



Linda Dunseath
EXECUTIVE DIRECTOR



Our Purpose:

To specialize in research and development of products and services for living well across the lifespan with an expertise in the 50+ marketplace.



8 YEAR ANNIVERSARY

50 SPONSORED PROJECTS

14 PARTNERS

500+ STUDENTS

7 PATENTS

Healthcare Projects To date:



Bone Marrow Transplant Center
Fall 2013 + Spring 2014



Pain Management
Winter 2012 & Fall 2011



Hospital Patient Gown Redesign
Fall 2008

Medication Management
Winter 2008



Diabetes Management
Fall 2013



Personal Care
Spring 2013



**Chinese Diabetes
Interventions**
Spring 2010

Elder Financial Abuse
Spring 2010

Assisted Mobility Devices
Winter 2010

Tray Table Redesign
Fall 2009



Cancer Journey I, II
Spring + Summer 2015

Diagnosis Experience
Spring + Summer 2015

Foster Care Transition
Fall 2014 + Spring 2015
Healthcare application design

Adherence Device I, II, III
Summer 2014 - Spring 2015

Sickle Cell Trait Web Design
Fall 2014

Clinic Redesign
Summer 2014

iTransition I&II
Summer 2012 + 2013

We keep Great company



Studios projects to date:

livewell COLLABORATIVE

Since its official formation in June of 2007 the LWC has completed **45** projects, involved **50+** UC faculty and expert advisors, and **500+** upperclassmen and graduate students.

<p>BOEING</p> <p>Inflight Communication Spring 2014</p> <p>Service Models Spring 2013</p> <p>Flight Attendant Work Redesign Fall 2012</p> <p>Seating Redesign Spring 2012</p> <p>Lavatory Development Fall 2011</p> <p>The Door-to-Door Journey Winter 2011</p> <p>The Future Traveler Fall 2010</p> <p>Pfizer</p> <p>Pain Management Research & Product Development Winter 2012 & Fall 2011</p> <p>citi</p> <p>Financial Services Fall 2007 & Winter 2008</p>	<p>kraft foods</p> <p>Packaging Design Winter 2012</p> <p>Healthy Snack Solutions Spring 2011</p> <p>UNIVERSITY OF CINCINNATI</p> <p>TransForum Winter 2010–Summer 2011</p> <p>DESIGN & NURSING</p> <p>Chinese Diabetes Interventions Spring 2010</p> <p>Elder Financial Abuse Spring 2010</p> <p>Assisted Mobility Devices Winter 2010</p> <p>Tray Table Redesign Fall 2009</p> <p>LHC Health</p> <p>Bone Marrow Transplant Center Fall 2013</p>	<p>P&G</p> <p>Surface Care Summer 2014</p> <p>Package Design Spring 2014</p> <p>Personal Care Spring 2013</p> <p>Crest & Oral-B Winter 2011</p> <p>Fixodent Fall 2009</p> <p>UC Simulation Center Summer 2009</p> <p>Packaging simulations Packaging simulations</p> <p>Old Spice, Secret, Gillette Summer 2008</p> <p>Tide Spring 2008</p> <p>Pur Summer 2007</p> <p>Iams Spring 2007</p> <p>UnitedHealthcare</p> <p>Fall 2013</p>	<p>THE DUCHOSSOIS GROUP</p> <p>Progresso Spring 2009</p> <p>Betty Crocker Fall 2008</p> <p>Green Giant Spring 2008</p> <p>Yoplait Fall 2007</p> <p>THE DUCHOSSOIS GROUP</p> <p>Product Development Fall 2012</p> <p>Aging in Place Studio Winter 2012</p> <p>LG</p> <p>Refrigerator Design Fall 2009</p> <p>Stove Design Spring 2009</p> <p>livewell studios</p> <p>Sustainability Project Member Collaboration Winter 2009</p>	<p>Hill-Rom</p> <p>Hospital Patient Gown Redesign Fall 2008</p> <p>Medication Management Winter 2008</p> <p>Cincinnati Children's Hospital Medical Center</p> <p>Sickle Cell Trait Fall 2014</p> <p>Foster Care Transition Fall 2014</p> <p>Clinic Redesign Summer 2014</p> <p>Adherence Device I&II Summer + Fall 2014</p> <p>iTransition Summer 2012</p> <p>Pediatric to adult care</p> <p>iTransition II Summer 2013</p> <p>Patient Adherence</p>
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LWC_Studios_Chart_August2014

livewell COLLABORATIVE

The Live Well Collaborative – Singapore since its official formation in September 2010 has completed more than **25** sponsored projects, **10** innovation projects, involving over 25 lecturers and more than **400** students. LWC-S currently has a total of 16 interest-to-file patents under Boeing.

<p>BOEING</p> <p>The Door to Door Journey Mar to May 2011</p> <p>Your Personal Space in the Sky Sep to Oct 2011</p> <p>Stretchchair Nov 2011 to Apr 2012</p> <p>Lavatories in the Sky Mar to Apr 2012</p> <p>Managing the Queue Sep to Dec 2012</p> <p>Communications in the Air Mar to Apr 2013</p> <p>Trolley Service – Galley Operations with Singapore Airlines Sep to Dec 2013</p> <p>SINGAPORE AIRLINES</p>	<p>P&G</p> <p>Learning Pilot: Gen-Y May to Aug 2011</p> <p>Learning Pilot: Baby Boomers May to Aug 2011</p> <p>Vitamins, Minerals & Supplements (India 1+) Jan to Jun 2013</p> <p>Hair Colour for Beauties at Home Jun to Sep 2013</p> <p>Digitally Enhanced Haircare Mar to Apr 2014</p> <p>Digital Design Feb to Mar 2014</p> <p>Hill-Rom</p> <p>Pressure Ulcer Prevention Apr to Jun 2012</p> <p>Emerging Market Bed Testing Oct 2013</p> <p>Emerging Markets for Pressure Ulcers Products Apr to Dec 2013</p>	<p>kraft foods</p> <p>Snack Packaging Workshop May to Jun 2012</p> <p>Mondelēz International</p> <p>Project Mario Jun to Jul 2013</p> <p>Panasonic Ideas for life</p> <p>Appliances for Home Use – Singapore Sep 2013 to Mar 2014</p> <p>Appliances for Home Use – Taiwan Sep 2013 to Mar 2014</p> <p>iNO MOBILE</p> <p>Tablet Computer for 50+: Gen Pad Apr to Jun 2012</p>	<p>KIDZ</p> <p>Creative Aids for 50+ Jul to Sep 2012</p> <p>ECON</p> <p>Tender for Senior Centres (SSC) Sep 2012</p> <p>ST Kinetics</p> <p>Elderly Friendly Mobility Scooter Nov 2012 to Jun 2013</p> <p>Khoo Teck Puat Hospital Alexandra Health</p> <p>Innovation Projects: ENT Cleaning Container Apr 2011</p>	<p>MERCY</p> <p>Social Innovation Projects: 7 nos 2011, 2012 & 2013</p> <p>HOUSING & DEVELOPMENT BOARD</p> <p>Social Innovation Projects: Future Trends of Silver Living 2012 & 2013</p> <p>BANYAN TREE HOTELS & RESORTS</p> <p>Innovation Projects: Future Trends of Silver Living - Luxury Homes 2012</p> <p>SINGAPORE POLYTECHNIC SP</p> <p>Tricity: Beauty Care (P&G – Ho Chi Minh City) Mar to Apr 2014</p> <p>BOMBA (SIP) Jan to Aug 2014</p>
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ABOUT
US

UC's Innovation on Vine

Computer
Simulation Center

Niehoff Urban
Design Center

Live Well
Collaborative

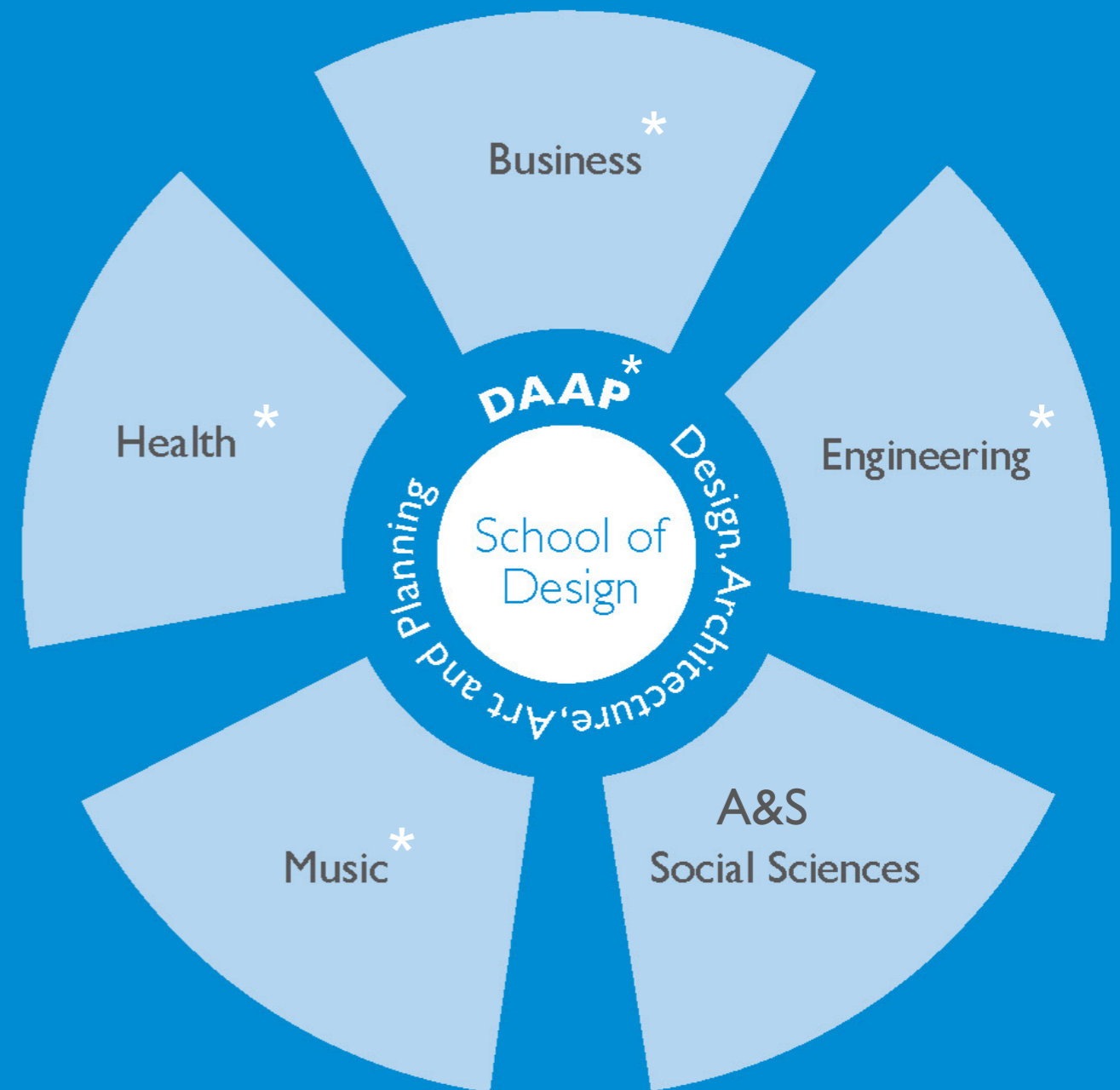


Why The Live Well Collaborative?

Unique interdisciplinary capability of the University of Cincinnati

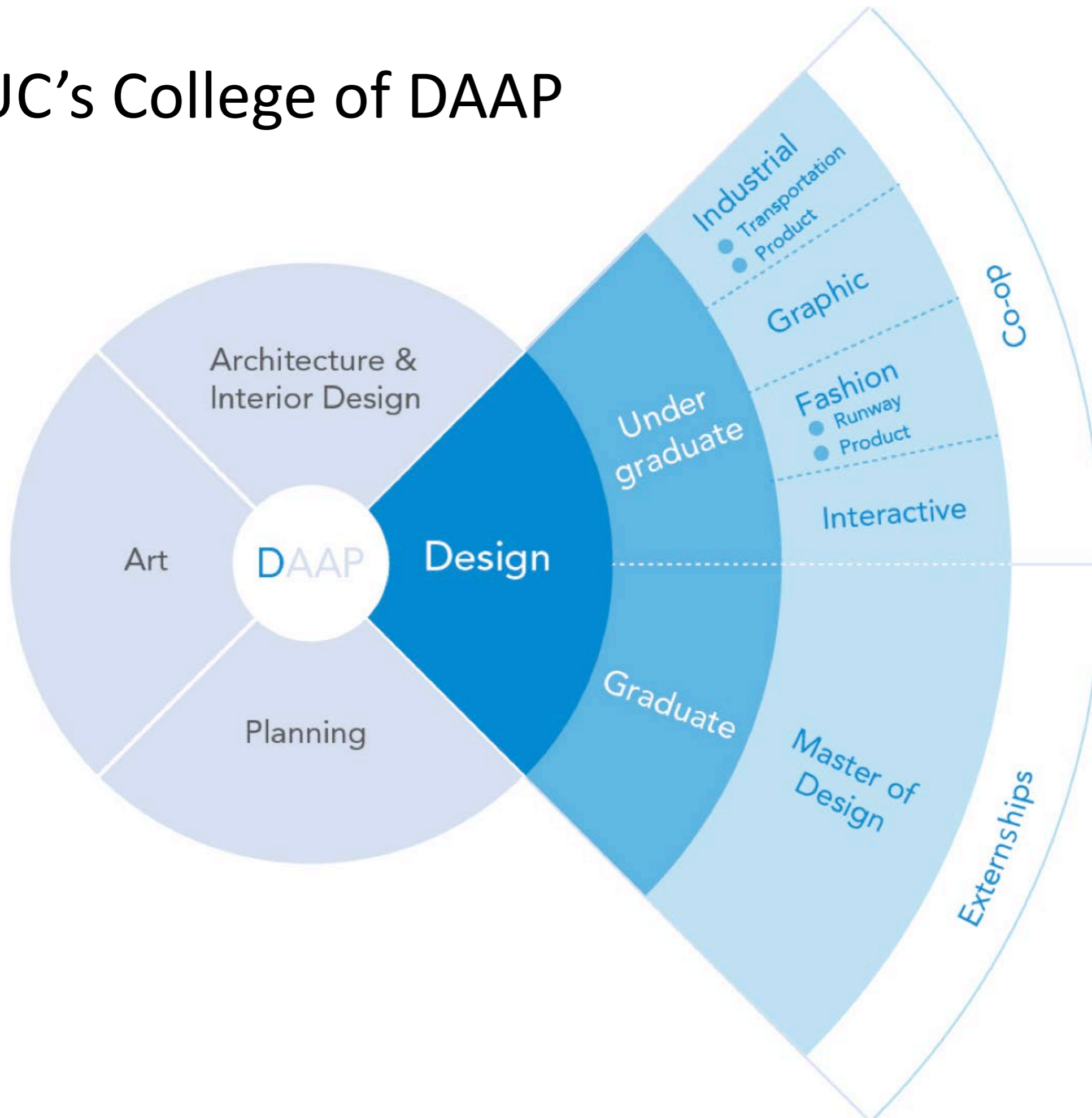
Interdisciplinary Team

Collaboration between multi disciplinary faculty and student teams generates new knowledge **faster and more efficiently.**



*Colleges/Schools/Departments ranked Top 25

UC's College of DAAP



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Breakthrough innovation across the lifespan

Located in Cincinnati, Ohio, Live Well Collaborative works with industry leaders and University of Cincinnati students and faculty to form multidisciplinary design project teams. Over the semester, the project team uses a design thinking process that involves

[Learn More](#)



MODULE 1

Design Thinking Education for Healthcare

Translating Information into Ideas,
Concept, and Solutions

SECTION 01

INTRO TO DESIGN THINKING

Design is the process of translating existing situations into preferred ones.

- **Definition of Design**
- **Levels of Design Thinking**
- **Our Studio Process Model**

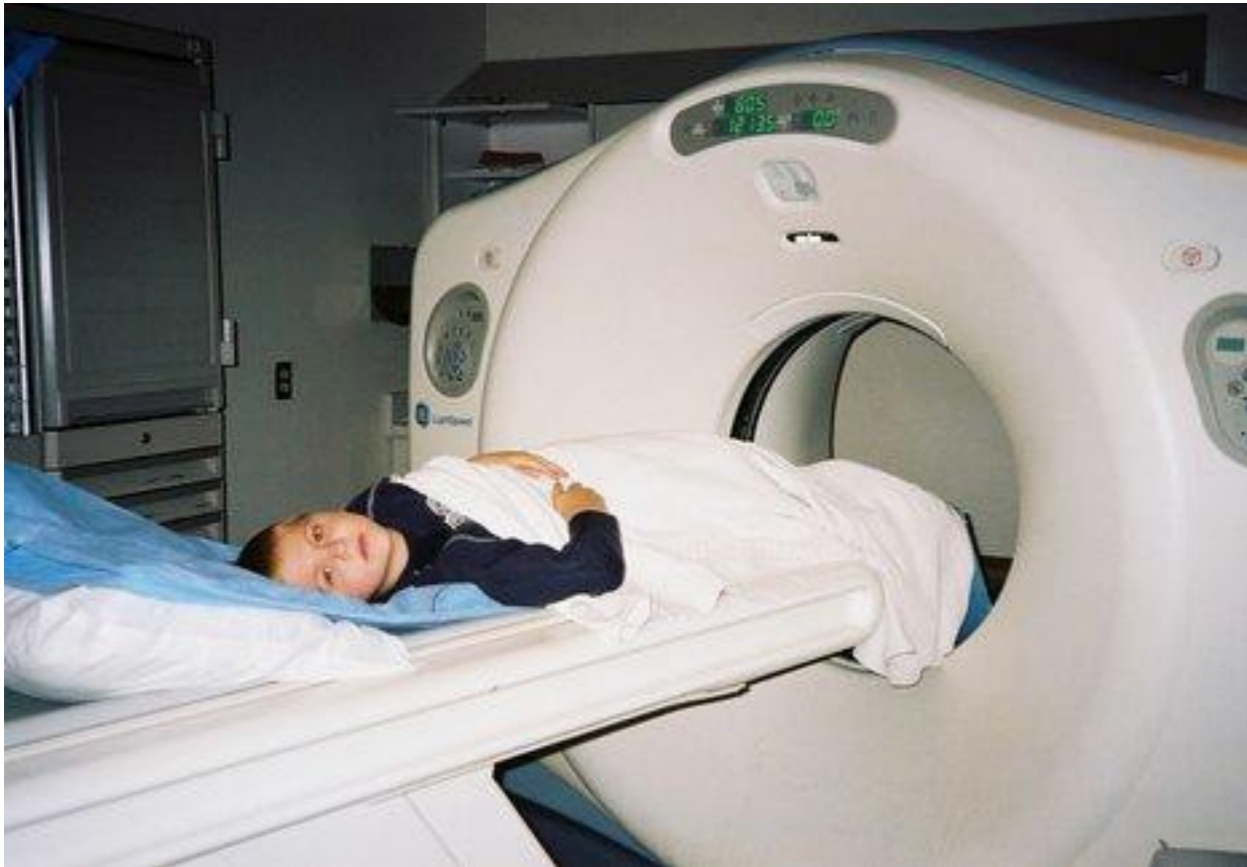
— DEFINITION OF —
**DESIGN
THINKING**

- 1 The appropriate blend of qualitative and quantitative thinking with the goal to produce positive change that responds to the needs of consumers.
- 2 Produces comprehensive visualizations of future alternatives allowing for interaction and feedback from stakeholders early in the process.
- 3 Reduces the potential for unintended consequences.

We ask what can we do to change things? That question leads us to ***design which is the act of changing existing situations into preferred ones.***

- 4 Helps institutions and culture evolve thoughtfully blending continuity and change.
- 5 Produces profit for organizations that invest in its use by developing more efficient processes and improved communication between stakeholders.
- 6 It is inherently interdisciplinary.

Translating an existing situation....



Looking at the World Through Kids' Eyes

GE Healthcare

Understanding Kids' Anxiety Points During MRI



Going Beyond Shallow Decorations

GE Healthcare

Learning from different experiments that had been done for enhancement of kids imaging and taking it one step further:



Creating Mentors to Help Kids Accomplish Their Mission

These characters accompany kids prior, during and post imaging process and build an emotional connection with them.

Adventure Series™



GE Healthcare recognized there had to be a better way to approach children's imaging. Their global design team began to imagine a scan procedure with less anxiety and fear. Through collaboration with Child Life Specialists from leading children's hospitals, the Betty Brinn Children's Museum and award-winning design firms, they worked to develop a pediatric imaging solution that helps improve the patient's, family's, and hospital staff's scan experience.

© General Electric Company
2014



Creating an Entire Story Around the Process

Creating 8 different room themes appealing to kids and involving all their senses.



Transforming the Experience into an Exciting Adventure

Acknowledging patients' needs beyond medicine and addressing their needs as individuals.

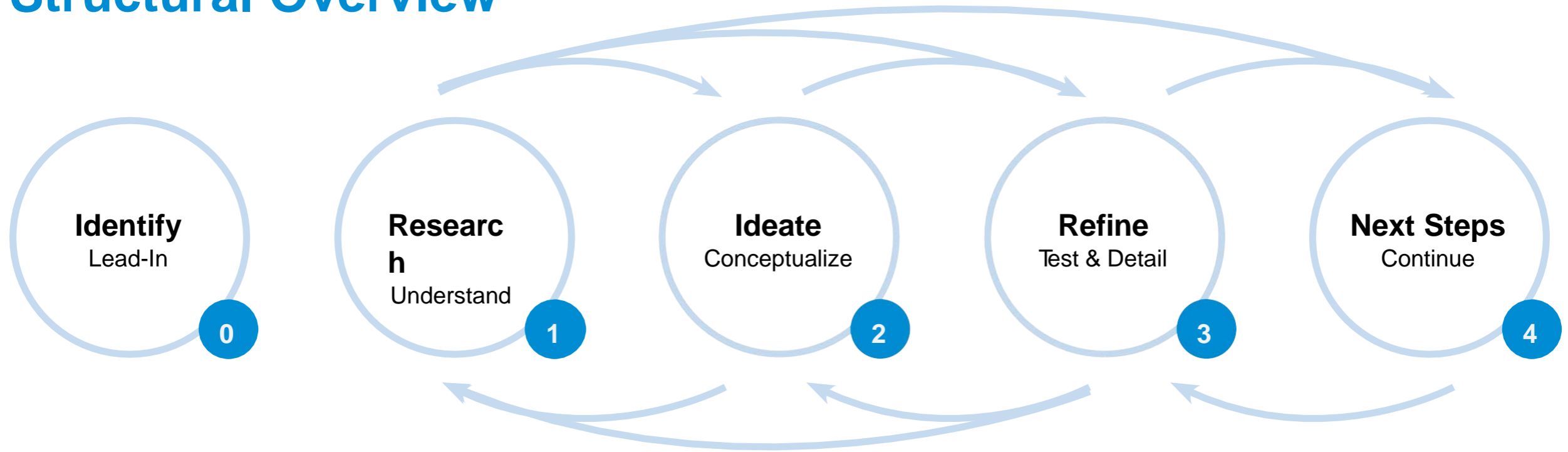
...into a preferred solution.



Our Process Model

Live Well Collaborative Design Studio Process Model

Structural Overview

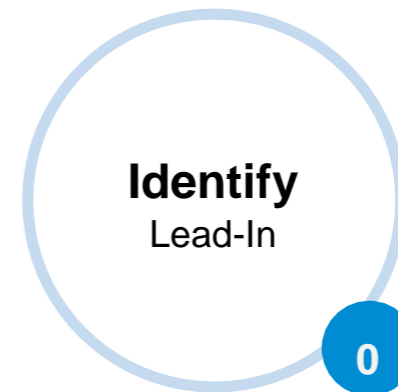
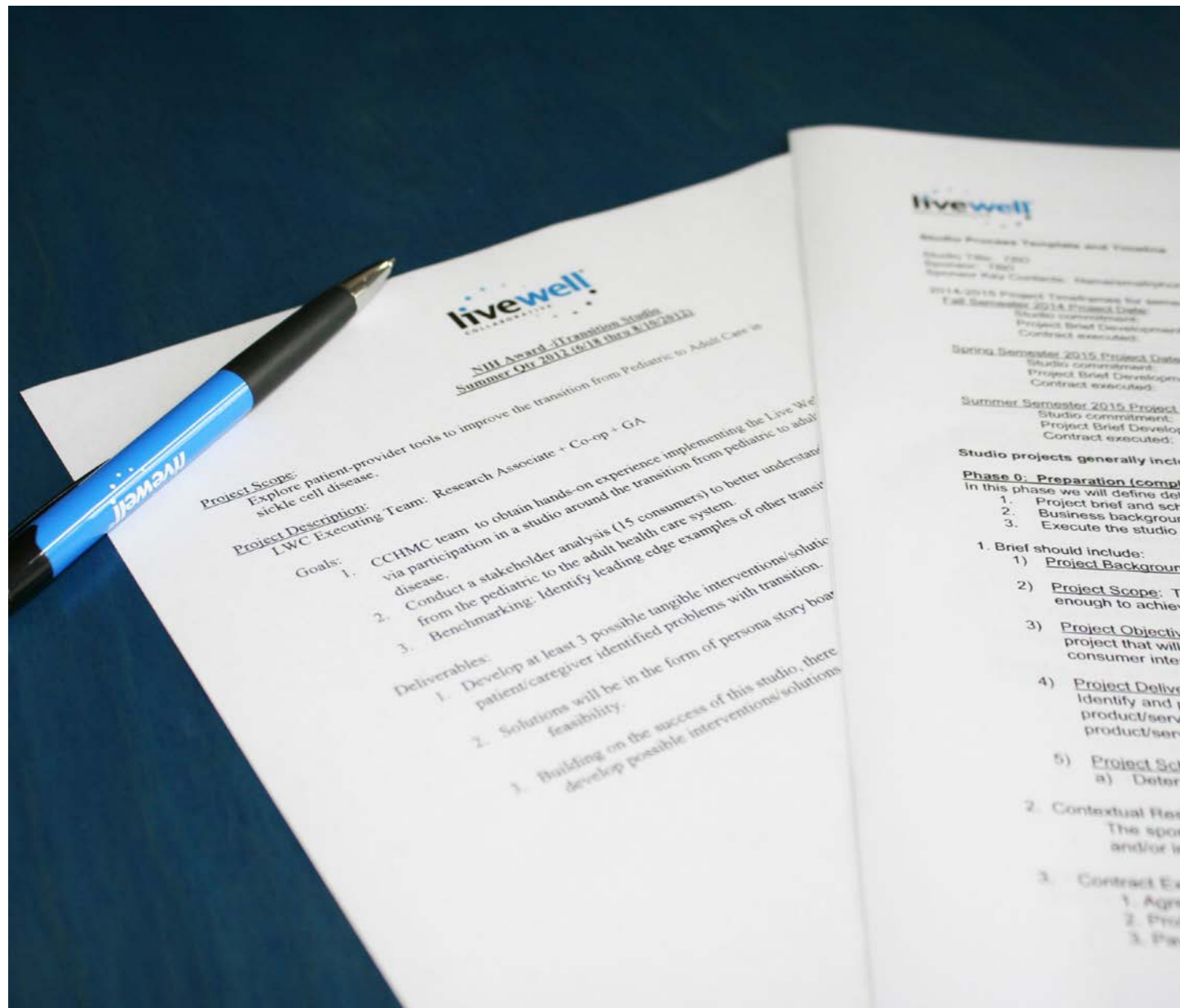
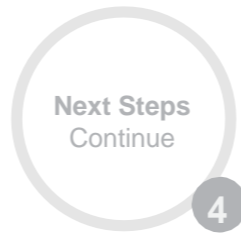
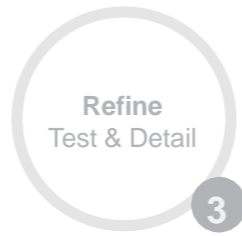
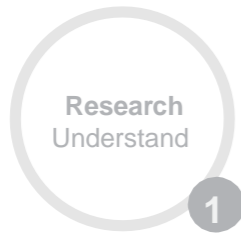


Phase 0
Before the project
 During the planning stage of a project, the principle investigator identifies the problem space and collaborates with the LWC on the project brief.

Phases 123
During the 15 week Semester
 The research team focuses on obtaining knowledge about the topic, translates insights into concept ideas and tests and refines concepts to meet the needs of the healthcare sponsor.



Phase 4
After the Project
 Possible future opportunities regarding the project results for the member and LWC. This should also be discussed in Phase 0.



- Agree on project scope, objectives, and deliverables.
- Establish a multi-disciplinary working team, from both the healthcare sponsor and faculty/student resources from the University of Cincinnati
- Identify who the target consumer is, how they will be selected and involved in the process.
- Decide on project schedule and identify key interaction dates.

Project brief from iTransition Sickle Cell Studio - Summer 2012.

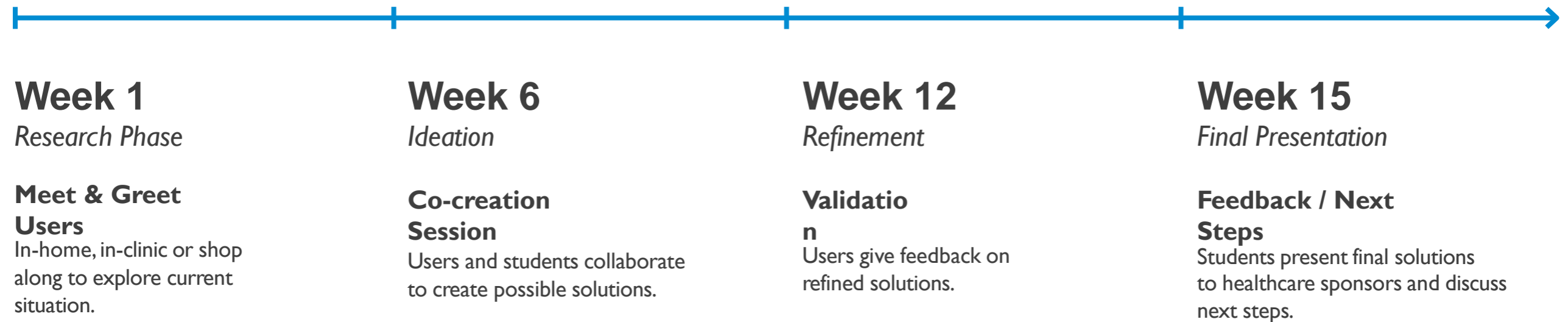


Research Understand

- Review the history of the issue.
- Identify any existing obstacles.
- Collect examples of other attempts to solve the same issue (benchmark).
- Talk to your end-users, gather end user insights.
- Take into account thought leaders' opinions (sponsors, experts).

Student taking notes during an in-clinic interview at Cincinnati Children's Hospital.

User Interactions & Interviews



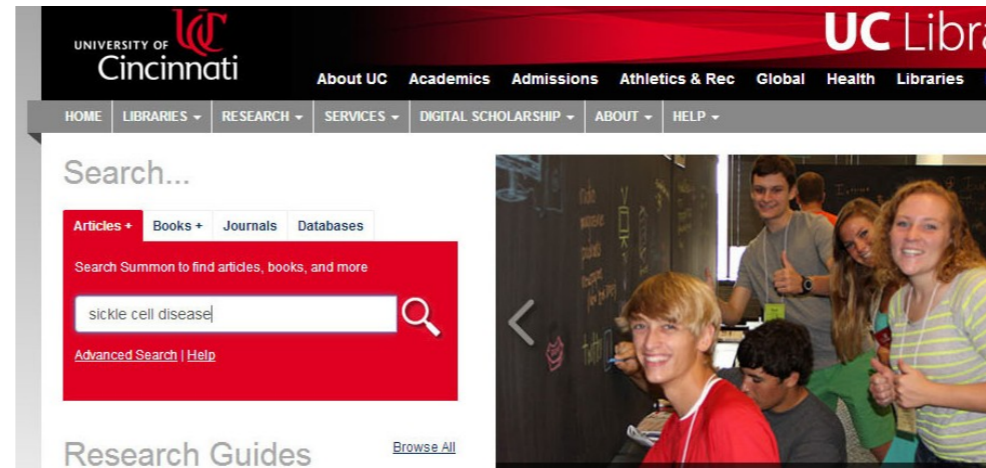
Main Types of Research



Primary

Primary research consists of a collection of original primary data collected by the researcher. At the Live Well our primary research typically includes:

- meeting with healthcare professionals
- patient interviews
- clinical visits
- initial & final concept feedback sessions



Secondary

Secondary research involves the summary, collation and/or synthesis of existing research. It is required in the preliminary stages of research to determine what is known already and what new data is required, or to inform research design.

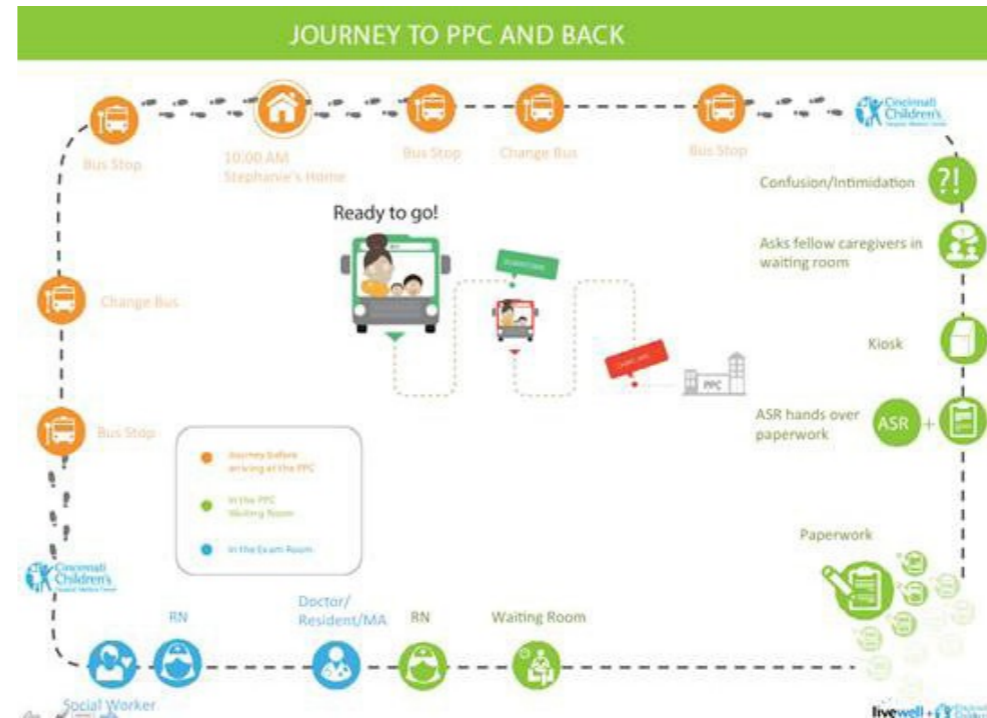
Research Methods



Observational

Primary Research

Observational research (or field research) is a social research technique that involves the direct observation of phenomena in their natural setting.

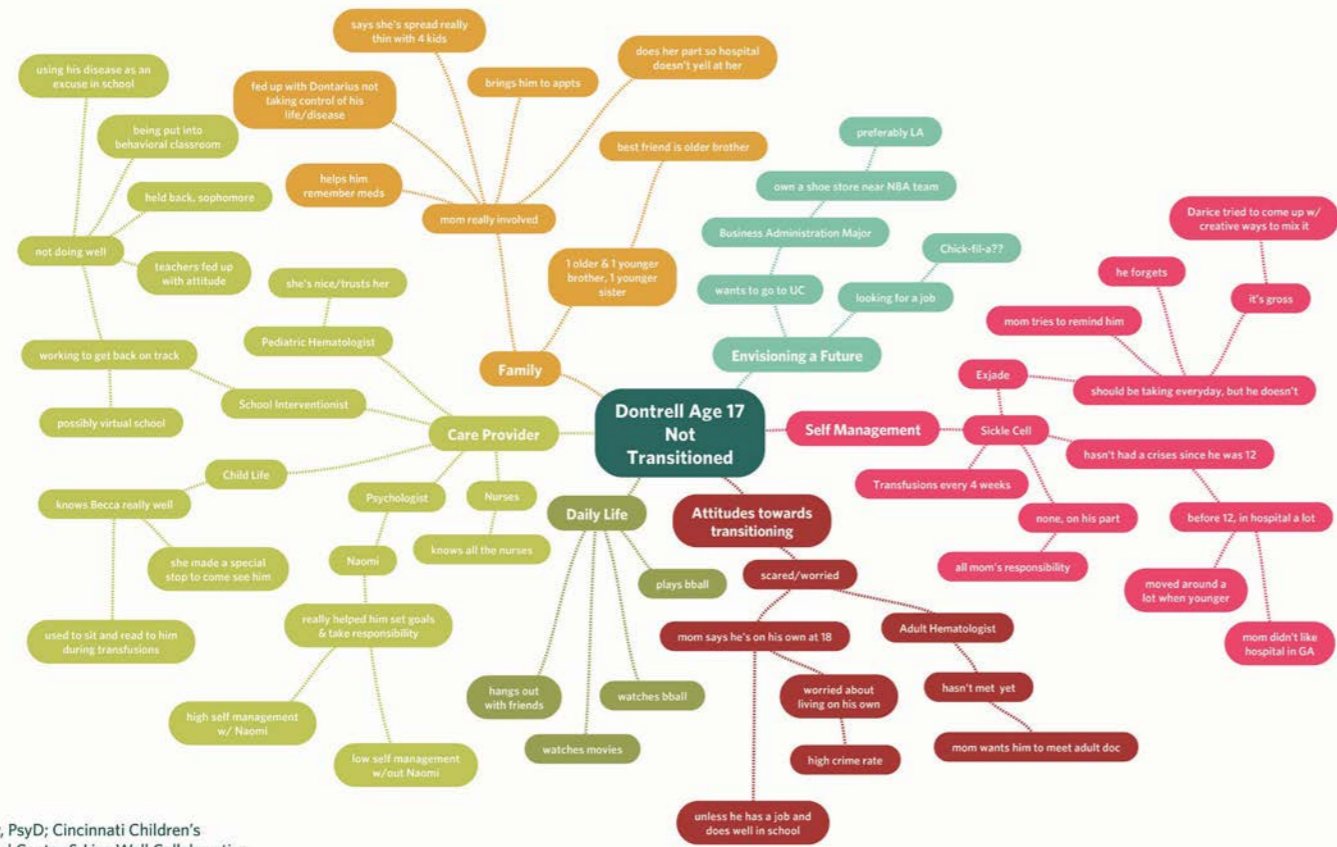


Personas & Journey Maps

Secondary Research

Personas are designed as representations of your key audience and are based on interviews and observations with patients. Personas help stakeholders understand the needs, values, behaviors, and expectations of their patients.

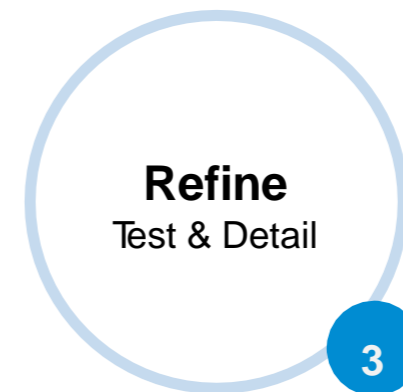
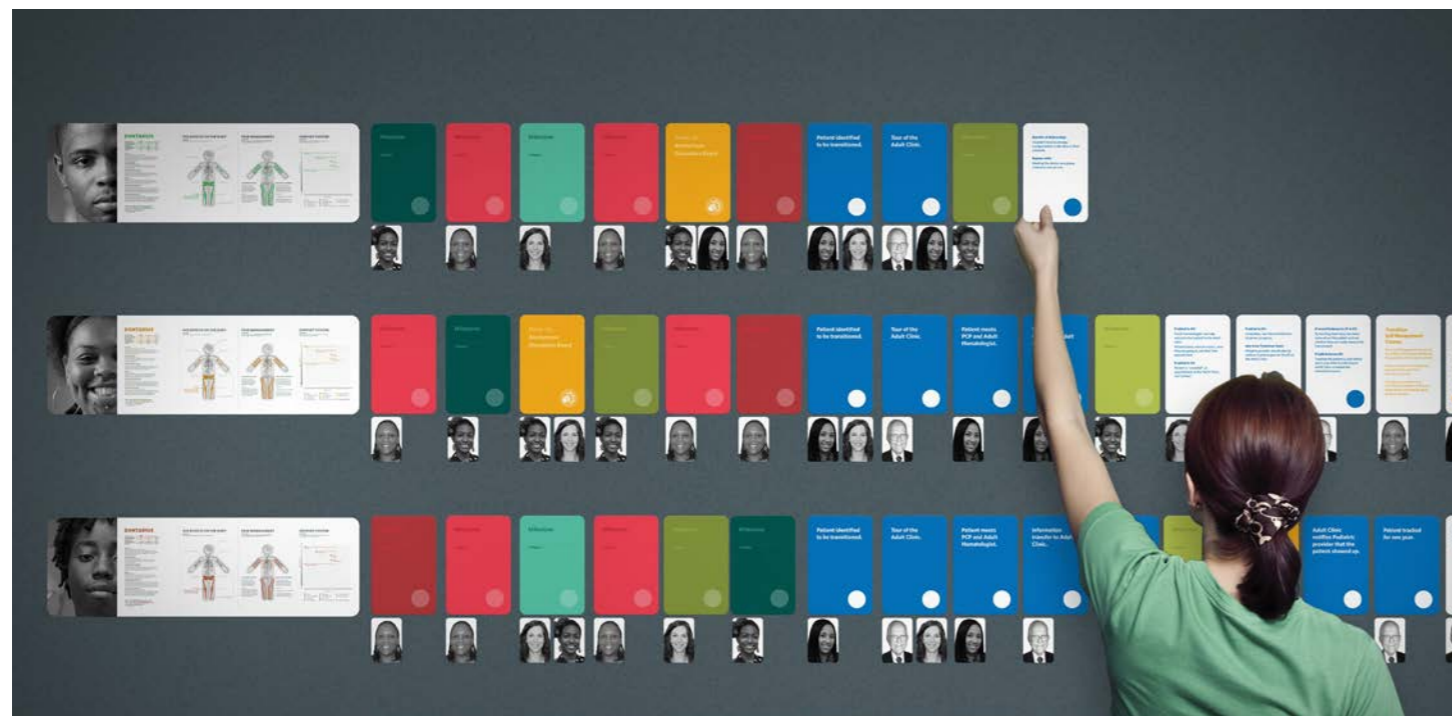
Journey maps also help stakeholders visualize patients experiences and recognize problem areas during their in-clinic and out-of-clinic experiences.



E. Crosby, PsyD; Cincinnati Children's Hospital Medical Center & Live Well Collaborative

- Identify the needs of your end-users.
- Generate ideas to serve these identified needs.
- Record all ideas from your ideation sessions.
- Do not judge or debate ideas.
- Talk one at a time during brainstorming.
- Translate insights from research into visualizations.
- Incorporate feedback from thought leaders' opinions.

Information from patients interviews are recorded and mapped into visualizations for CCHMC staff.
iTransition Sickle Cell Studio - Summer 2012



- Combine, expand, and refine ideas.
- Create multiple drafts.
- Seek feedback from a diverse group of people.
- Gather feedback from end users.
- Create and present actual working prototype(s).
- Present a selection of ideas to the healthcare sponsor.



Final outcomes from iTransition Sickle Cell Studio - Summer 2012.
 See pg. 27 case study for more information on this project.



- Assess if results have met deliverables.
- Discuss what could be improved.
- Measure success; collect data.
- Document and archive the process.
- Determine next steps.

LVC design team presents and receives feedback from the CCHMC project team during the final presentation from iTransition Sickle Cell Studio - Summer 2013.



Keys to
studio
process
success

- Collaboration + Immersion with project sponsor team
- User focused
- Design lead
- Multi-disciplinary team

CCHMC Key Advisors:



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Professor, UC Department of Pediatrics
Live Well Collaborative, Project Principle Investigator

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Co-Director, Center for Clinical and Translational Science and Training
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