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1990 – 1st Austral(as)ian Conference in Information Systems (ACIS), at Monash, chaired by Ross Jeffery

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on INFORMATION SYSTEMS**

**Interim ACIS Executive Committee
January 1992**

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Not Only Horses Wear Blinkers: The Missing Perspectives in IS Research

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**ACIS at UniSA
2 December 2015**

<http://www.rogerclarke.com/SOS/ACIS15> {[.html](#), [.pdf](#)}

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Conventional Scientific Research Many Elements of Research Design

- Research Question(s)
- Unit of Study
- Population
- Sampling Frame
- Survey Design
- Data Collection Design
- Data Analysis Design
- ...

But no sign of 'Perspective'

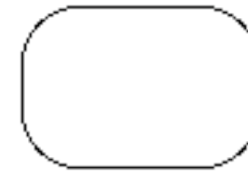
Unit of Study



Organisational Dyad

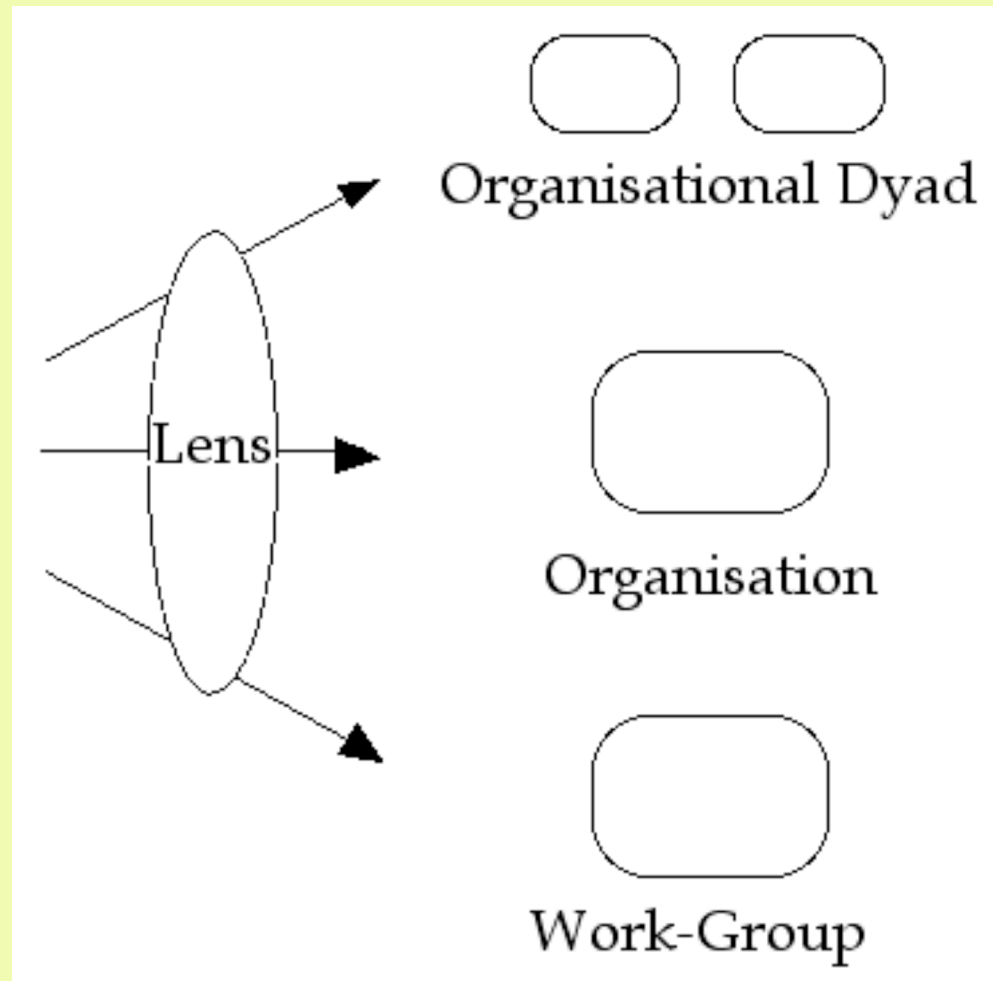


Organisation



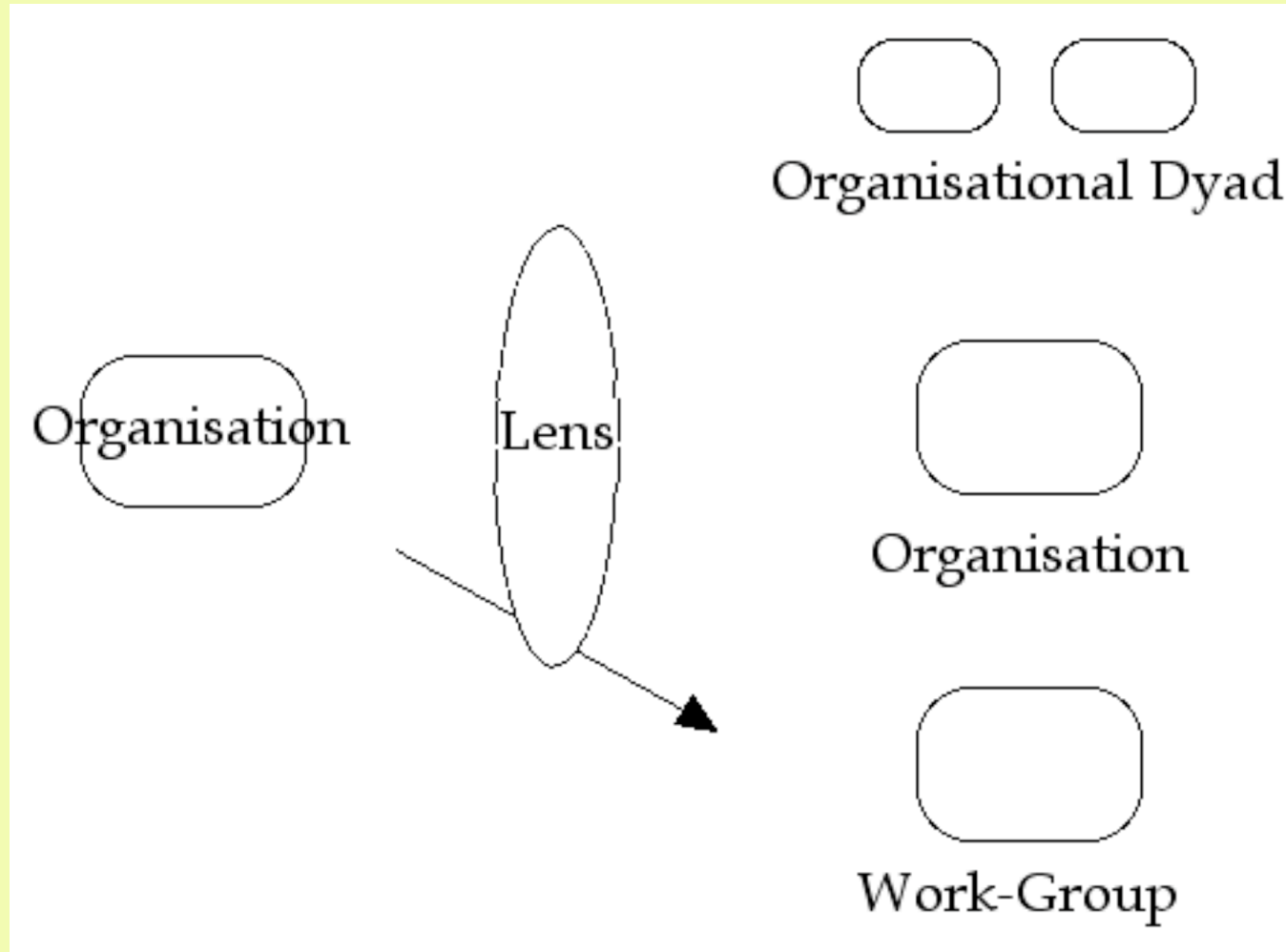
Work-Group

Unit of Study



Perspective

Unit of Study



A Missing Element of Research Design 'Perspective'

The view from the standpoint
of a stakeholder
in the phenomena
that are under observation



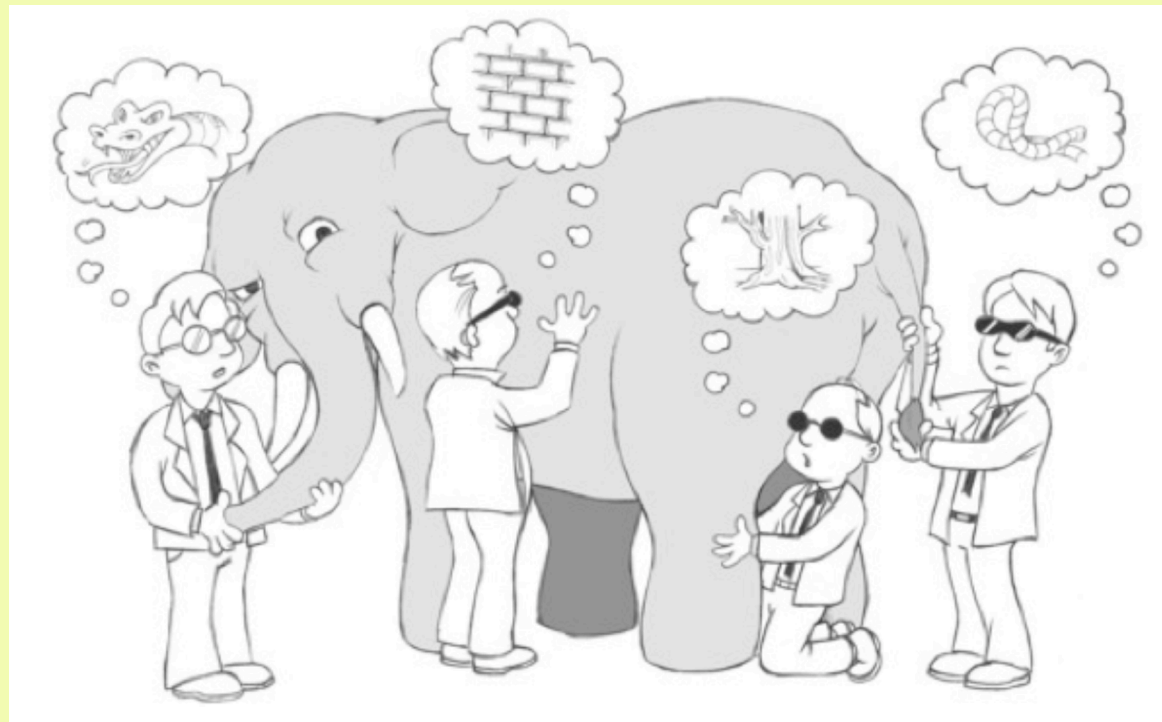
Ambrogio Lorenzetti
Annunciation, 1344

Insights from Interpretivism

- Phenomena are subject to multiple interpretations
- Observation from a single perspective risks inappropriate inferences being drawn

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Implications of Interpretivism

- The researcher has a perspective
- The researcher's perspective influences research conception, questions, design, analysis, results
- If a researcher ignores the question of perspective, they blindfold themselves or wear blinkers

A Missing Element of Research Philosophy

- We discuss:
 - **Ontology** (knowledge about existence)
 - **Epistemology**
(knowledge about knowledge)
 - **Methodology** (knowledge about process)
- **We seldom discuss:**
 - **Teleology**
(knowledge about purpose, and hence whose perspectives the purpose reflects)

Alternative Perspectives

<u>Economic Dimension</u>	<u>Social Dimension</u>	<u>Environmental Dimension</u>
World Economy	Humanity	The Planet
Supra-National Region (e.g. EU, NAFTA)		
Nation-State	A Society	The Troposphere
Regional Economy		
Sector / Value-Chain	A Community	The Biosphere
Strategic Partners		
Organisation	A Person	A Localised Ecology
Sub-Organisation		

The Dominant Perspective in IS Research

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The System-Sponsor	A Person	A Localised Ecology
Sub-Organisation		

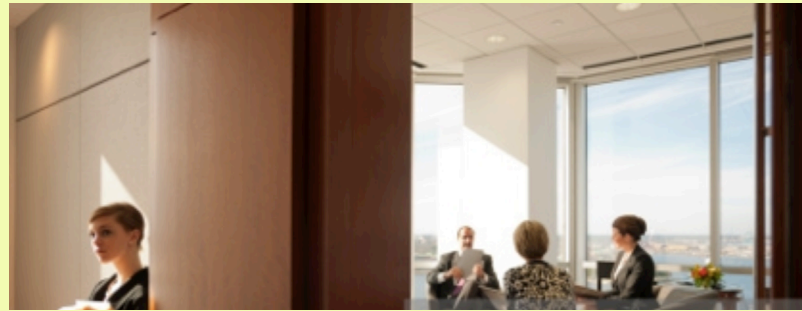
The Dominant Perspective

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- The System-Sponsor's interests are Objectives
- Entities with institutional or market power are recognised as Stakeholders. Their interests are Constraints
- Entities without power are ignored. Their interests surface later, as 'Impediments' and 'Barriers to Adoption'

Research about People, but for Organisations

- How can we use social media to influence people?
- How do we buy-off people's privacy concerns?
- Can lifetime eHealth Records be imposed on people?
- Will people submit to pervasive wellbeing monitoring?
- How can we best exploit the crowd?
- How can we de-anonymise the customer?
- Why are people concerned about location sharing?

A Test of the Perspective Notion

Let's stop sending printed invoices through the post.

What will be the impacts on the organisation?

A Test of the Perspective Notion

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What will be the impacts on the organisation?

What will be the impacts on the value-chain?

A Test of the Perspective Notion

Let's stop sending printed invoices through the post.

What will be the impacts on the organisation?

What will be the impacts on the value-chain?

What will be the impacts on the recipients?

A Test of the Perspective Notion

Is the following a legitimate (M)IS research question?

Let's stop sending printed invoices through the post.

What will be the impacts on the organisation?

What will be the impacts on the value-chain?

What will be the impacts on economic actors?

What will be the impacts on individual people?

Person Perspectives

- **USERS**
 - **Organisation-Internal**
Since admin computing began
 - **Partner-Internal Users**
Since Inter-Org Sys began
 - **External Users**
Since Extra-Org Sys began (ATMs, EFTPOS, ...)
 - **Differently-Capable Users**

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Since Toffler identified the category in 1970/80
- 'USEES'
People who are affected by an information system

Passive
Human Resources
Consumer as Prey



Active
Actors



Alternative
Organisational
Perceptions
of People

Engaged
Participants



A Test of the Perspective Notion

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Let's stop sending printed invoices through the post.

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What will be the impacts on economic actors?

What will be the impacts on individual people?

What will be the impacts on forests?

The Environmental Dimension

- If we stop sending printed invoices through the post, what will be the impact on **Forests**?
- What are the key factors to be considered when evaluating the **Sustainability Profiles** of alternative designs for information systems?
- How can eCommerce theory be most effectively applied to **Carbon Trading**?
(Expected Citation-Count – 20; Actual – 1)

Dominance of the Economic Dimension

A Pilot Study of Venues in 2014

<u>Venue</u>	<u>Sample</u>	<u>Size</u>	<u>Economic Dimension</u>	<u>Social Dimension</u>	<u>Enymtal Dimension</u>
ISR	48	100%	48	0	0
AMCIS	43	10%	40	3	0
EJIS	43	100%	41	2	0
Bled	45	100%	43	2	0
AJIS	38	100%	36	2	0
ACIS	36	20%	35	1	0
Total	253		243	10	0
			96%	4%	0%

Dominance of System-Sponsor Perspective

A Pilot Study of Venues in 2014

Venue	Sample Size	----- Perspective -----			
		<u>System Sponsor</u>	<u>Other Party</u>	<u>Multi-Perspective</u>	
ISR	48	100%	47	1	0
AMCIS	43	10%	39	4	0
EJIS	43	100%	39	2	2
Bled	45	100%	41	3	1
AJIS	38	100%	37	1	0
ACIS	36	20%	31	2	3
Total	253		234	13	6
			92%	5%	2%

ACIS'15

SS Can recommendation agents drive impulsive purchase behaviour?

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M Can pathology reporting be improved through business intelligence report design techniques?

ACIS'15

SS Can recommendation agents drive impulsive purchase behaviour?

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M Can pathology reporting be improved through business intelligence report design techniques?

Soc What is the correlation between uses of ICT and health outcomes in Africa? (Social Dimension)

Does broadband connectivity maintain bonding and bridging for households in rural communities? (Social)

Opportunities Arising from the Recognition of Perspective

A Test of the Perspective Notion

Is the following a legitimate IS research question?

Let's stop sending printed invoices through the post.

...

*How can an organisation appreciate
and manage the impacts on all parties?*

*What is 'a feasible and good' design process
to reflect the perspectives of all stakeholders?*

'Big Picture' Issues

- Pornography as a Driver of Net Traffic
Videotex ... Web ... P2P ... Netflix ...
(2 in Abstracts among 30,000 entries in AISeL)
- Role of IS and ICT in the GFC
- Sexting (0 in Abstracts in AISeL)
- IS for Appropriate Resource-Usage
- Target Acquisition by
Airborne Robots
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AJIS Section Release: Research on Indigenous use of Information and Communication Technologies

[Editorial for the Indigenous use of Information and Communication Technologies Section](#)

Peter John Radoll, John Campbell

[Impact of ICT usage on indigenous peoples' quality of life: Evidence from an Asian developing country](#)

Md Mahfuz Ashraf, Helena Grunfeld, Ali Quazi

[Mediating Tragedy: Facebook, Aboriginal Peoples and Suicide](#)

Bronwyn Lee Carlson, Terri Farrelly, Ryan Frazer, Fiona Borthwick

[Citizen Perceptions of E-Government in the Kurdistan Region of Iraq](#)

Khosro Mohammad Ahmed, John Campbell

What about Public Policy?

- A matter of regional or national **significance**
- Has **social, economic and environmental aspects**
- Requires **negotiation** of Objectives and Principles
- Steps to achieve the Objectives include:
 - Regulatory Measures
 - Resource Allocation
 - **Conception, articulation and implementation of Programs of Action**
- Depends on multi-organisational **collaboration** across the public, private and voluntary sectors

Features of Public Policy Research

- **The Driver** is desire to address a **Problem** of an economic, social and/or environmental nature
- **The Purpose** is to devise possible **Solutions**, evaluate them, articulate them, implement them
- The mode is **Normative**, not merely descriptive, explanatory or predictive
- The mind-set is **Instrumentalist**, not Pure (pursue knowledge) or Applied (of a tool)
- **Quality** is essential, whereas Rigour is desirable

Opportunities Arising from the Recognition of Perspective

- Comparative-Perspective Research leading to better insights for System Sponsors
- Multi-Perspective Research
- Better Constructivist Research e.g. Participative Design Science
- Phronetic Research, to complement Episteme (Science) and Techne (e.g. Design Science)
- Instrumentalist rather than Applied Research
- Research in support of Public Policy

Implications for Individual Researchers

- (1) **Discover** perspective as an important element of research conception, design, conduct and reporting
- (2) **Deliberate** on the alternative perspectives that are relevant to the context
- (3) **Determine** the perspective(s) to be adopted
- (4) **Declare** the perspective(s) adopted

What {MIS? WI? IS/IM?} Needs to Do

- Acknowledge the existence of perspectives other than that of the client / system sponsor
- Acknowledge in particular the perspectives of users, prosumers and uses
- Recognise them not merely as 'actors'
- Embrace participative analysis and design
- Embody explicit recognition of human diversity, i.e. a rich set of segmentation models
- Include individuals' representatives and advocates within 'business / people processes'



**Recognise Perspective in IS Research
Without Blinkers, We Can Soar!**

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