

WRITING ACADEMIC PAPERS ALIGNED WITH INDUCTIVE vs. ABDUCTIVE RESEARCH PROTOCOLS

David W. VERSAILLES

PSB - 05-APR-2018

chair **newPIC**new Practices for Innovation

and Creativity

Contact details







I never use my psbedu.paris eMail address Here are my eMail address and twitter:

dwv@newpic.fr @DwV13

newPIC chair

eMail: newpic@newpic.fr

• fax: +33-1-777 25 233

website: www.newpic.fr

• twitter: @cnewpic

Paris School of Business

address:59 rue NationaleF-75013, Paris

website: www.psbedu.paris

NewPIC co-directors

Dr Hab Valérie MERINDOL

• eMail: vm@newpic.fr

gsm: +33-0-617 09 06 43

website: www.merindol.net

twitter: @VMerindol

Dr Hab David W. VERSAILLES

• eMail: dwv@newpic.fr

gsm: +33-0-609 52 54 56

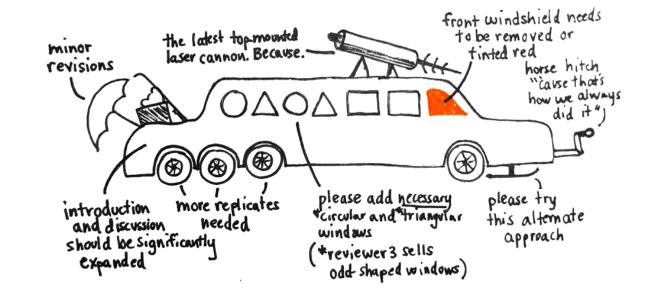
website: www.dwv.fr

twitter: @DWV13

Our papers: before and after the review process



... and after peer review and revision



Objectives of the seminar

- The seminar focuses on the COOKBOOK:
 - "formula" (template) expected for papers submitted to academic journals, and
 - elements to be documented in order to please reviewers.
- "Higher ranked" journals require also high internal consistency and some reflexive thinking about methodology
- The seminar does not discuss the different methodological debates



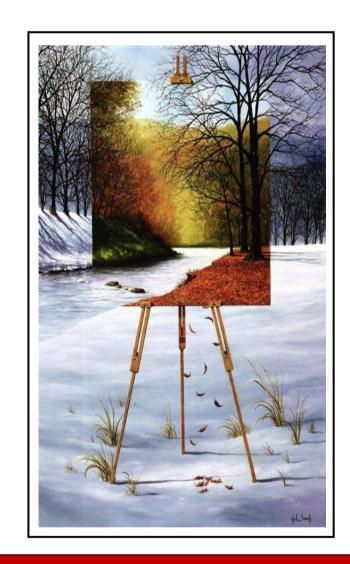
Agenda for the seminar

- General expectations in academic articles
- Definitions: ABDUCTION vs. INDUCTION
- Synthesis on the respective cookbooks

BACKGROUND CONCEPTS AND REFERENCES

Expectations

- Reliability (credibility)
- Validity of conclusions
- "Objectivity" of the analysis
- Ability to replicate the analysis, or to obtain the same conclusions with different scholars
- Analysis of transferability of conclusions



What does it mean to "explain" something?



- People often assign the status of causal explanation to random events, because they focus on ad hoc explanations, they believe something is systematic, ordered or real just because they relate to limited direct experience, or to statistical regularities. Never forget to get an access to the data and facts existing behind what "you see"...
- "Facts" are already the product of many levels of interpretations.

Main issues with research protocols

- The separation between
 - data collection,
 - data codification,
 - data reduction,
 - data analysis, and
 - discussion

makes it possible to generate CONTROLLABILITY and TRUST

Data

VS.

Information

VS.

Knowledge

VS.

Beliefs

Main objectives in your articles

- Generate TRUST
- Explain the ambition of your conclusions
 - How do you handle the data?
 - Can you be trusted with the OBSERVATION of data?
- How is it possible to verify the CODIFICATION of your data with other scholars?
- Can you be trusted with the ANALYSIS of data?

Qualitative causal analysis

- Some scholars consider that qualitative studies are only good for exploratory investigations. In their view, only quantitative analysis would lead to some sort of generalization and to theories.
 This view mistakenly assimilates theory-building and statistical recurrences.
- Theory-building is not a matter of qualitative or quantitative method.
 It's a matter of logic, and of sound development from premises to conclusions.
- In theory-building, "we emphasize the importance of taking both a "variable-oriented", conceptual approach, and a "process-oriented", story-like approach". (M&H, 1994, p 170).

Mandatory template for publications in management...

Scientific publications in management science today have to follow a mandatory agenda directly inherited from Miles and Huberman

The protocol has to adapt to the very nature of the research protocol, and more specifically:

- theoretical vs. empirical papers;
- inductive vs. abductive vs. N/D vs. deductive papers



Triangulation

- Data triangulation: involves time, space and persons
- Investigator triangulation: involves multiple researchers in the study
- Theory triangulation: involves more than one theoretical scheme for the interpretation of phenomena/data
- Methodological triangulation: involves several methods in data collection

- Your projects SHALL elaborate <u>both</u> on METHODOLOGICAL and DATA triangulations
- "Unit of analysis" and "Unit of data collection"
 SHOULD NOT be affected by methodological and data triangulations

Data collection in qualitative analysis

ACTION RESEARCH OBSERVATION Non **Participant Participant** (AUTO-) ETHNOGRAPHY **PHENOMENOLOGY INTERVIEWS Structured Individual Semi-structured** vs. Group **Unstructured**

PRIMARY DATA (collected by the researcher)

TRIANGULATION
OF DATA
COLLECTION
METHODS

QUALITY TRUST

SECONDARY DATA (NOT collected by the researcher)

Data published by other researchers

- Published articles, books under peer review process
- Un-published monographs
- Publications without peer review process

Documentation

- Internal (MoM, technical documentations, reports, quality manag, etc)
- External (press)

DEFINITIONS INDUCTION VS. ABDUCTION

Methodological references

Main references shaping the analysis

- Deduction
- Nomological-deductive model (or hypothetico-deductive model)
- Abduction
- Induction

Field research strategies

- Grounded Theory
- Ethnography
- Social constructionism
- Critical realism
- Interpretitivism
- Micro-foundations approach

NOT DISCUSSED TODAY

Overview of the definitions

Deduction

- I know the (universal) "law"
 and I follow it to check
 - either its global relevance,
 - or its applicability

Hypothetico-deductive model

 I know "laws" with their "if-then-else" causal links and I check their validity with the experimental method

Induction

 I don't know much/anything, and I look for tentative theories and/or tentative concepts

Abduction

 I point out a gap in the literature, and I generate tentative theories to fill that precise gap

Overview of the main purposes of each model





Induction

 Inductive analysis serves the identification of new potential areas for explanation (concepts, theories), and suggest potential (or probable, as in "probability") relations between facts and "causes"

Abduction

 The abductive analysis generates relevant propositions to complement and improve an existing body of academic literature; it elaborates on the identification of "gaps"

Potential outcomes for each model





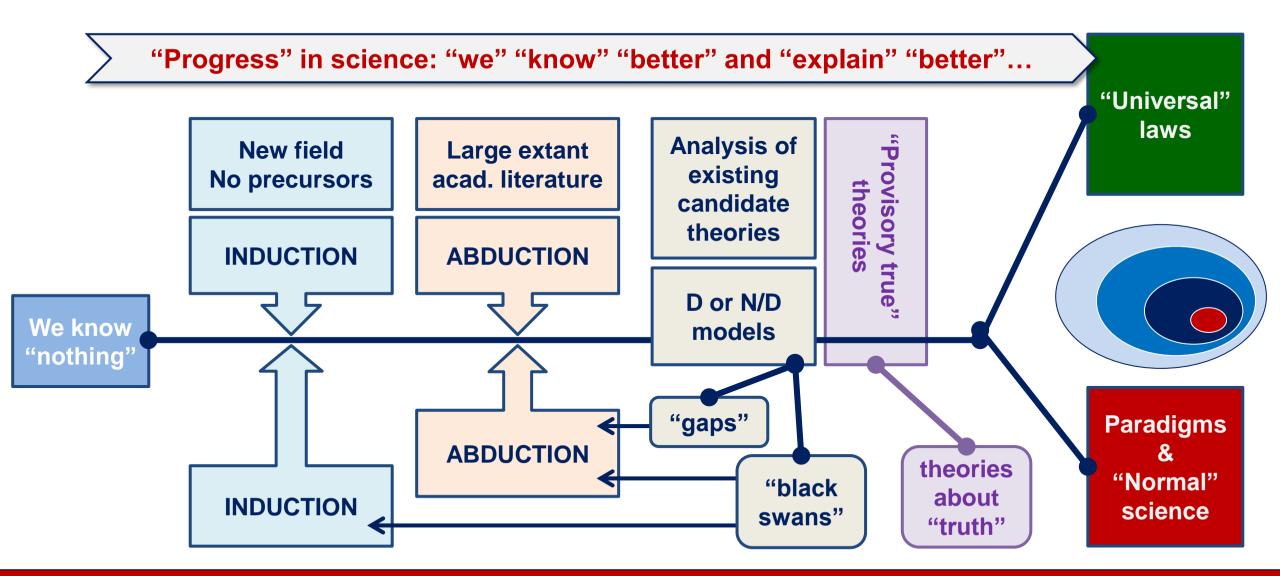
Induction

- Definition of candidate fields and theoretical bodies for explanation
- Definition of probable causal links between phenomena and "causes"
- NO GENERALIZATION POSSIBLE

Abduction

- Definition of candidates tests for the D/N model and the experimental method
- Rejection of irrelevant propositions
- NO GENERALIZATION POSSIBLE (except for "counterfactuals")

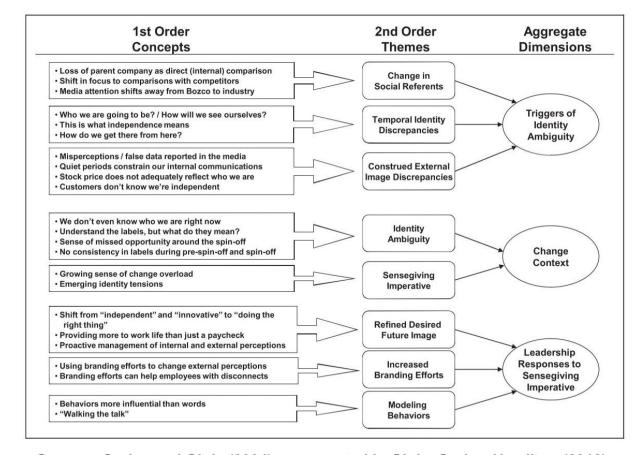
Research strategies



WRAP UP ON THE COOKBOOKS
EXPECTED FOR
THE INDUCTIVE VS. ABDUCTIVE APPROACHES

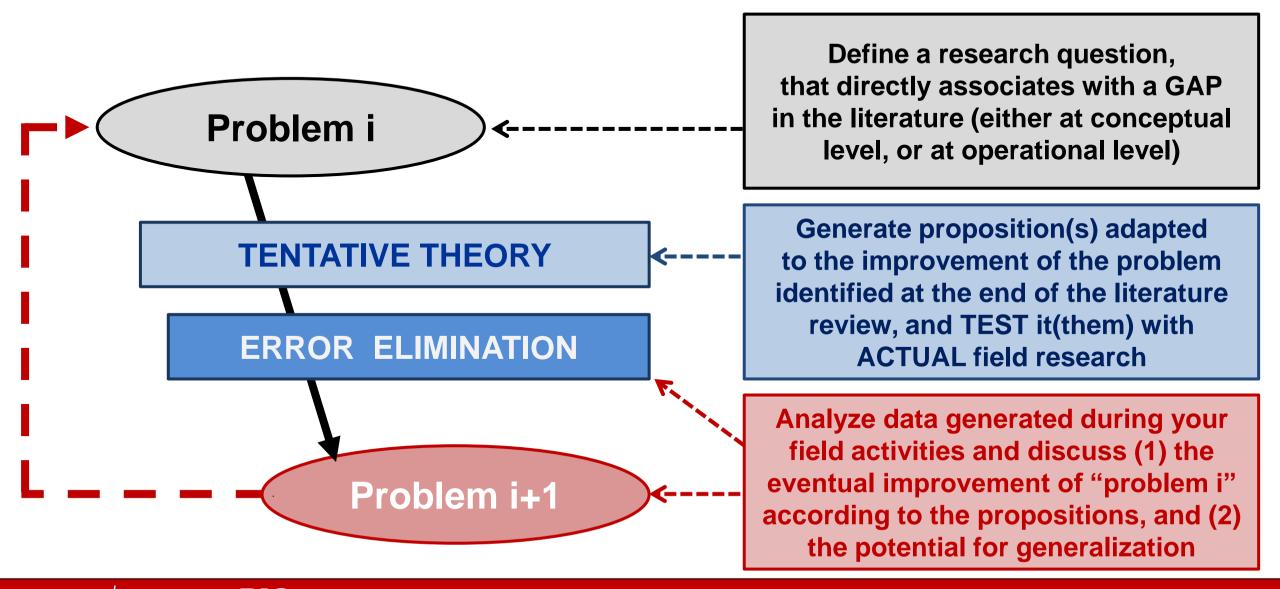
Data structure in the inductive protocol

- 1st order analysis: systematic presentation using "informant-centric terms and codes"
- 2nd order analysis: systematic presentation using "researcher-centric concepts, themes and dimensions"



Source: Corley and Gioia (2004); commented in Gioia, Corley, Hamilton (2012)

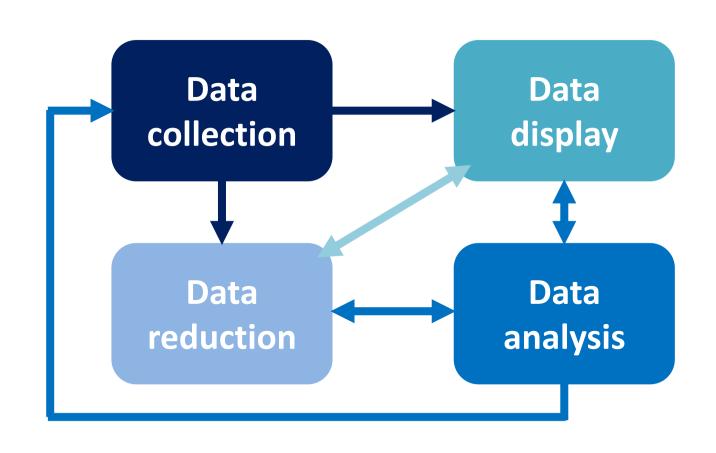
Expected contributions in the abductive protocol



Interacting with data in the abductive protocol

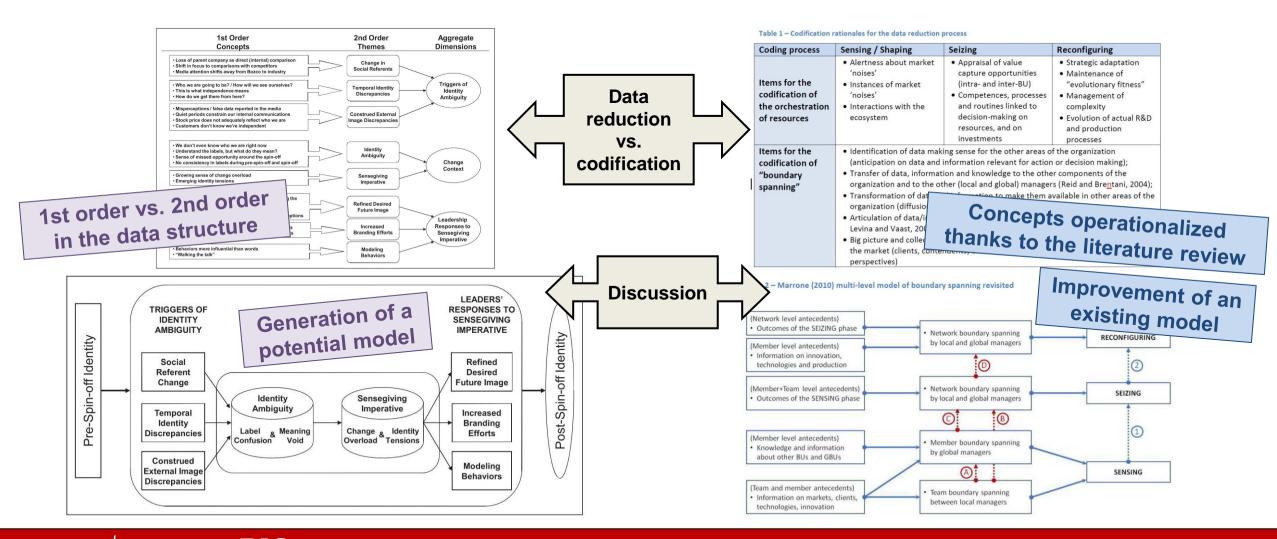
The interaction with data does not follow a sequence of independent steps.

Data collection, display, reduction and analysis all interact with each other; they depend on explicit interdependencies, and require ITERATIONS.



Adapted from Miles and Huberman, 1994, p. 12

Inductive (left) vs. abductive (right) presentations



Zooming out on respective expectations

| QUALI. | INDUCTION | ABDUCTION |
|---------------------------------|---|--|
| Literature review | Neither extensive nor exhaustive | EXHAUSTIVE; concludes with "propositions" |
| Field research | Aligned with the precepts of grounded theory / ethnographic method | |
| Data collection strategy | "Dynamic relationships" and data-to-theory connections to generate more groundness | Reduce data as soon as possible and iterate to generate more groundness |
| Data codification | 1 st order codes emerge from field research (open coding); 2 nd order codes = link w/ theory (axial coding) | Codes emerge from the literature review ("open coding" + "axial coding") |
| Data display | Extensive descriptions with context, stakeholders, "zoom-in" | |
| | VERBATIM justify the data structure (mandatory!!) | Verbatim illustrate axial coding and gaps |
| | "Informative story" (VERBATIM) | Structured presentation (literature review) |
| Data reduction Data "structure" | "No data structure, know nothing" Open discussion on interpretations | Cross validation of data coding with required levels of convergence between coders |
| Data analysis | Data and existing theory are considered in tandem ("zoom out") | |
| Discussion | Focus on nascent concepts | Focus on filling the gaps |
| Transferability | LIMITED to the status of the case(s) / Concepts | LIMITED |

. . .

© DWV, 2018 pour PSB/newPIC