

Paper 3 Topic 7a Investigating physical environments – river landscapes

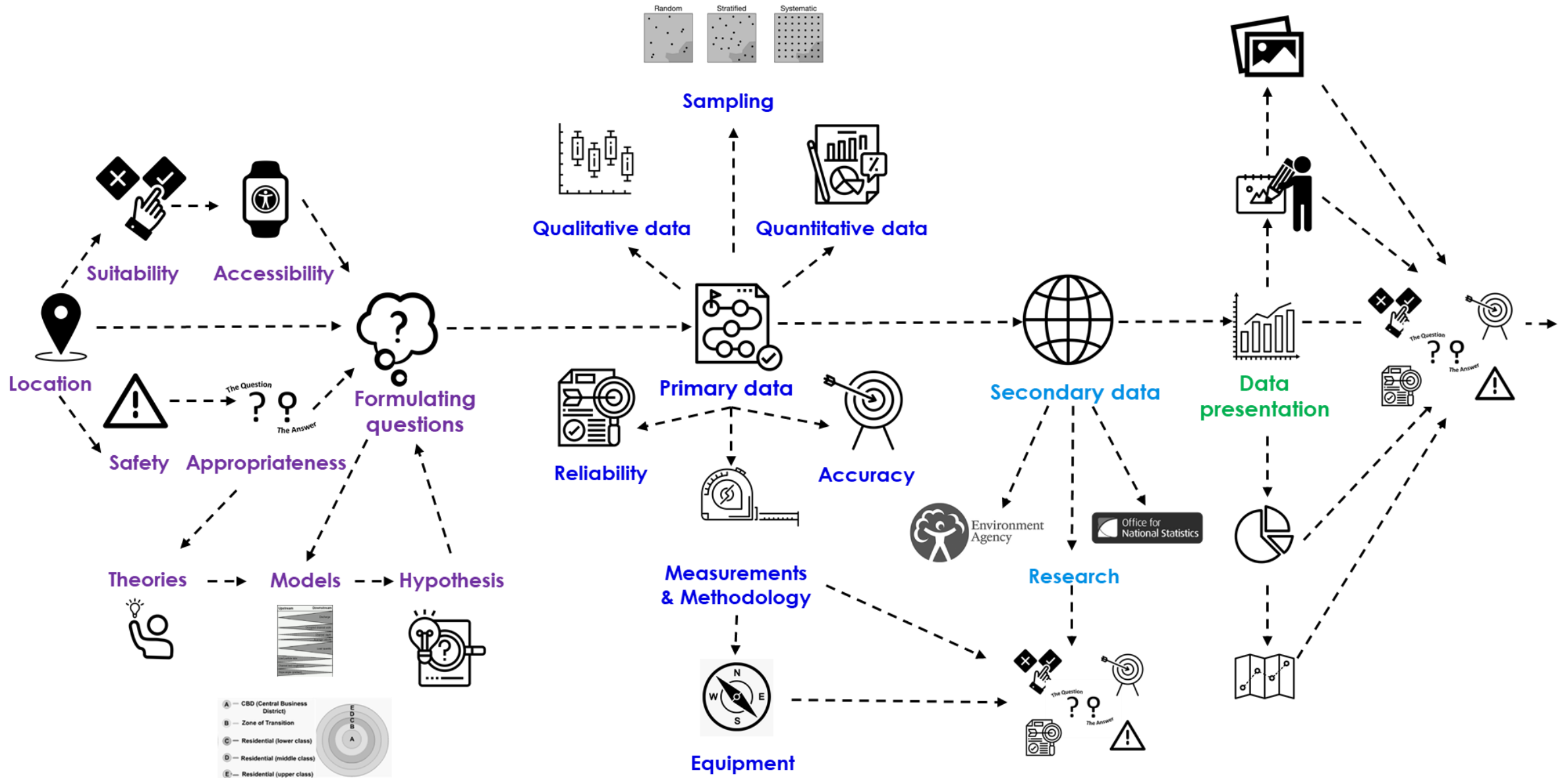


Stage 1
Formulating questions

Stage 2a
Primary data

Stage 2b
Secondary data

Stage 3
Data presentation





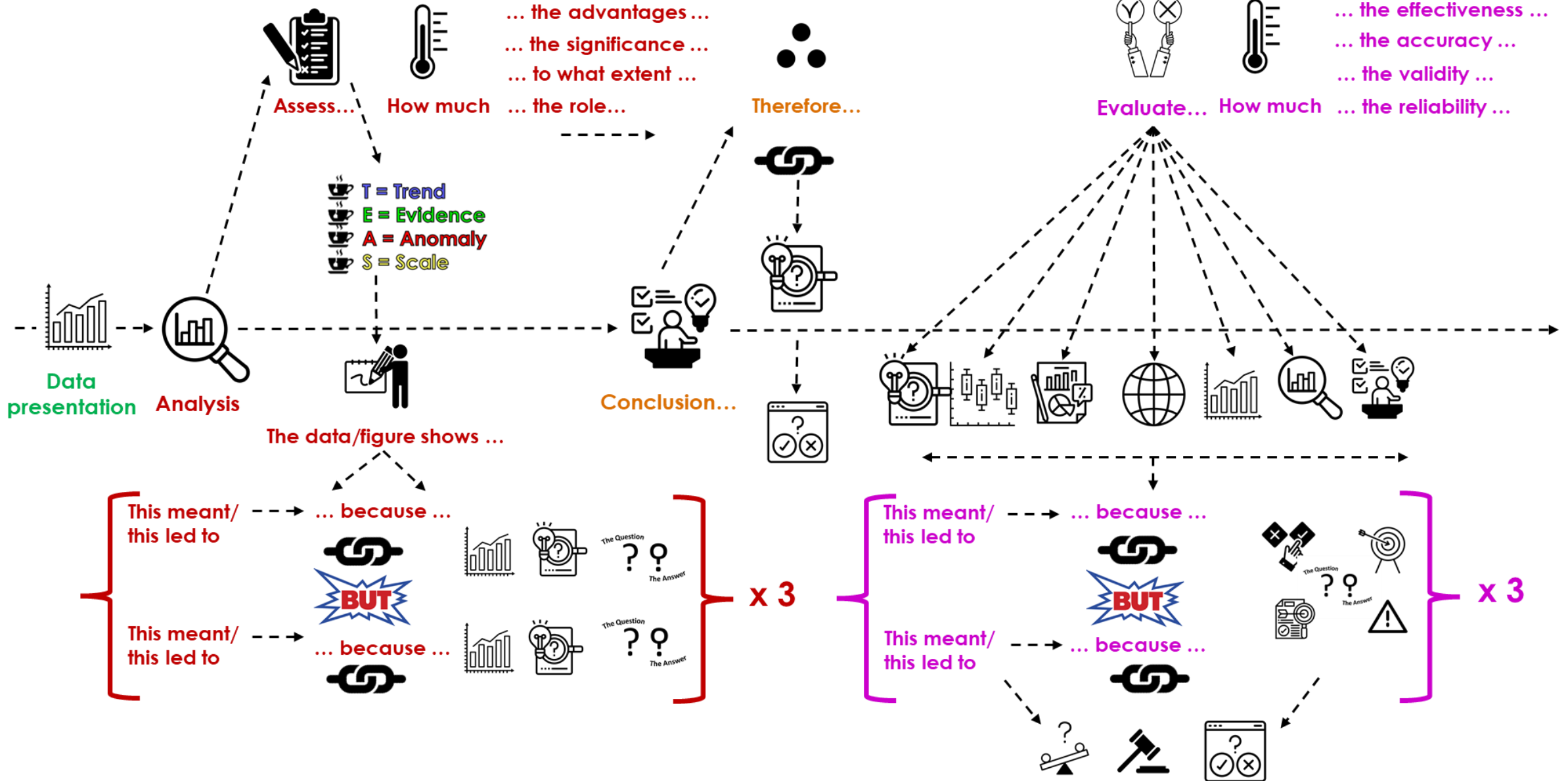
Paper 3 Topic 7a Investigating physical environments – river landscapes



Stage 4 Data analysis

Stage 5 Conclusion

Stage 6 Critical evaluation



Rivers Fieldwork - Primary Data Collection



Hypothesis



Location - Evaluation



Risk - Evaluation



Methods used - Channel Characteristics



Width – water level

Width – bankfull level



Depth – water level

Depth – bankfull level



Pebble size



Pebble shape

Class 1 Class 6
Very angular Well rounded



Methods used - Velocity



Flow meter



Stopwatch



Method Evaluation – Velocity



Methods used - Flood Risk



Field sketch



Photographs



Land Use



GIS



Method Evaluation – Flood risk





Hypothesis

Data Presentation Methods

Channel Characteristics



Cross-section



Pebble size and shape



Velocity



Flood Risk

Data Presentation Evaluation

Channel Characteristics 

Cross-section



Pebble size and shape



Velocity



Flood Risk



Secondary Data Collection



Environment Agency Flood Risk Map Evaluation



Ordnance Survey Map Evaluation



River Levels UK Website Evaluation



EA Drainage Basin Map Evaluation





Hypothesis



Analysis – what does our data show?

Channel characteristics   

Velocity 

Flood Risk  



Analysis – how and why does our data show this?

Channel characteristics   

Velocity 

Flood Risk  



Conclusion

Do channel characteristics influence flood risk on people and property along our river? How do you know?



Overall Evaluation of your fieldwork



How could the data collection be improved?



How could your study be extended?

River Flooding

