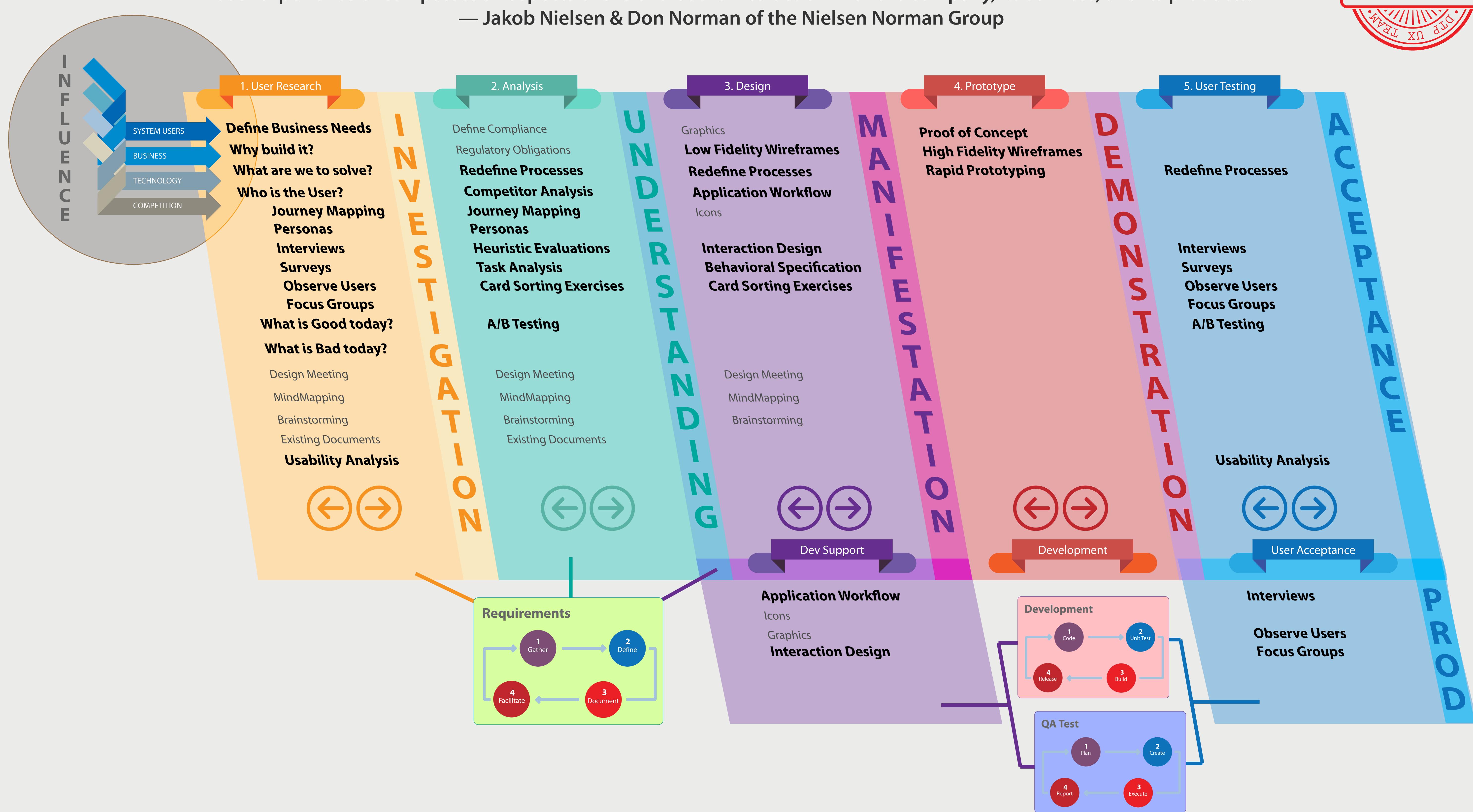
Standard User Experience (UX) Activities

"User experience encompasses all aspects of the end-user's interaction with the company, its services, and its products."







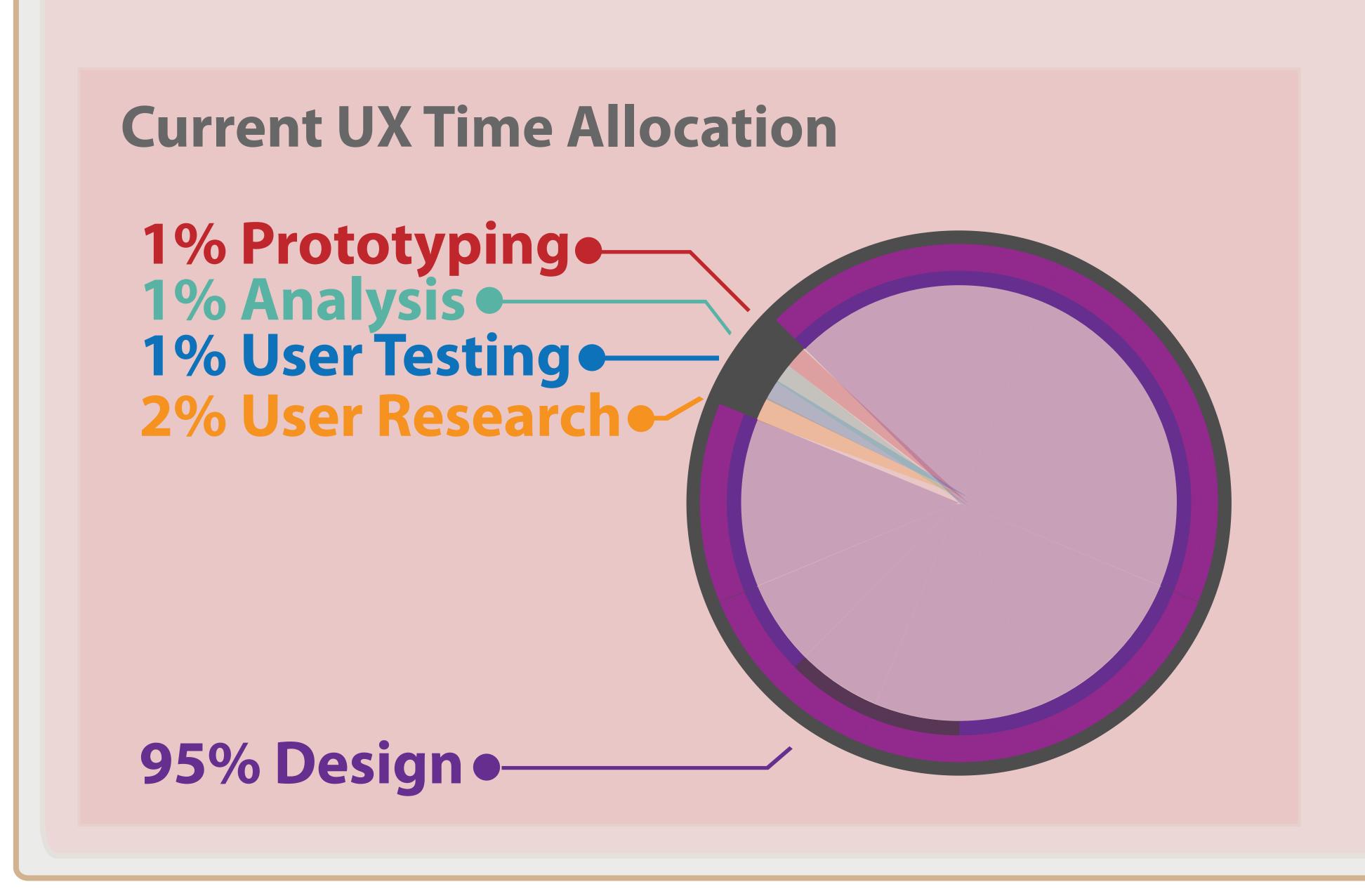
UX Today and Tomorrow

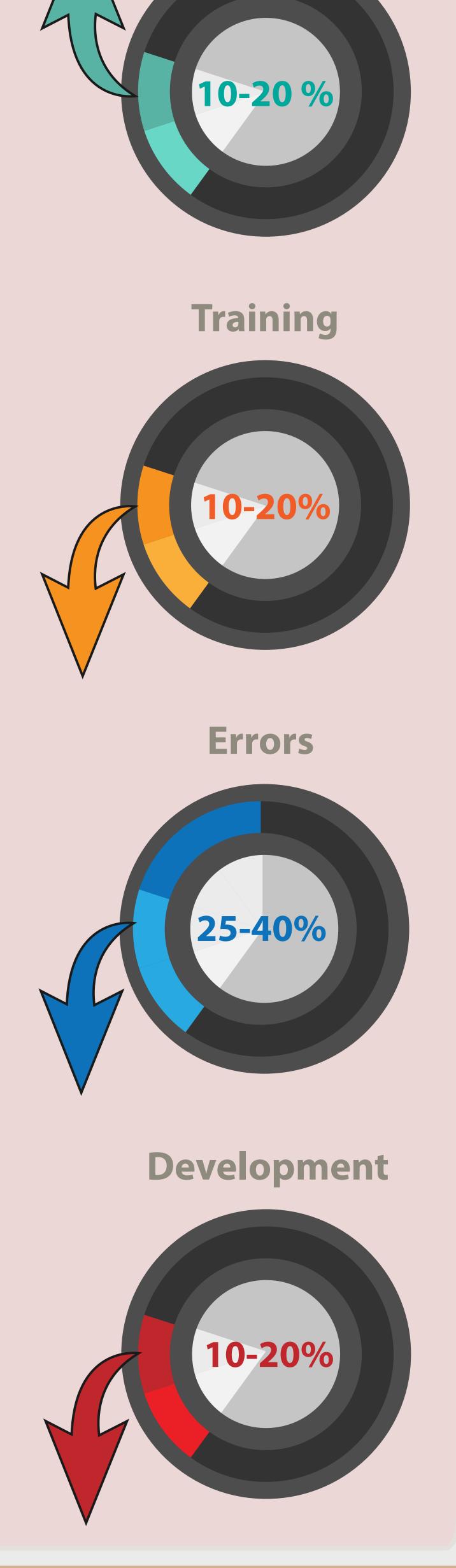
"Defining product vision is a far better investment of resources up front, because it helps you to avoid massive refactoring downstream."—Leo Frishberg

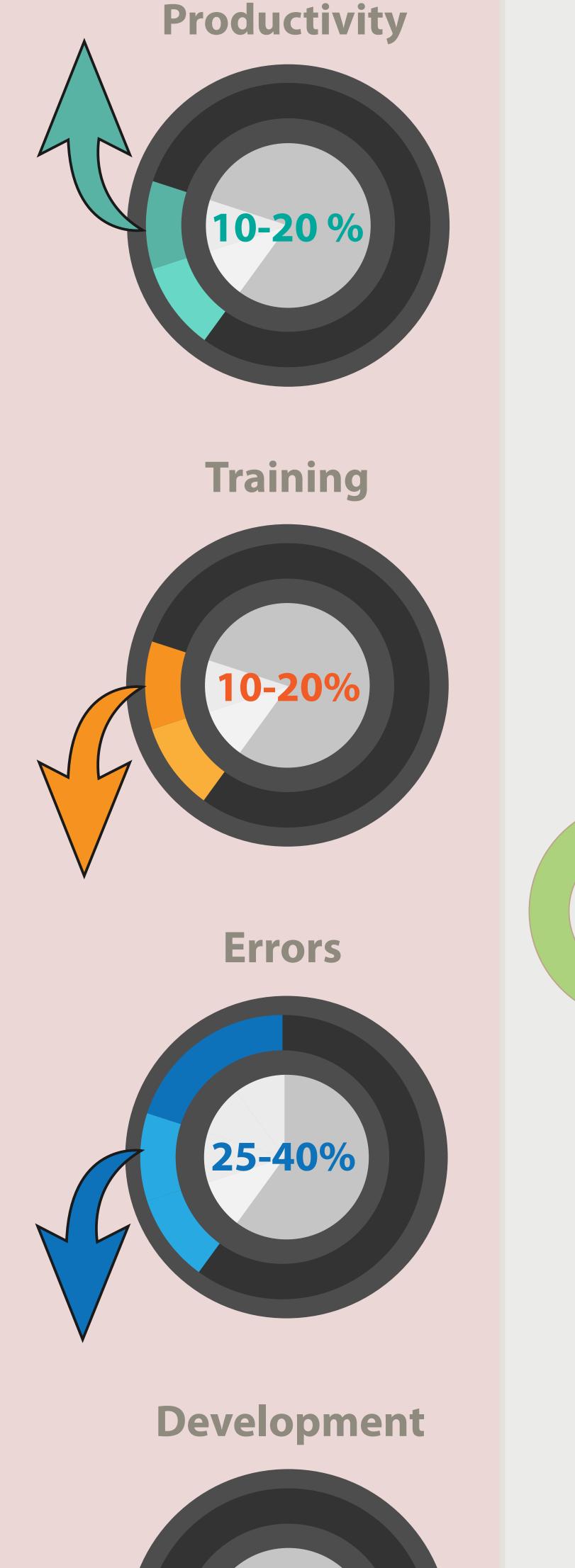
Current DTP UX

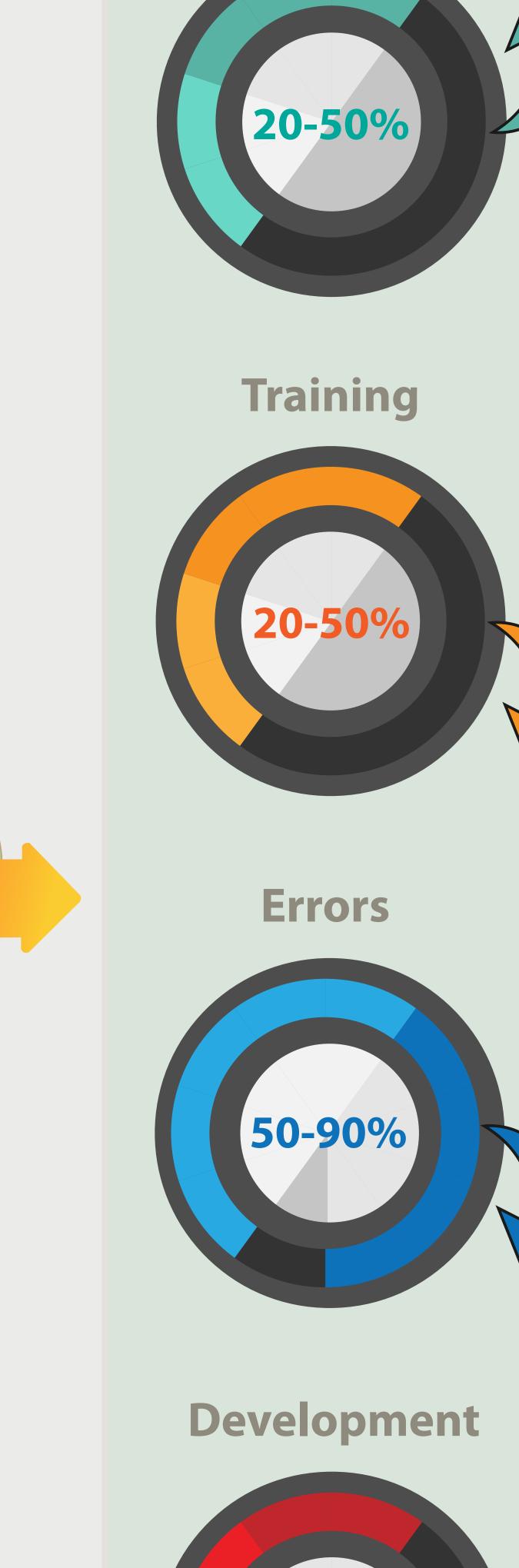
Design Phase User Experience

- Primary UX focus is UI only (wireframes & icons)
- Lack of well defined UX processes
- Frequently deprioritized (after DB, Dev, Test, Reqs)
- Engaged too late in the process
- Process improvement benefits not being realized
- Overall awareness of UX is low
- Outdated and Incongruent toolsets
- Siloed activities
- Unclear acceptance criteria
- Insufficient unity between UX, Dev & Test teams

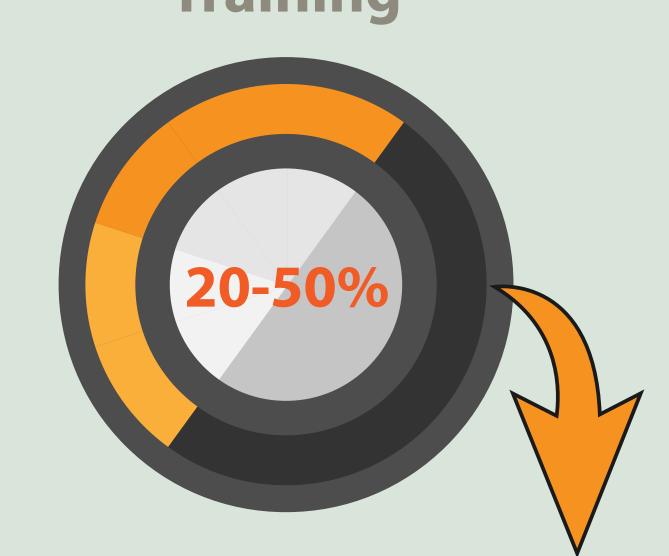


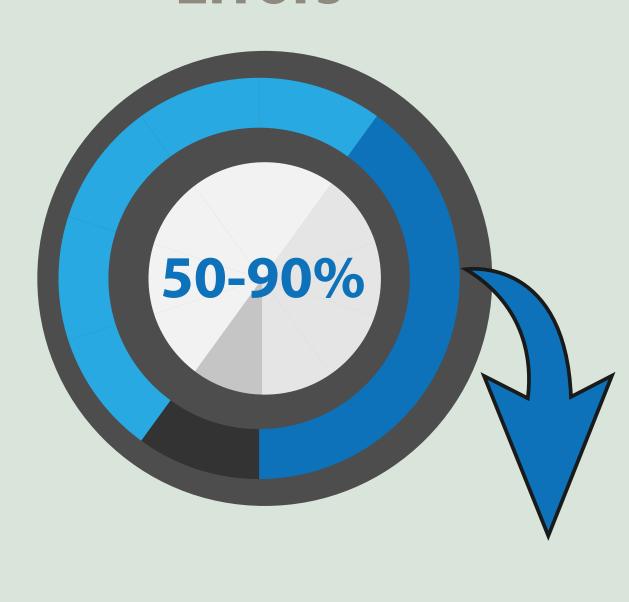






Productivity



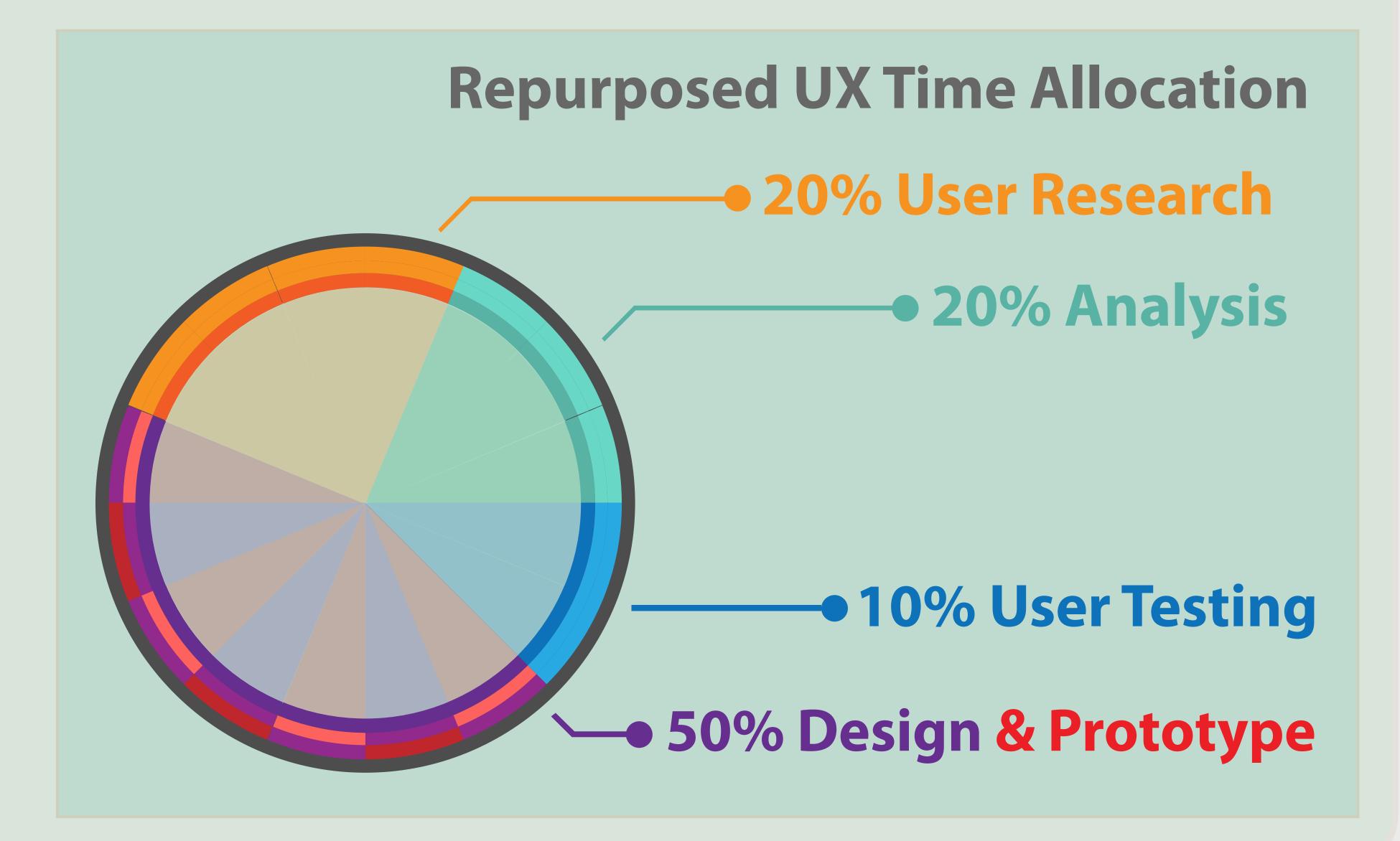




Vision for DTP UX (Release 21)

Out in Front User Experience

- Facilitates shared understanding
- Define formal UX processes
- Processes redefined with Informed Solutions
- UX three sprints ahead of Development
- Time allocated for User Research
- Time allocated for Analysis
- Combine Design & Prototype activities
- User Testing and UAT working together
- Mature UX processes clarify acceptance criteria
- UX workshops with RA, Dev, & Test teams

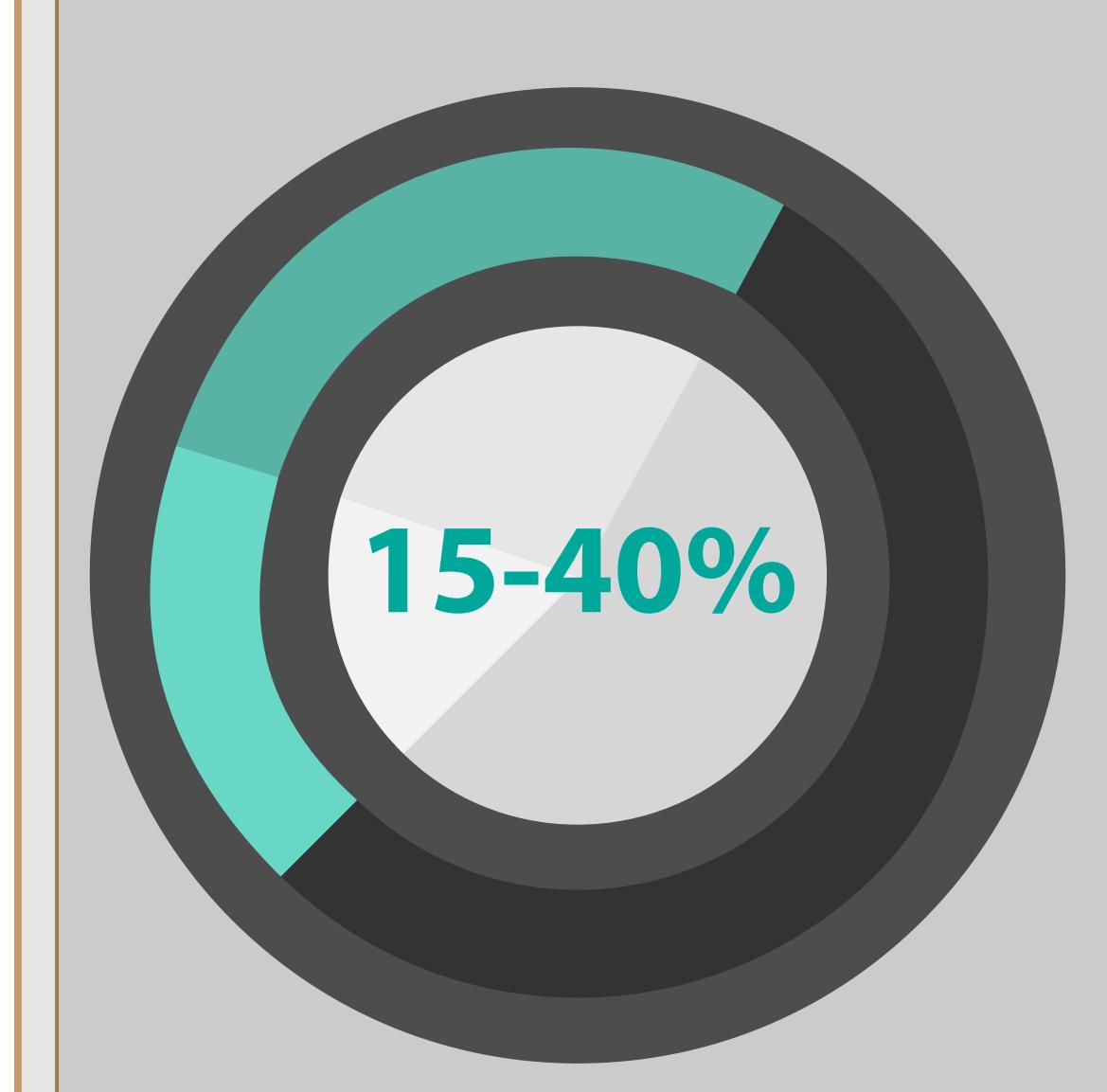




User Experience (UX) Focus in DTP

UX Saves Money

\$2-\$7 Million / Year



*5% for a better Search & Display

Analyst Productivity

- Streamlined Workflow
- Redefine Processes
- Avoid Duplicate Entry

\$15-\$22 Million 1st Year



*50% reduction in training is common

Reduced Training

- Increase Ease of Use
- Increase Ease of Learning
- Reduce Learning Curve

\$2-\$4 Million / Year

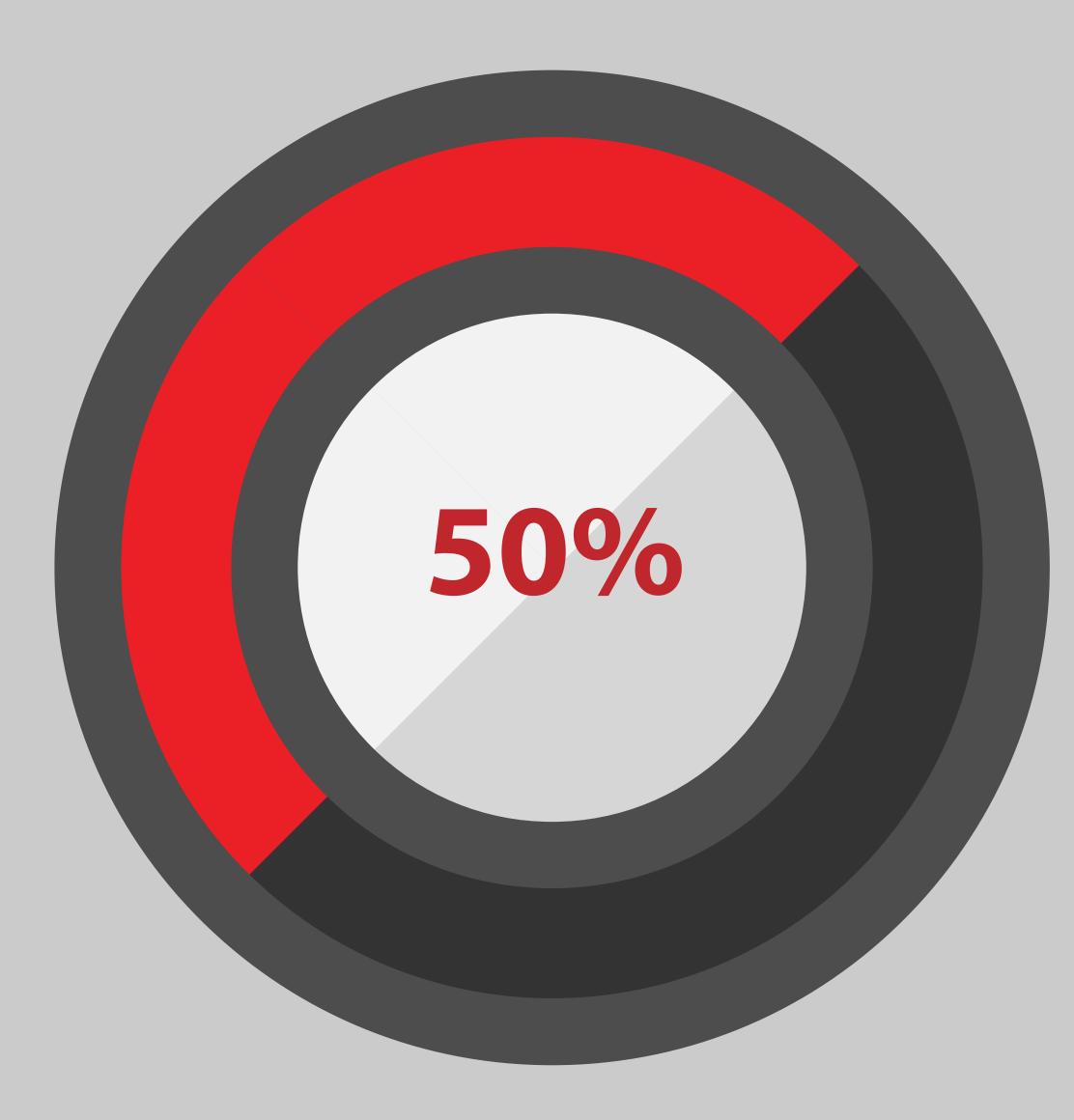


*90% Error Prevention is achievable

Data Error Prevention

- Reduce User Errors
- Reduce Customer Impact
- Reduce Analysis Time

\$1-\$2 Million / Year



*50% usually spent in avoidable rework

Reduced Development Costs

- Reduce Development Time
- Increase Developer Productivity
- Drastically Decrease Rework

UX Activities Early Adoption Costs

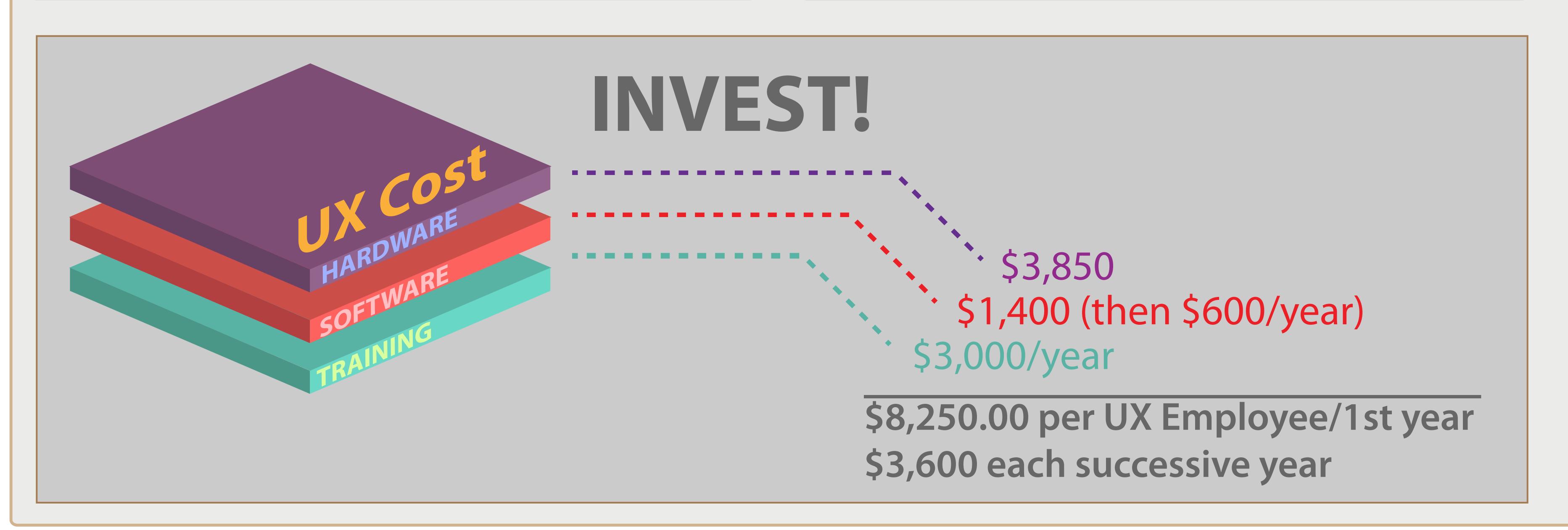


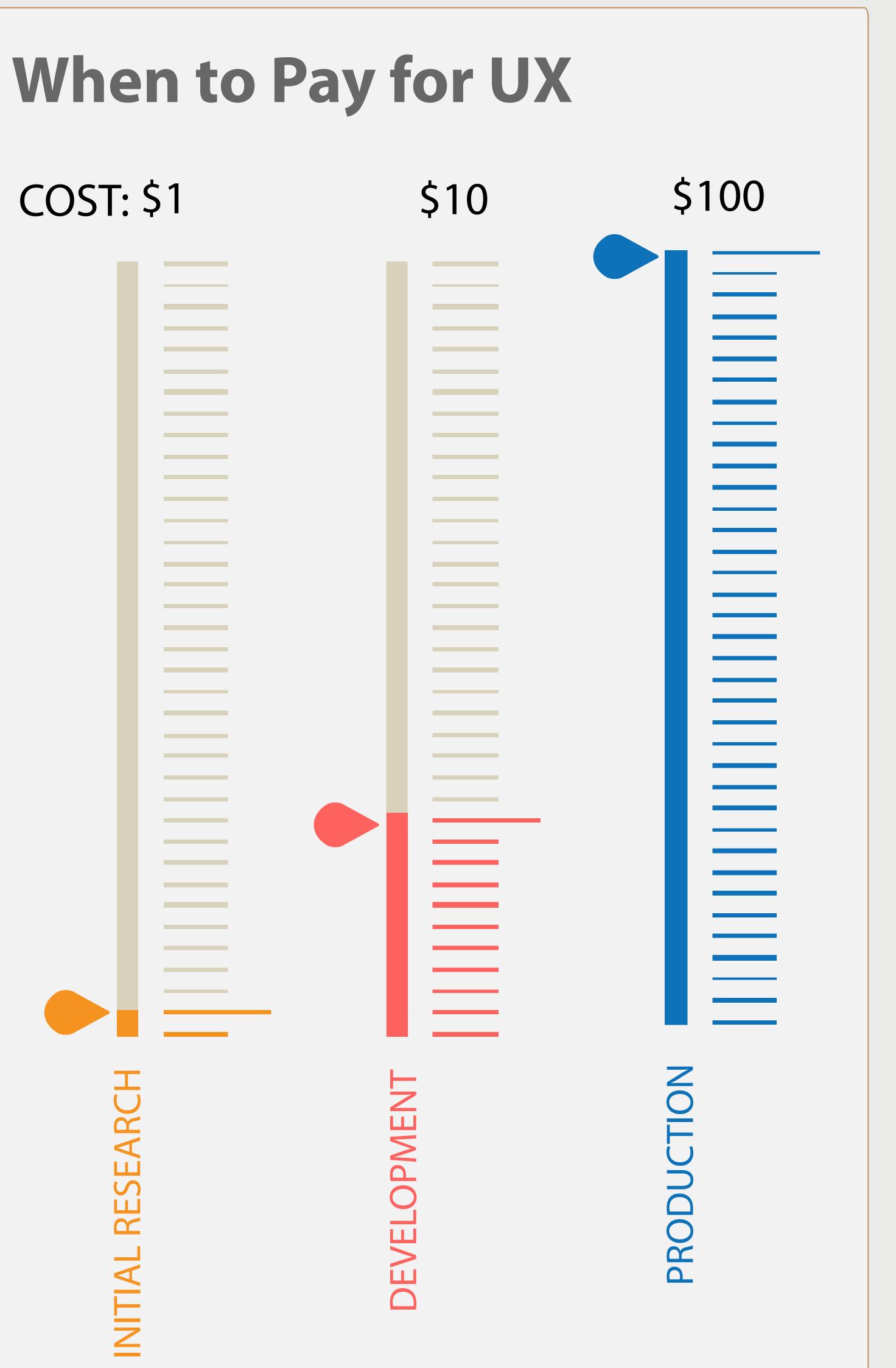
We Already Pay the Cost!

- Increased Development Time
- Loss of Productivity
- Routine Errors
- Market Loss
- Frequent Avoidable Rework
- Increased Training
- Lengthy Ramp-up
- Frustrated Progress

What Do We Change?

- The Mindset that UX is merely Design
- When we engage UX Engineers
- Educate the workforce in UX processes
- Take time to help ourselves
- Repurpose time we already spend
- Define efficient processes
- Procure proper resources and tools
- Increase UX accessability





Agile UX: Processes Scaled to Fit the Scope

Functionality

Simple

- -single form
- -table updates
- -subprocesses

Examples:

- -Basic Search
- -PCD Customer

Moderate

- -multiple steps
- -more complex
- -more interactions

Examples:

- -Advanced Search
- -Wizards

Complex

- -intricate
- -many interactions
- -multifaceted

1. User Research

- What are we solving?
- Observe users
- Good/Bad Today

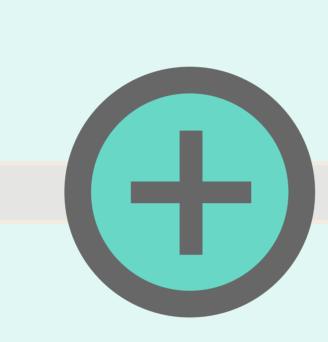
- Define business need
- Who is the user
- Journey Mapping
- Surveys
- Usability Analysis
- Interviews



- Personas
- Focus Groups
- Design Meeting
- MindMapping
- Brainstorming
- Existing Documents

2. Analysis

- Card Sorting
- Task Analysis
- Design Meeting
- Existing Documents
- Brainstorm

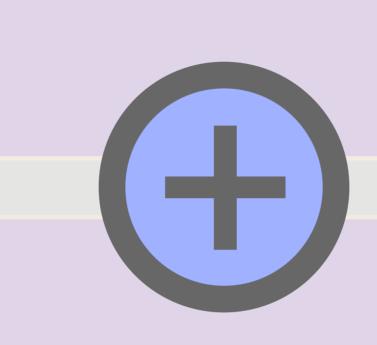


- Define Compliance
- Regulatory
- Redefine Processes

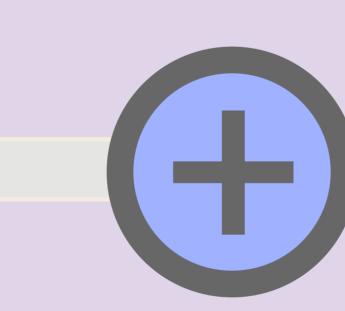
- Competitor Analysis
- Journey Mapping
- Personas
- Heuristic Eval
- Mind Mapping

3. Design

- Paper Prototype
- Low-Fi Wireframe
- Behavioral Spec
- Graphics
- Icons



- Card Sorting
- Workflow
- Design Meeting
- Redefine Processes
- Brainstorming



Mind Mapping



Rapid Prototyping

4. Prototype

- - Proof of Concept
 - High-Fi Wireframes

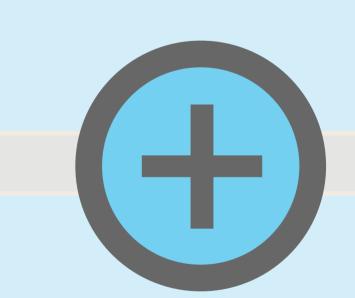
• A/B Testing

Observe Users

5. User Testing



- Redefine Processses
- Interviews
- Surveys
- Usability Analysis



Focus Groups



Complex Example:

-Realtime Geospatial visualization during a claimed-work Feature attribute edit in a pre-validated Revision Set following an Advanced Search and Resultset display