

Ανάπτυξη και εφαρμογή προγραμμάτων RWD. Ο ρόλος των Ιατρικών Τμημάτων ΦΕ.

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What is Real World Data (RWD);

“Real World Data” are observations of effects based on what happens after a prescriptive (treatment) decision is made where the researcher does not or cannot control who gets what treatment and does not or cannot control the medical management of the patient beyond observing outcomes

– **ISPOR task force**

Real World Evidence/Data

- Everything that goes beyond what is normally collected in the phase III clinical trials program

Importance of RWD

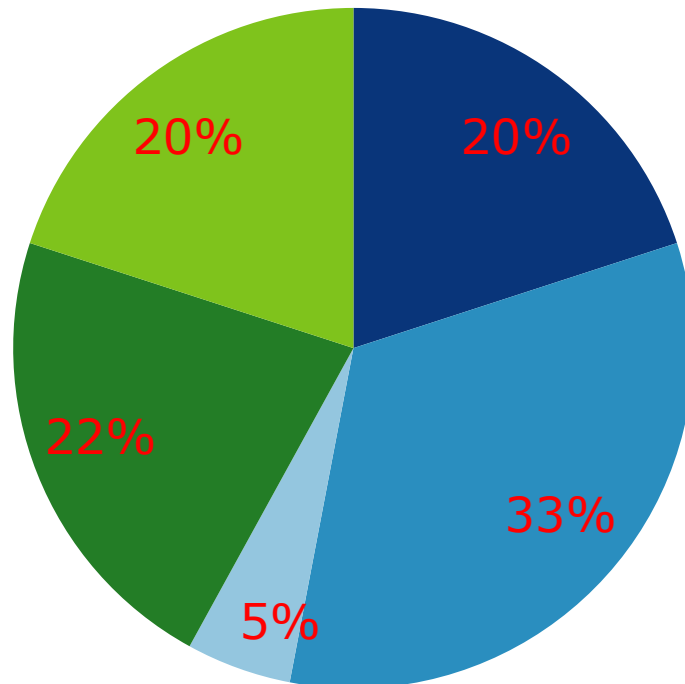
- Improving health outcome (better interpretation of clinical data)
- Offering insights into what happens in everyday clinical care
- Comparing multiple alternative clinical strategies



Changing pharma business model - going forward

(Reducing costs-Developing future clinical trial design-Reimbursement)

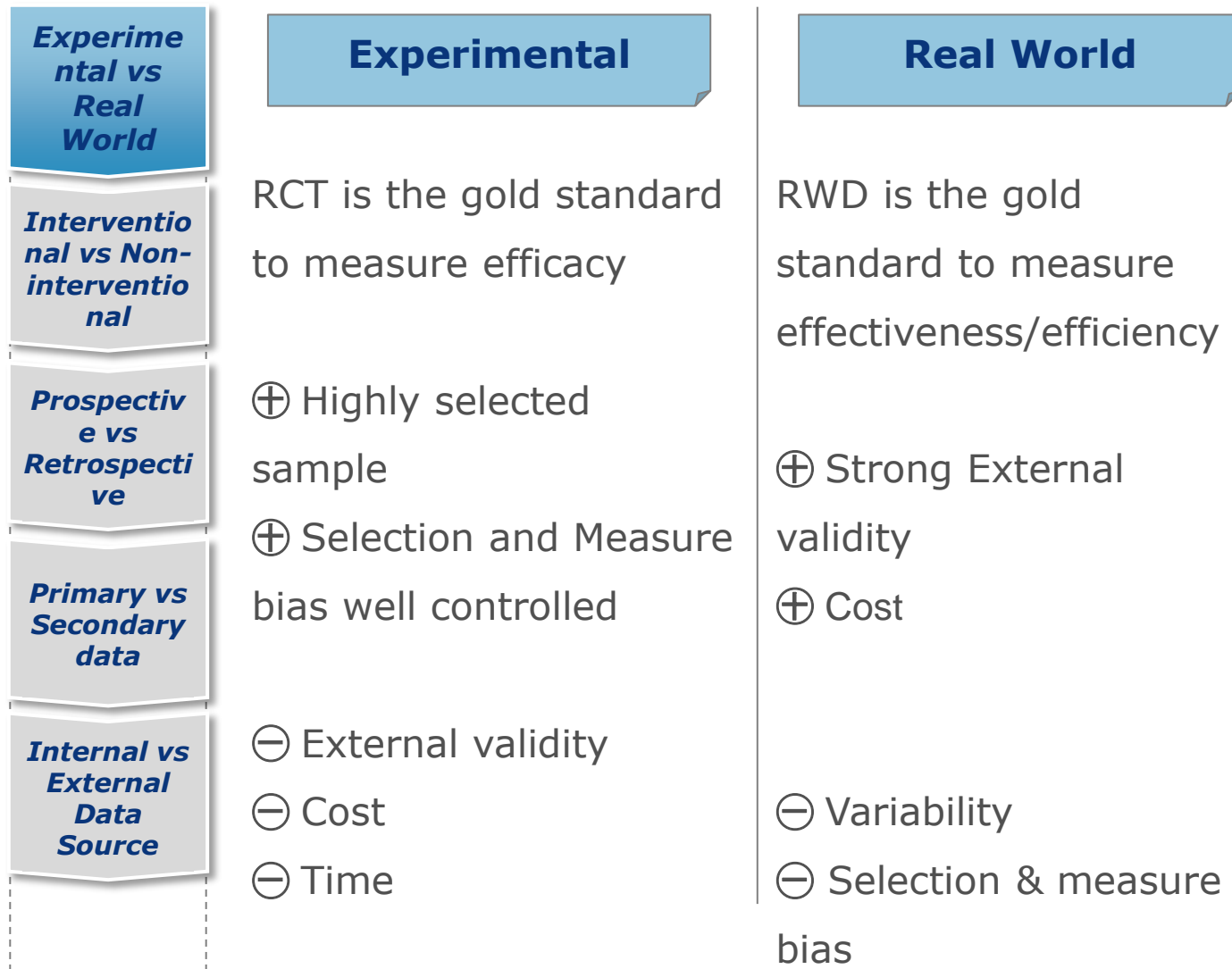
Sources of RWD



- Registries
- Databases
- Pragmatic Clinical trials
- Observational Studies
- Patient Reported Outcomes

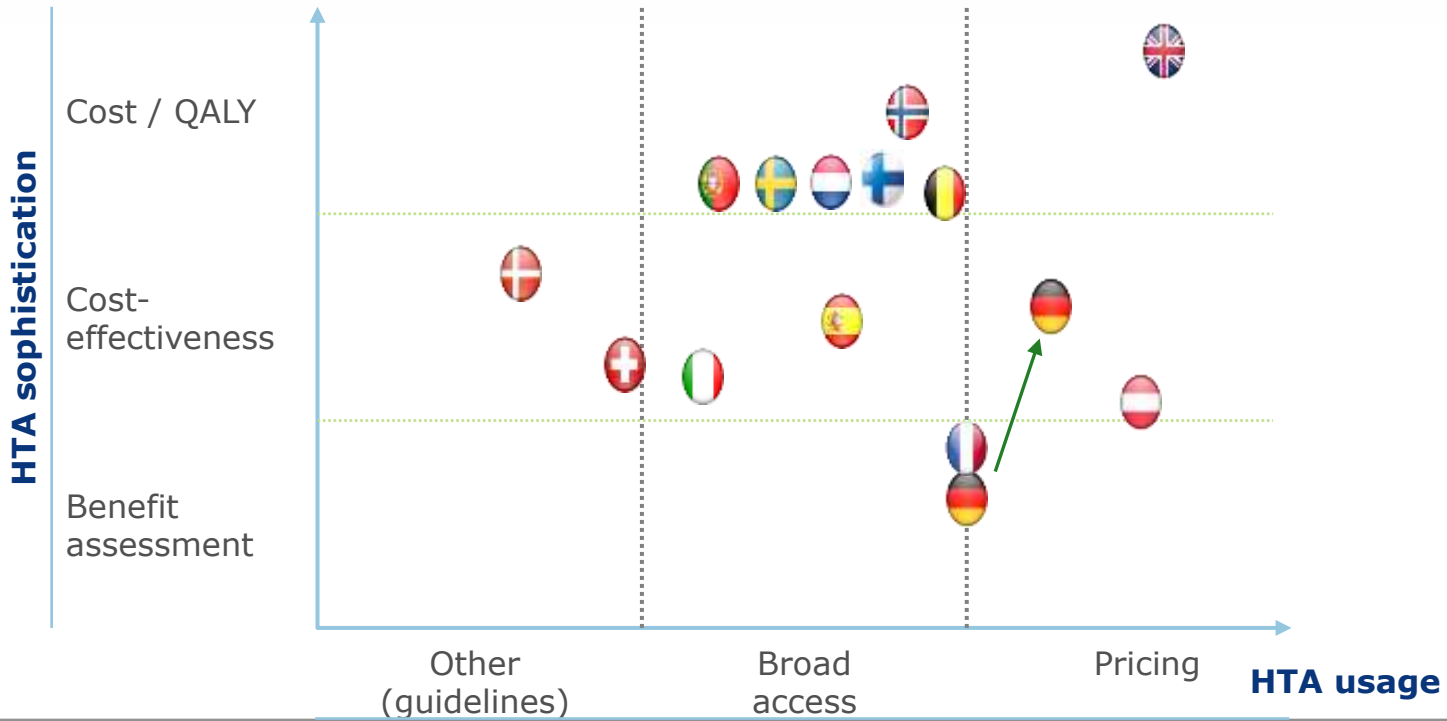
- A **patient-reported outcome or PRO** is a questionnaire used in a clinical trial or a clinical setting, where the responses are collected directly from the patient.
 - Examples: Health status, General health perceptions, Quality of life (QoL) questionnaires , etc
- **Pragmatic trials** measure *effectiveness*-the benefit the treatment produces in routine clinical practice.
 - Example: two physiotherapy approaches are being evaluated for back pain. The protocol may allow for the physiotherapist to apply different treatments to different patients: it is then the management protocol which is the subject of the investigation, not the individual treatments.

5 key elements in an Evidence Generation project



There is increasing health system demand for pharmacos to demonstrate and improve “outcomes”

Timeline of HTA body creation



“Outcomes”: Definition

*Our definition of “outcomes”:

- Improving **primary health endpoints** in a real world setting (e.g., reduced mortality)
- Improving **secondary health endpoints** (e.g., reducing comorbidities, enhancing quality of life)
- Improving **system cost** to achieve existing endpoints (e.g., reducing cost to treat side effects associated with current treatments)

Why do we care about RWD in context of “outcomes”?

Increasing importance

- 1 Payors and regulators are asking for it
- 2 Payors are using it
- 3 Increased infrastructure (databases) changing the rules

Opportunity & threat

- 4 Decisions across lifecycle
- 5 Transparency & control on product information
- 6 Competitors emerging; success / proactive use

Requirements for effective use

- 7 Systematic RWD planning (early evaluation of options)
- 8 Addressing ongoing barriers (technical & organisational)

Medical Affairs

RWD



**STAKEHOLDERS'
NEEDS**

**COMPLIMENTARY
SERVICES**



PATIENTS' NEEDS

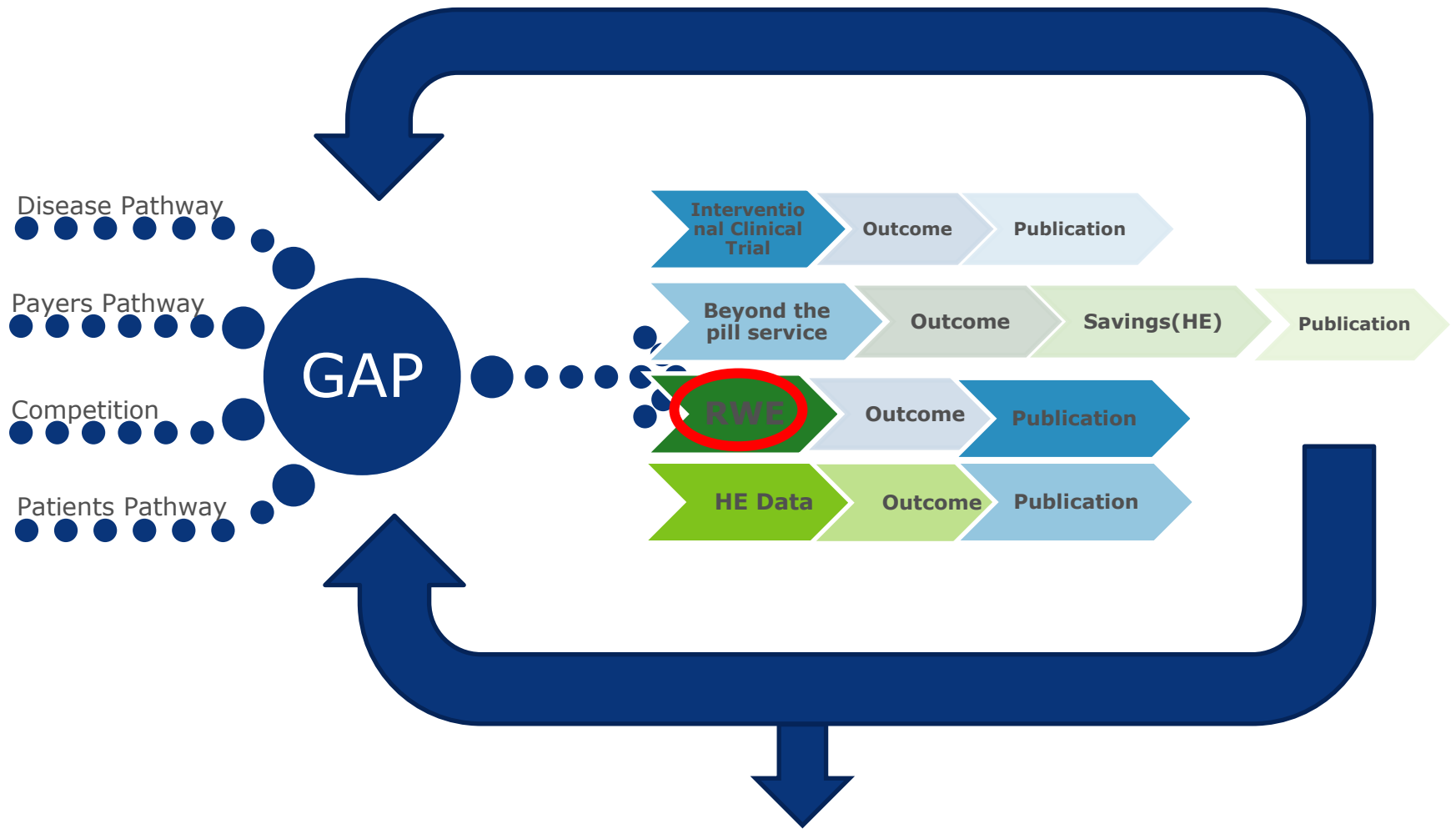
**MOVE FROM
"BEYOND THE
PILL"**



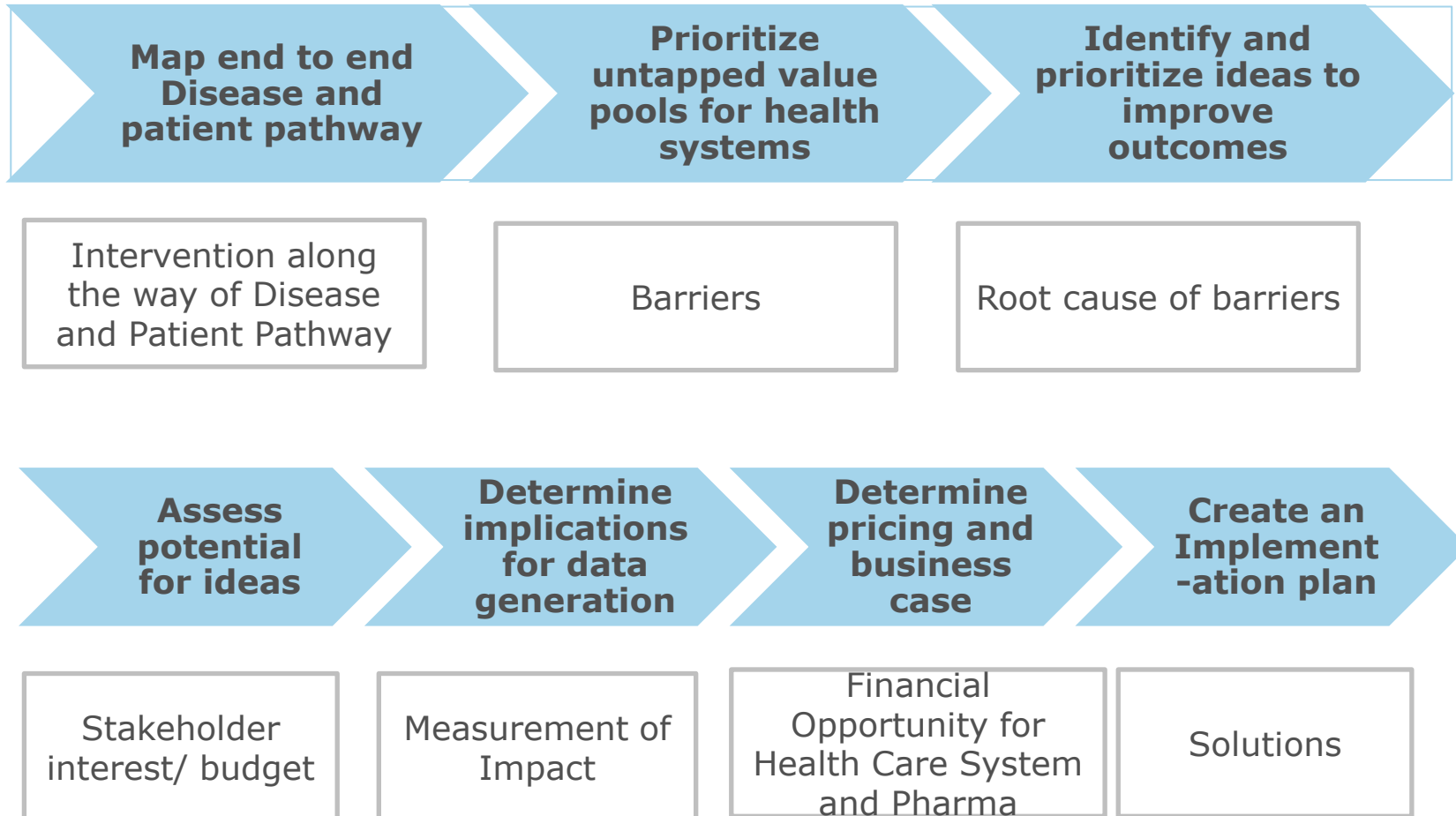
QUALITY OF LIFE

**GREAT MEDICINES
+
RWD
=
SAVING PEOPLE'S LIVES**

A non stop cycle for MAF



Methodology for Outcomes/RWD



Where only RWD can do the job

- Measuring (comparative) Effectiveness
- Analysing treatment patterns and drug utilization
- Understand Disease management strategies
- Long-term benefits or harm
- Surveillance of rare events / rare treatment combinations
- Rare diseases / Orphan diseases

RWD READY ?



Real World Evidence challenges

- Not unified regulatory landscape (vs EU-CTD)
- Designing projects is more complex
- Preparing and conducting analysis require specific expertise
- Acceptability of RWE by external bodies / scientific community (TRUST)
- Competition generating negative RWE
- Co-partnering strategy
- Other stakeholders (regulators, payors, scientific societies) also generating their data

RWD: what is in place

- Some experience & expertise already exist in:
 - Medical Affairs with Company-sponsored non-interventional projects
 - MAF/HE with internal / external databases
 - Business Intelligence with external data / interviews
- Organise & develop our RWE capabilities & capacities

MAF next steps

BACKBONE

Internal

- **Change management Plan**

External

- **Environment Scan:** What is the future governance model

"WHAT" TO PREPARE

- **Internal Mapping of Processes**
- **Analysis to address stakeholders RWD needs**



- **A "how to.." Guide**

"HOW" TO IMPLEMENT

- **Roles & Responsibilities**
- **Resources**
- **Additional Future Capabilities**

Key takeaways - Conclusions

- MAF has a dominant role for RWD creation
- Analysis of local environments/stakeholders needs, necessary
- New roles and responsibilities for MAF personnel

The journey begins!

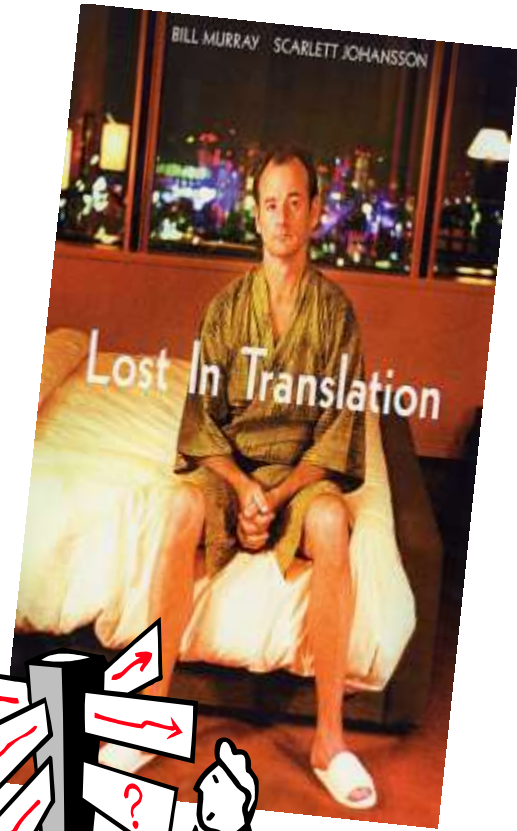




Backup slides



WHEN SPEAKING ABOUT REAL WORLD
DATA/EVIDENCE, PEOPLE OFTEN FEEL
LIKE...



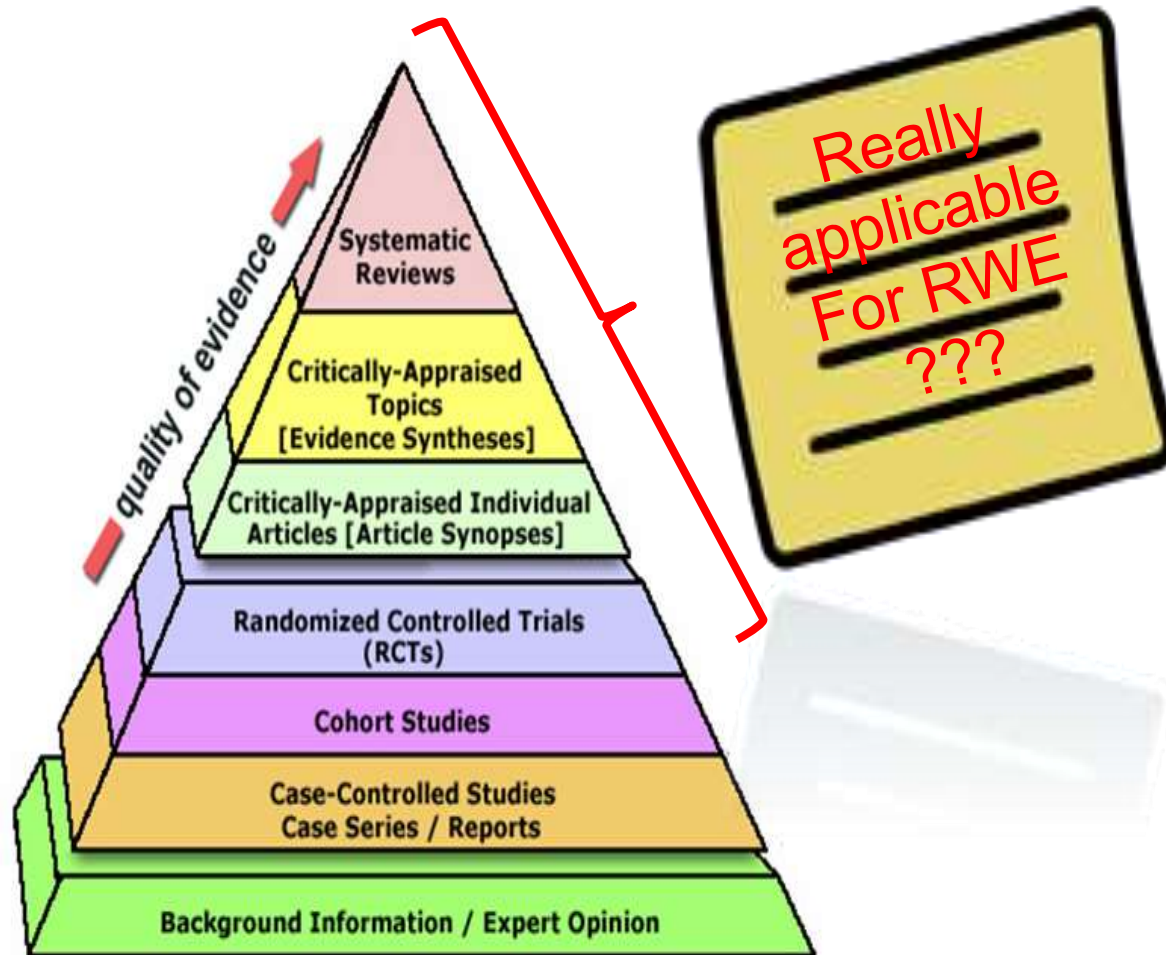


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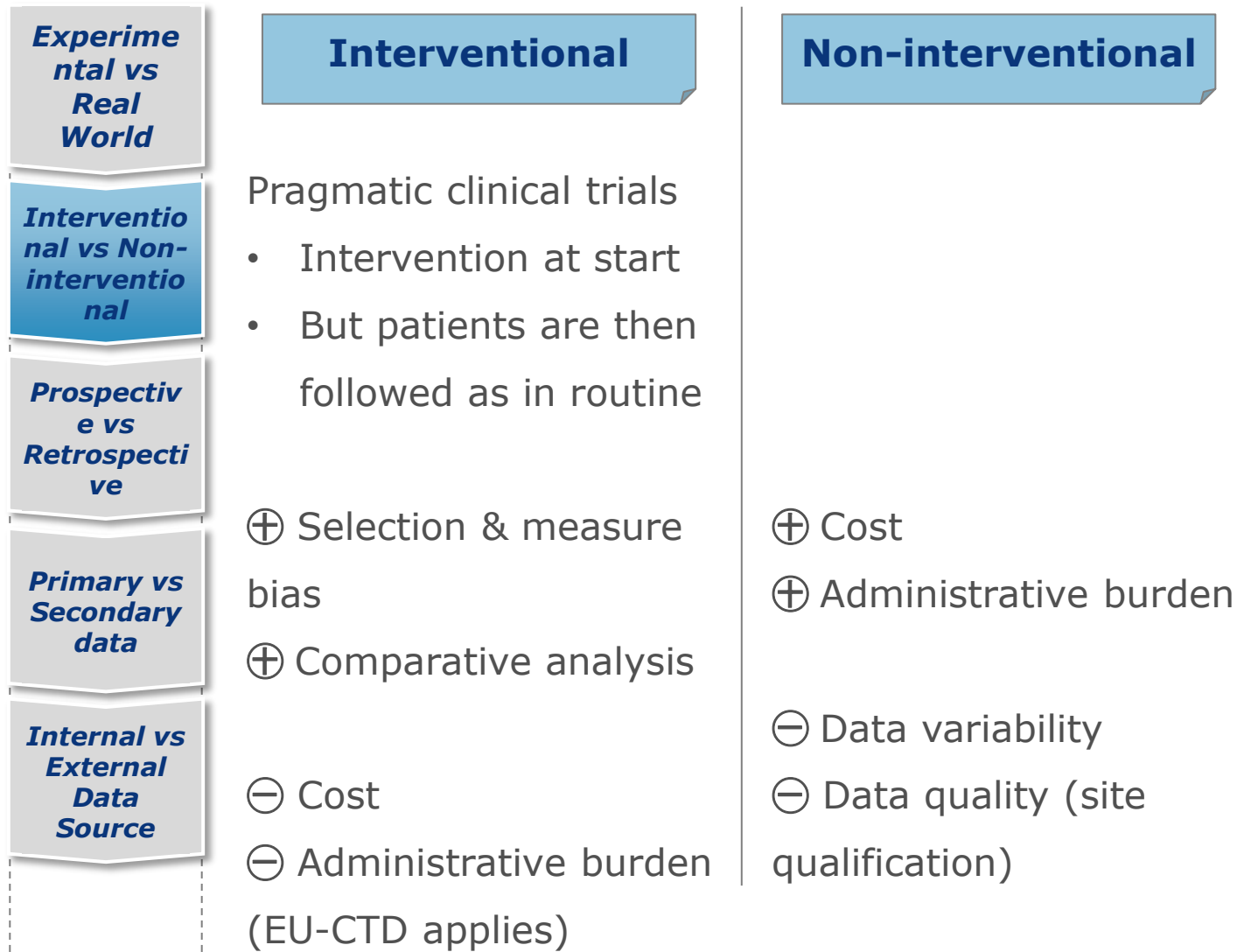
janssen 

PHARMACEUTICAL COMPANIES
OF Johnson & Johnson

Traditional hierarchy of evidence for experimental research



5 key elements in an Evidence Generation project



5 key elements in an Evidence Generation project

Experimental vs Real World

Interventional vs Non-interventional

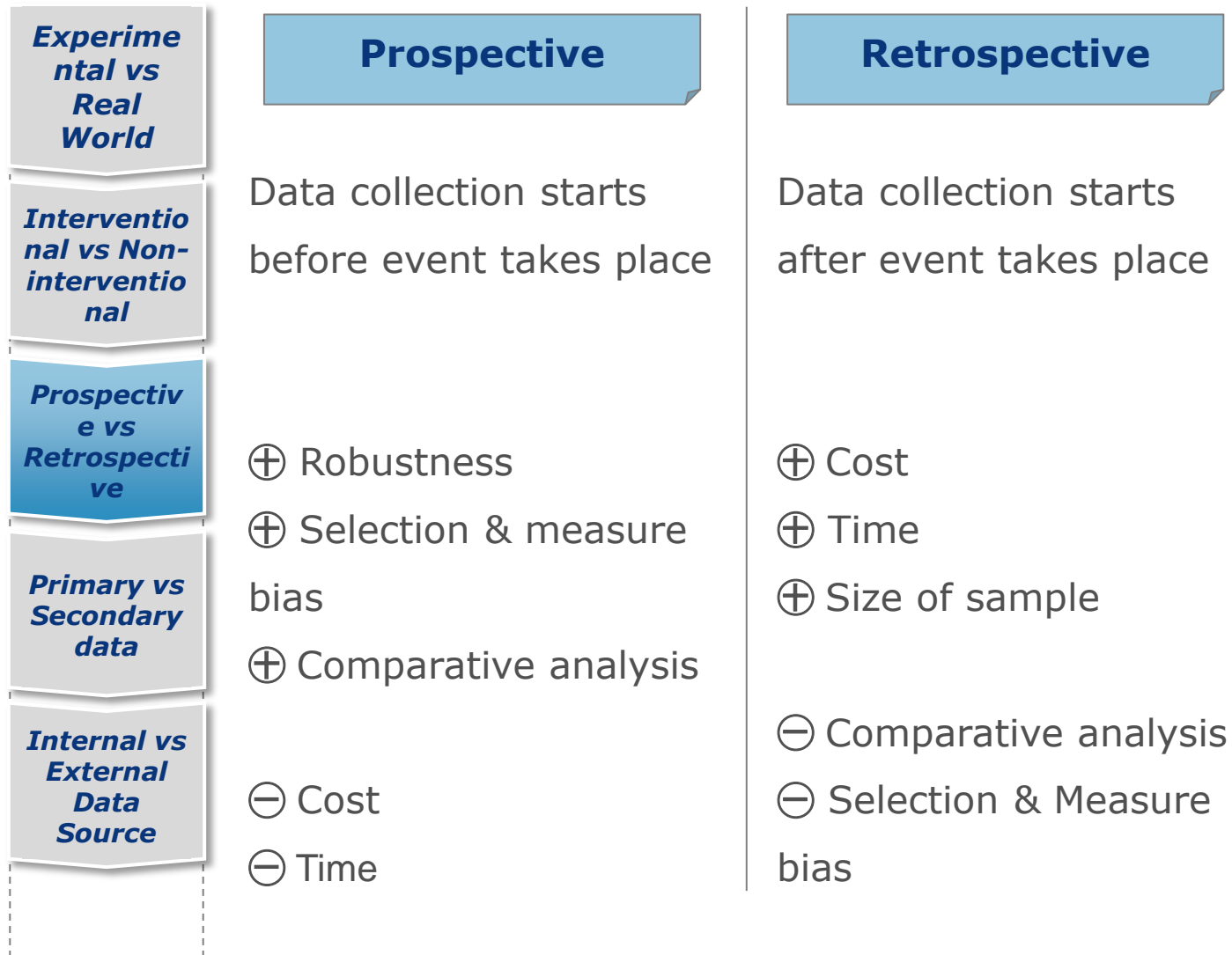
Prospective vs Retrospective

Primary vs Secondary data

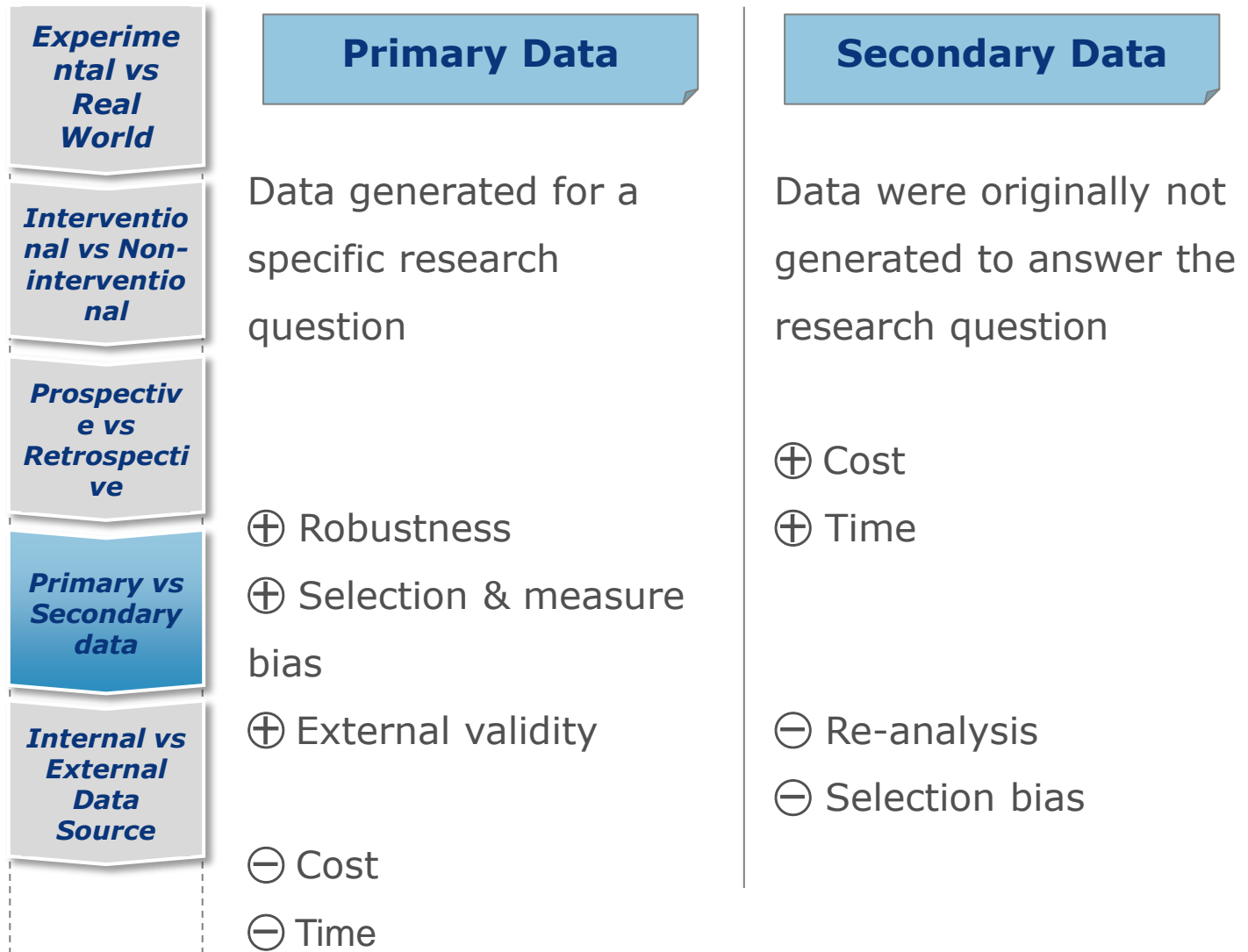
Internal vs External Data Source

	Interventional	Non-Interventional
Experimental Settings	Explanatory Randomized Trials	
Real World Settings	Pragmatic Randomized Trials	Retrospective & Prospective Observational Studies, including cohort and case-control designs

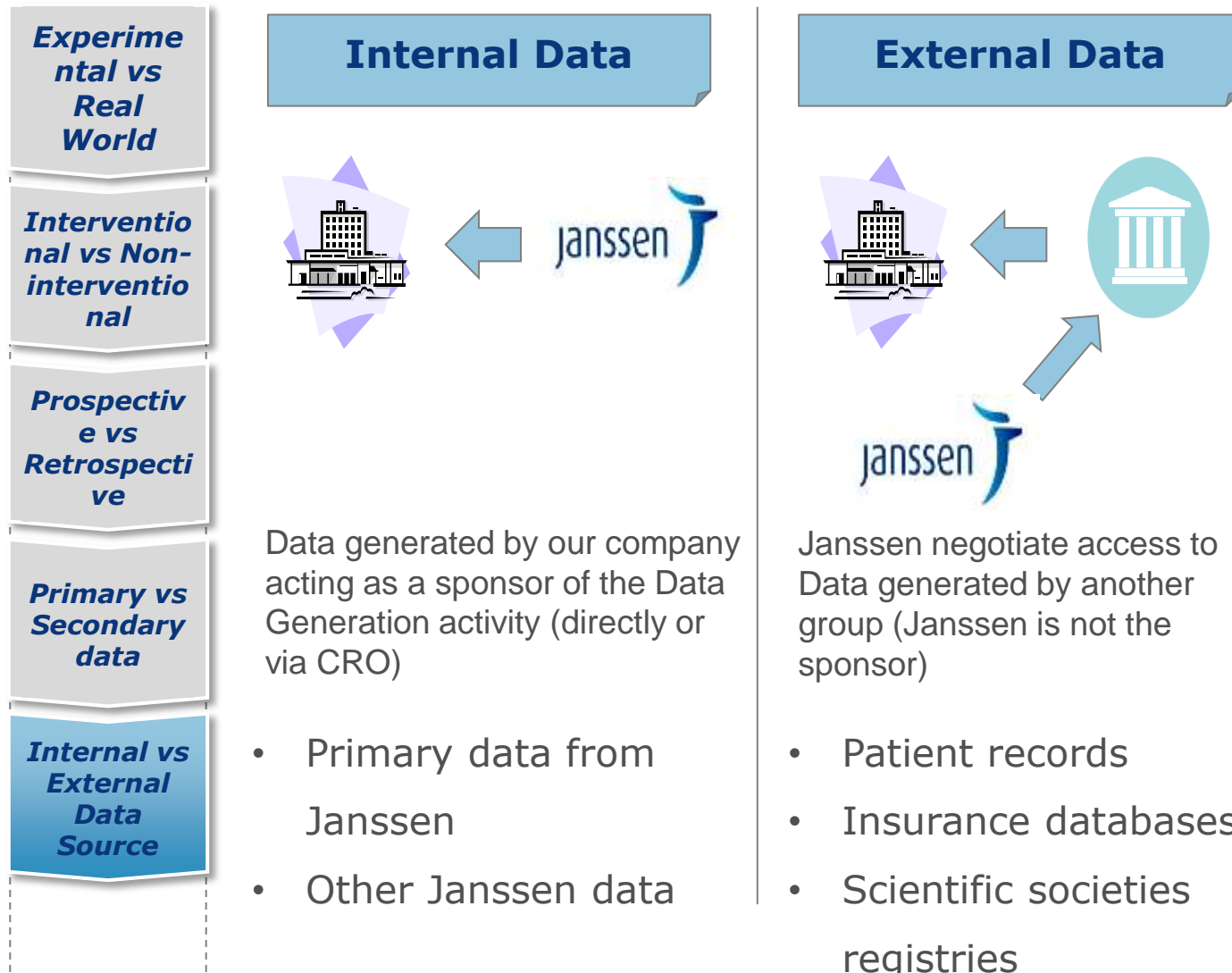
5 key elements in an Evidence Generation project



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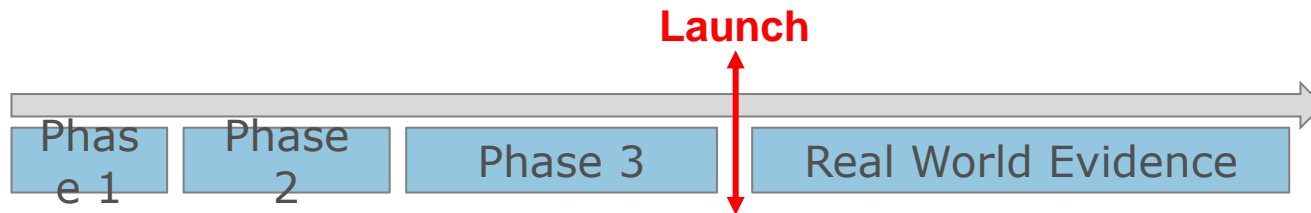
5 key elements in an Evidence Generation project



Real World Evidence as part of Evidence Generation

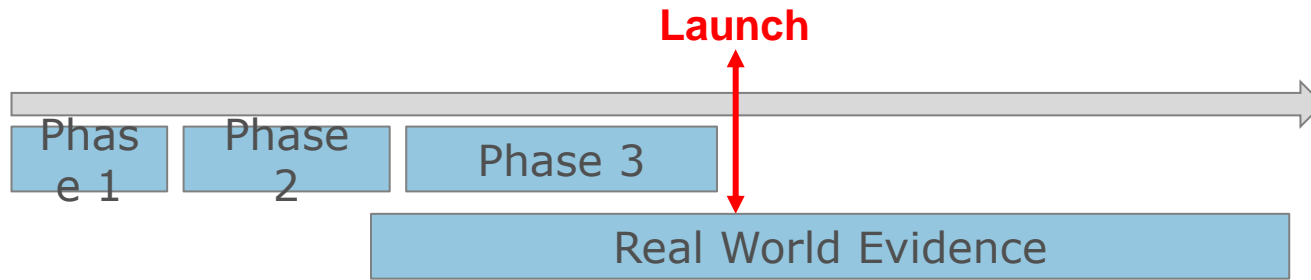
CURRENT APPROACH:

- Mainly post-launch
- Reactive



IDEAL APPROACH:

- Initiated pre-launch
- Proactive & reactive



RWE workstream process map



The journey begins!

