



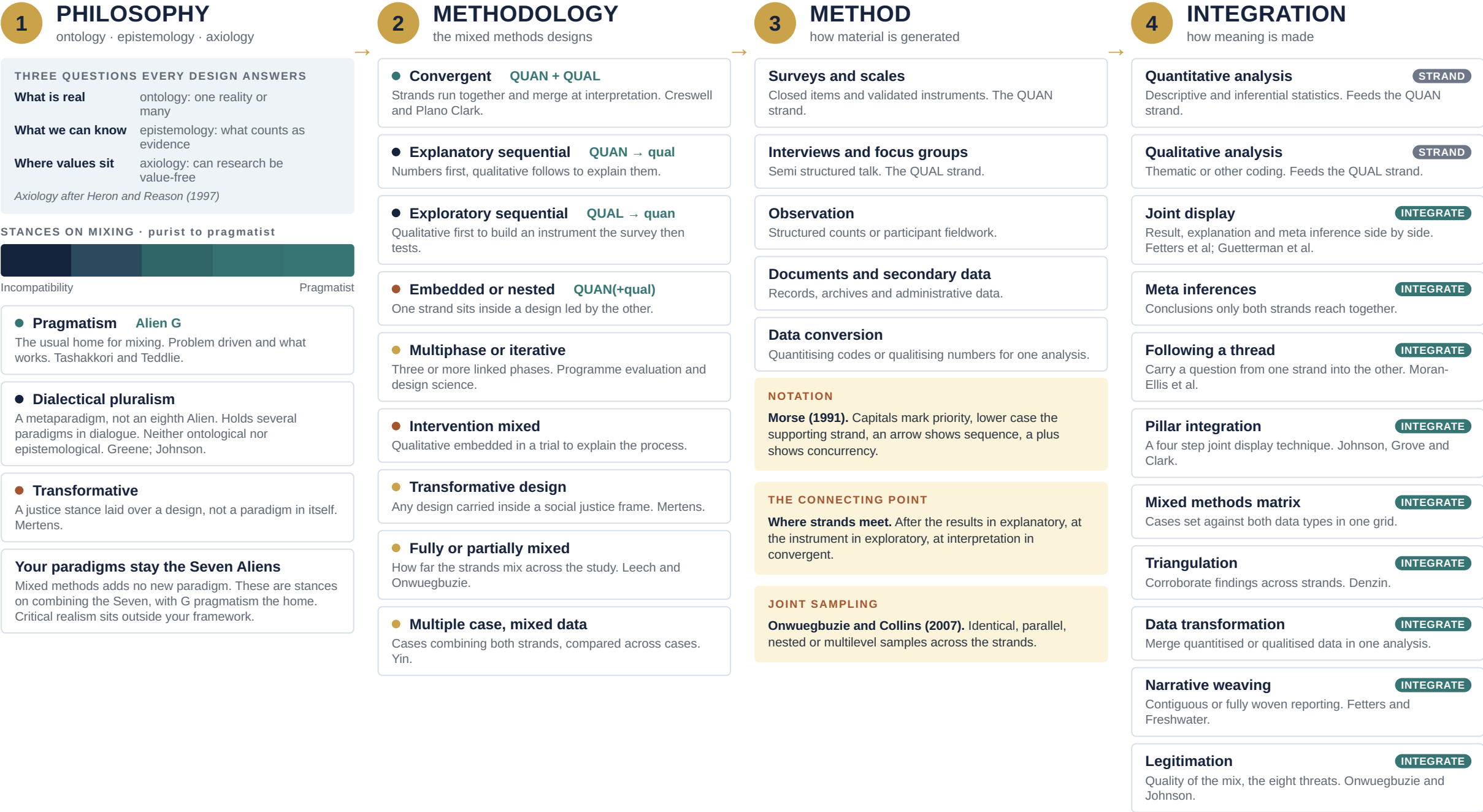
THE MIXED METHODS RESEARCH UMBRELLA

Philosophy, design, method and integration on one map

LCDB7007

Research Principles and Philosophy
Dr Caroline Jawad | Swansea Business School, UWTSD

THE GOLDEN THREAD



4

INTEGRATION

how meaning is made

Quantitative analysis

Descriptive and inferential statistics. Feeds the QUAN strand.

STRAND

Qualitative analysis

Thematic or other coding. Feeds the QUAL strand.

STRAND

Joint display

Result, explanation and meta inference side by side. Fetters et al; Guetterman et al.

INTEGRATE

Meta inferences

Conclusions only both strands reach together.

INTEGRATE

Following a thread

Carry a question from one strand into the other. Moran-Ellis et al.

INTEGRATE

Pillar integration

A four step joint display technique. Johnson, Grove and Clark.

INTEGRATE

Mixed methods matrix

Cases set against both data types in one grid.

INTEGRATE

Triangulation

Corroborate findings across strands. Denzin.

INTEGRATE

Data transformation

Merge quantitised or qualitisng data in one analysis.

INTEGRATE

Narrative weaving

Contiguous or fully woven reporting. Fetters and Freshwater.

INTEGRATE

Legitimation

Quality of the mix, the eight threats. Onwuegbuzie and Johnson.

INTEGRATE

Designs can be tuned and combined. The dot shows the dominant logic, not a cage.

FAMILY KEY ● Concurrent ● Sequential ● Embedded

● Multiphase

ANALYSIS

INTEGRATE

 brings strands together

STRAND

 within one strand



THE MIXED METHODS RESEARCH UMBRELLA

Extended approaches, keyed to the four columns

The umbrella shows the main designs. This page extends each column. The paradigm set stays the Seven Aliens. The rest are stances, designs, methods and integration tools.

Paradigm and stance

Your paradigm set

Seven Aliens A to G. your framework, no critical realism

Pragmatism, Alien G. the home of mixing *Morgan*

Stances on combining

Dialectical pluralism. a metaparadigm that holds tensions *Johnson*

Dialectic stance. paradigms in respectful dialogue *Greene*

Transformative. a justice frame over a design *Mertens*

Aparadigmatic or practical. let the question decide

Critical realism. used by some, outside your Seven Aliens *Bhaskar*

Methodology, designs

Core designs

Convergent. strands merge at interpretation *Creswell and Plano Clark*

Explanatory sequential. quant first, qual explains

Exploratory sequential. qual first, builds then tests

Advanced and applied

Embedded or nested. one strand inside another

Multiphase. linked programme phases

Intervention mixed. qual inside a trial

Multiple case, mixed. cases across strands *Yin*

Evaluation and participatory. applied programme designs

Design dimensions

Fully or partially mixed. how far the strands mix *Leech and Onwuegbuzie*

Status. equal or one dominant strand

Timing. concurrent or sequential

Phases. number of linked stages

Method and connecting

Data, by strand

Quant strand. surveys, scales, experiments, secondary

Qual strand. interviews, focus groups, documents, observation

Connecting points

Merging. results brought together, convergent

Explaining. results lead to cases, explanatory

Building. results build an instrument, exploratory

Embedding. one strand supports the other

Notation and sampling

Notation. caps, lower case, plus, arrow *Morse*

Joint sampling. identical, parallel, nested, multilevel *Onwuegbuzie and Collins*

Integration and quality

Within strand

Quantitative analysis. descriptive and inferential statistics

Qualitative analysis. thematic or other coding

Integration tools

Joint display. results set side by side *Fetters; Guetterman*

Pillar integration. a four step joint display *Johnson, Grove and Clark*

Following a thread. carry a question across *Moran-Ellis*

Mixed methods matrix. cases by both data types

Meta inferences. conclusions both strands reach

Data transformation. quantitising and qualitising

Triangulation. corroborate across strands *Denzin*

Narrative weaving. contiguous or fully woven *Fetters and Freshwater*

Quality

Legitimation. the eight threats to the mix *Onwuegbuzie and Johnson*

Integration quality. how well the strands join *Bazeley*



THE MIXED METHODS RESEARCH UMBRELLA

Citations and seminal sources

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Full sources for every author named on the Mixed Methods Research Umbrella, grouped by the four columns of the map. References follow UK Harvard style.

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Extended sources

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