

A **user-centered design** (UCD) approach can **promote the usability and acceptability of mHealth tools** to *enhance the delivery of evidence-based interventions* in low-resource settings.

**Context:**

In Sierra Leone, child mortality rates remain high, and physical abuse and maltreatment are prevalent. This study used a UCD approach to develop and evaluate an mHealth supervision tool for CHWs delivering the Family Strengthening Intervention for Early Childhood Development plus Violence Prevention (FSI-ECD+VP) for families in rural Sierra Leone.



Brief **surveys**, **focus group discussions** (FGDs) with supervisors and CHWs to identify supervision *challenges* and *needs*.



**Prototype** the mHealth tool based on analysis findings—including *content*, *progress tracking*, and *fidelity checklist* features.



**Refine** mHealth supervision tool via iterative **user testing**, gathering feedback on usability and making necessary adjustments.



**Pilot** the mHealth tool with CHWs and supervisors *during delivery of the FSI-ECD+VP* intervention.



Examine **usability** of the mHealth tool through *mixed methods evaluation*; identify **strengths** and areas for **improvement**

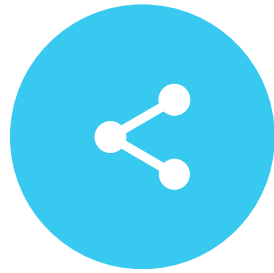
The analysis phase revealed challenges like a need for **improved documentation, data collection**, and **communication**, which the mHealth tool was designed to address.



A mixed methods evaluation found that the mHealth tool was **well-received** and perceived as *easy to use* and *helpful*. Future studies should explore the **scalability** and **sustainability** of mHealth tools in similar settings and for other evidence-based interventions.

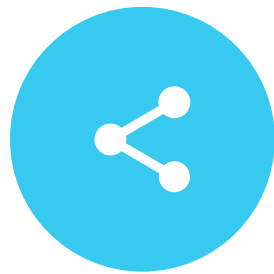
# Advantages of Visual Charts

Convey a great number of information in an effective manner



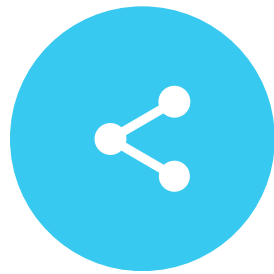
## **Simplifies statistics**

Use visual charts to communicate info more effectively.



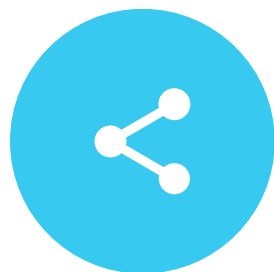
## **Easy to understand**

Use visual charts to communicate info more effectively.



## **Adds credibility**

Use visual charts to communicate info more effectively.



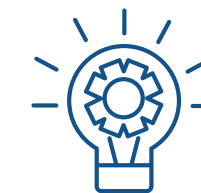
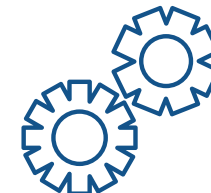
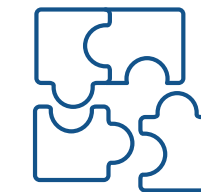
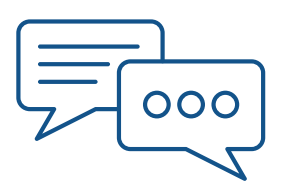
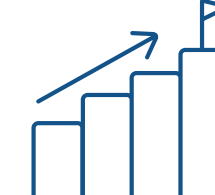
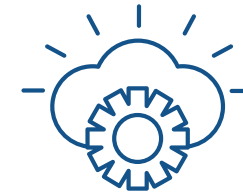
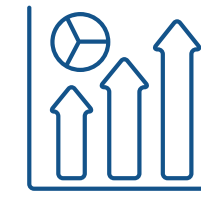
## **Makes an impact**

Use visual charts to communicate info more effectively.

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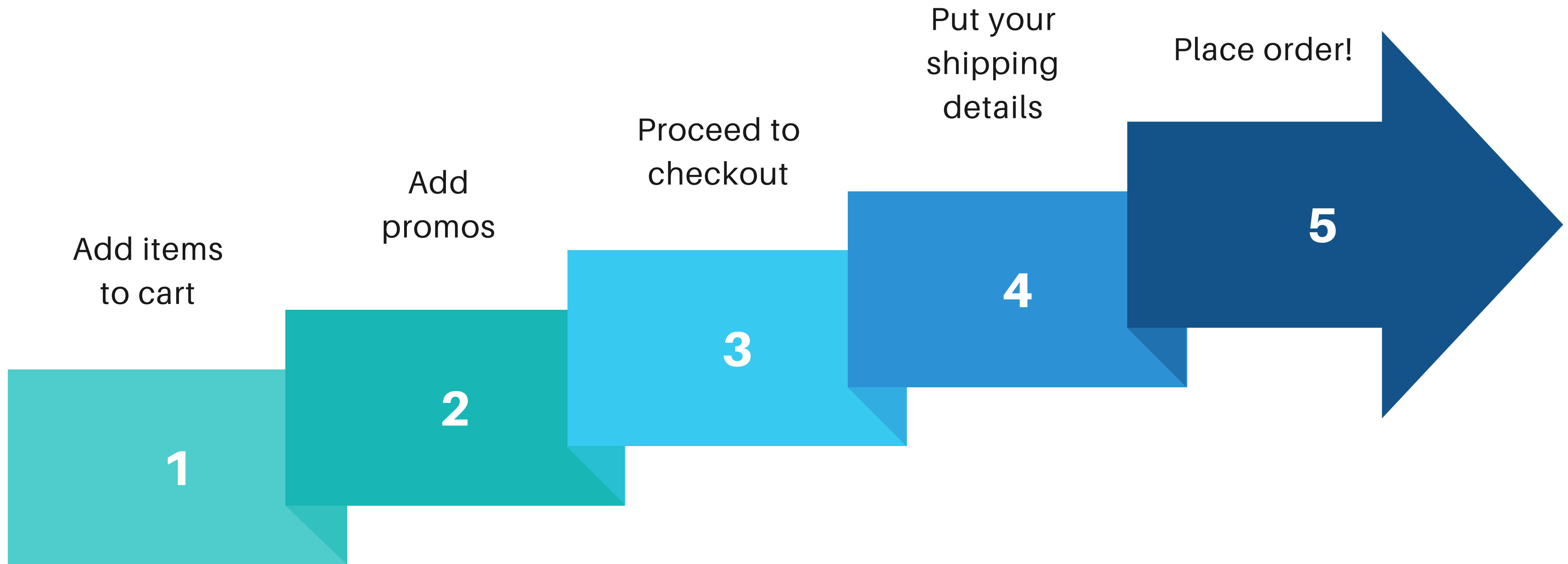
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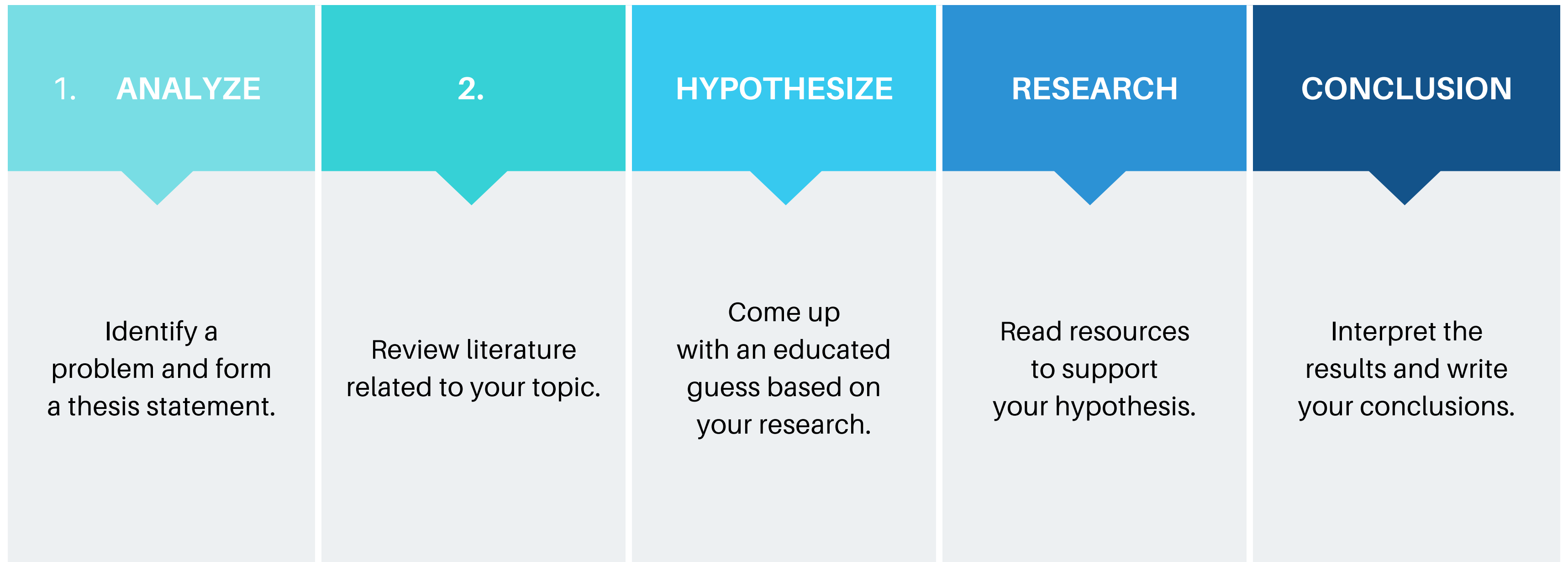


# WAVE'S END SWIMWEAR

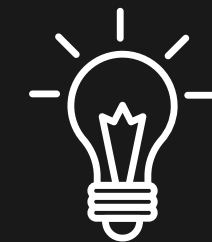
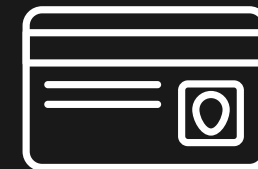
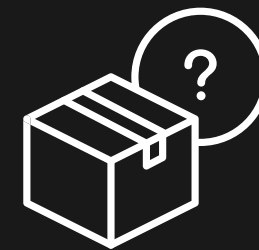
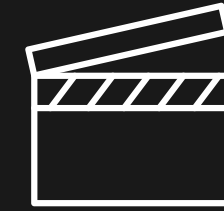
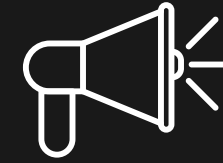
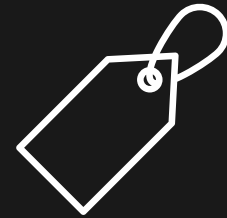
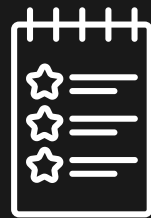
## 5-Step Ordering Process



# Stages of the UCD Process



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