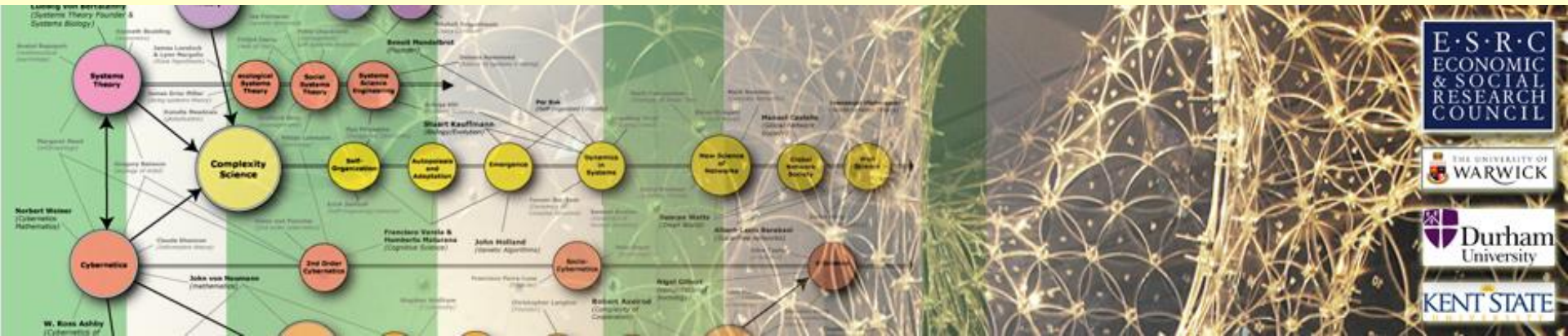


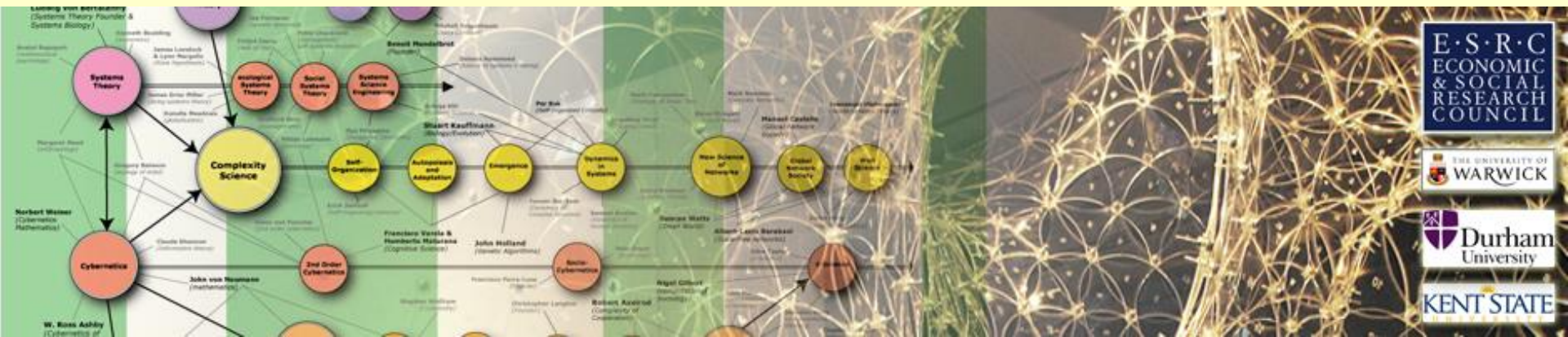
Policy, applications, mixed-methods: *dynamics and interactions*

Phil Haynes, University of Brighton



Policy Systems

- Highly complex
- Dynamic and often unstable
- Interaction of policy actors, policy users
- Indeterminate
- Challenges for design and implementation



Two Dimensions of Policy Complexity

Front Office



Poles at the polls

New citizens could have a big impact at the general election



1930s spending

How useful is Labour's cuts claim, asks Duncan Weldon



Bargain of a political week

Victoria Derbyshire reviews the Westminster headlines



Key London seats

Tim Donovan on seven election battlegrounds in capital



Election runes

Three veteran UK election watchers on what to expect



Interactive poll tracker

Only weeks to go - how are the parties faring?



UK: what next?

Everything you need to know about the devolution debate



Manifesto watch

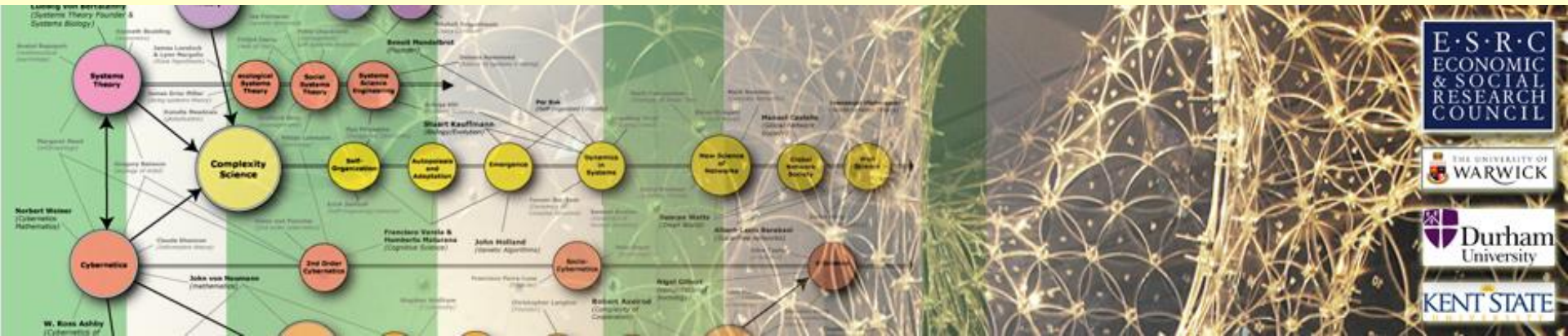
What we know parties will be promising at next year's election

Back Office



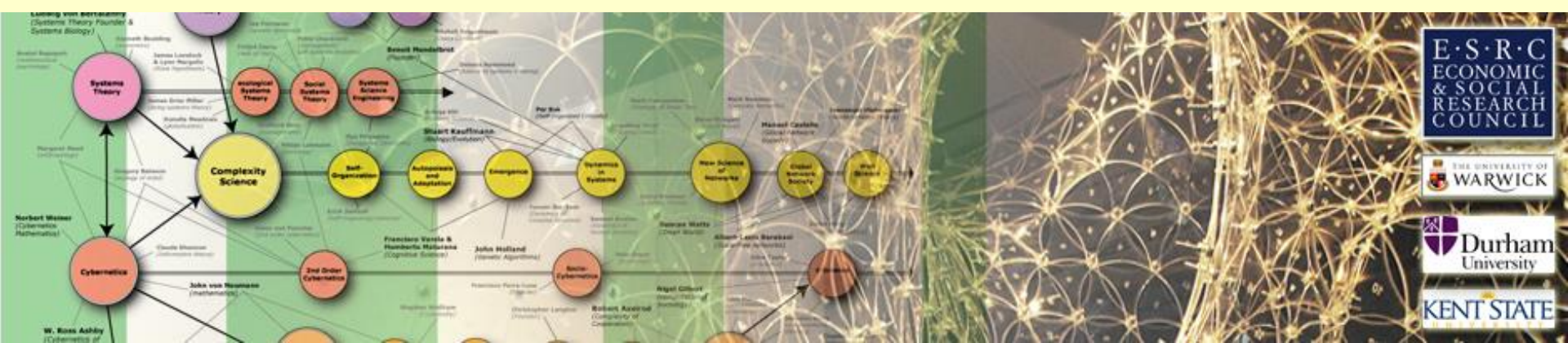
Policy Scale

- Continental or Global Government
- National Government
- Regional or Local Government
- Organisations
- People



Two core activities

- Descriptive
- Prescriptive



Interactions and relationships

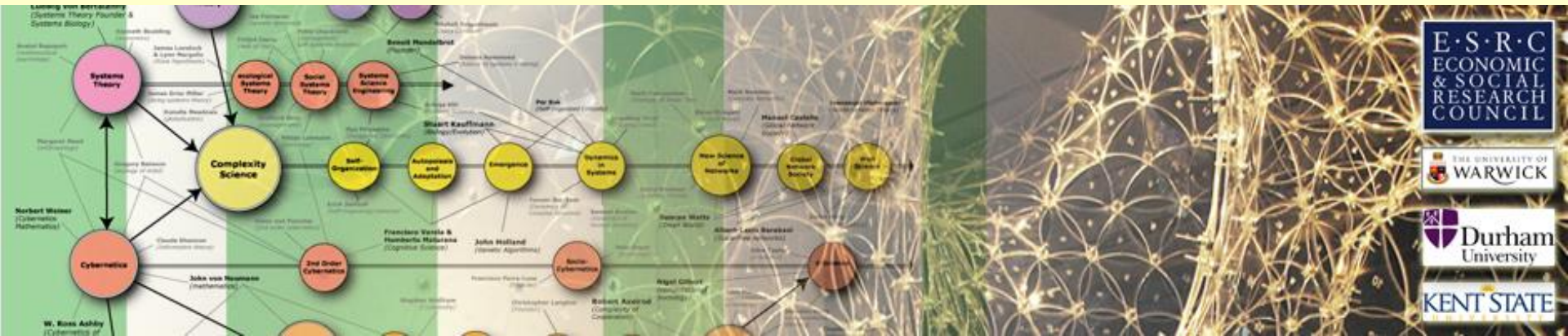


Figure 1 The Relationship between annual percentage Consumer Price Inflation (2007) and future Long-term Interest Rates (2009), 31 OECD Countries

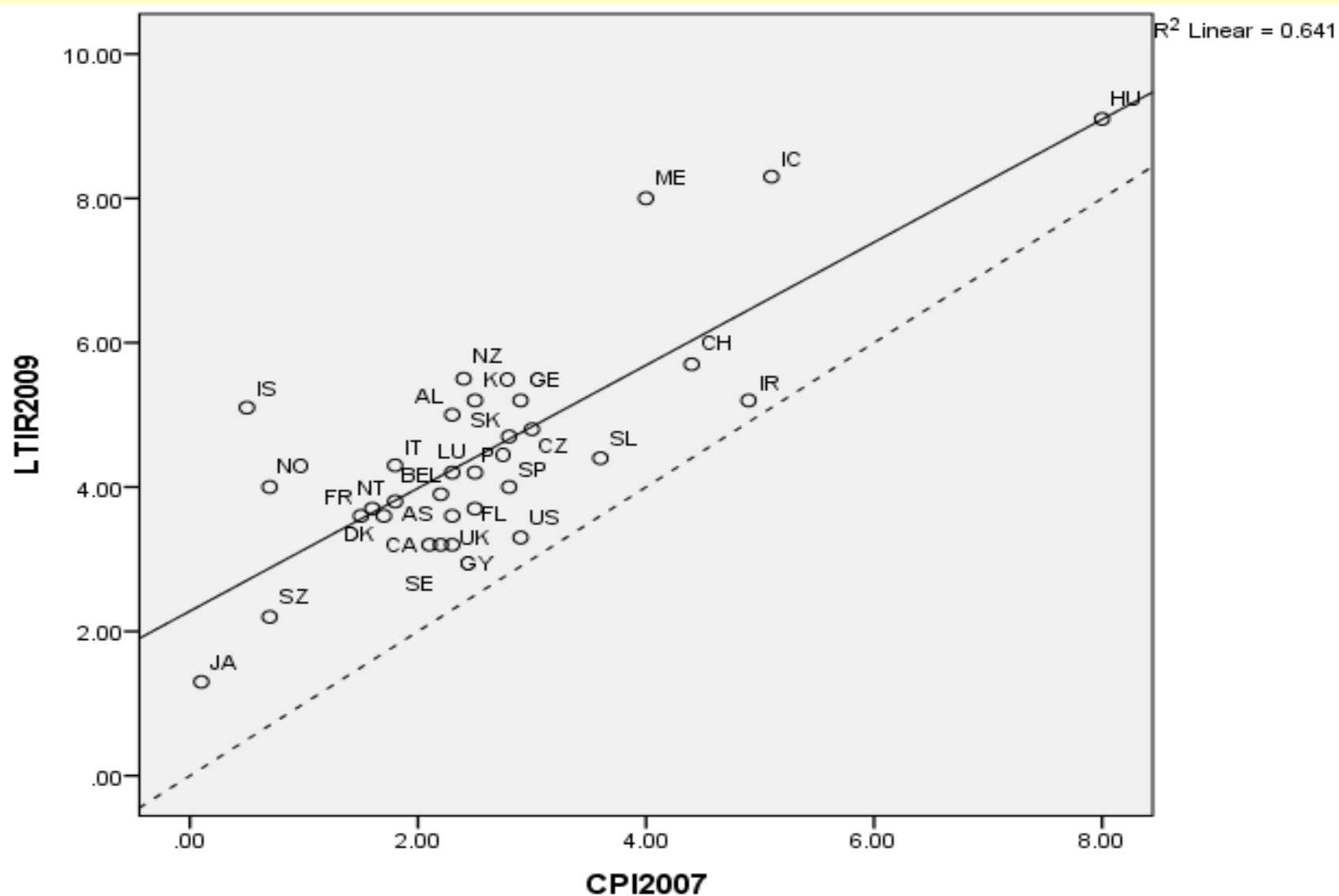
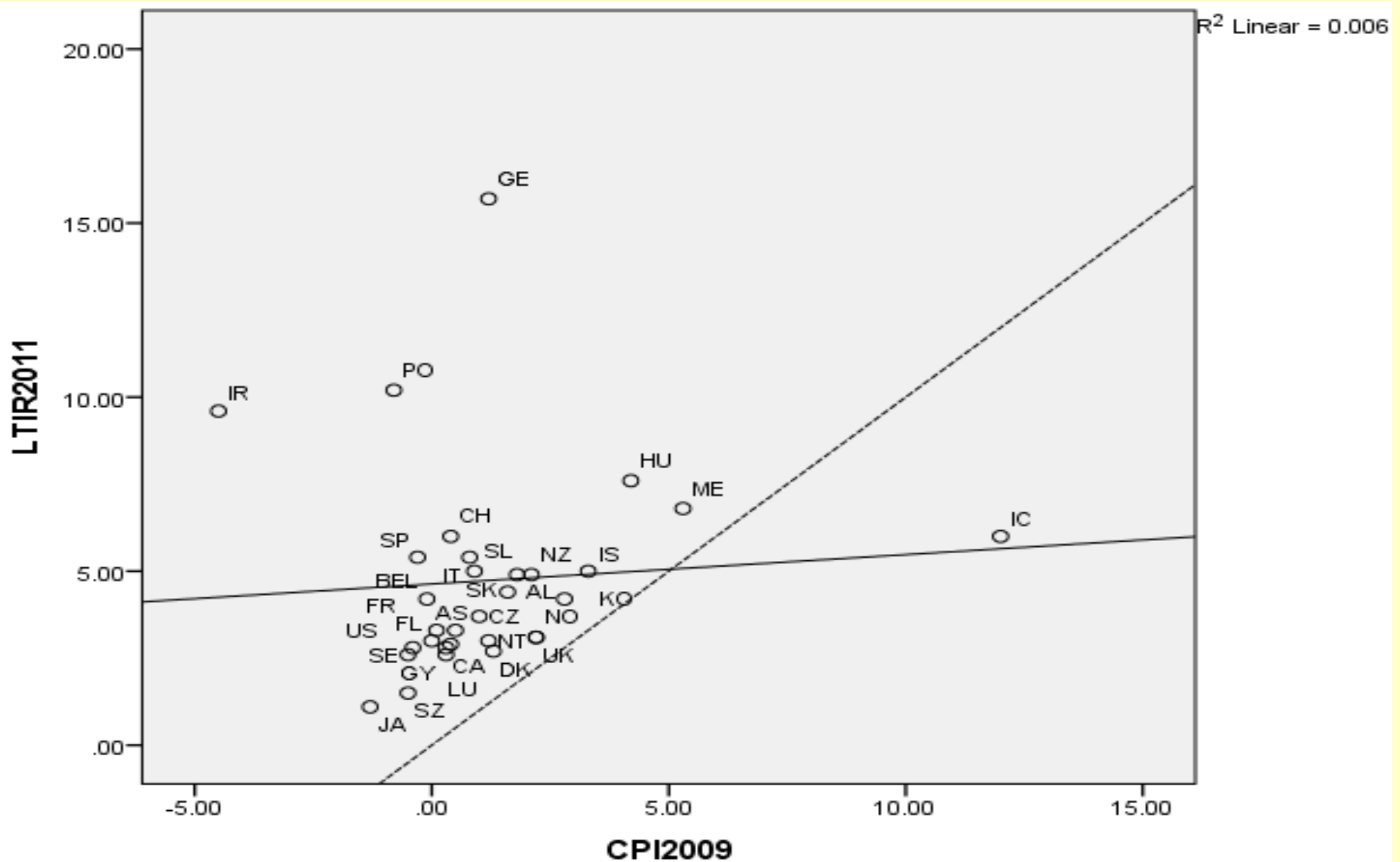
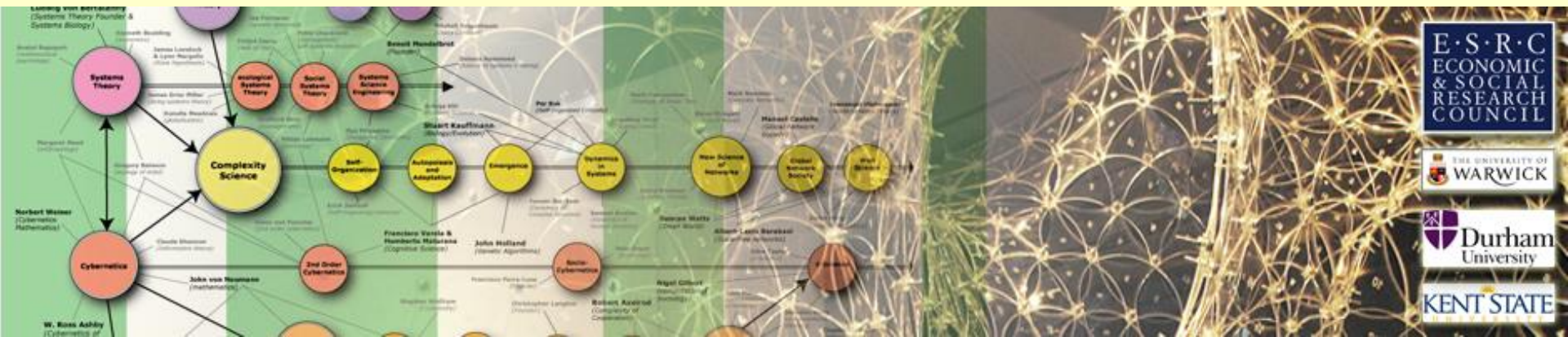


Figure 2 The Challenge to Conventional Monetary Policy: a weaker relationship between annual percentage Consumer Price Inflation (2009) and future Long-term Interest Rates (2011), 31 OECD Countries



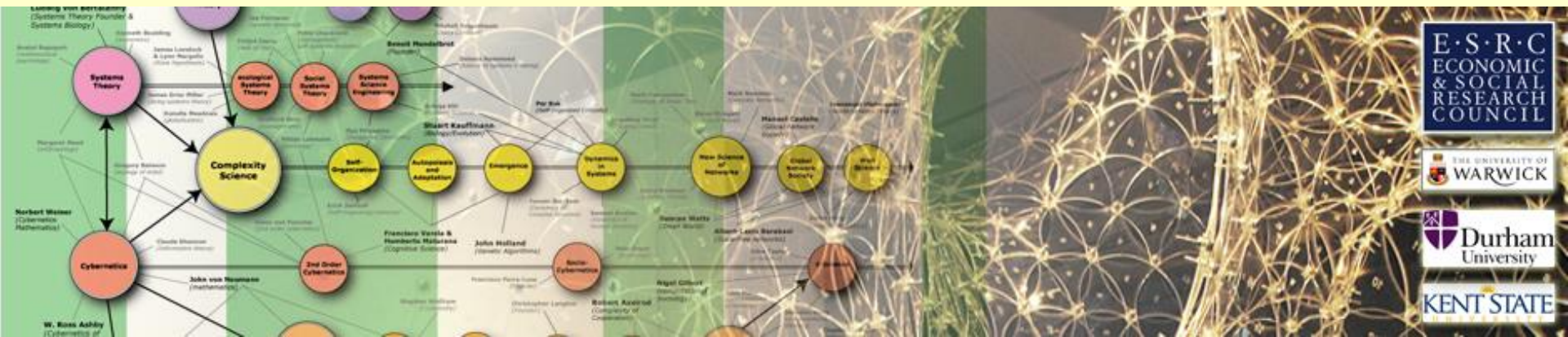
Dynamic Pattern Analysis (DPA)

- Mixed method
- Dynamic case patterns in complex systems
- Movement of cases over time
- Influence of selected variables on that movement



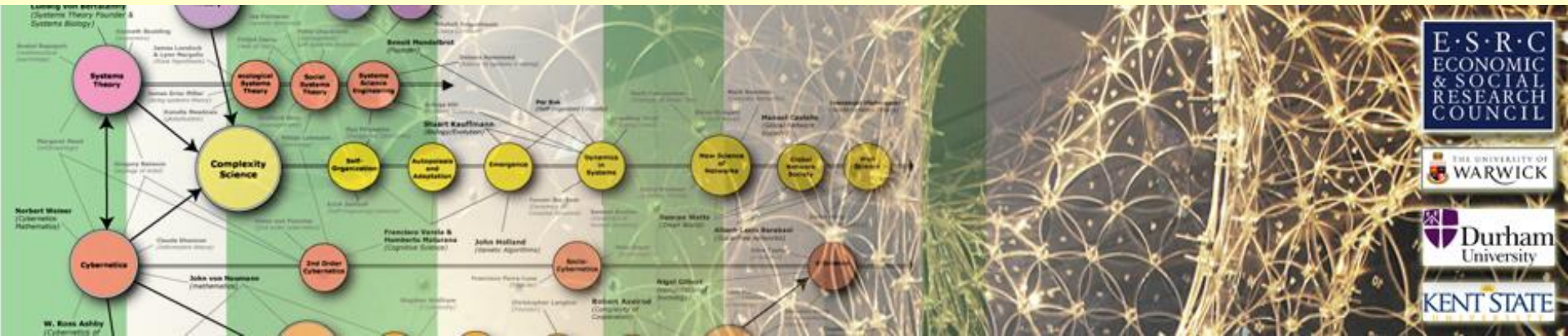
Method

- Cluster analysis – search for case pattern dynamics
- QCA – search for meaning in those patterns
- Proximity of cases



Cluster Analysis

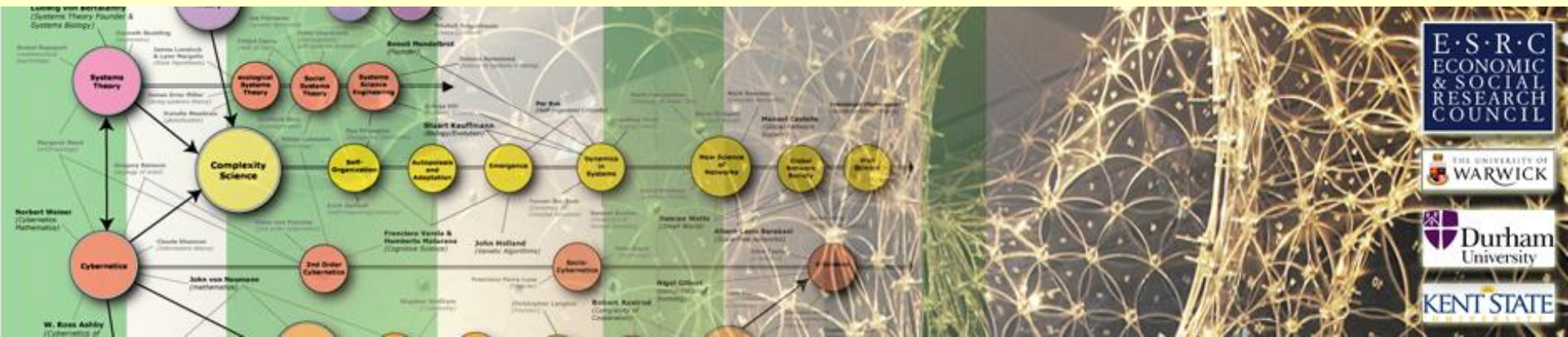
- Cluster Analysis
- Patterns within data
- Over time look for movements



QCA: Theorising the dynamic

QCA results

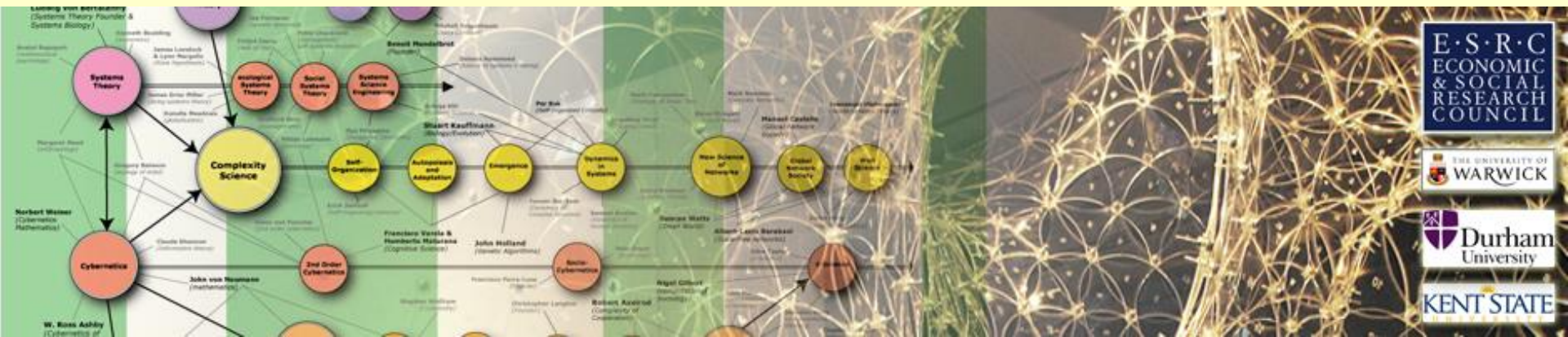
- A or b AND C = OUTCOME D
- E or f AND C = OUTCOME D
- C is necessary but not sufficient
- C is a primary implicant of outcome D



	Similarities	Differences	Strength	Weakness
Cluster analysis	Allows focus on case	Continuous, scale variables	Empirical use of continuous variables to explore possible logical patterns of cases	Instability of modelling associated with the specific mathematical method used
QCA		Degraded variables	Theorising the configuration of cases to explore the complexity of case based patterns	Empirical simplification

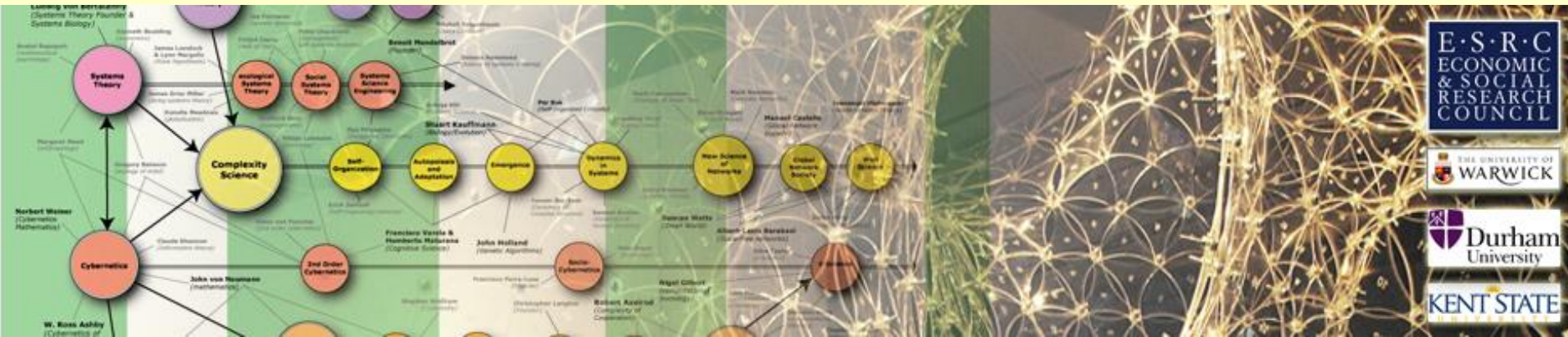
Example: Method

- Macro political economy
- Country comparisons, longitudinal
- Historical literature/ narrative and discourse
- CA for patterns
- QCA for variable effects on patterns



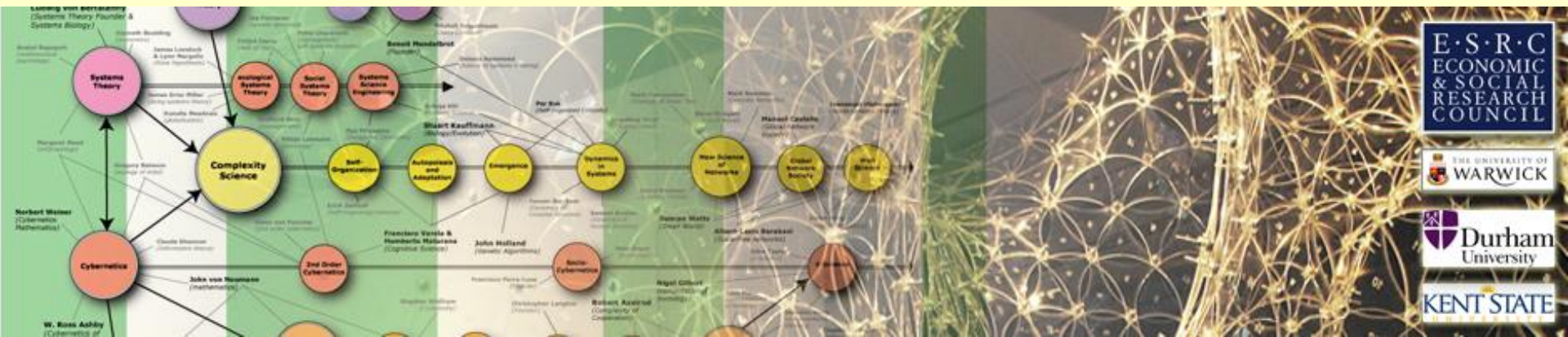
Political Economy

- Country relationships and movement
- Pre crisis
- Post crisis
- Economy and welfare effects



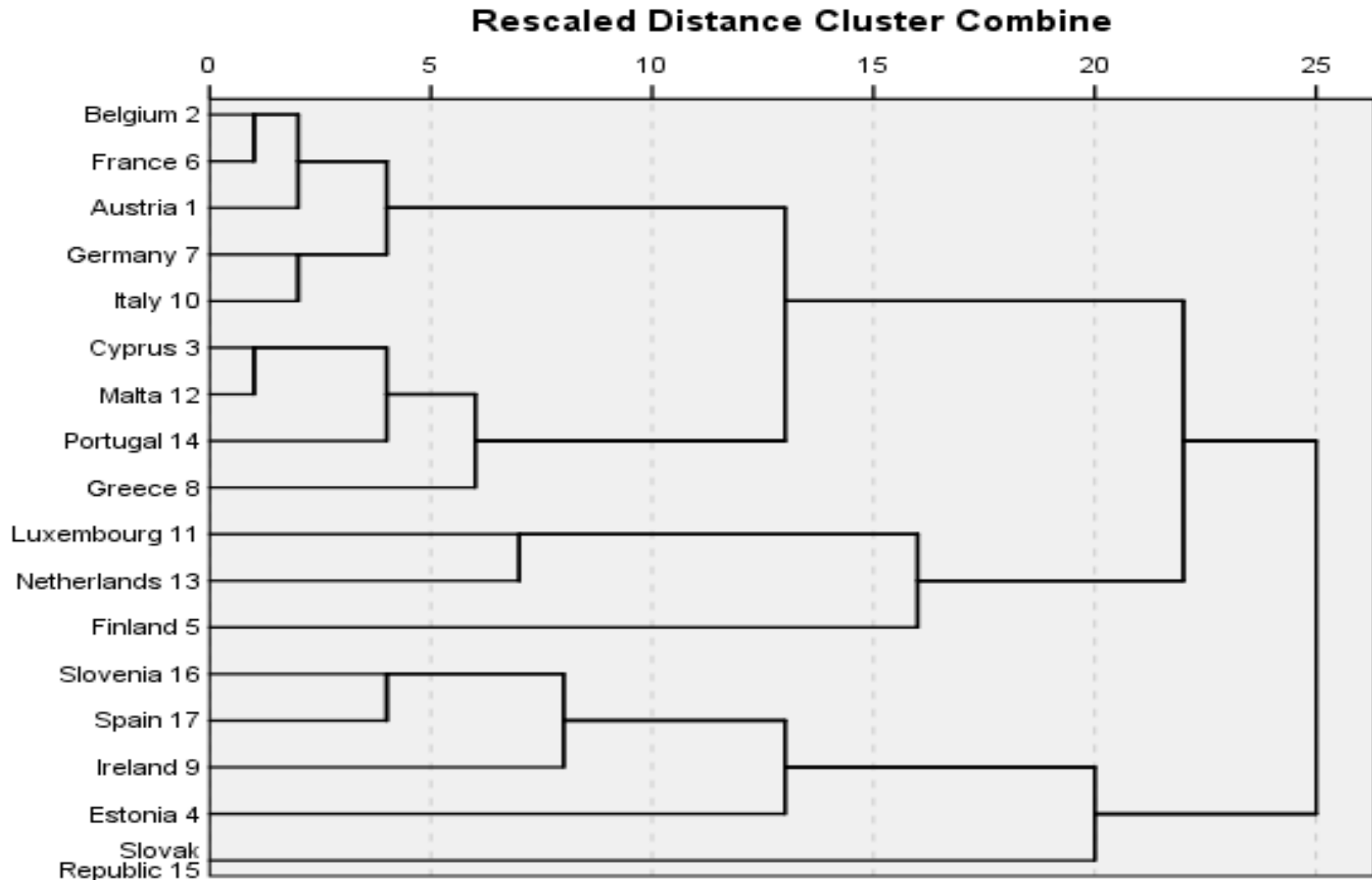
Understanding the patterns

- Where are the key variable interactions
- Mixed method with CA and QCA
- Use QCA to better understand cluster composition and variable effects



2005 Euro Model

Dendrogram using Average Linkage (Between Groups)

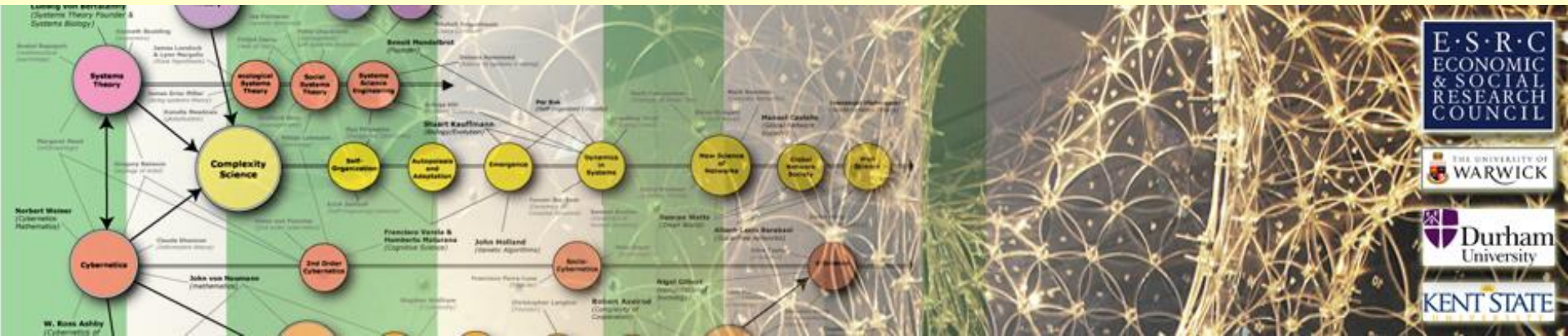


QCA Table 2005

GDP	GNS	CPI	Unemp	Revenue	GovExp	GovCA	BoP	Cluster	id
0	1	1	1	1	1	0	1	1	Belgium
0	1	0	1	1	1	0	1	1	Germany
0	1	0	0	1	1	1	1	1	Austria
0	0	0	1	1	1	0	0	1	France
0	0	0	0	1	1	0	0	1	Italy
1	0	1	0	0	1	0	0	2	Malta
1	0	0	0	0	1	0	0	2	Cyprus
0	0	1	1	0	1	0	0	2	Greece
0	0	0	0	0	1	0	0	2	Portugal
1	1	1	0	0	0	1	1	3	Luxembourg
0	1	0	0	1	1	1	1	3	Netherlands
0	1	0	1	1	1	1	1	4	Finland
1	1	1	1	0	0	1	0	5	Spain
1	1	1	0	0	0	1	0	5	Estonia
1	1	1	0	0	0	1	0	5	Slovenia
1	1	0	0	0	0	1	0	5	Ireland
1	0	1	1	0	0	0	0	6	Slovak Republic

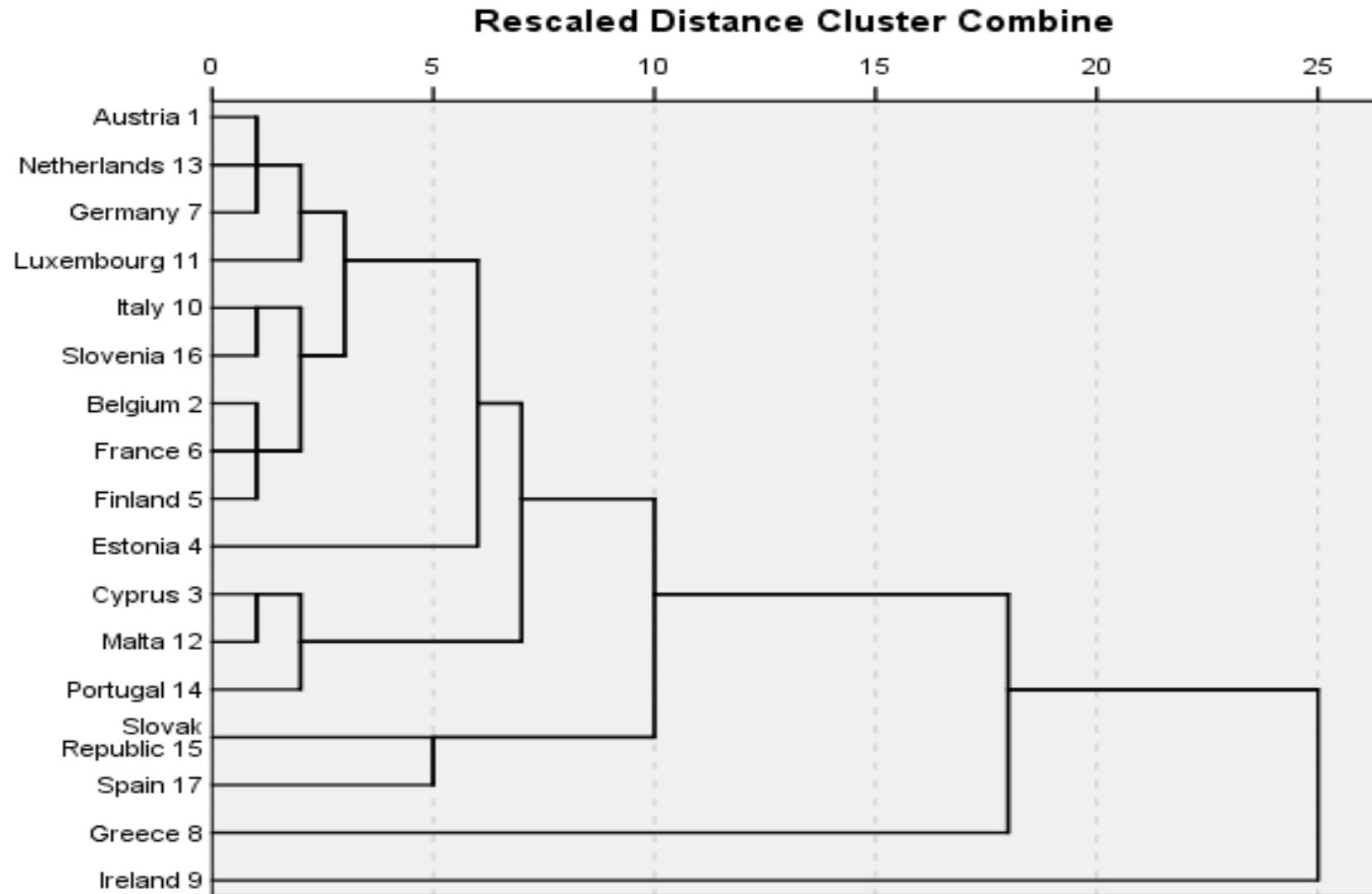
QCA Table 2005

GDP	GNS	CPI	Unemp	Revenue	GovExp	GovCA	BoP	Cluster	id
1	0	1	0	0	1	0	0	2	Malta
1	0	0	0	0	1	0	0	2	Cyprus
0	0	1	1	0	1	0	0	2	Greece
0	0	0	0	0	1	0	0	2	Portugal



2010 Euro Model

Dendrogram using Average Linkage (Between Groups)

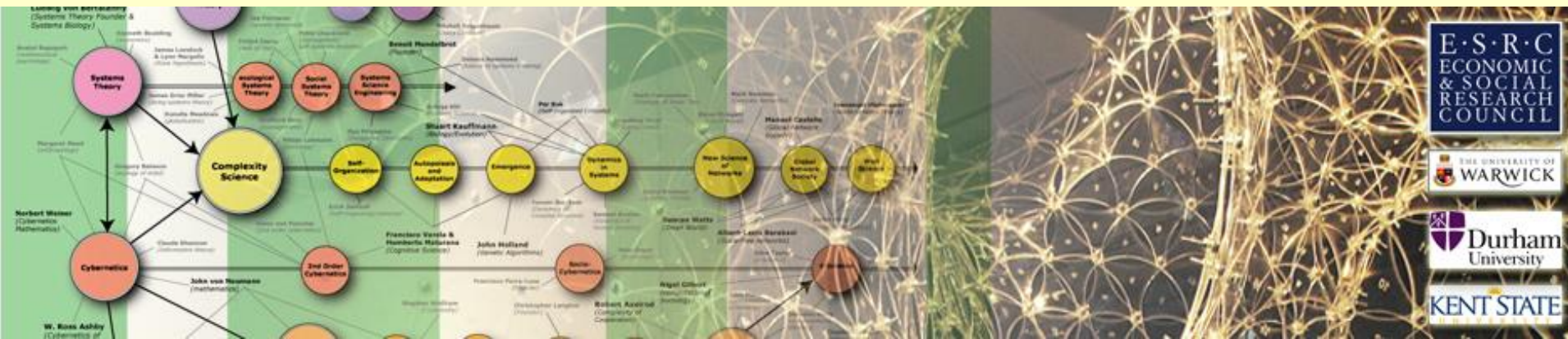


QCA Table 2010

GDP	GNS	CPI	Unemp	Revenue	GovExp	GovCA	BoP	cluster	id
1	1	1	0	0	0	1	1	1	Luxembourg
1	1	0	0	1	1	1	1	1	Austria
1	1	0	0	1	1	0	1	1	Netherlands
1	1	0	0	1	0	1	1	1	Germany
1	1	1	0	1	1	1	1	2	Belgium
1	1	0	0	1	1	1	1	2	Finland
1	0	0	0	1	1	1	0	2	Italy
0	1	0	1	1	1	0	0	2	France
0	1	0	0	0	0	0	0	2	Slovenia
1	1	1	1	1	0	1	1	3	Estonia
1	0	1	0	0	0	1	0	4	Malta
0	0	1	0	0	0	0	0	4	Cyprus
0	0	0	1	0	1	0	0	4	Portugal
1	1	0	1	0	0	0	0	5	Slovak Republic
0	1	1	1	0	0	0	0	5	Spain
0	0	1	1	0	0	0	0	6	Greece
0	0	0	1	0	1	0	1	7	Ireland

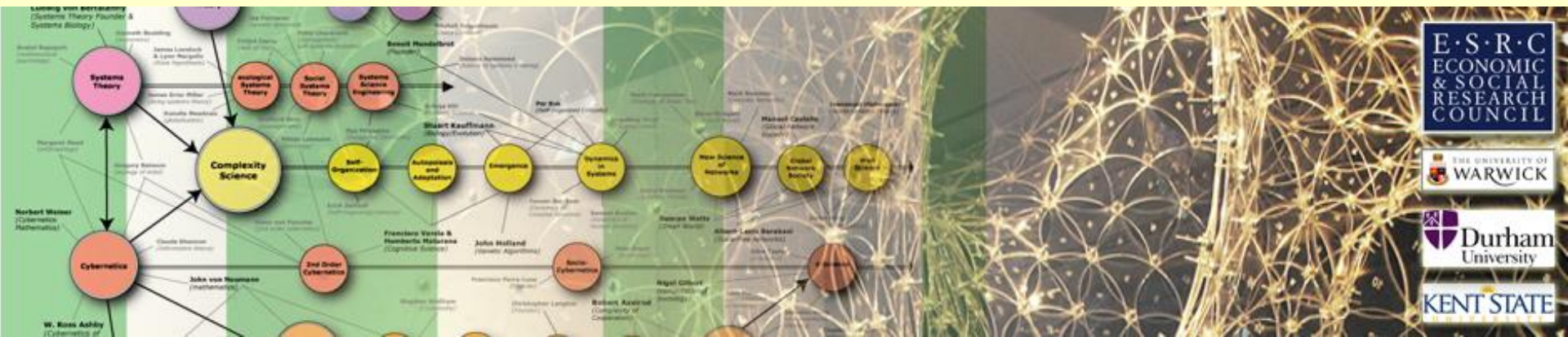
QCA Table 2010

GDP	GNS	CPI	Unemp	Revenue	GovExp	Gov CA	BoP	cluster	id
1	0	1	0	0	0	1	0	4	Malta
0	0	1	0	0	0	0	0	4	Cyprus
0	0	0	1	0	1	0	0	4	Portugal
1	1	0	1	0	0	0	0	5	Slovak Republic
0	1	1	1	0	0	0	0	5	Spain
0	0	1	1	0	0	0	0	6	Greece
0	0	0	1	0	1	0	1	7	Ireland



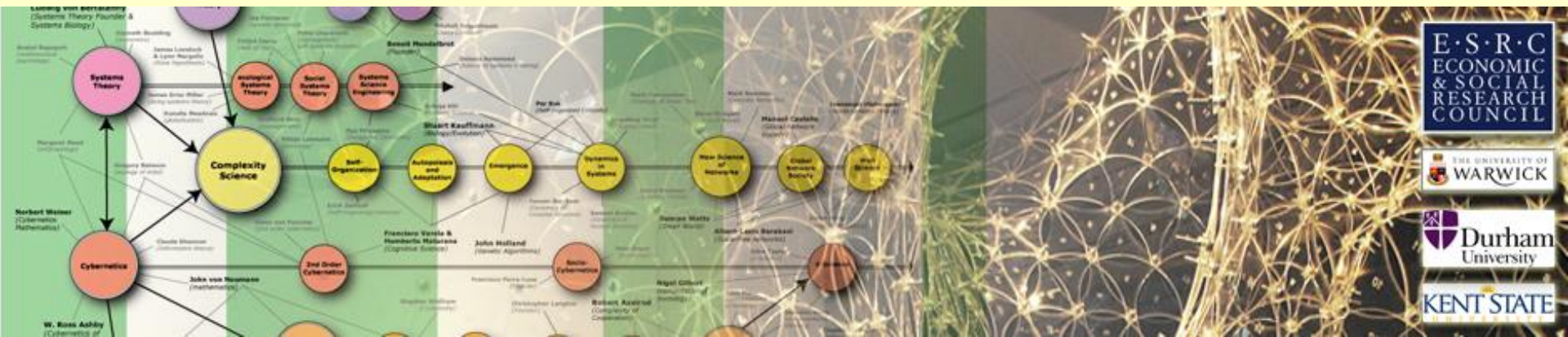
Front office?

- What are the values and ideas behind the changes?
- Textual Narratives



Conclusion: Methods

- Dynamics driven by interactions
- Not deterministic relationships
- Appropriate methods to understand
- DPA Dynamic Pattern Analysis



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