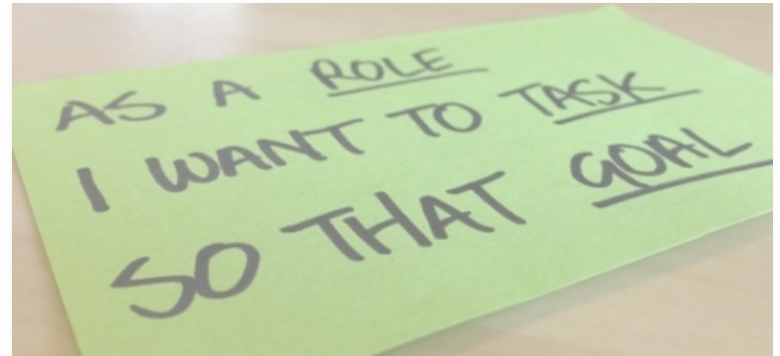


FROM THEORY TO PRACTICE

UCD AND AGILE

DEFINITIONS

- ▶ User-centered Design
 - ▶ a framework of processes
 - ▶ encourages extensive user-research and analysis prior to development
 - ▶ e.g. user stories, prototypes
- ▶ Agile programming
 - ▶ deliver small sets of software features to customers
 - ▶ quickly and with short iterations
 - ▶ e.g. Scrum, eXtreme



Scrum Task Board Template

Company name

Stories	To Do	In Progress	Testing	Done
<div>This is a sample text. Replace it with your own text.</div>	<div>This is a sample text. Replace it with your own text.</div> <div>This is a sample text. Replace it with your own text.</div>	<div>This is a sample text.</div> <div>This is a sample text.</div>	<div>This is a sample text.</div> <div>This is a sample text.</div>	<div>This is a sample text. Replace it with your own text.</div> <div>This is a sample text. Replace it with your own text.</div>
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OVERVIEW

- ▶ User-centered Design (UCD) and Agile Project Management are perceived to be counterintuitive
- ▶ There are models in the literature for integrating the two
- ▶ da Silva et al developed a modified framework and...
 - ▶ applied it to an SE shop
 - ▶ discussed results

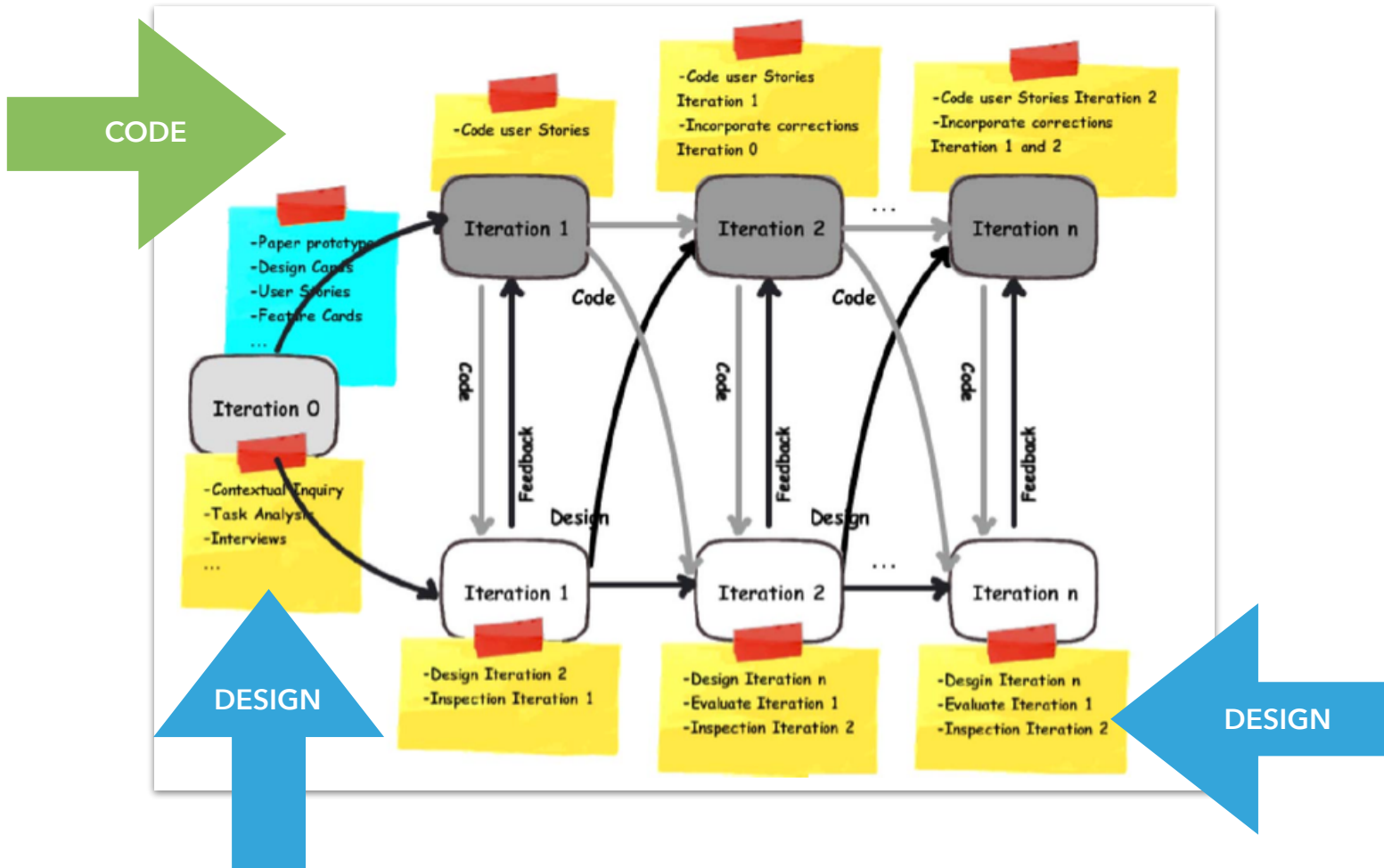
UCD STRATEGIES AND TOOLS

- ▶ Subset of socio-technical systems design (STSD)
- ▶ Interdisciplinary
- ▶ Learning and change management
- ▶ Multiple levels
- ▶ Discount usability
- ▶ Prototyping, contextual analysis/inquiry,

TEXT

AGILE STRATEGIES AND TOOLS

- ▶ Scrum
- ▶ eXtreme Programming
- ▶ Rational Unified Framework



CASE

- ▶ “World leading tech company” that manufactures collaboration products
 - ▶ PM, PO, Tech lead, Developer*2, Tester*2
 - ▶ 2 projects, 3 iterations (2 wks)

MODIFIED FRAMEWORK

- ▶ Little Design Up Front (LDUF)
- ▶ Prototyping
- ▶ User Testing
- ▶ User Stories
- ▶ Usability Inspection
- ▶ One Sprint Ahead
- ▶ Close Collaboration
- ▶ Big Picture

SUMMARY

- ▶ User-centered Design (UCD) and Agile Project Management are sometimes counterintuitive (more below)
- ▶ There are frameworks in the literature (need validation!)
- ▶ da Silva et al developed a modified framework and...
 - ▶ applied it to an SE shop (generalizable?)
 - ▶ discussed results
 1. Design/Dev collaboration is key!
 2. Design needs time to work up front.