



**Leading education  
and social research**

Institute of Education  
University of London

# Workshop on the method for policy support in universities

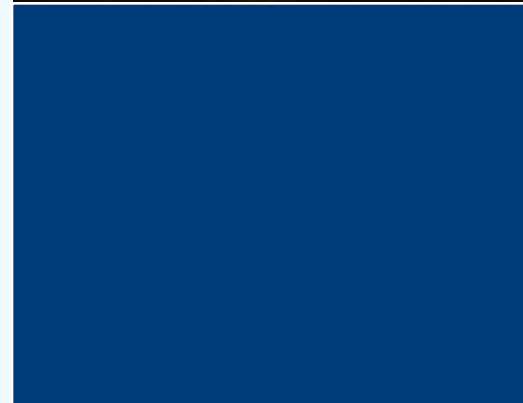
PARI and SciTePP Workshop  
University of Tokyo

16<sup>th</sup> March 2009

David Gough



**The EPPI-Centre is part of the Social Science Research Unit at the  
Institute of Education, University of London**



Conducting reviews since 1993  
In health promotion,  
education, social care, crime,  
transport, work and pensions

Support and tools for review groups:  
Education (25 groups, 70+ reviews),  
criminology, employment,  
speech and language, social care  
  
EPPI-Reviewer software

Formal links  
with Cochrane  
and Campbell  
Collaborations

Methodological work, e.g.  
Methods for Research Synthesis Node of  
the ESRC National Centre  
for Research Methods

ESRC National Centre for

Research  
Methods

E·S·R·C  
ECONOMIC  
& SOCIAL  
RESEARCH  
COUNCIL

On-line libraries  
of research evidence

Short courses and  
Masters course  
in evidence for  
public policy and practice

# Content

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1. Systematic reviews (SRs)
2. SRs uses
3. Policy support
4. Other benefits for universities
5. EIPP politics and democracy

# 1. Systematic reviews

- What do we know from ***all relevant*** research
- Individual studies fallible (design, execution, random error, context/focus)
- Sub samples of studies may bias findings
- Nature of expert summaries – analytic skills, experience and insight but not explicit boundaries and perspective

***So need some method of review***

# What is a systematic review?

Formal accountable method for bringing together what we know – **accessible** and **understandable** and **explicit** about how framed and how executed.

- **Systematic:** ‘done or acting according to a fixed plan or system; methodical’
- **Review:** ‘a critical appraisal of a book, play, or other work’ (OED)

A piece of research just like primary research

# What questions to review?

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- Reviews often for ‘what works’ impact questions in health reviewing randomized controlled trials
- But can apply to all research questions and thus all primary research designs
- From quantitative experimental (statistical empirical meta analysis) to meta ethnography (conceptual synthesis)

# The common stages of a systematic review

**Form review team (involve 'users')**



**Formulate review question, conceptual framework and inclusion criteria (develop 'protocol')**



**Search for and identify relevant studies**



**Describe studies**



**Assess study quality (and relevance)**



**Synthesise findings**



**Communicate and engage**



**Map**

**Synthesis**



# Examples

- What research has been undertaken on TA in nano technology? – systematic **map** of various aspects of studies to date
- What is the relative effect of a medicine on disease survival rates? – **statistical meta synthesis** of RCTs
- How do government officers take up new social policies – **conceptual synthesis** of qualitative process studies of social policy innovation

# Mixed methods: barriers to, and facilitators of, fruit and veg intake amongst children aged 4 to 10 years?



**MAPPING**  
(193 studies in 272 reports)



**Trials (N=33)**  
1. Application of inclusion criteria  
2. Quality assessment  
3. Data extraction  
4. **Statistical meta-analysis**

**'Views' studies (N=8)**  
1. Application of inclusion criteria  
2. Quality assessment  
3. Data extraction  
4. **Thematic synthesis**



**Trials and 'views'**  
**Mixed methods synthesis**

# Different types of knowledge for policy and practice decisions

<b>Knowledge source</b>	<b>Knowledge gained by/ from...</b>
Research	Doing research and producing research findings
Practitioners	'Doing'
Policy community	The wider policy and political context
Service users	Experience of, and reflection on, service provision
Organisations	Regulations and procedures

Adapted from Pawson R, Boaz A, Grayson L, Long A, Barnes C (2003) *Types and quality of knowledge in social care*. London: Social Care Institute for Excellence.

# Mixed knowledge synthesis

## Knowledge Review question

e.g. What is known about the process and outcome of the recovery model in parental mental health?\*

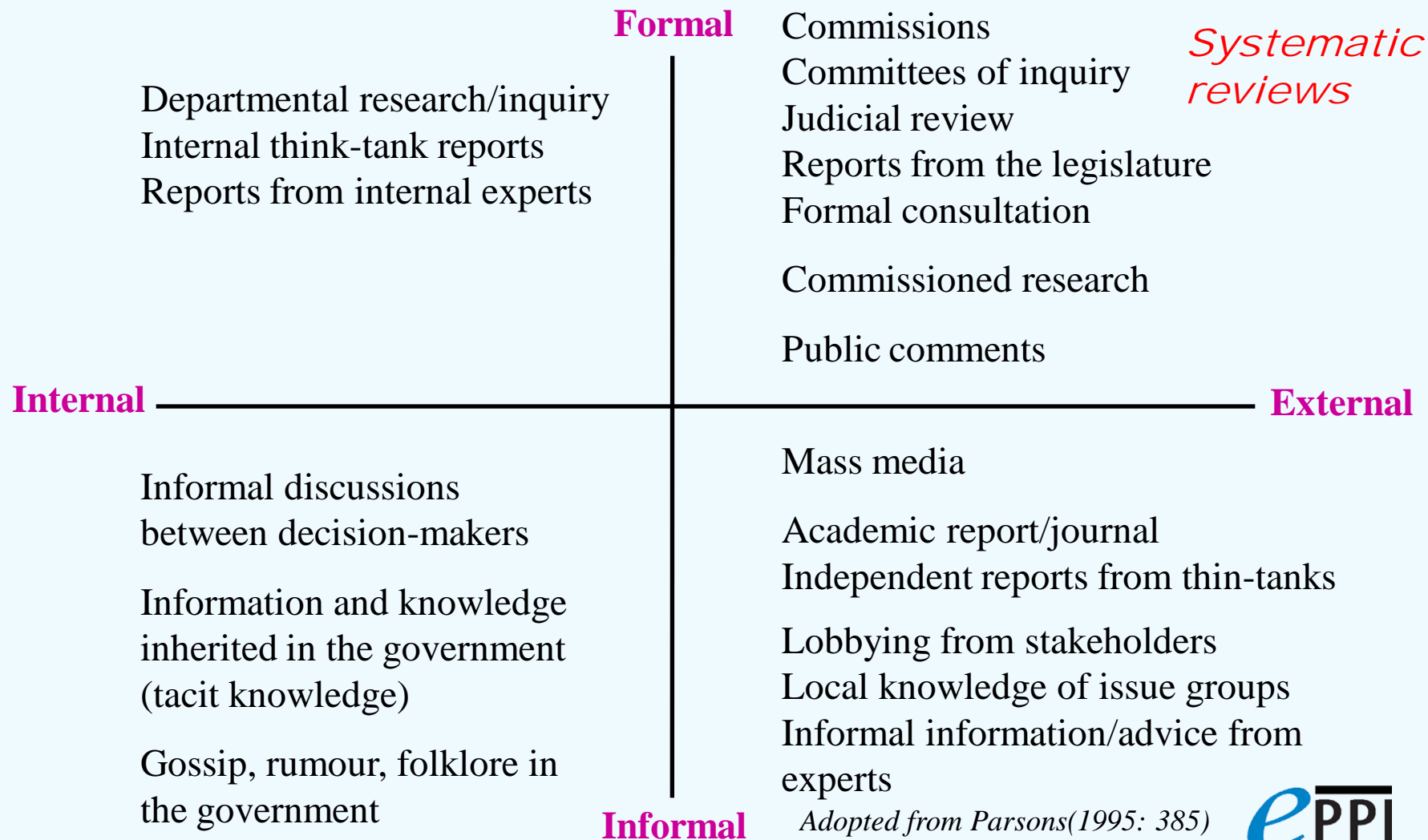
**Research review:** Empirical review of research on process and outcome of recovery model in parental mental health

**Practice survey:** knowledge from the field (survey, literature, etc) about practice (such a accepted wisdom, range or prevalence of approaches)

Knowledge review answer

*\*Knowledge review for SCIE by Kelly and Gough, EPPI-Centre*

# Information and Knowledge Generation *(from Yoshizawa 2009)*



*Adopted from Parsons(1995: 385)*

# 2. SRS uses

## (i) Access to research

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- Quantity – even academics can not keep up with research
- Location – distributed in many journals
- Language - technical
- Skill in quality and relevance appraisal
- Review of field (map) and overall messages (synthesis)

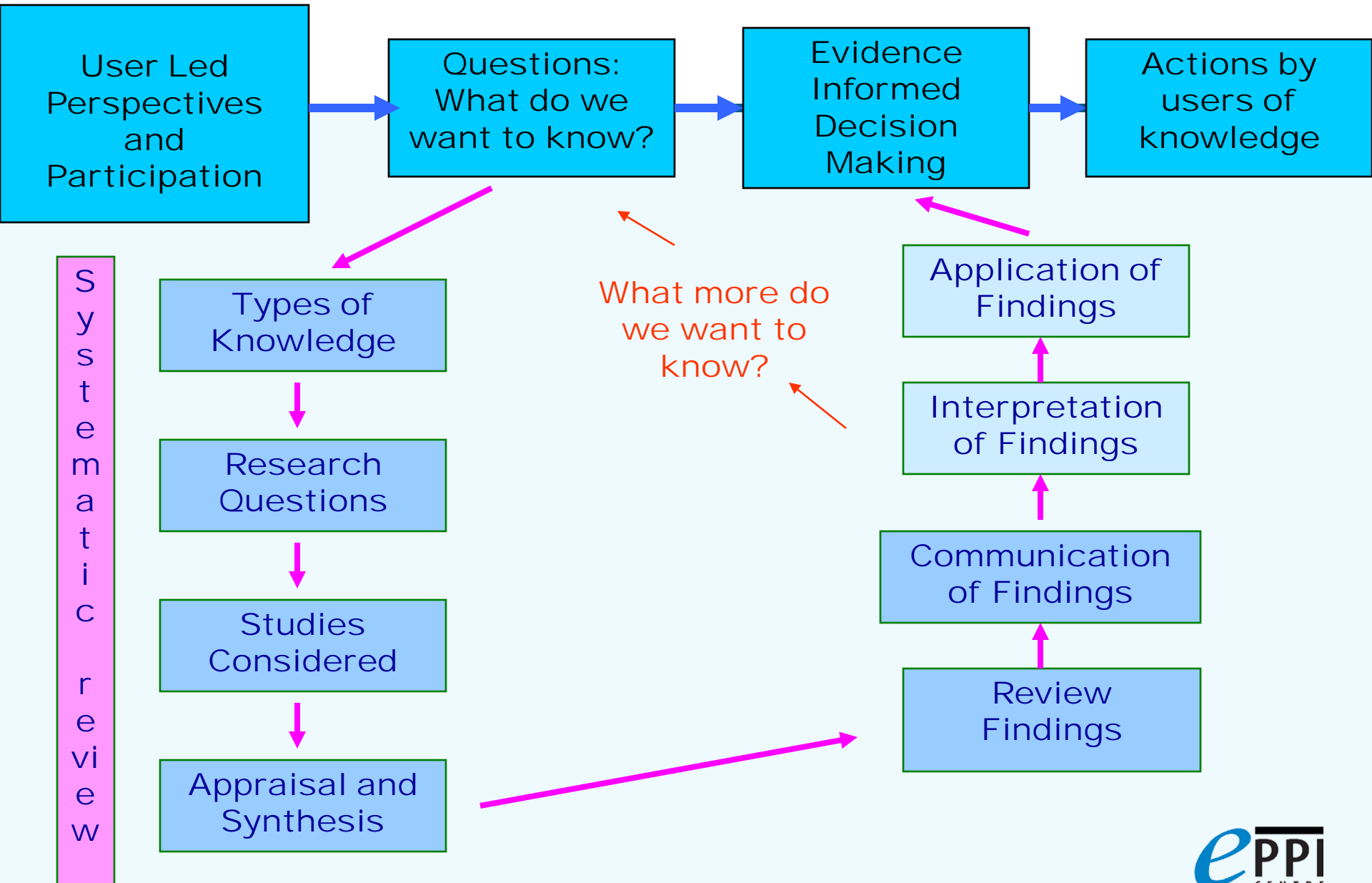
## (ii) What has been studied

- The nature of the research field. What we know about what has been studied (**map**) – what has not been studied!

## (iii) What the research tells us

- What we know about the overall messages (**synthesis**)
  - inform decision making by policy makers, professionals, the public
  - inform the focus of new primary research

# USER LED RESEARCH SYNTHESIS





## For example:

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- How best to teach children to read: teachers strategies based on practice or declarative knowledge
- Theoretical understanding of why many patients do not take their medicines
- Government policy in health service provision: systematic reviews a central component planning research and service delivery

# 3. Policy support – evidence informed policy making

- Knowledge bases (maps, reviews and their components) to inform policy (and funding research gaps)
- Overt and sustainable systems
- Greater distinction between:
  - ideological / theoretical stance of evidence
  - evidence from this stance

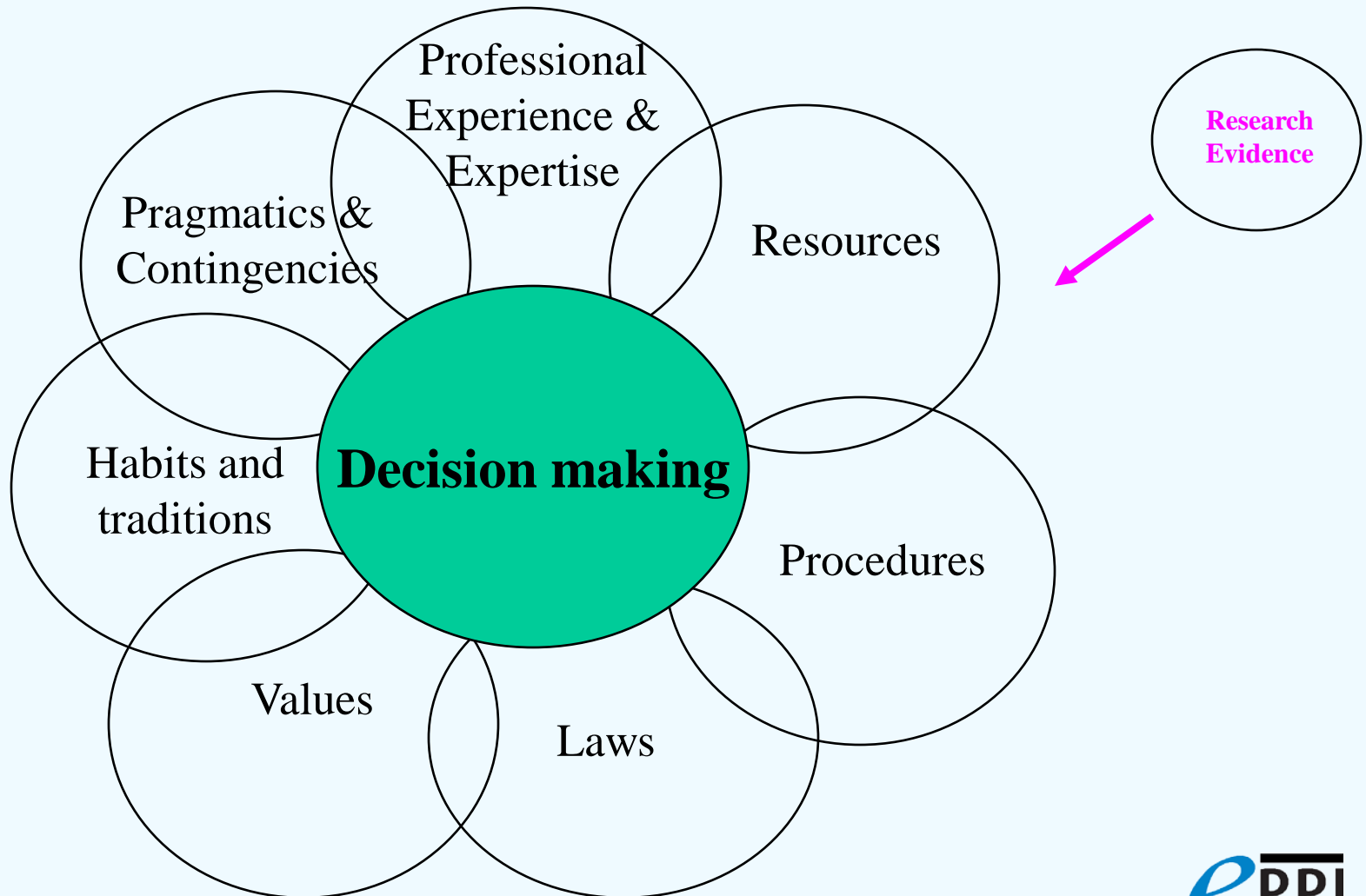
and ...

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- Genuine interest from policy makers and practitioners for research to inform policy - though normal policy dynamics apply
- Irritation from contradictory advice (without clarity as to why) which devalues academic input (perceived as opinion)
- Long term gains in credibility and use of research in policy process

# Research often just one small factor:

*adapted from Davies 2004*



# Intermediary processes / organisations

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- And need further formal processes for interpretation and implementation of the (question driven and ideologically and theoretically derived) synthesized knowledge
- NIHR (National Institute for Health Research) as an example of a comprehensive model:

# The central role of NIHR research in the innovation pathway

**CREATE**

**REFINE**

**EVALUATE**

**APPRAISE**

**USE**

MRC

Basic Research

Development Pathway Funding

Invention for Innovation

Biomedical Research Centres

Biomedical Research Units

Patient Safety and Quality  
Research Centres

Research for Innovation,  
Speculation & Creativity

Research for Patient Benefit

Health Services Research

Programme Grants for  
Applied Research

**National Institute  
for Health Research**

Public Health Research

Service Delivery & Organisation

Health Technology Assessment

Centre for Reviews & Dissemination, Cochrane, TARs

Collaborations for Leadership in Applied Health Res & Care

NHS Purchasing & Supplies Agency Centre for Evidence-based Purchasing

National Institute for Health & Clinical Excellence Guidance on Health & Healthcare

NHS Evidence Access to Evidence

NHS Institute for Innovation & Improvement Support for the NHS

Strategic Health Authorities Duty of Innovation

Primary Care Trusts Healthcare Commissioning

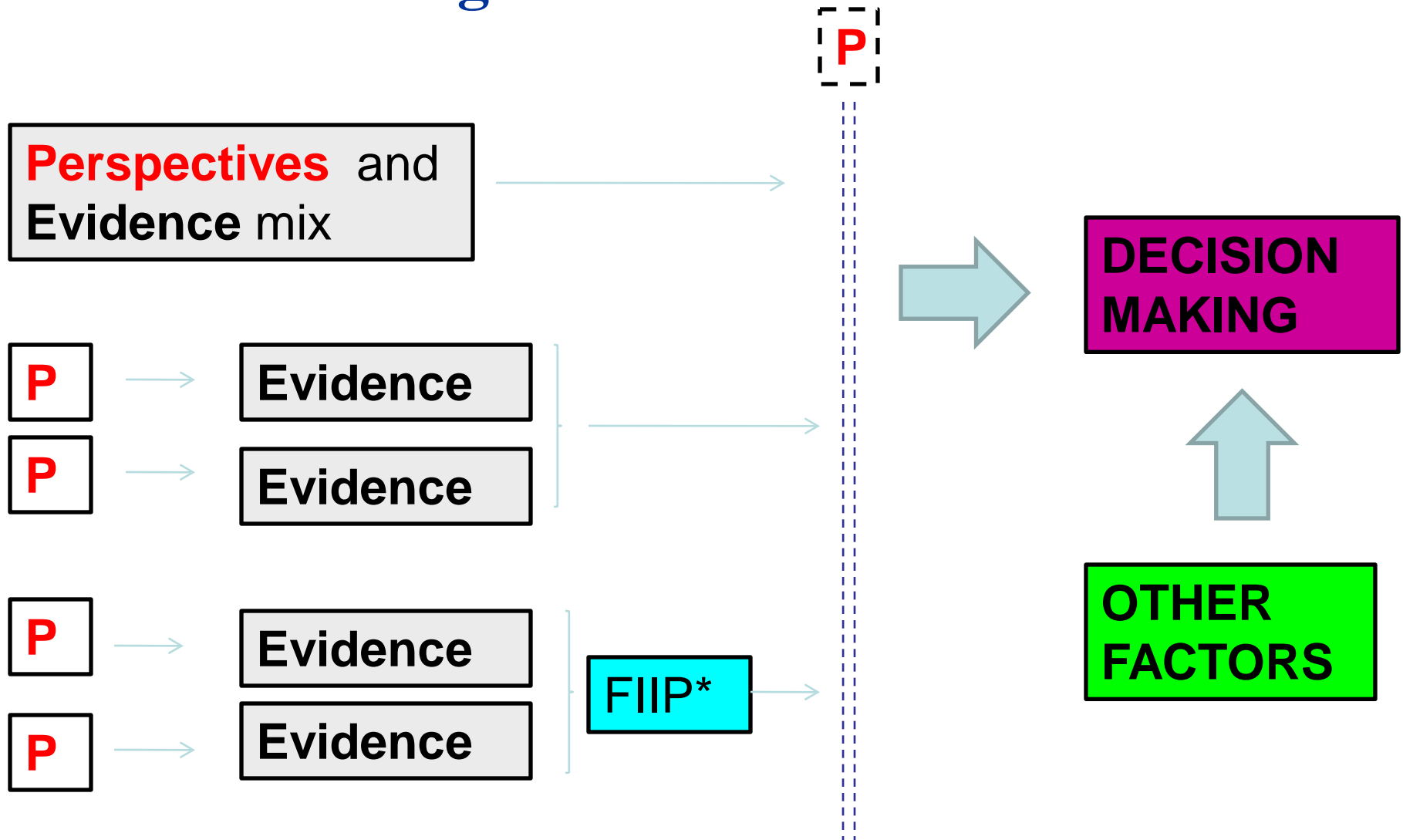
NHS Providers Patient Care

# EPPI-Centre examples

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- DWP – maps of health and employment, in work poverty, change of circumstances
- DH – programme of reviews on health promotion
- DCSF – capacity building and programme of reviews on education
- SCIE – mixed knowledge reviews

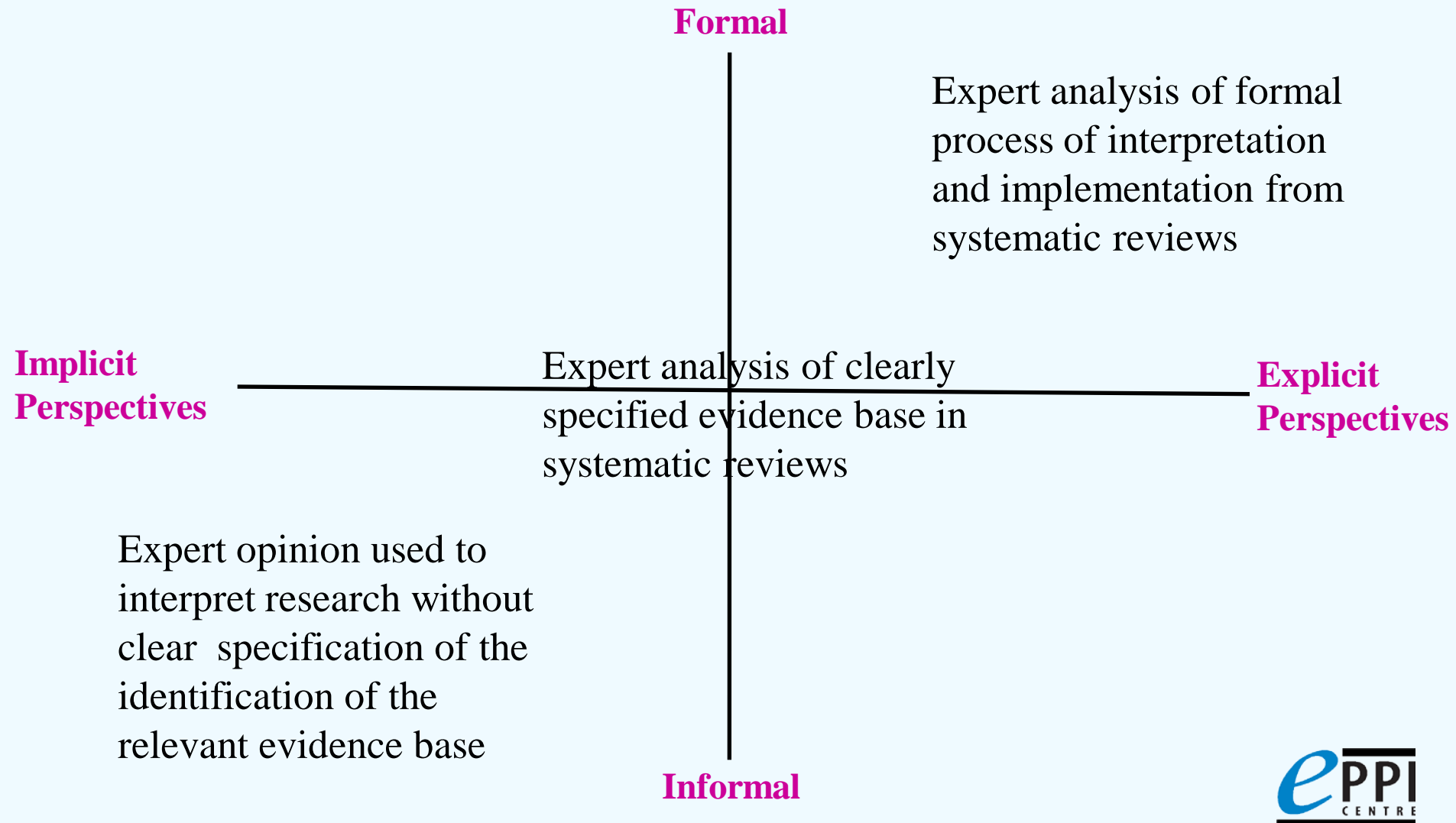
# Three contexts for academic analysis to inform decision making



*\*Formal interpretation and implementation process*



# Formality of process / specification of process in production of evidence intelligence to inform decision making



# 4. Other benefits for universities

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- Departmental research: SRs basic research output
- Discipline course content: research context
- Research skills:
  - SRS as basic research skill
  - for teaching fit for purpose primary research methods
  - planning and interpreting research (what has been done and what needs to be done)

# For example:

- National research programme conference:
  - 7 studies with fascinating questions
  - Appropriate methods & interesting results

BUT none of the studies stated:

- What was known before
- How the results changed what was known

Requirement for research funding?

***So building on / challenging previous work***

# Universities cont'd:

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- More efficient research with less unplanned replication and research to fill known gaps
- Improved methods and reporting of these in primary studies (as otherwise omitted from reviews)

# 5. EIPP politics and democracy

## **Academic anxiety / resistance:**

- Privileging empirical quantitative paradigm
- Summarizing research intrinsically reductive
- Part of new managerialism and government control of the research agenda
- Research as a resource for government rather than critical analysis of government
- Threat to current academic roles

# But EIPP and democracy

- Evidence informed explicit values based policy making (rather than hidden process)
- Allow democratic involvement through:
  - easier access to research and its interpretation and use
  - literacy in research sufficient for informed participation
  - Involvement in framing questions for reviews and thus of new primary research agendas

## Thank you

SSRU website: <http://www.ioe.ac.uk/ssru/>

SSRU's EPPI website: <http://eppi.ioe.ac.uk> *In Japanese!*

NRCM MRS website

<http://www.ncrm.ac.uk/about/organisation/Nodes/MRS/MRS.php>

Email :d.gough@ioe.ac.uk



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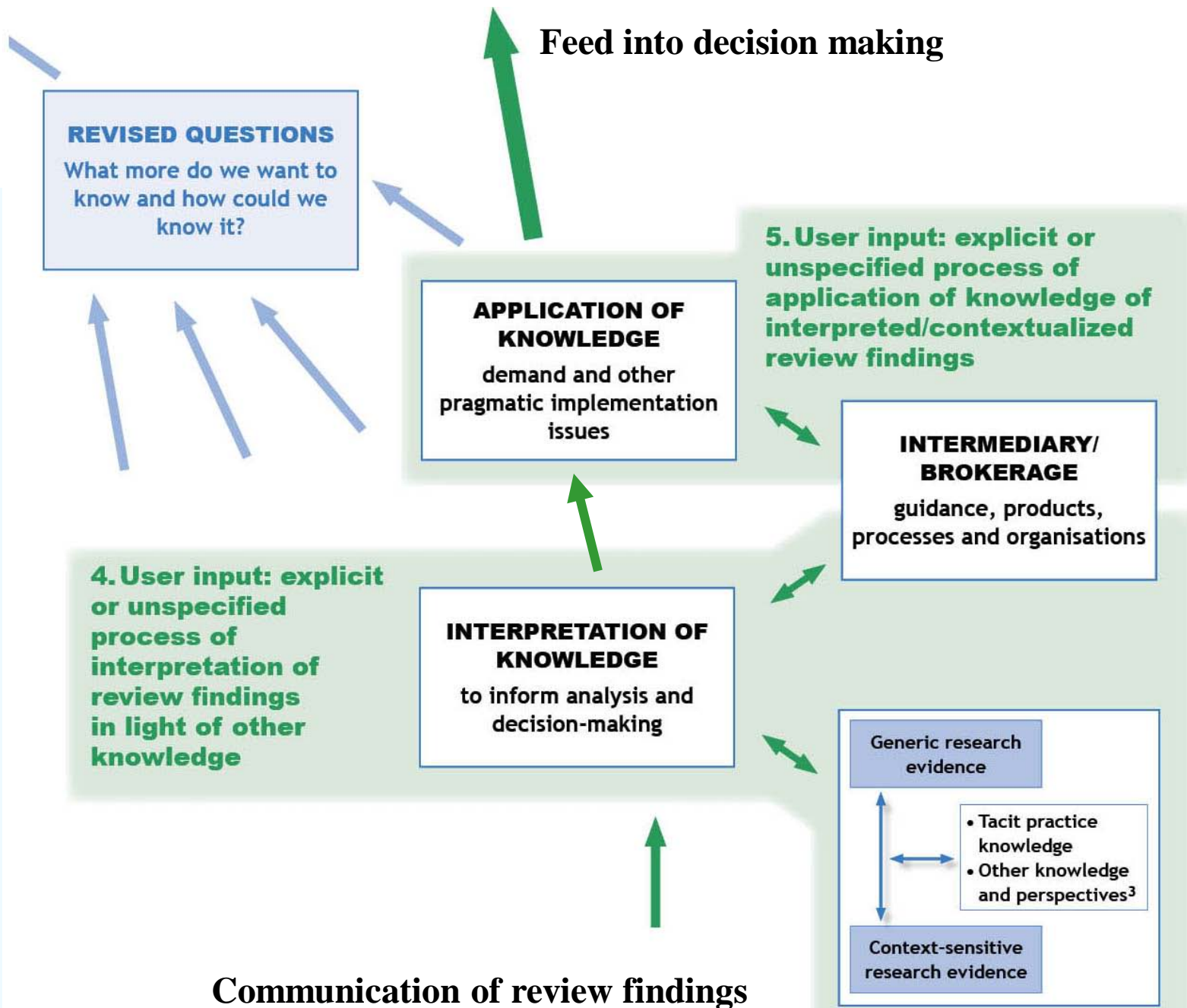
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# New journal!

[https://www.policypress.org.uk/journals/evidence\\_policy/](https://www.policypress.org.uk/journals/evidence_policy/)

