

Transforming Systems

From

Transforming Systems

to

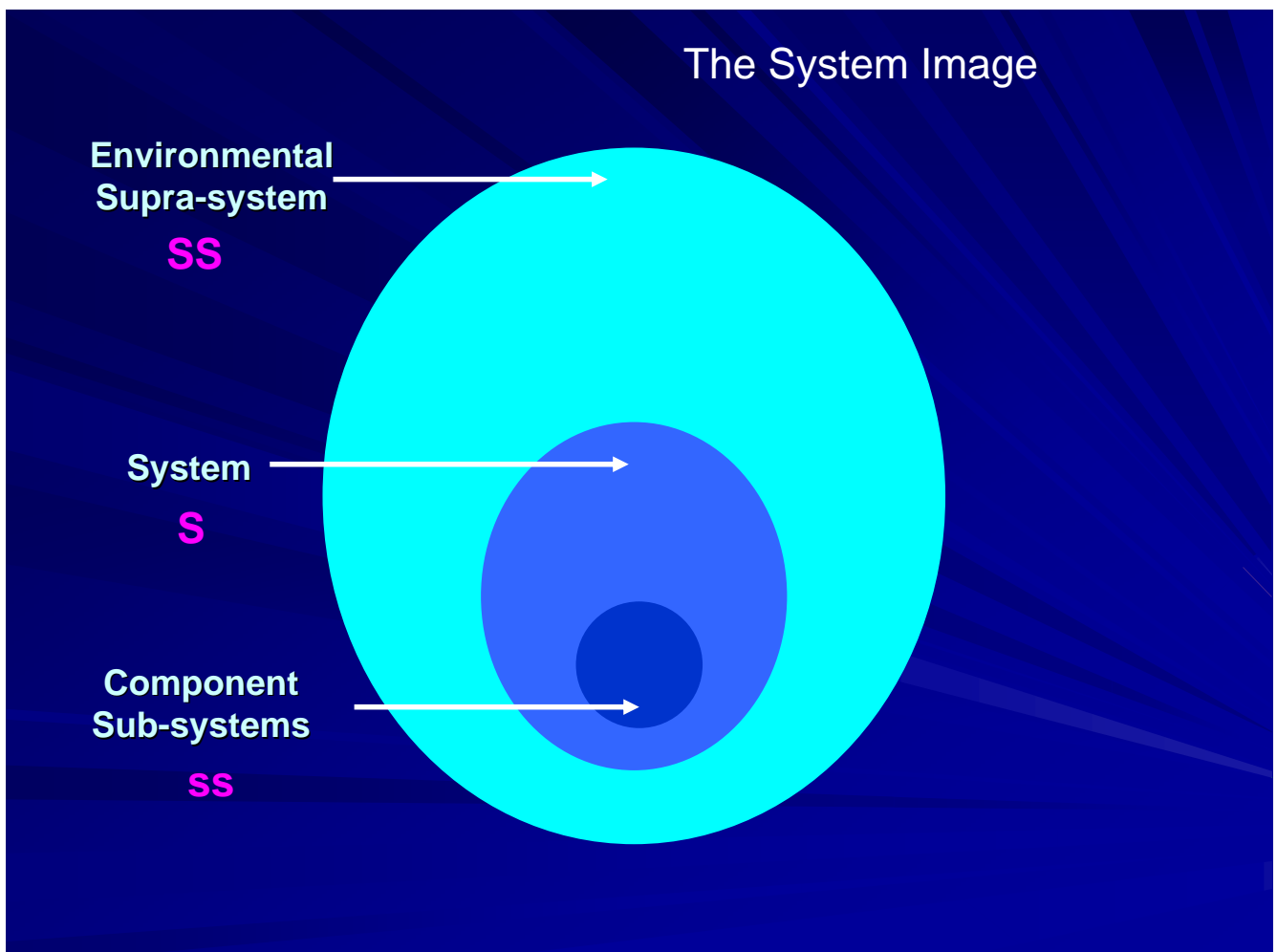
Transforming Systems

and

Back Again

The Systems Dimension of FSR

1996

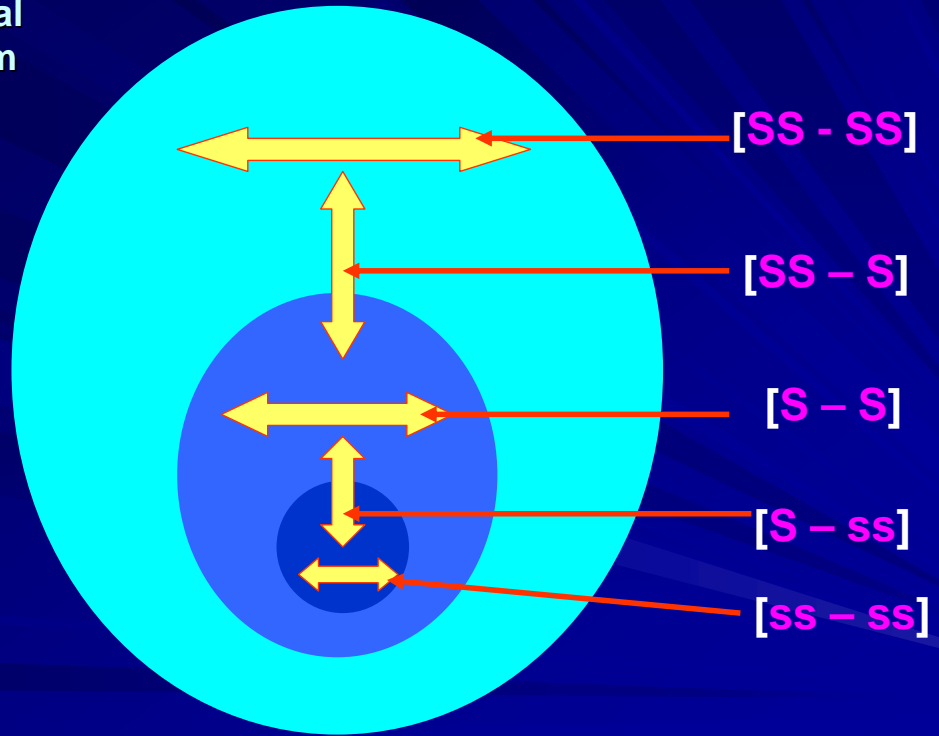


Systemic Relationships

Environmental
Supra-system

System

Component
Sub-systems

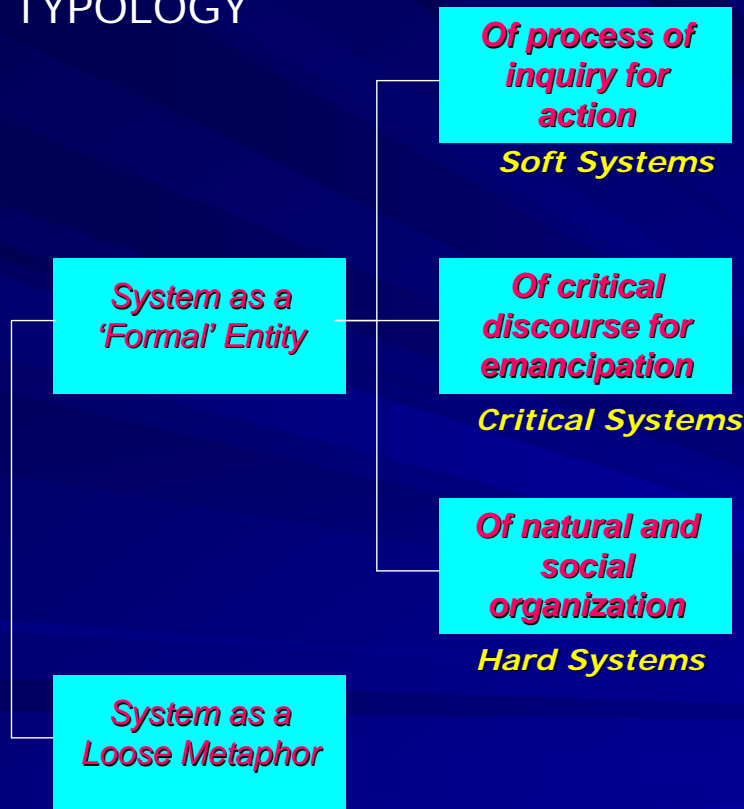


A SYSTEMS TYPOLOGY

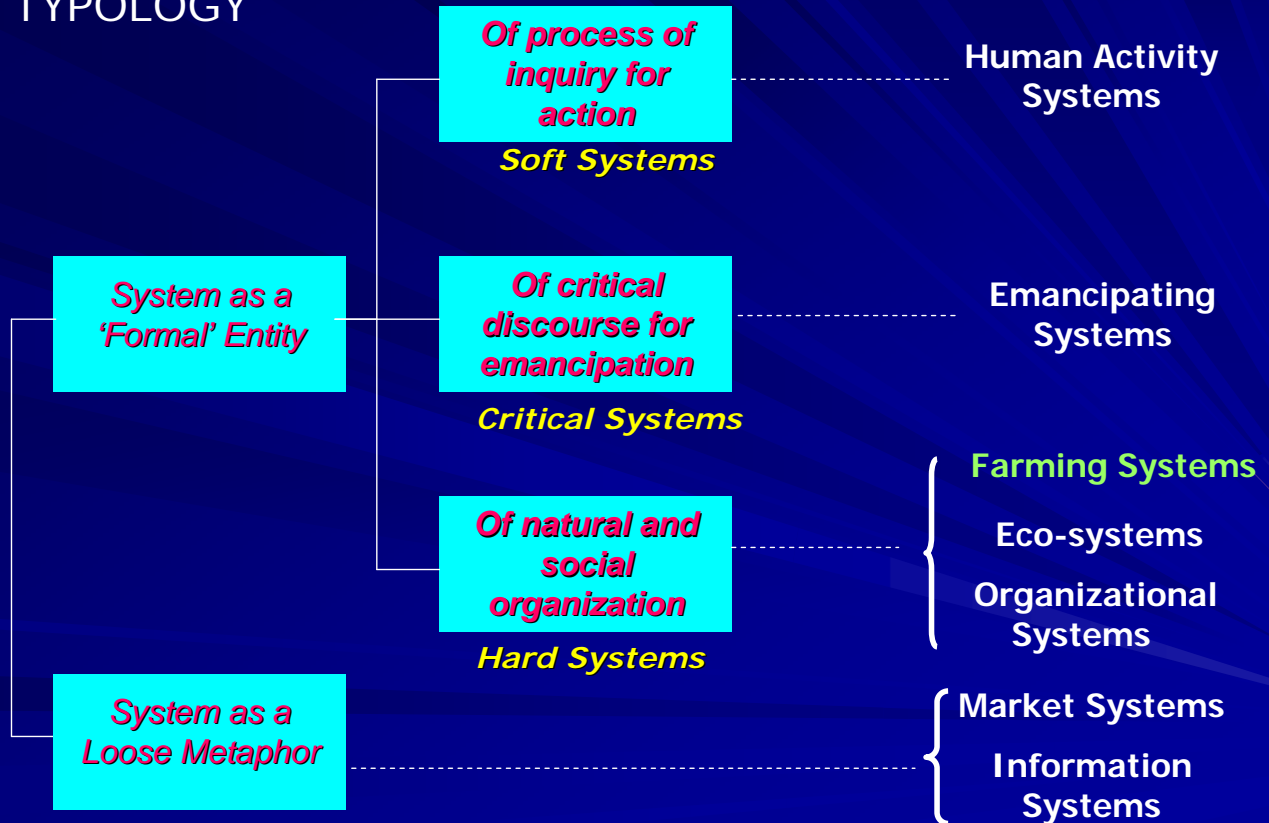
*System as a
'Formal' Entity*

*System as a
Loose Metaphor*

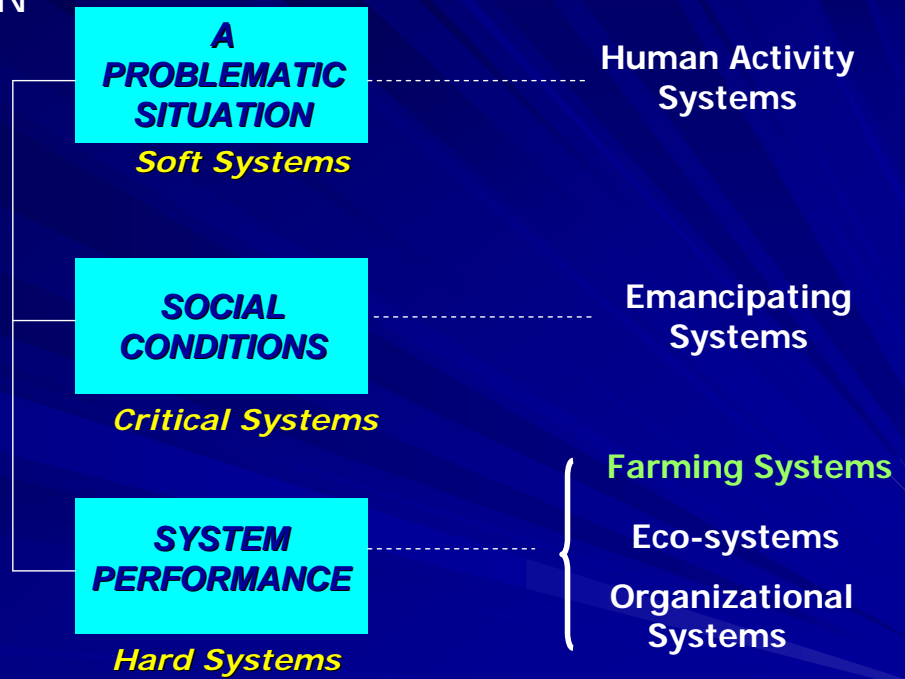
A SYSTEMS TYPOLOGY



A SYSTEMS TYPOLOGY

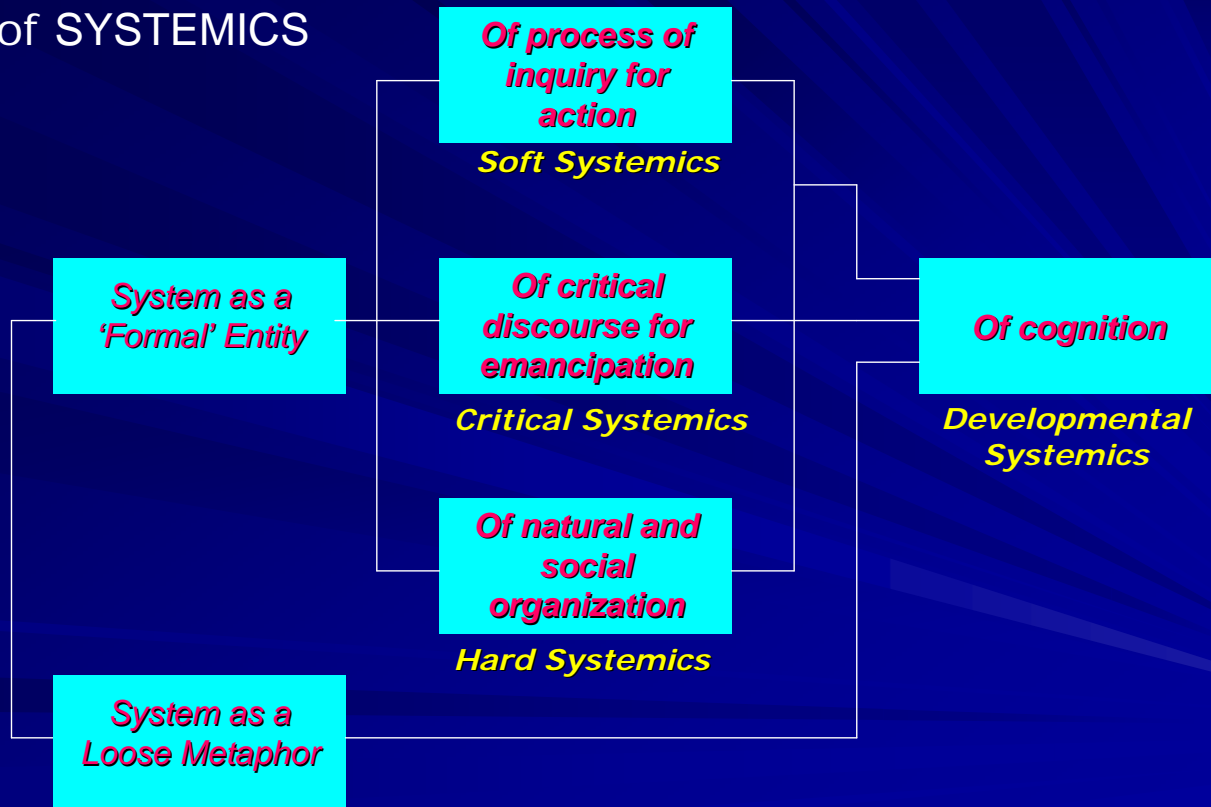


THE FOCUS OF TRANSFORMATION



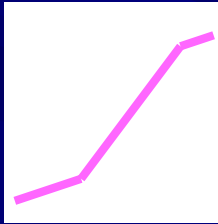
Systemics
is the art, science, and
practice of approaching
the world from a
systems perspective

A TYPOLOGY of SYSTEMICS



Why the shift?

Production



Productivity

**TRENDS IN AUSTRALIAN
AGRICULTURE 1950s - 1970s**

MARKETS

POST
HARVEST

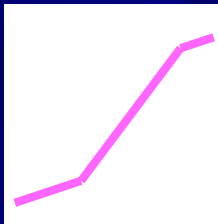
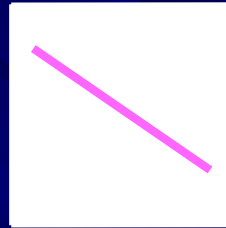
PRODUCTION

INPUTS

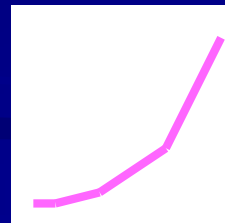
The Traditional Focus

Terms of Trade

Production



Productivity

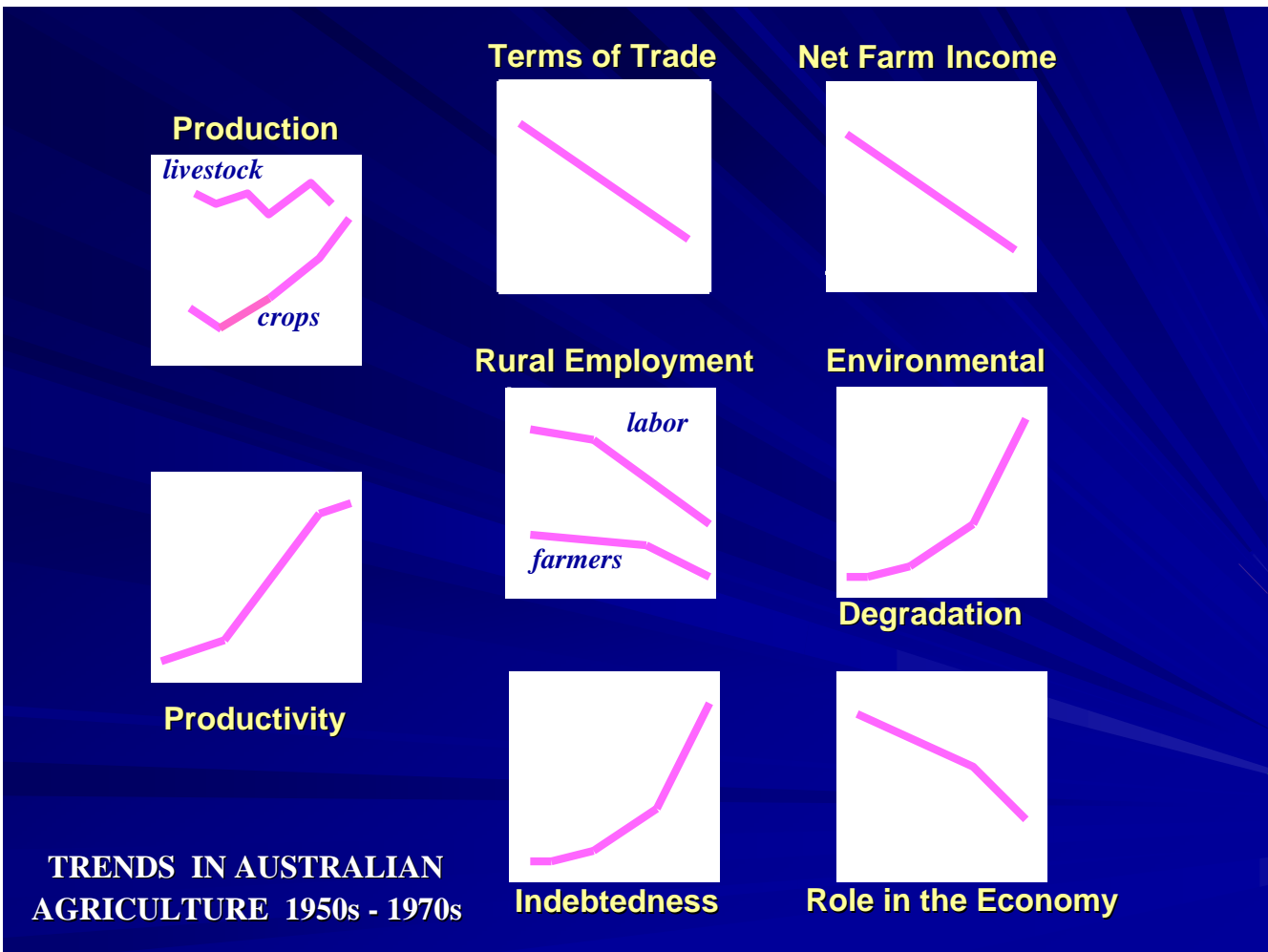
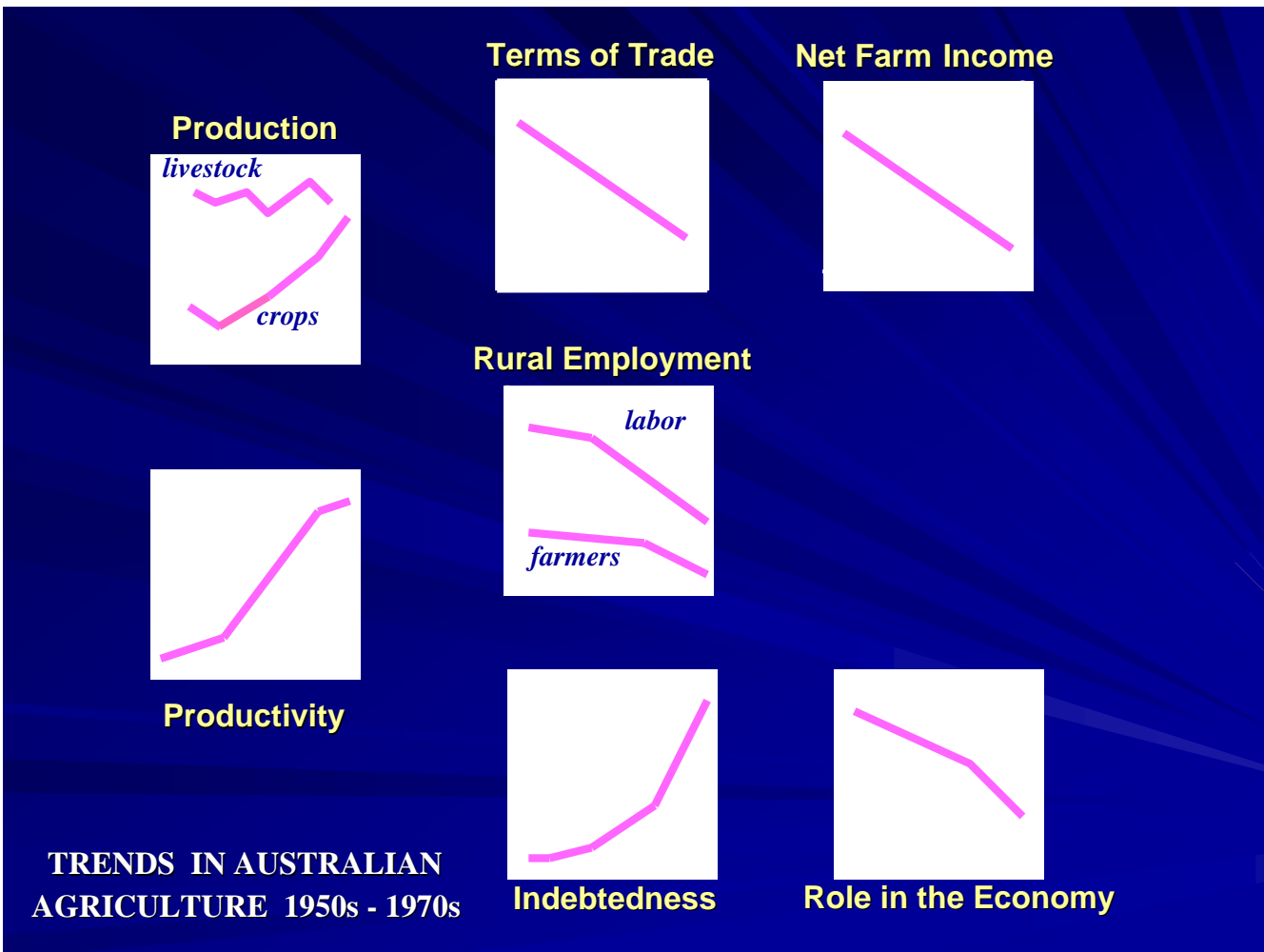


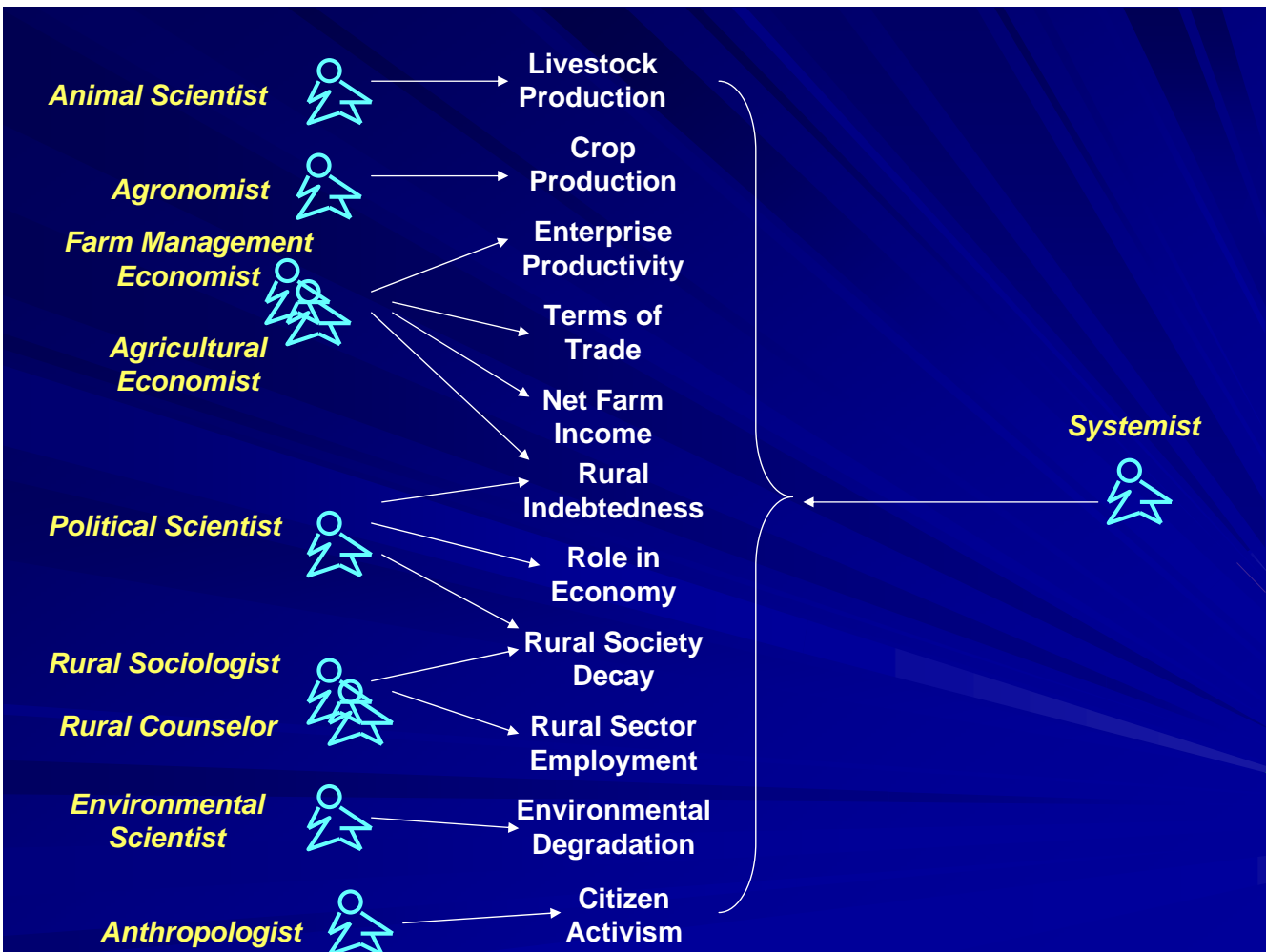
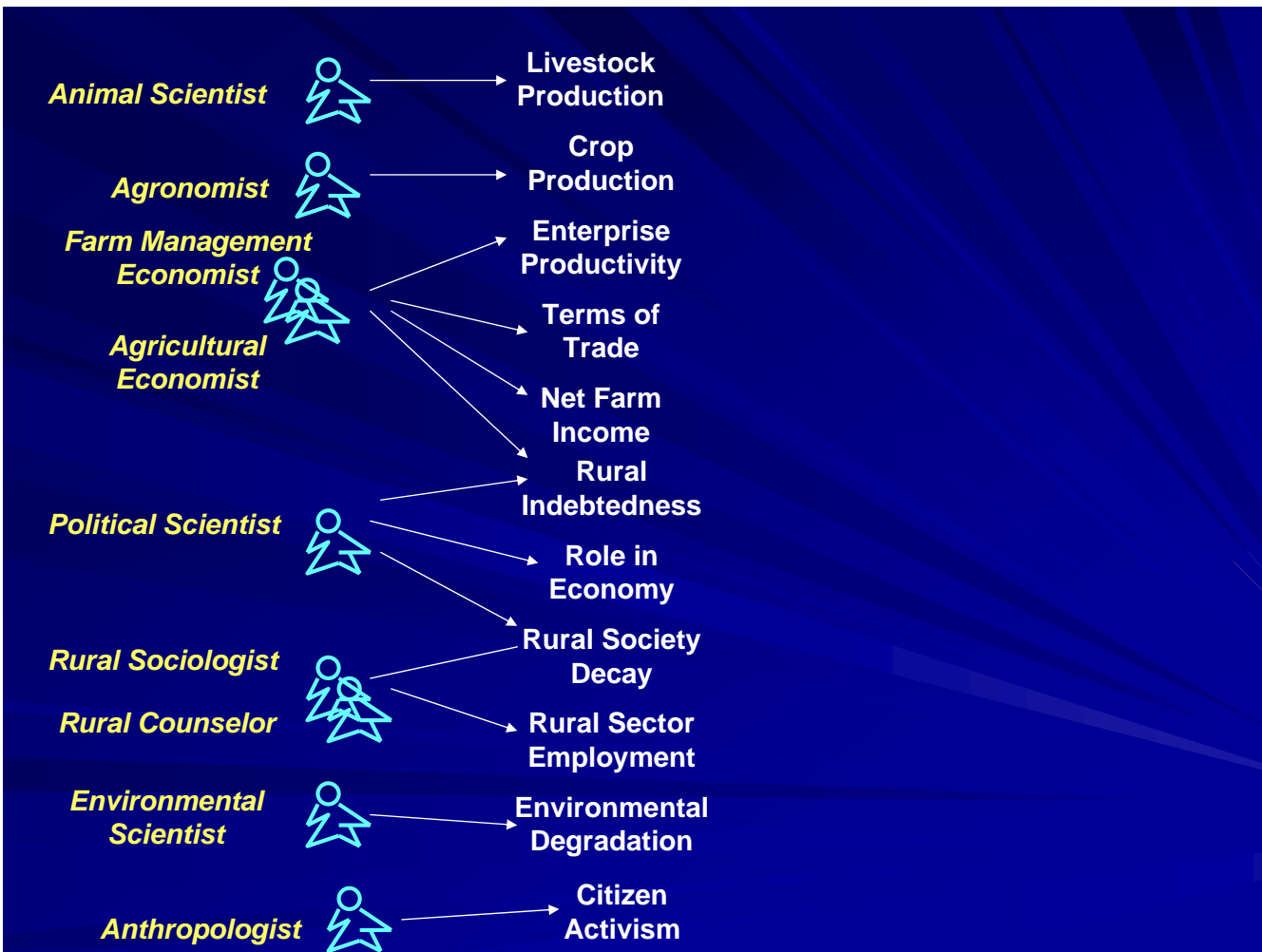
Indebtedness

TRENDS IN AUSTRALIAN
AGRICULTURE 1950s - 1970s



Value Chain Approach

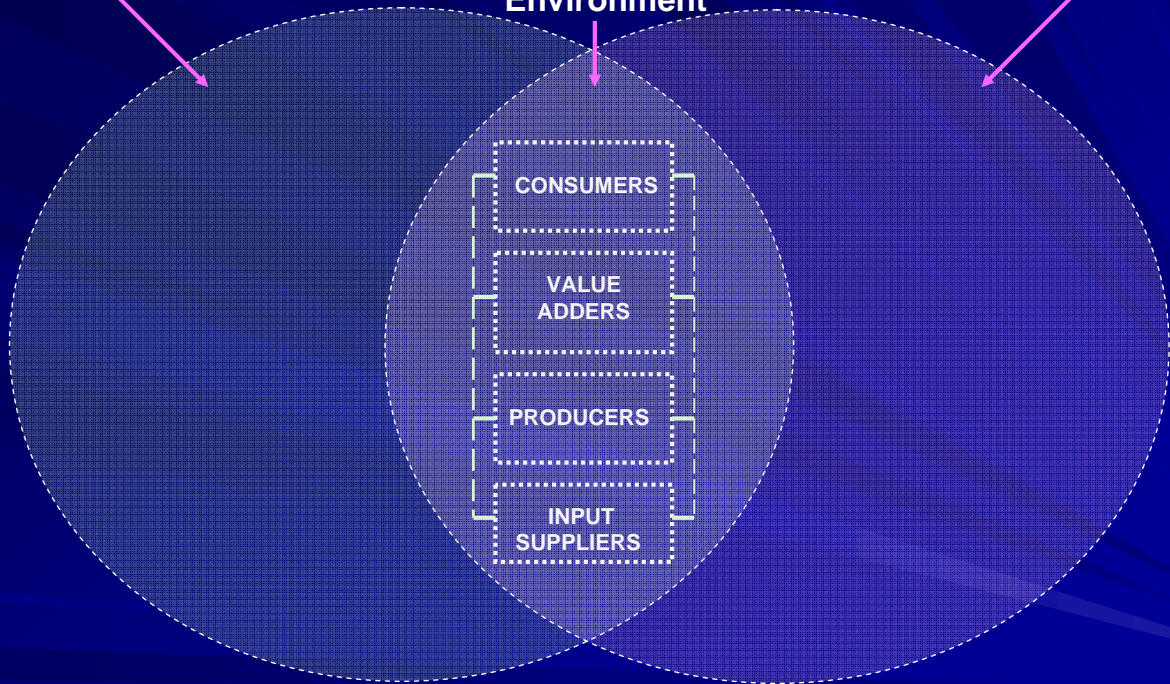




Bio-physical Environment

Institutional Environment

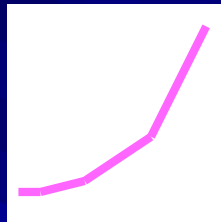
Socio-cultural Environment



The Agri-food System and its Environments.

Rural Society Decay

Consumer Resistance



Citizen Activism

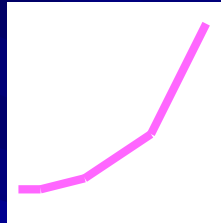
Substance and Person Abuse

Schooling Banking Health Shopping Infrastructures Clubs

Rural Society Decay

Food Safety
Food Security
Health Issues

Consumer Resistance



Citizen Activism

Land Rights
Animal Welfare
Environment
Landscape
Water
Land Use

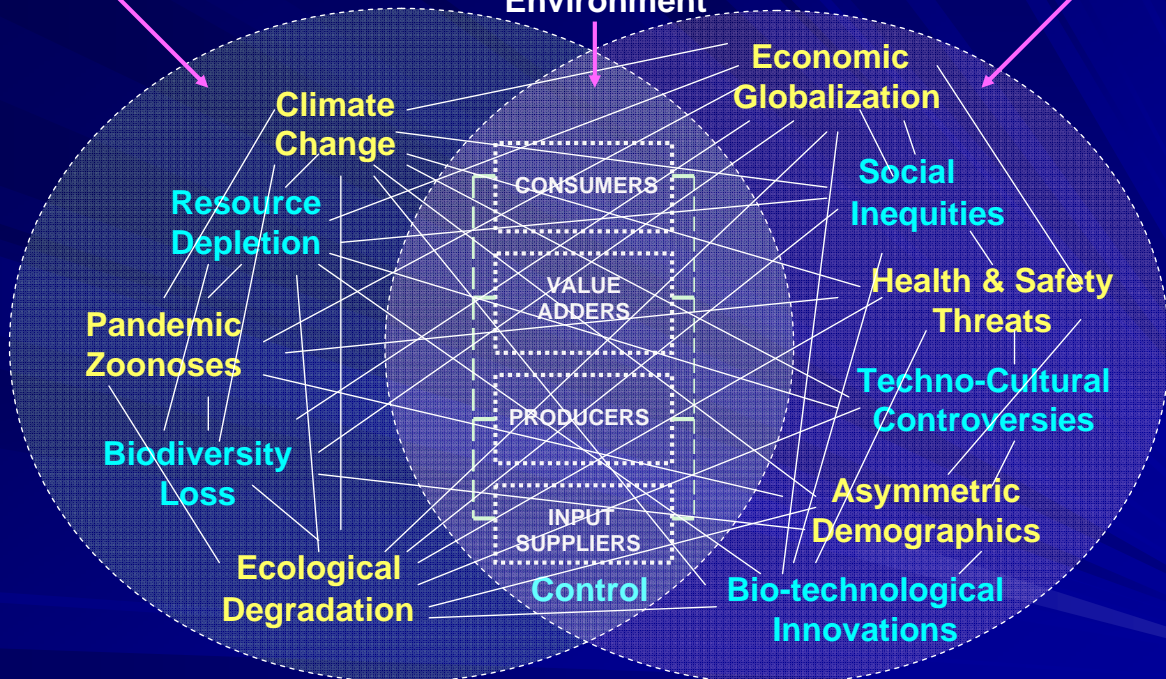
Substance and Person Abuse

Suicides Violence Alcoholism Petrol sniffing

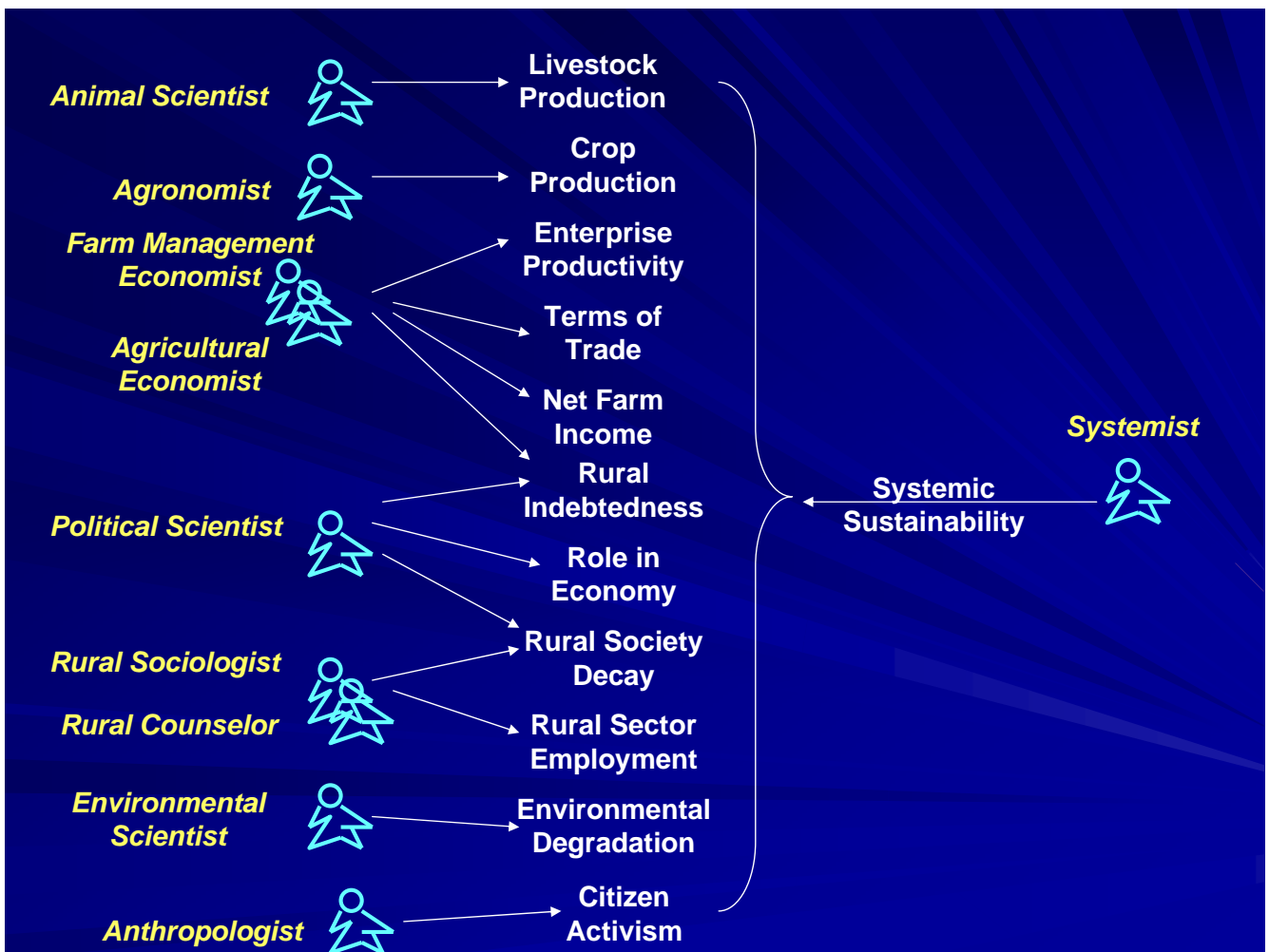
Bio-physical Environment

Institutional Environment

Socio-cultural Environment



The Agri-food System and its Dynamic Complex Environments.



**This represents a profound challenge to prevailing systems of beliefs, assumptions and values:
our epistemic systems**

A Shift in Worldviews - Epistemes

Productivism

Technical
Feasibility

Economic
Viability

Social
Desirability

Political
Acceptability

A Shift in Worldviews - Epistemes

Productivism

Technical
Feasibility

+

Economic
Viability

+

Social
Desirability

+

Political
Acceptability

+

+

+

+

Sustainabilism

Ecological
Responsibility

+

Ethical
Defensibility

+

Spiritual
Sensibility

+

Cultural
Sensitivity

The System Image

Environmental
Supra-system

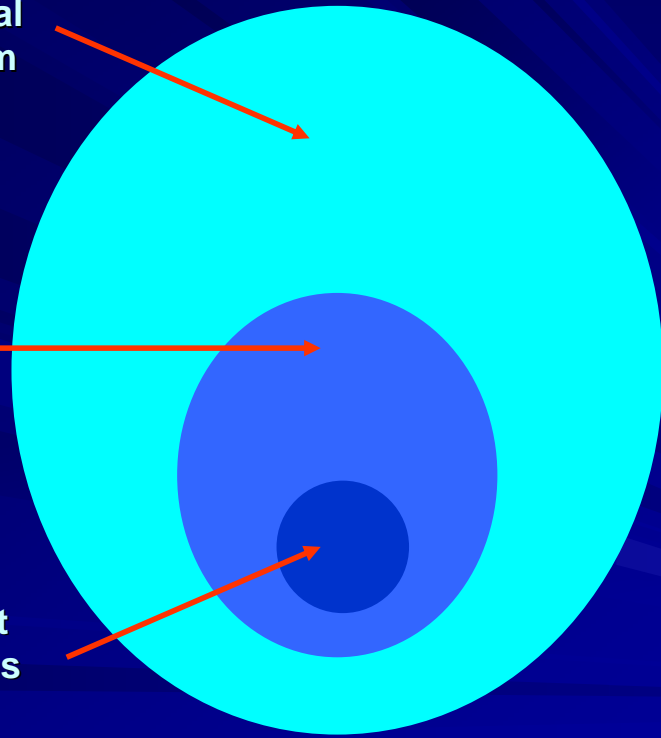
[SS]

System

[S]

Component
Sub-systems

[ss]

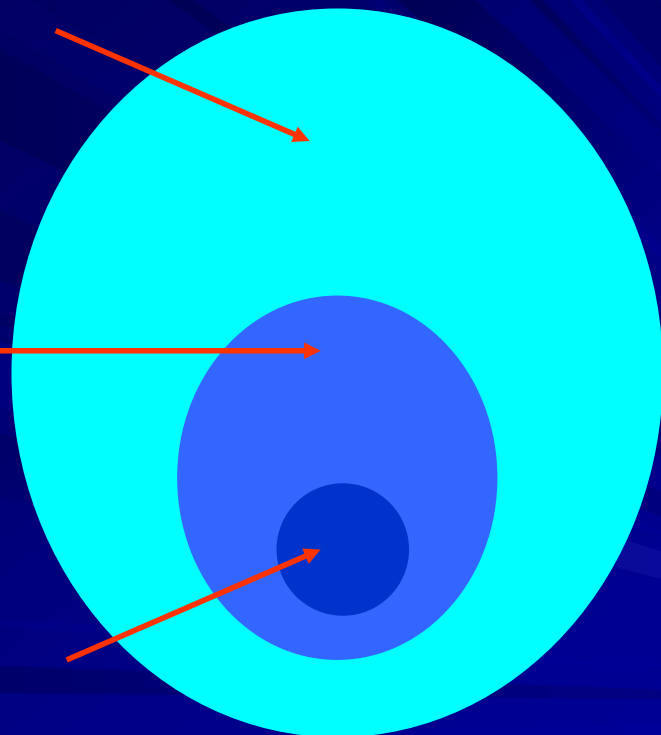


A Cognitive System

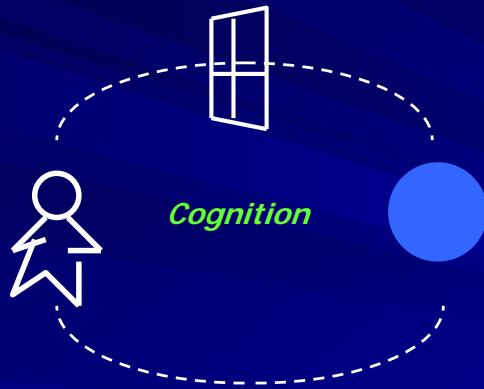
Epistemic
Cognition

Meta
Cognition

Cognition

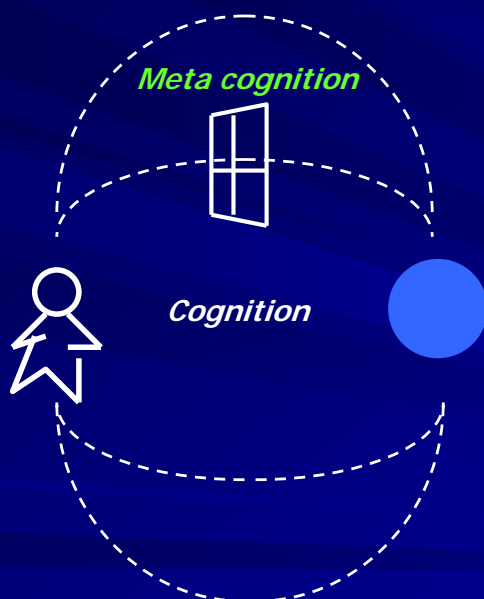


The Nature of Cognitive Systems Level 1: Cognition.



What is the issue of concern that I am are trying to **know more about**? What am I coming to **know about it**?

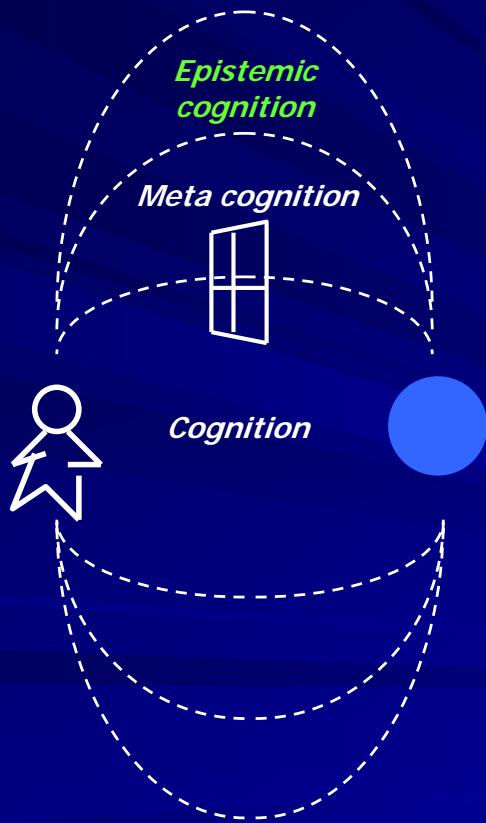
The Nature of Cognitive Systems Level 2: Meta-Cognition.



What are the cognitive activities that I am using for my **process of knowing**? How am I going about my **knowing**?

What is the issue of concern that I am are trying to **know more about**? What am I coming to **know about it**?

The Nature of Cognitive Systems Level 3: Epistemic-Cognition.

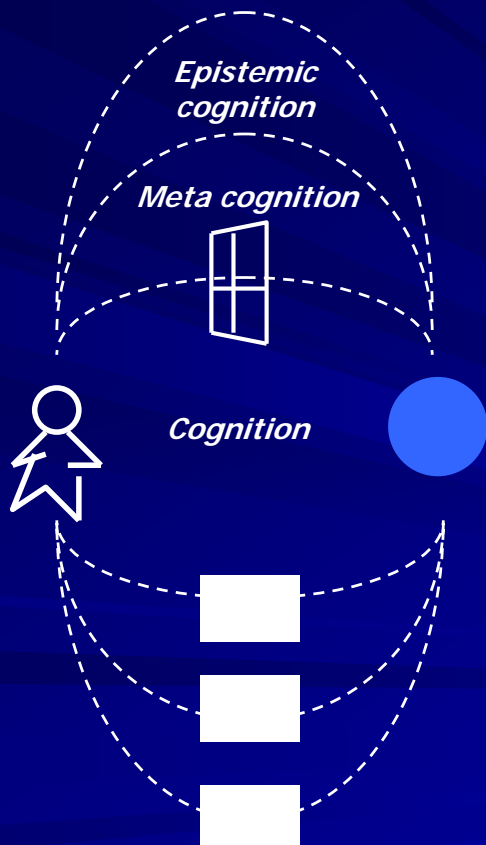


What influences are the particular **epistemic beliefs** and **value assumptions** that I hold, having on my **knowing**?

What are the cognitive activities that I am using for my process of **knowing**? How am I going about my **knowing**?

What is the issue of concern that I am are trying to **know** more about? What am I coming to **know** about it?

The Nature of Cognitive Systems Knowledgeable Action



What influences are the particular **epistemic beliefs** and **value assumptions** that I hold, having on my **knowing**?

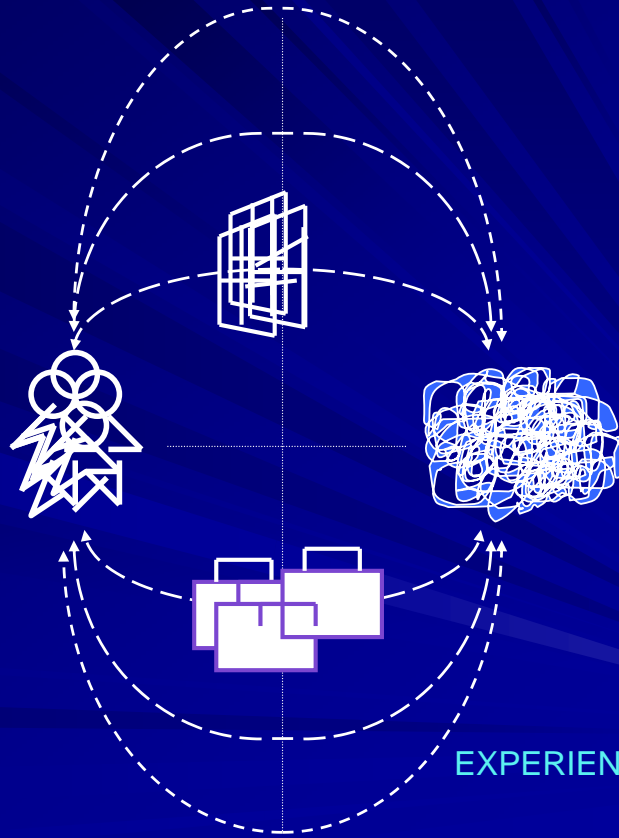
What are the cognitive activities that I am using for my process of **knowing**? How am I going about my **knowing**?

What is the issue of concern that I am are trying to **know** more about? What am I coming to **know** about it?

And how am I transforming all of this **knowledge** into **responsible** and **effective action** at all levels?

CONCEPTUAL

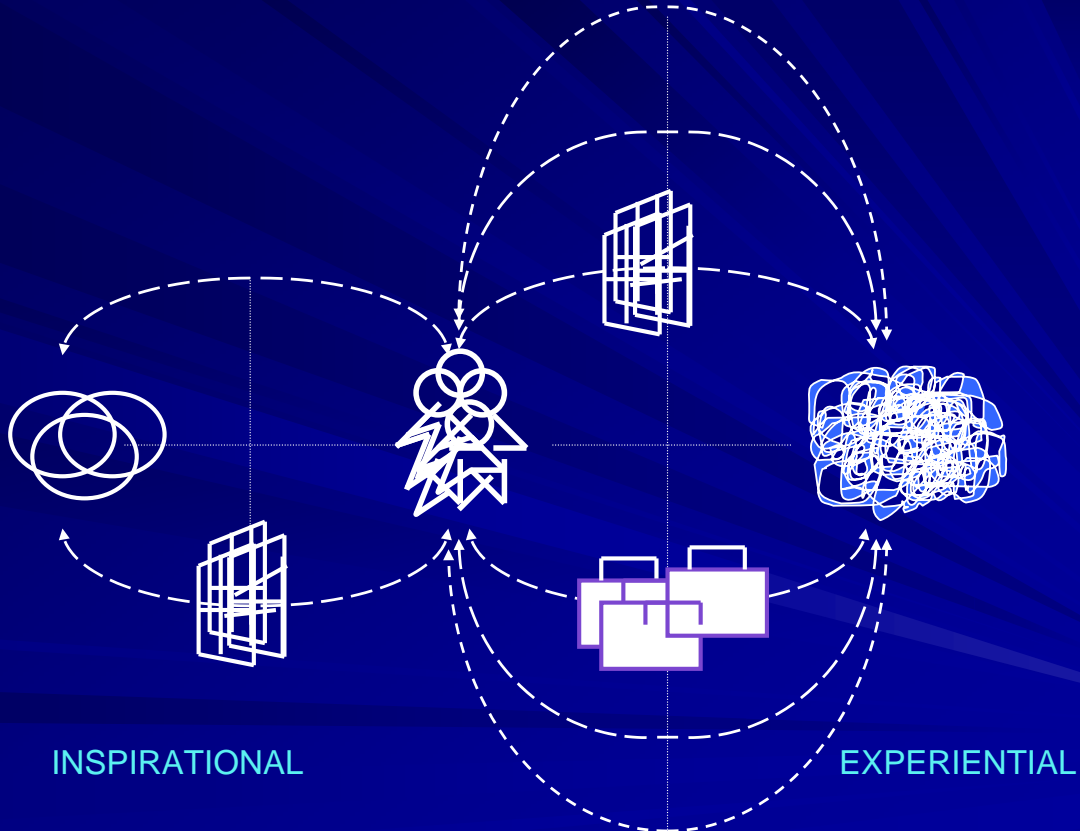
SENSUAL

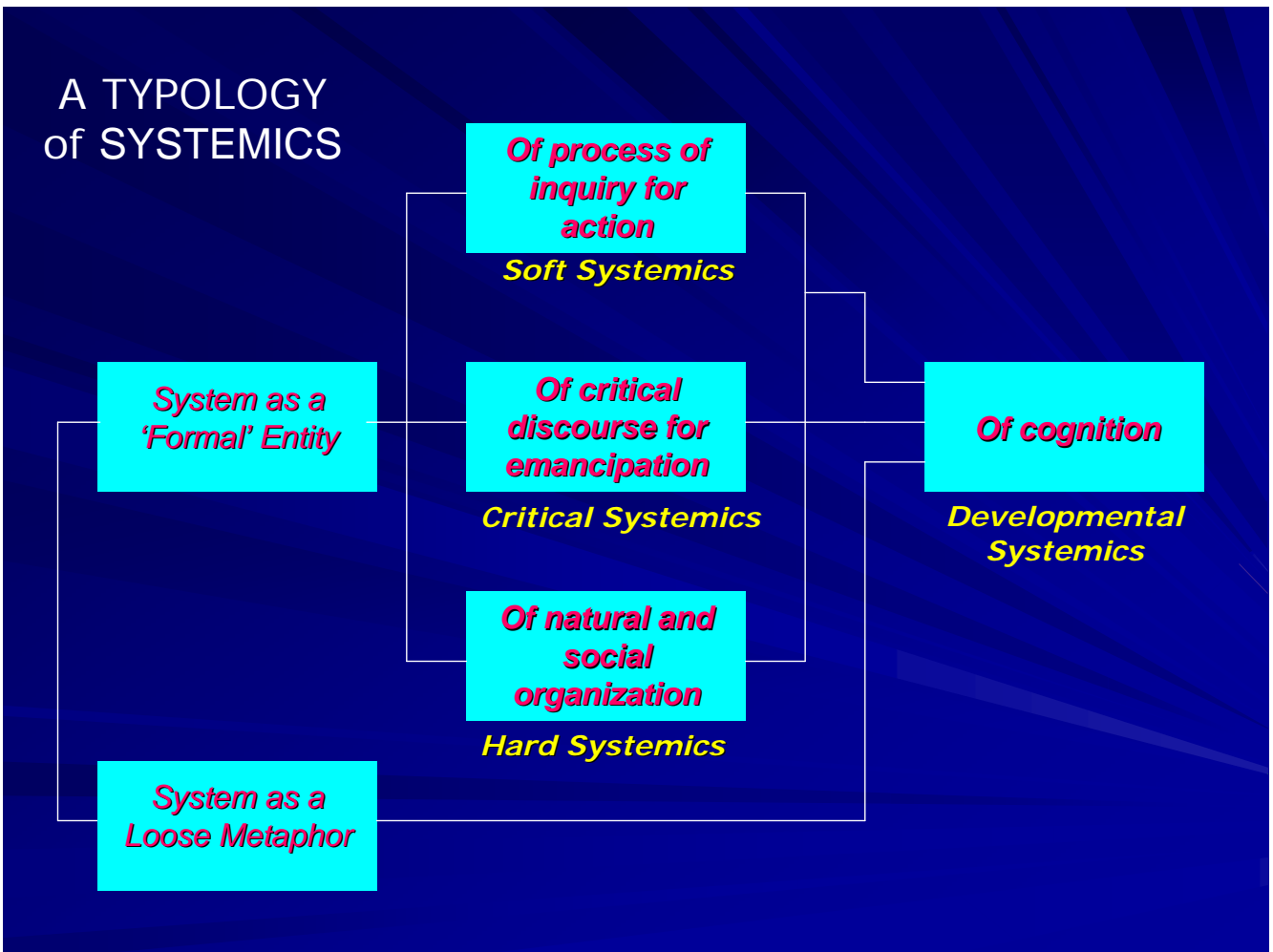
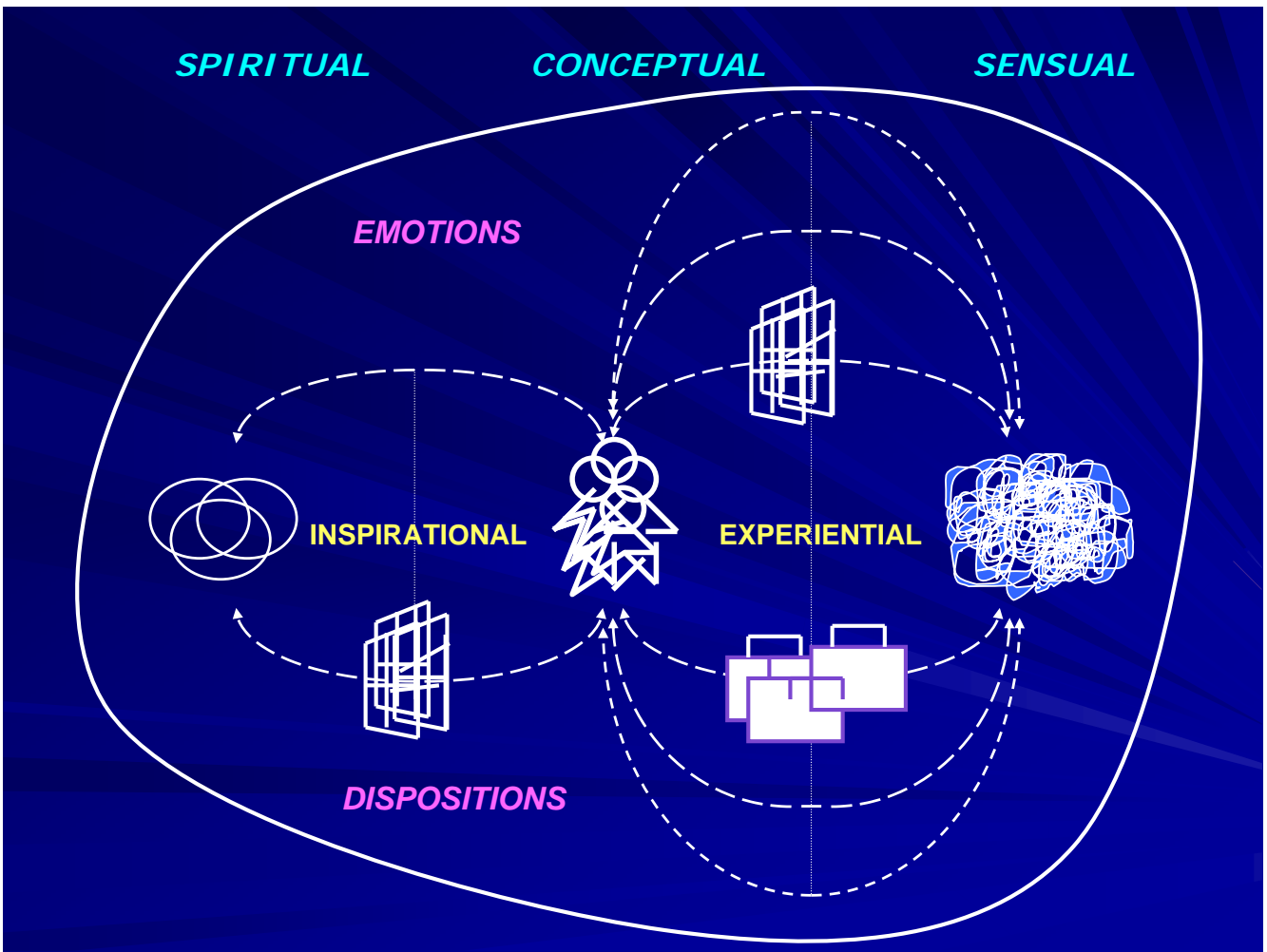


SPIRITUAL

CONCEPTUAL

SENSUAL





	S STRENGTHS	W WEAKNESSES
CONSUMERS		
VALUE-ADDERS		
PRODUCERS		
SUPPLIERS		

	S STRENGTHS	W WEAKNESSES	O OPPORTUNITIES	C CHALLENGES
CONSUMERS				
VALUE-ADDERS				
PRODUCERS				
SUPPLIERS				
INSTITUTIONAL ENVIRONMENT				
BIO-PHYSICAL ENVIRONMENT				
SOCIO-CULTURAL ENVIRONMENT				

		S	W	O	C	A
		STRENGTHS	WEAKNESSES	OPPORTUNITIES	CHALLENGES	ACTIONS & IMPACTS
<ul style="list-style-type: none"> CONSUMERS VALUE-ADDERS PRODUCERS SUPPLIERS 						
	INSTITUTIONAL ENVIRONMENT					
	BIO-PHYSICAL ENVIRONMENT					
	SOCIO-CULTURAL ENVIRONMENT					

Thank You