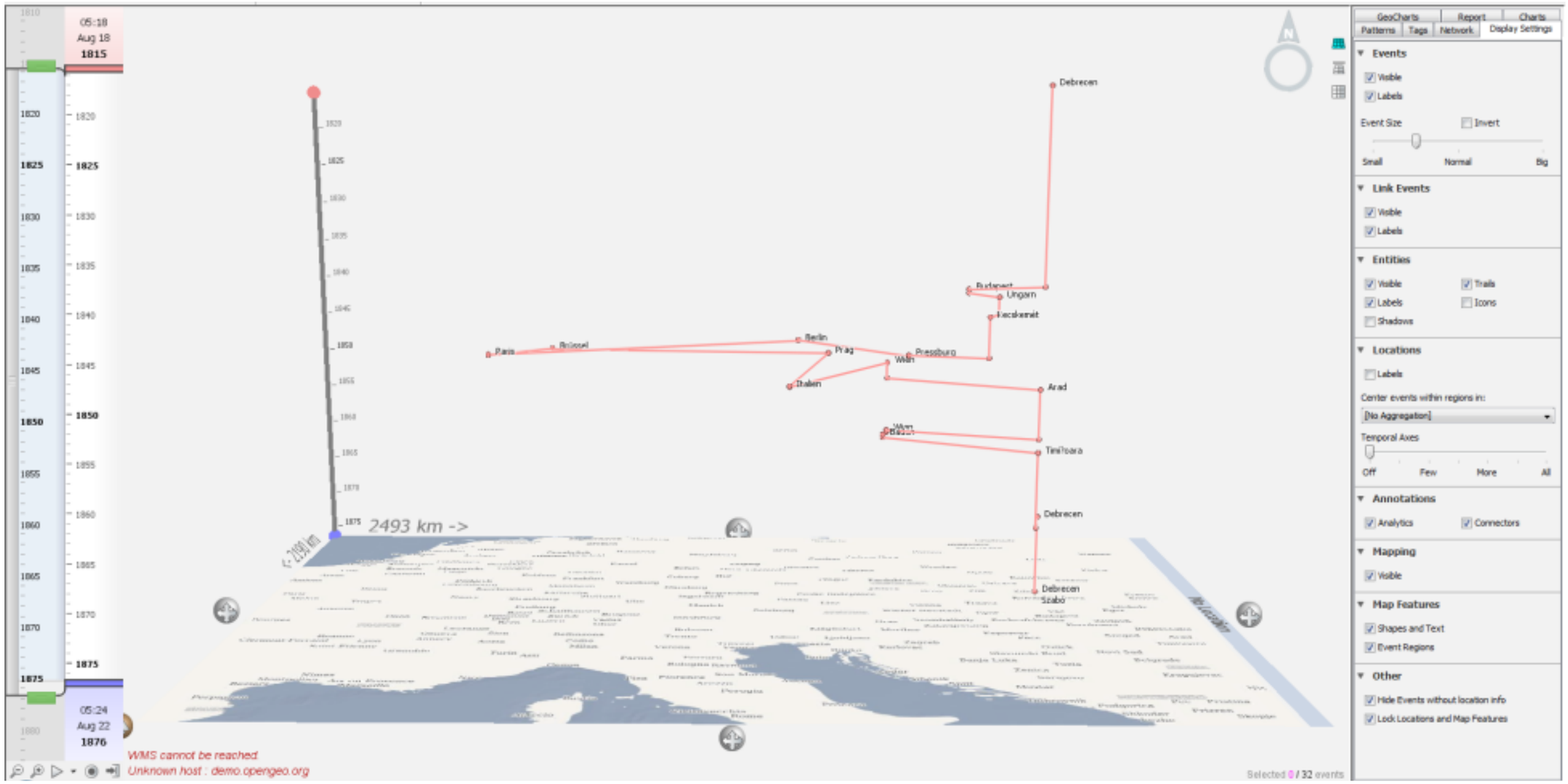
VIS 2017

Space-time cube for biographical and prosopographical data



VIS 2017

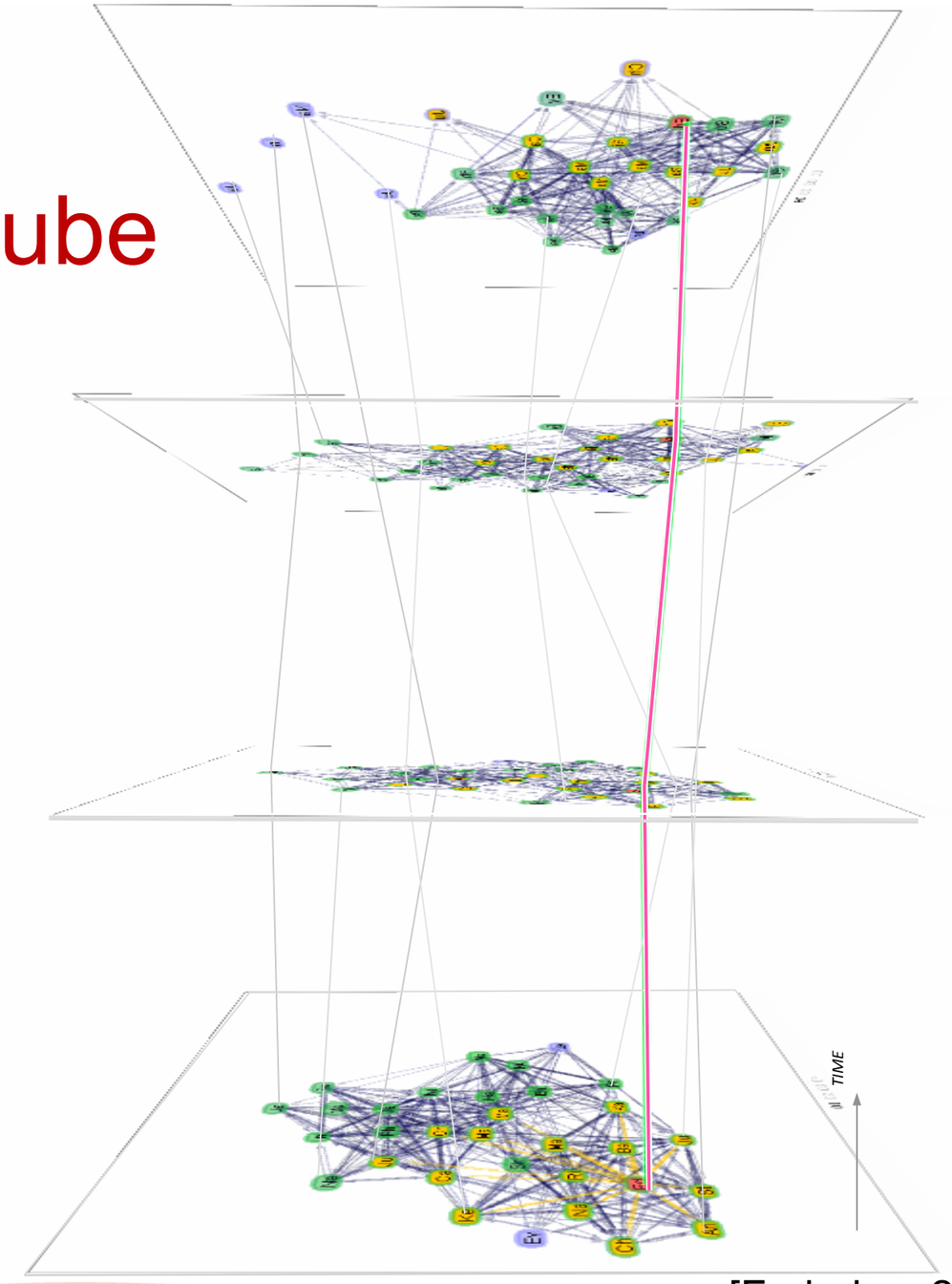
Geographic Space-Time Cube



[Kapler, 2004; Windhager, 2017]

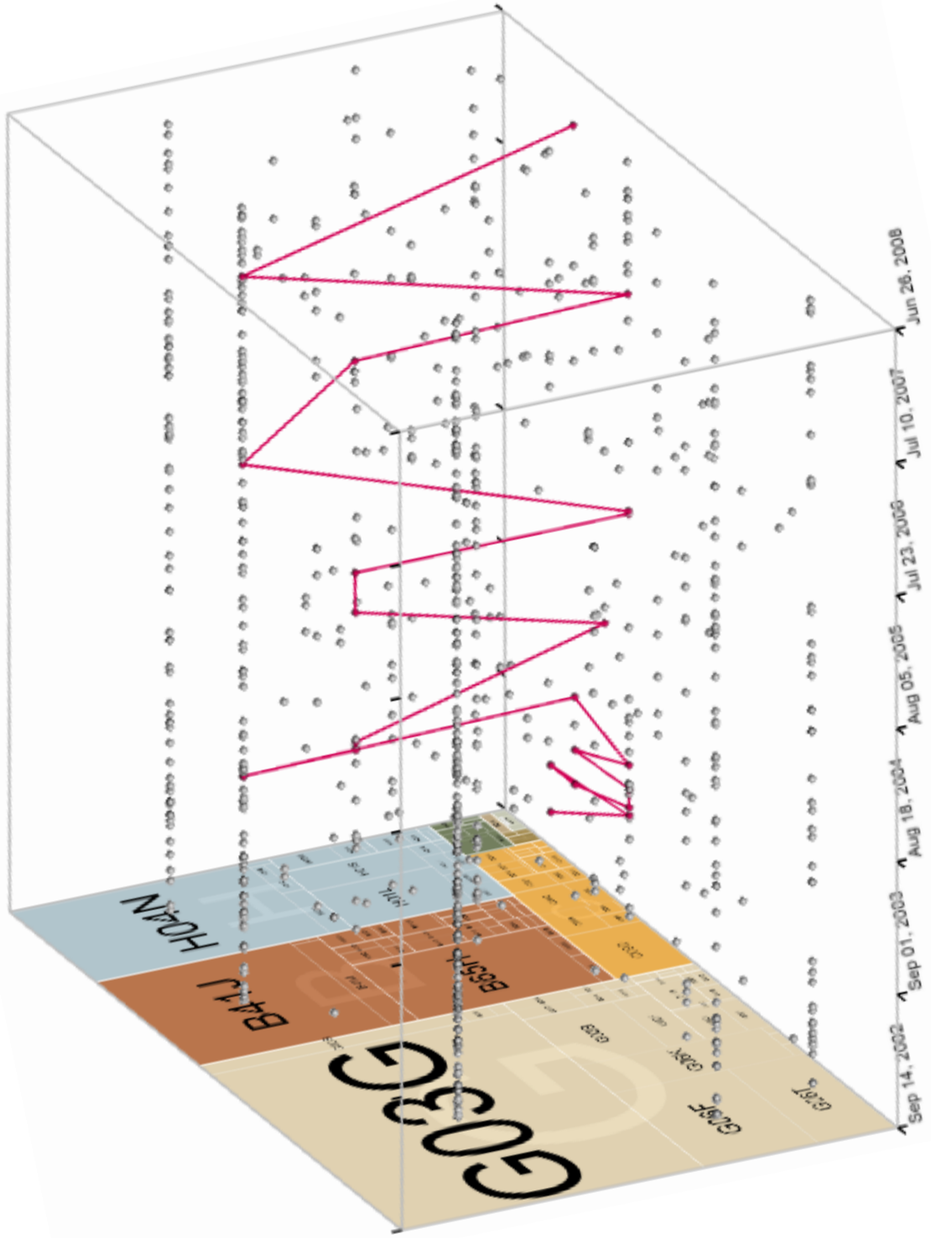
VIS 2017

Relational Space-Time Cube



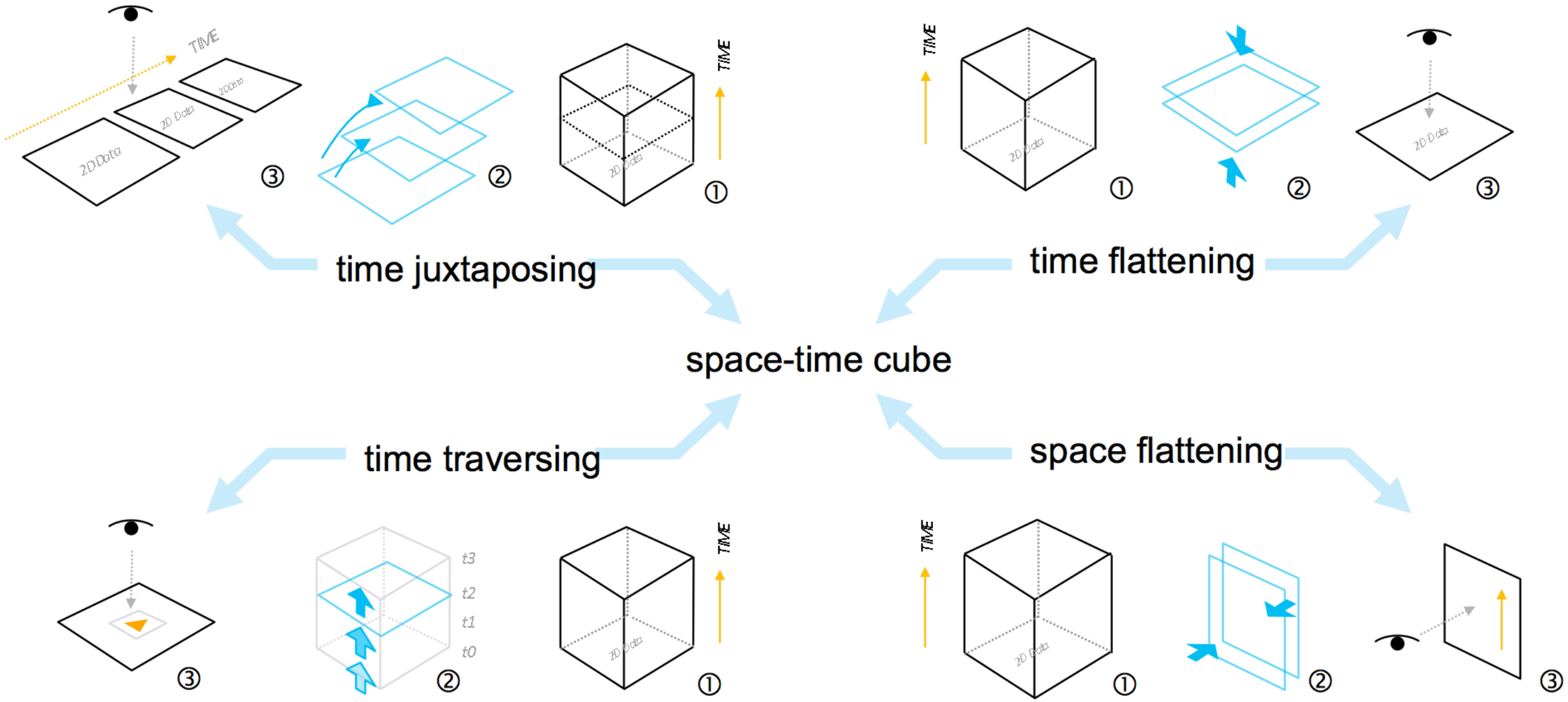
[Federico, 2011]

Categorial Space-Time Cube



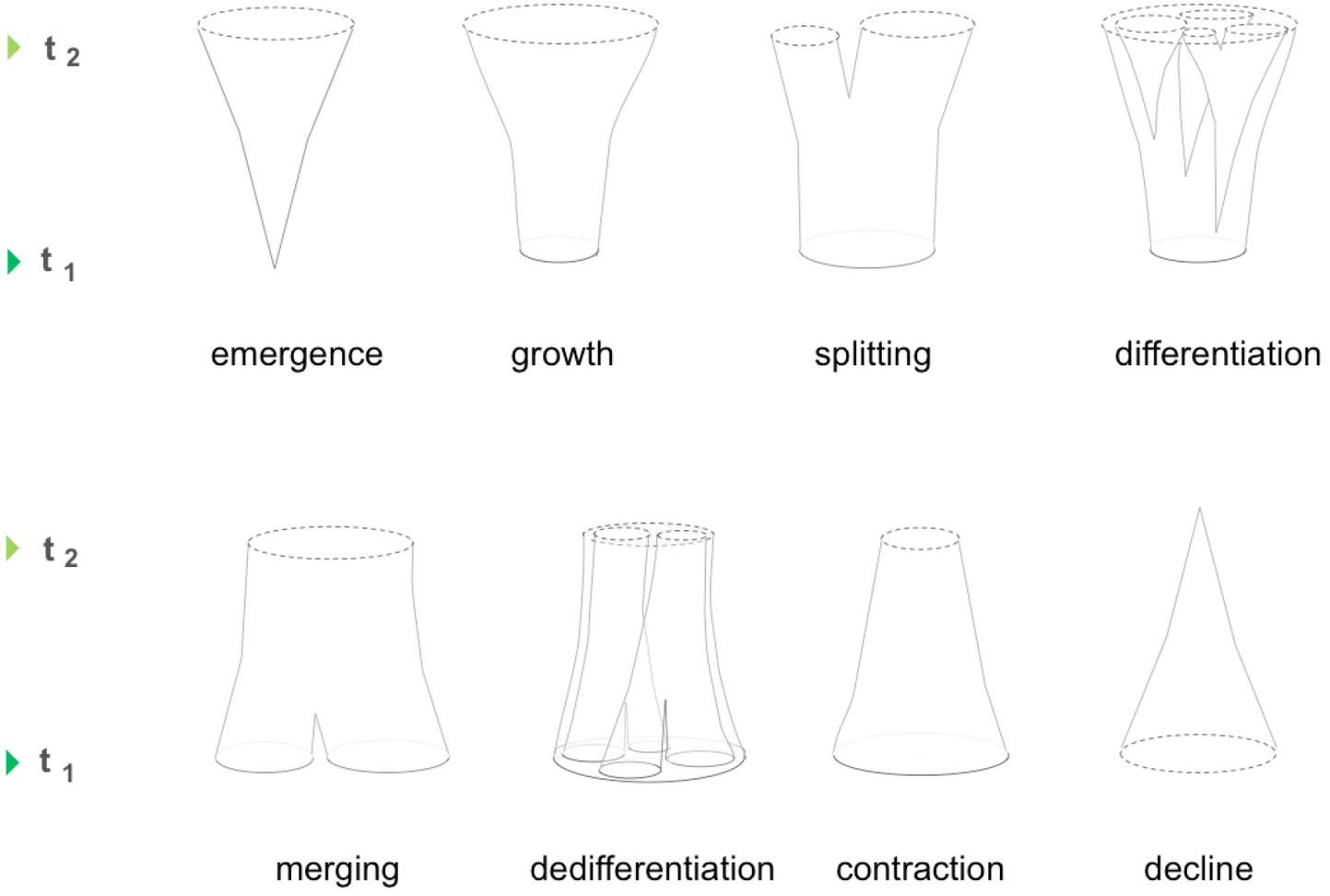
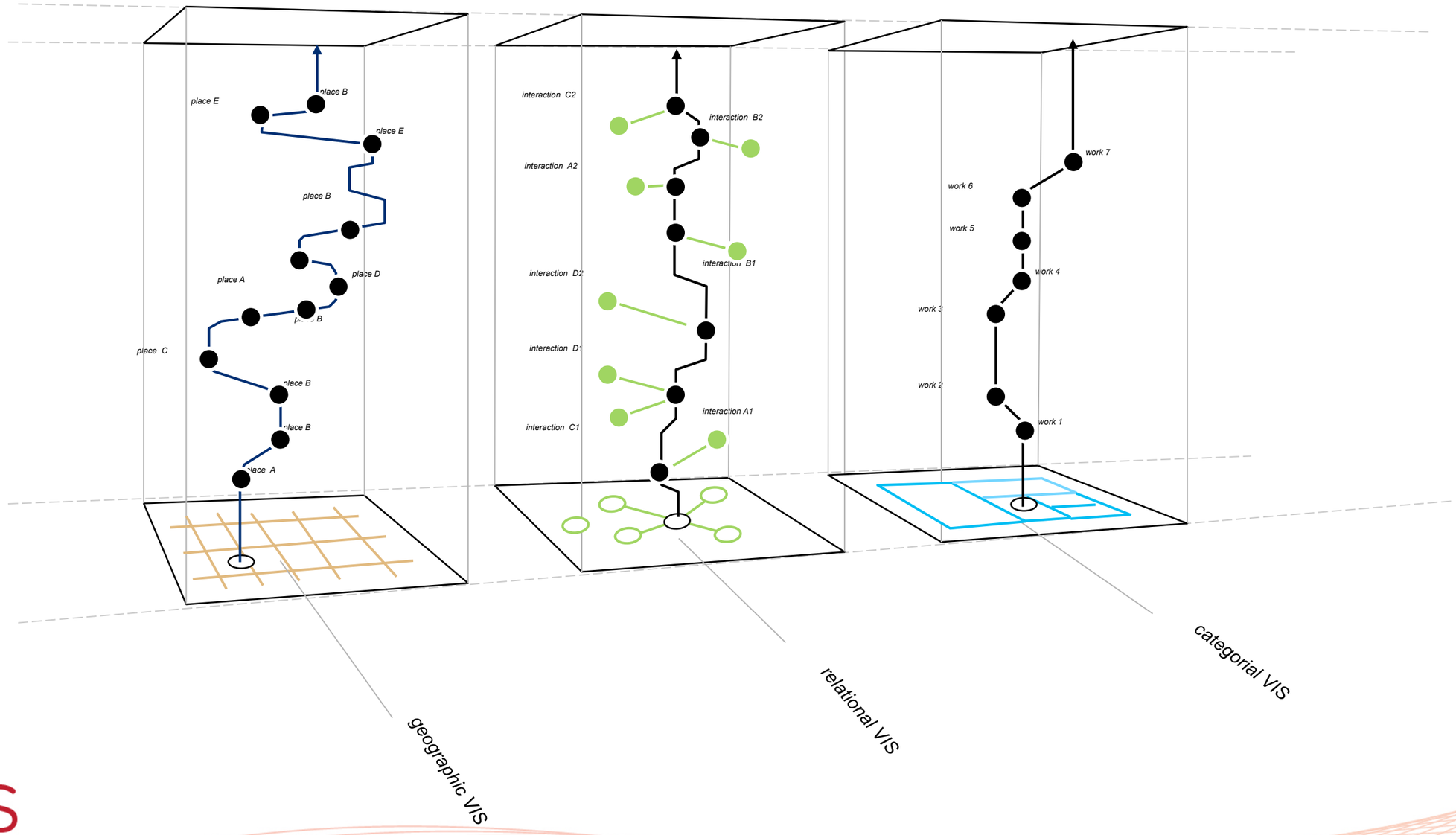
[Smuc, 2015]

Mediating Multiple Cross-Sectional and Temporal Views



[Bach, 2016; Schreder, 2016]

From Biographical to Prosopographical Data



Linking Multiple Space-Time Cubes