

User Experience Research 101:

Understanding and Benefiting
from Research

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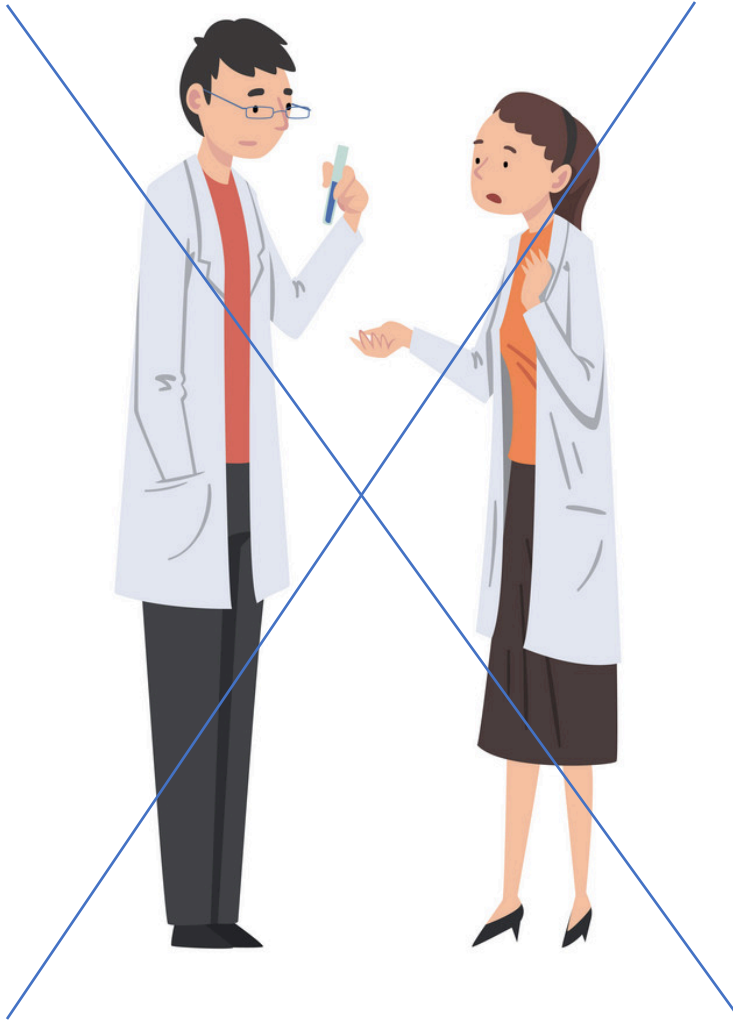
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INTRODUCTION

What is UX research?



Knowing our user  Positioning ourselves
to make decisions
to serve them

Ancestry of UXR

Psychology

Sociology/Anthropology

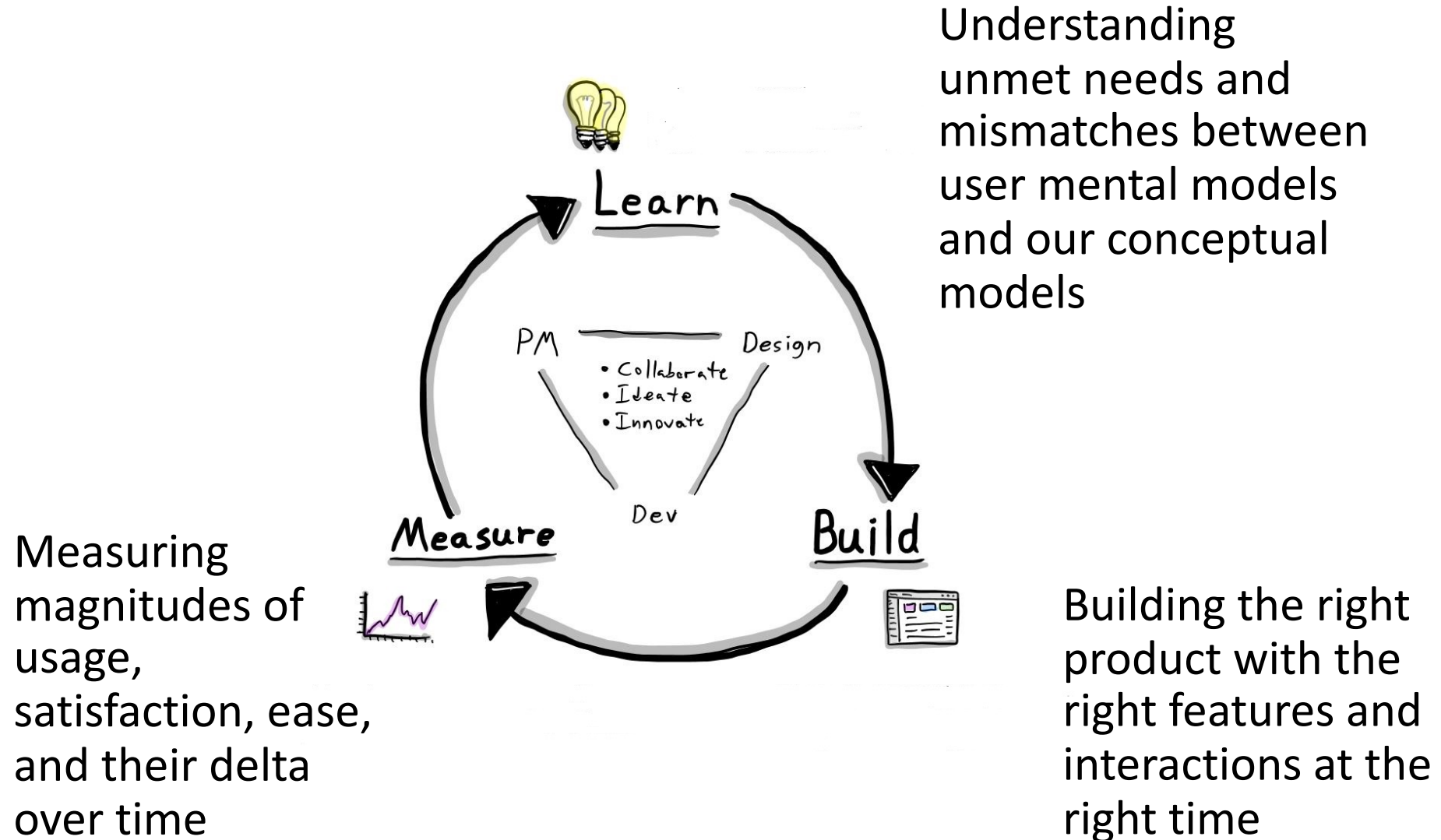
Human factors

Industrial design

Human-computer interaction

Statistics

How UXR fits into product development



Psychological challenges to UXR

Belief that we already know everything

Our expertise in subject matter, business, etc. is not expertise on the user

Sensitivity to criticism

Better to hear hear earlier, from proxy users, than later, from paying users

Politicking and power

Ship user experience design, not stakeholder opinion design

Practical challenges to UXR

Lack of understanding and interest

Lack of time

Lack of resources

Lack of access to real users

Disconnect between customers and users

Lack of UX to PM and dev parity

Lack of triad engagement

Lack of coordination across different teams within our product

Lack of higher-order support

Research pitfalls (skip until later)

Lack of foundational research (higher cost, invisible return, bigger impact) before tactical (lower cost, visible return, smaller impact)

Incremental improvements don't necessarily bring overall improvement

[Skip to consuming UXR](#)

Why do UXR?

Risk reduction, understanding expansion

You are not the user

Challenging assumptions

Long-term time and budget savings

Slowing down to speed up

Can't afford NOT to do research

People are irrational

Product sustainability depends on emotional factors

Empathy—walking a mile in their shoes

Curiosity—seeing the big picture

5 W's of UXR: WHO

Users we conduct research with

1P user of
feature
area in the
product

3P user of
feature
area in the
product

1P user
of the
product

3P user
of the
product

3P user
of Azure

User of
cloud
services

ML pro



More specific
Specialist
Experienced user
Harder to recruit

Less specific
Generalist
New user
Easier to recruit

Study participant volume

Smaller n (i.e. 3+)

Larger n (i.e. 100+)

Quick-pulse or other qualitative

Statistically significant



Best volume =

Sweet spot of enough data to see meaningful patterns

Stop when cost of gathering more data outweighs its usefulness

5 W's of UXR: WHAT

Approaches/stances of research

Behavioral

What users do

Attitudinal

What users say



Quantitative

What/how much

Qualitative

Why/how



Generative

Solving the right problem

Preventionist

Evaluative

Solving the problem right

Interventionist



Formative

In-process

Summative

End-of-process



Inductive

Observation-driven

Deductive

Hypothesis-driven



Foundational

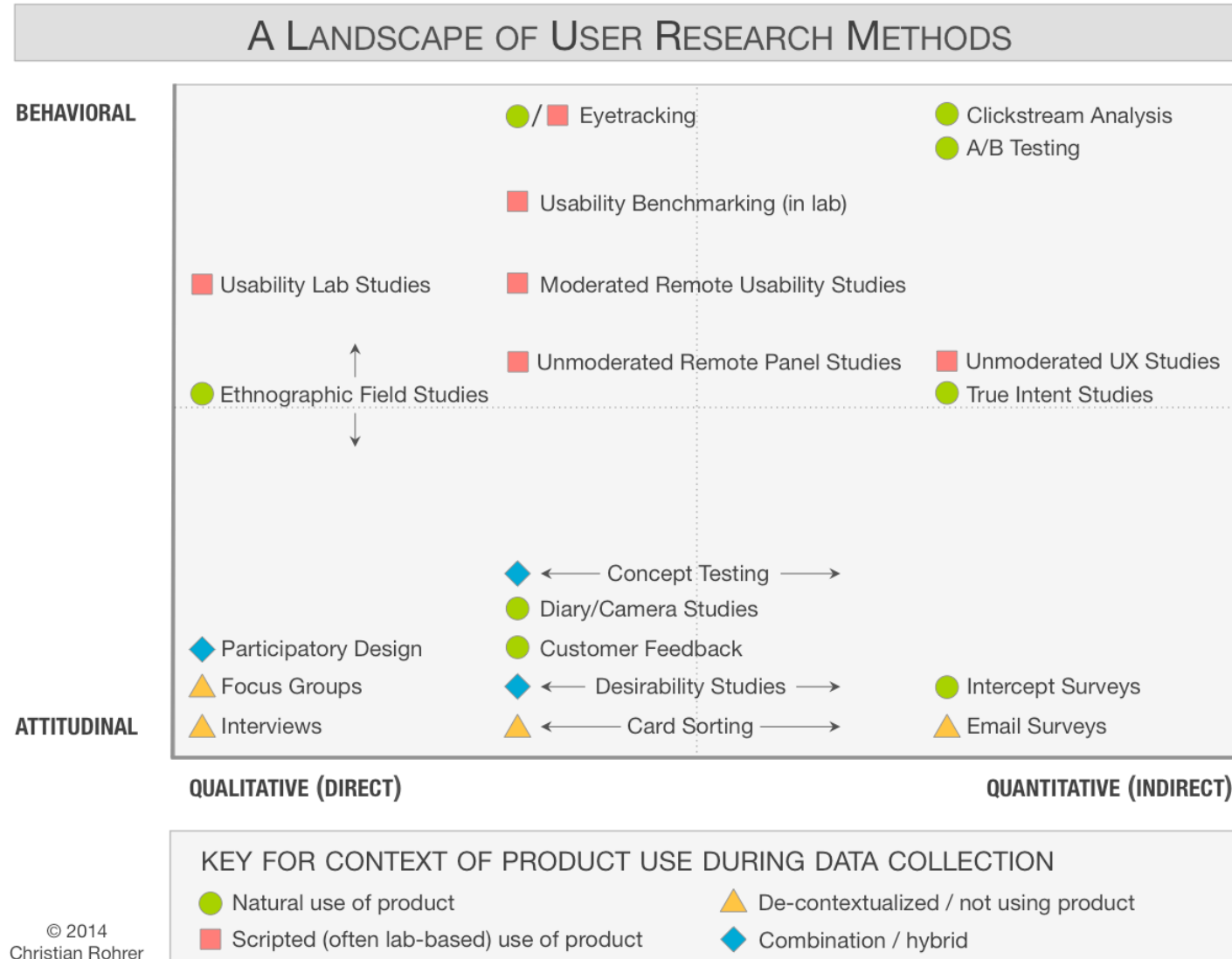
Requirements-gathering

Tactical

Fit-finding



Select user research methods



Source: Nielsen
Norman Group

Common user research methods

Interviews

Contextual inquiry

Reaction testing

Usability testing

Surveys

Other research methods

Competitive analysis

Heuristic evaluation

Cognitive walkthrough

Analytics/telemetry analysis

Statistical/business analyses

Customer feedback analysis (OCV)

5 W's of UXR: WHEN

Research timelines

Short-to-medium term

Long-term



One-off

Iterative

Recurring



Latitudinal

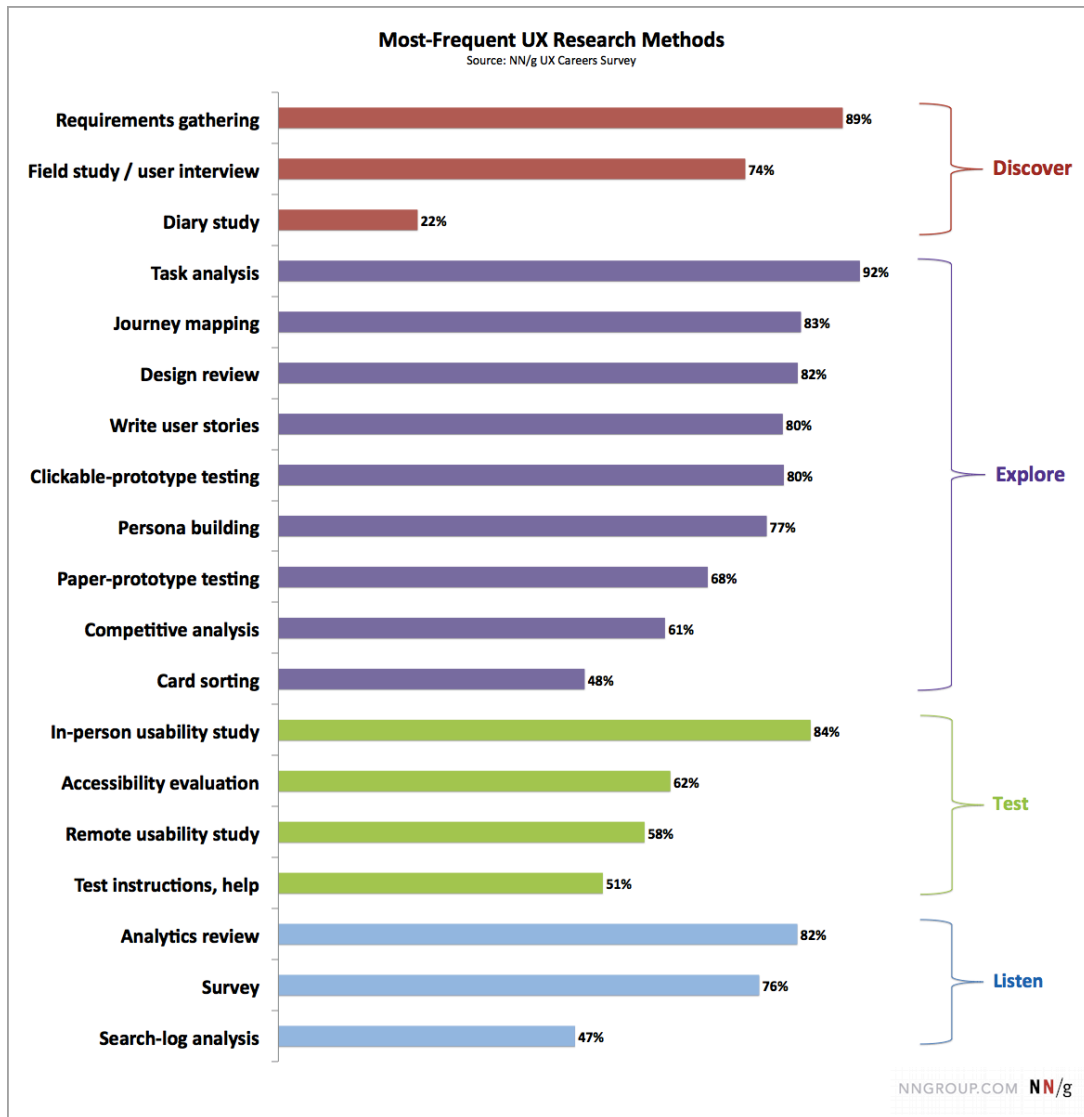
Across different users over time

Longitudinal

Across same users over time



Research by phase



Source: Nielsen
Norman Group

5 W's of UXR: WHERE

Research locales

Natural environment

Conducive to requirements-
gathering

Controlled environment

Conducive to fit-finding



Digital environment

Uncovering known unknowns

Analog environment

Uncovering unknown unknowns



Unmoderated

Asynchronous researcher review

Moderated

Synchronous researcher oversight



5 W's of UXR: WHY

Organizing questions

10,000-foot view

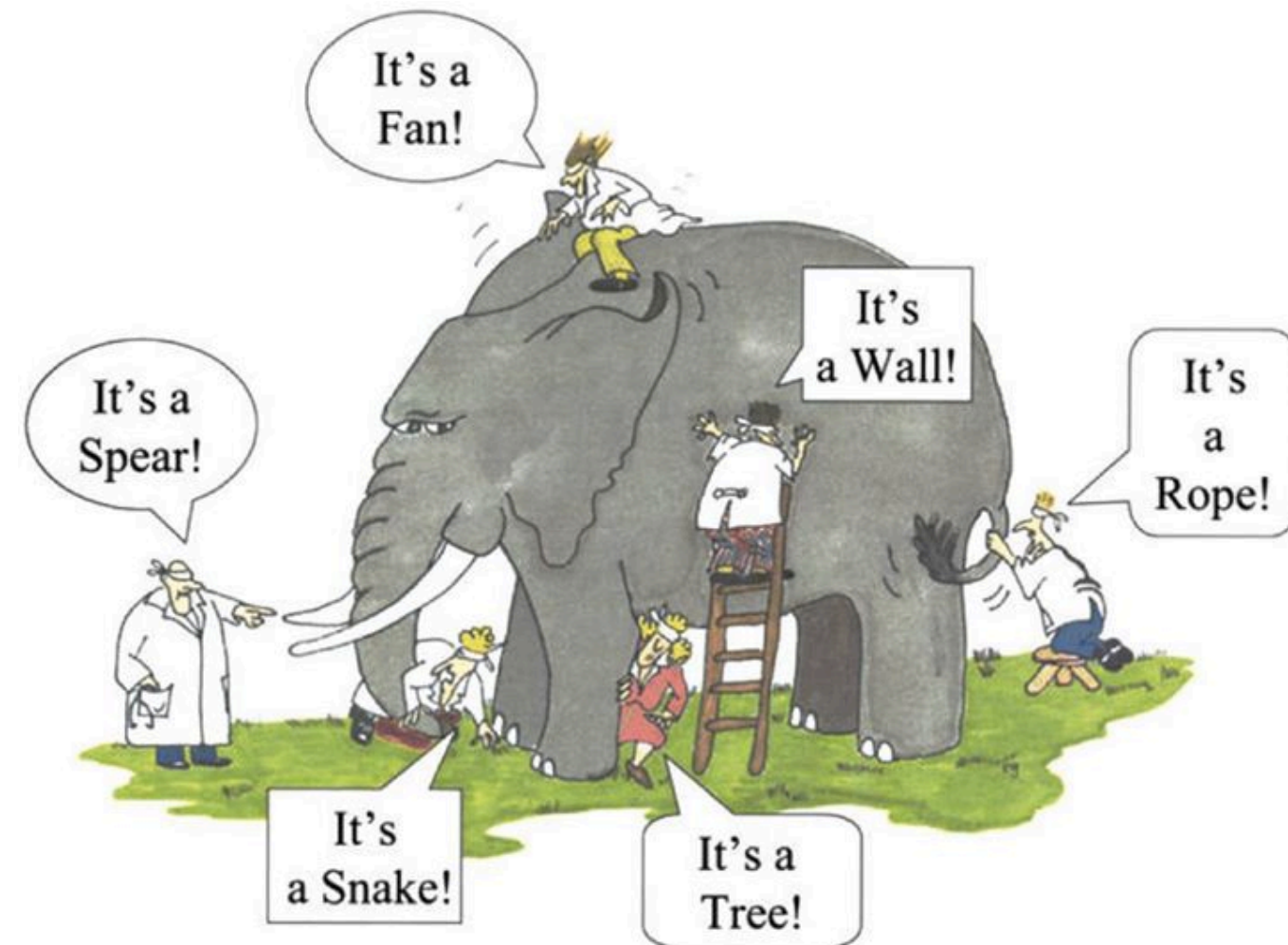
Is this a domain users care about?

10-foot view

Is this edge case articulation
consistent with user expectations?



Triangulating data



Multiple approaches
make more than the
sum of their parts

Repeat, follow-up, and continued research

Changing market

Changing user population

Changing user needs and wants

Addressing questions raised in previous research

Increasing certainty in previous findings and replicability

[Back to research pitfalls](#)

CONSUMING AND BENEFITING FROM UXR

Why follow UXR?

Assurance, certainty, efficiency

Fewer code/plan changes and throwaway code/strategy

Relevance and valuation

See your work out in the real world, with real users

No developing in a vacuum

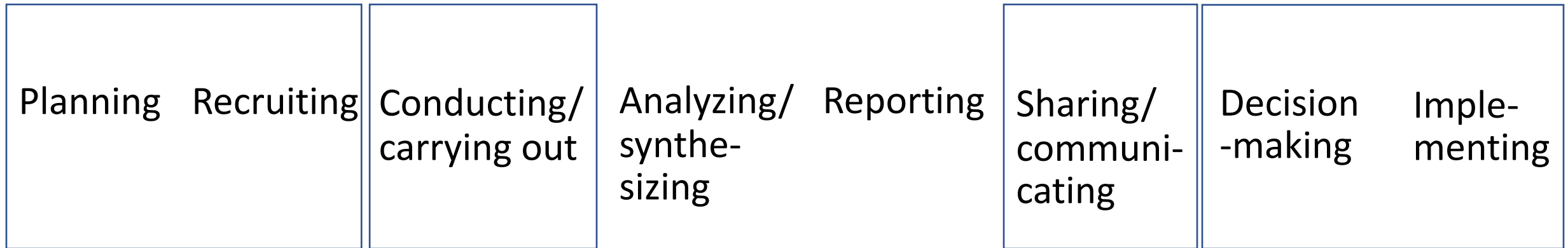
Control, ownership, engagement

Proactive over reactive

Seeing the future!

Help yourself by keeping abreast of the product

Research stages



☐ Engagement touchpoint

Planning and recruiting phases

Know the motivations for the research project

- *Provide contextual info and history on the area

Establish understanding of the status quo

- *Point to previous research done

- *Write and organize hypotheses

Help us scope the project by providing large-picture goals and limitations

- *Work with us to coordinate material for the study

Recommend users/user types for recruitment

*if applicable to the project

Conducting phase

Attend as many sessions as you can following best practices laid out in invitations

Take notes using provided forms and share

Participate in back-channel discussion or debriefs

Encourage other interested parties to attend and forward invitations

Get in touch if you think of follow-up questions/topics of interest

DO form opinions and theories but DON'T jump to conclusions

If following RITE, work with us to adapt materials in-process

Sharing phase

Read the research report, preferably ahead of a share-out meeting

Make notes and ask questions using comment boxes

Attend the share-out meeting

Participate in discussion and share your point of view

Be respectful of others' interpretations if they differ and leverage curiosity

Decision-making and implementing phases

Consider research recommendations

- *Help suggest solutions
- *Help the team come to decisions
- *Help triage changes from research
- *Track progress and keep the team informed of changes
- **Identify follow-up research needs and wants
- **Request research through intake form

*if applicable to the project

**can also happen at any stage

COLLABORATION

UXR+UXD

Prototyping for research

Aligning on scenarios prior to discussion guide creation

RITE and design tweaks in-process

Advocating for the user experience throughout

Aligning on design changes post-research

UX+PM+Dev

Live environment setup for research

Recruiting strategy

Team analysis in-process through shared notes and discussion

Team synthesis through affinity diagramming

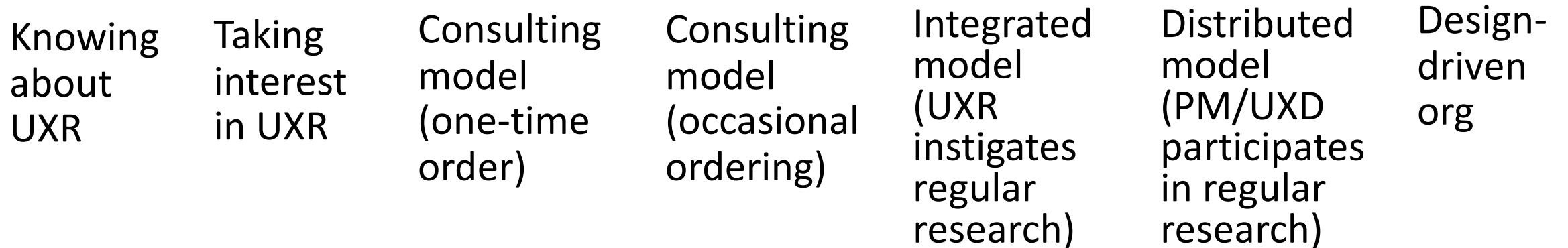
Team decision-making post-research

Follow-up and continuing research

Down the road...

UX + PM + Dev + Docs + Mkt + LT
+ other stakeholders

Team maturity around research



Remember...

You can't solve a problem without UNDERSTANDING it first

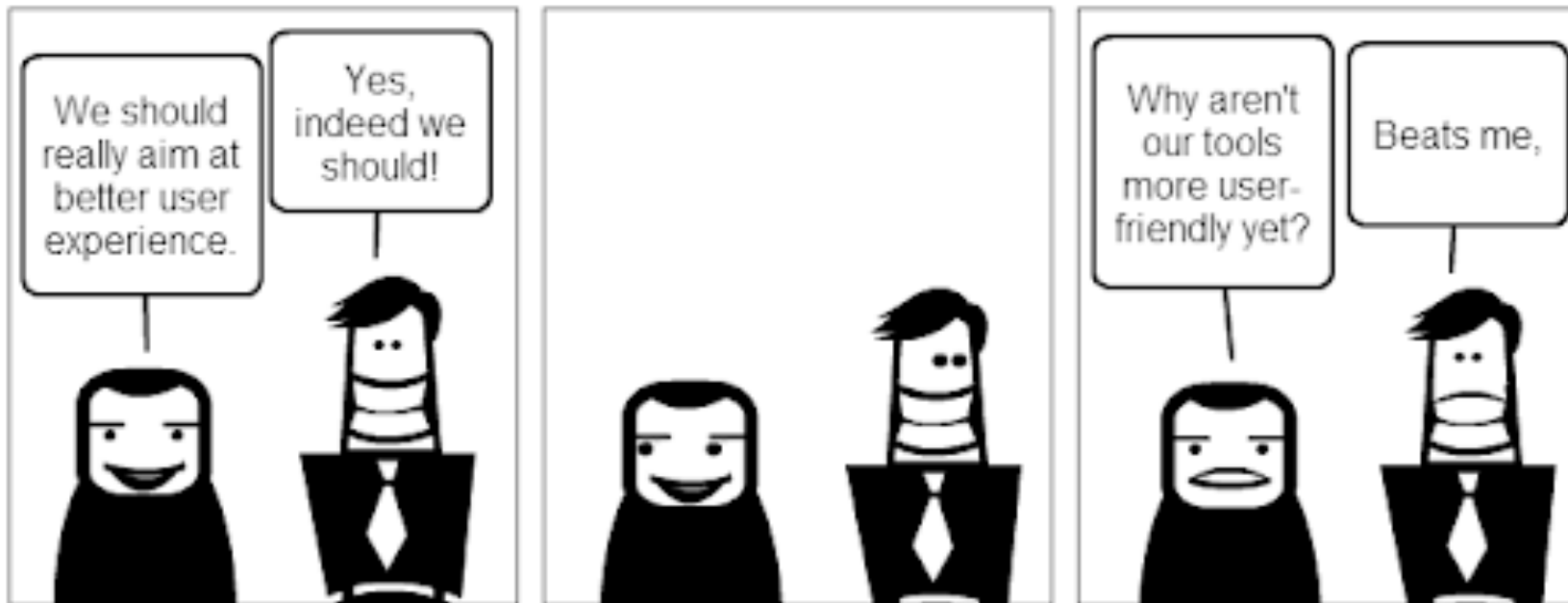
User knowledge = POWER

UXR is a valuable PART of the product development ecosystem

The whole team works TOGETHER to pool expertise

The best collaboration comprises both joint efforts AND checks and balances

No ONE party owns the experience



Source: Satu
Kyröläinen

Q&A/CASE STUDIES

Thank you

Contact Xian at v-xiang@microsoft.com for more information or with questions