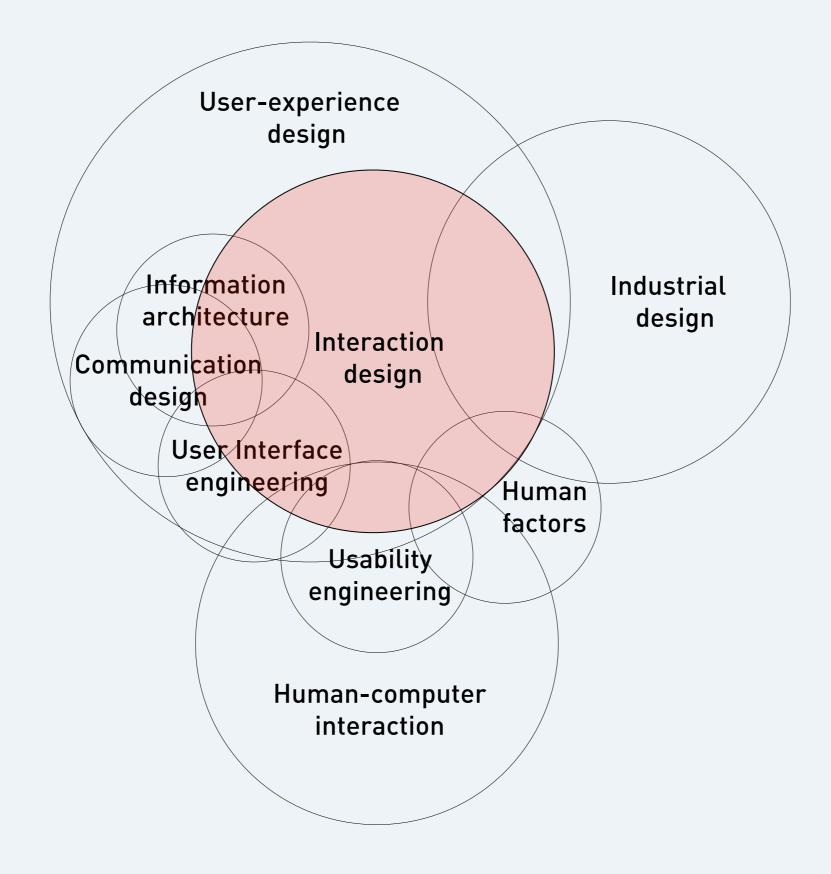
Welcome! Designworkshop II

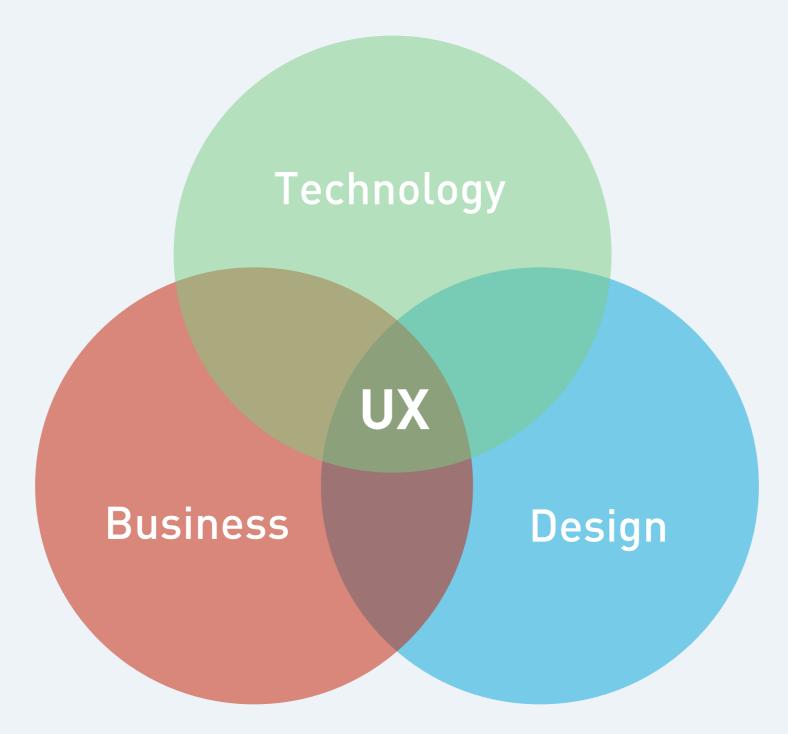


What are we doing here ?



source: [11]

User Experience Design



©Peter Morville http://semanticstudios.com

User Experience Design



©Peter Morville <u>http://semanticstudios.com</u>

Getting the right Design and the Design right...

Bill Buxton - Sketching User Experiences

source: [1]



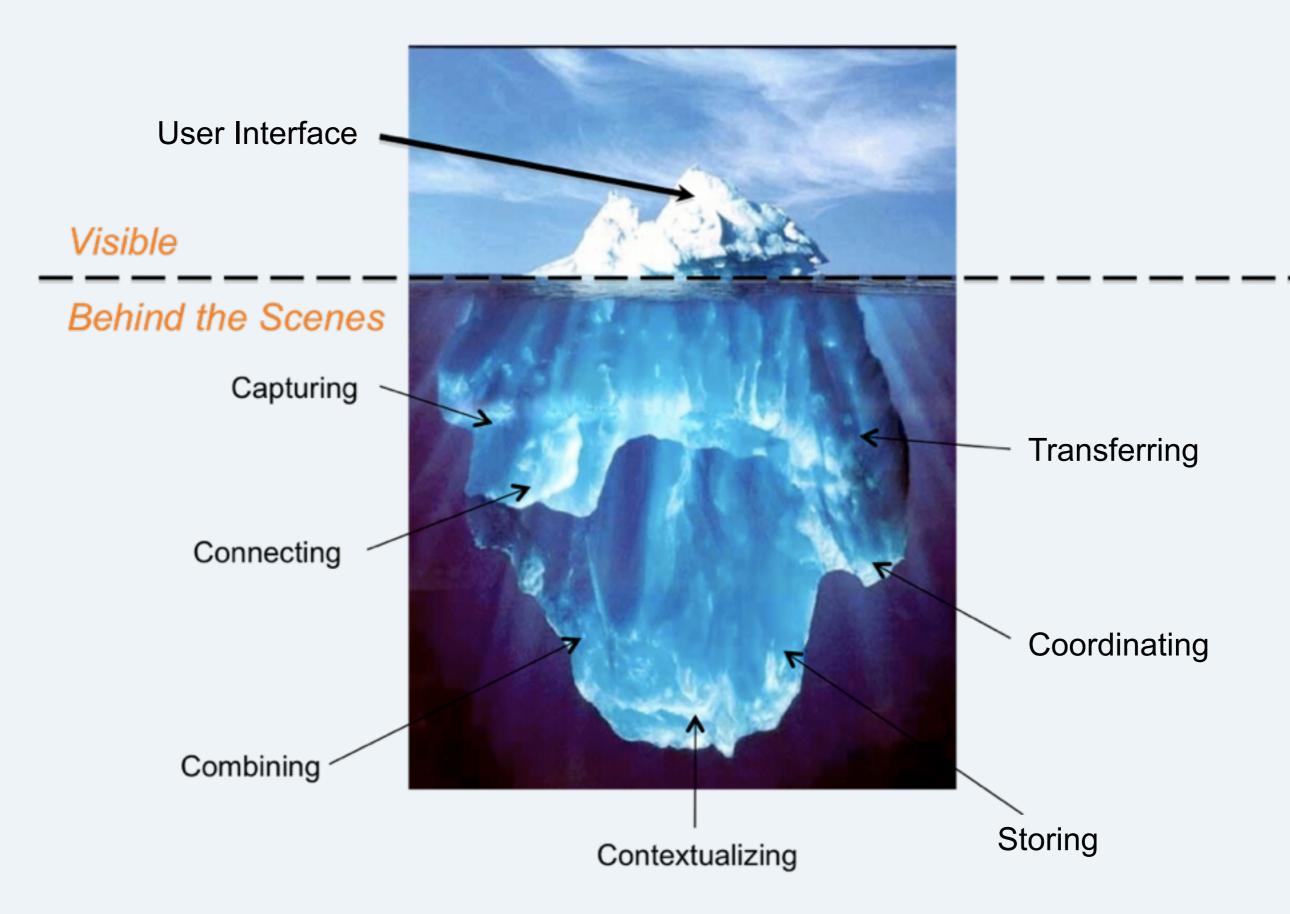
Front Stage

http://www.markabull.com/wp-content/uploads/2011/01/stage.jpg

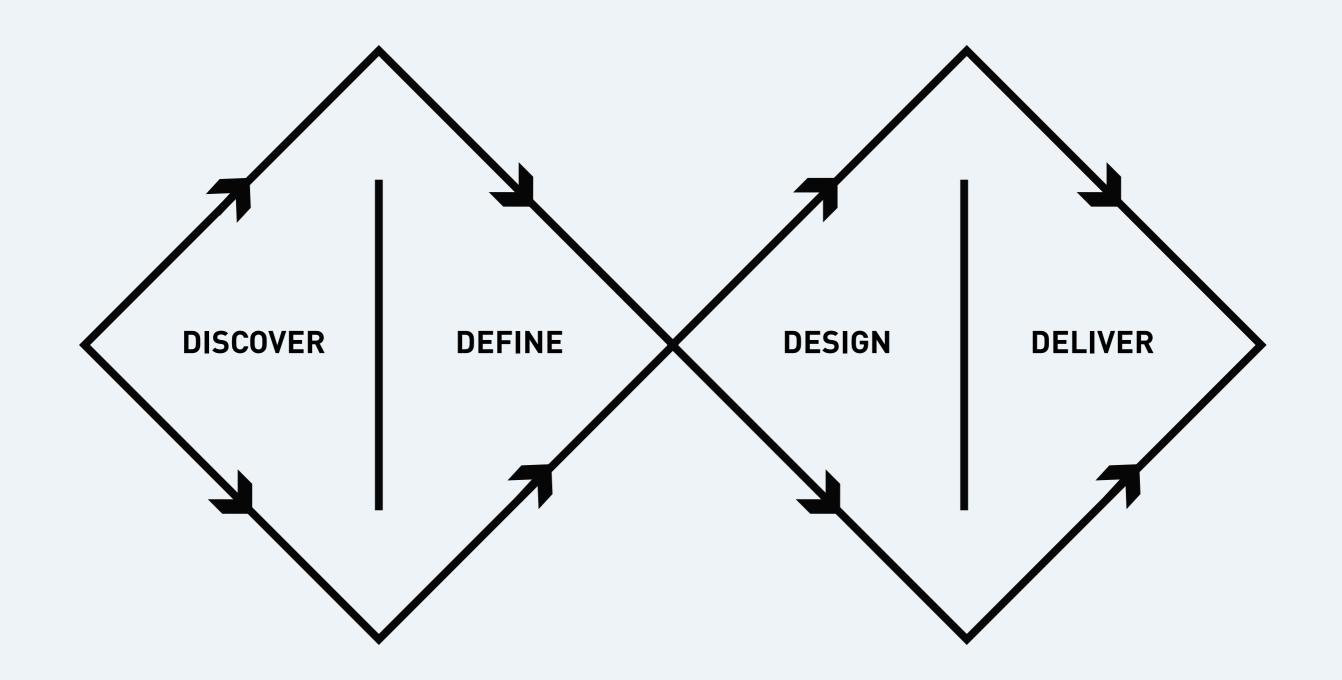


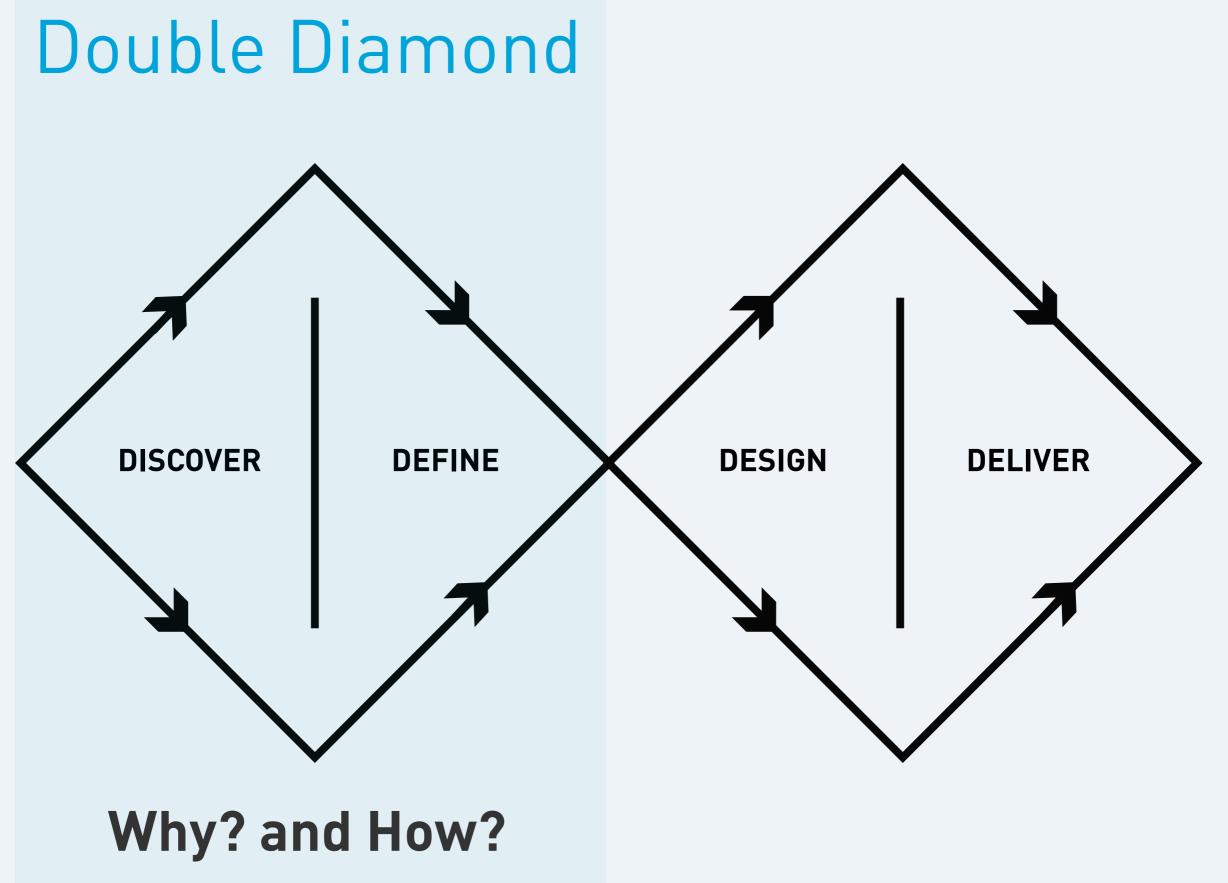
Back Stage

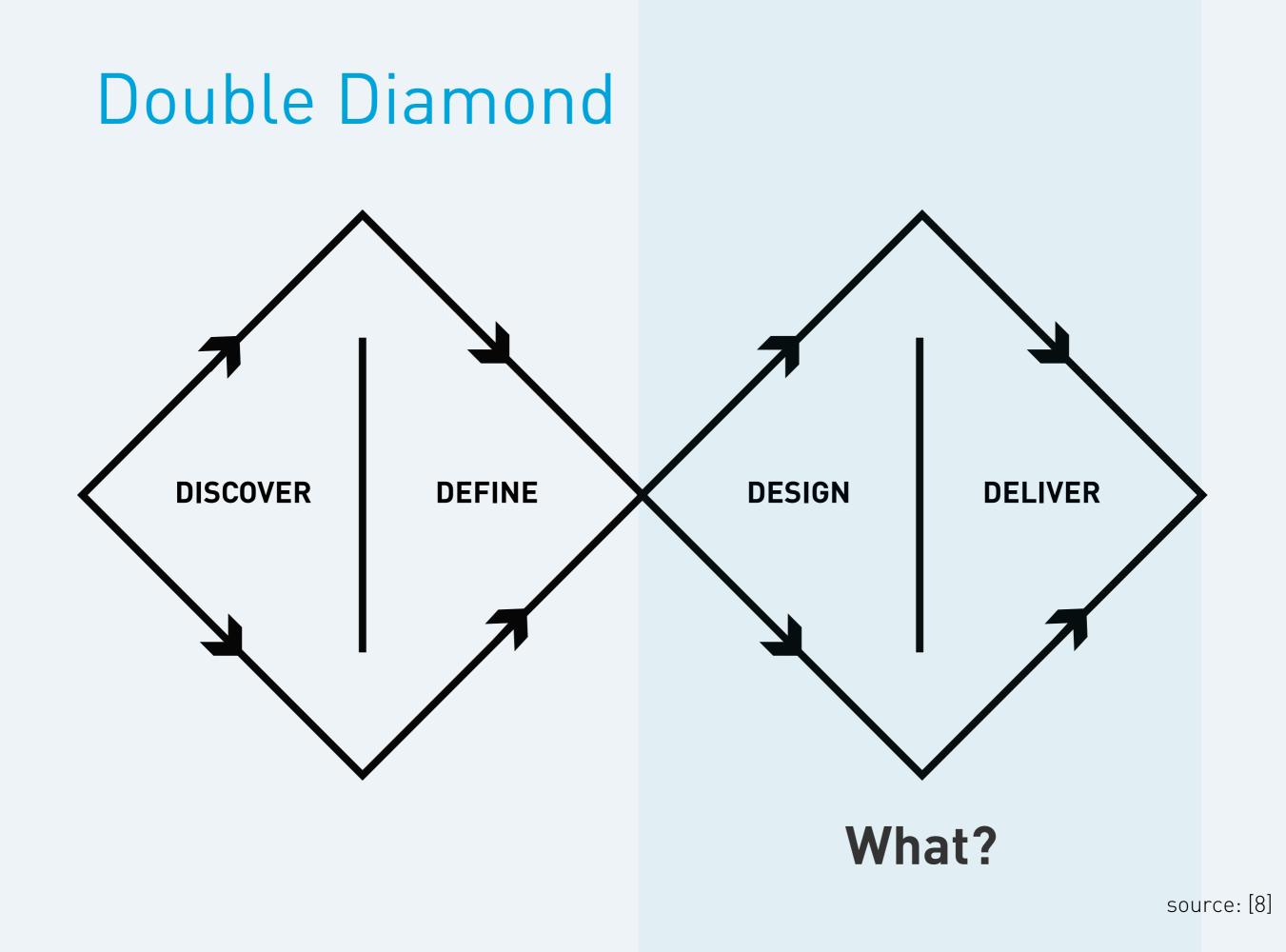
http://blog.entrepreneurthearts.com/etablog/wp-content/uploads/2010/08/backstage.jpg

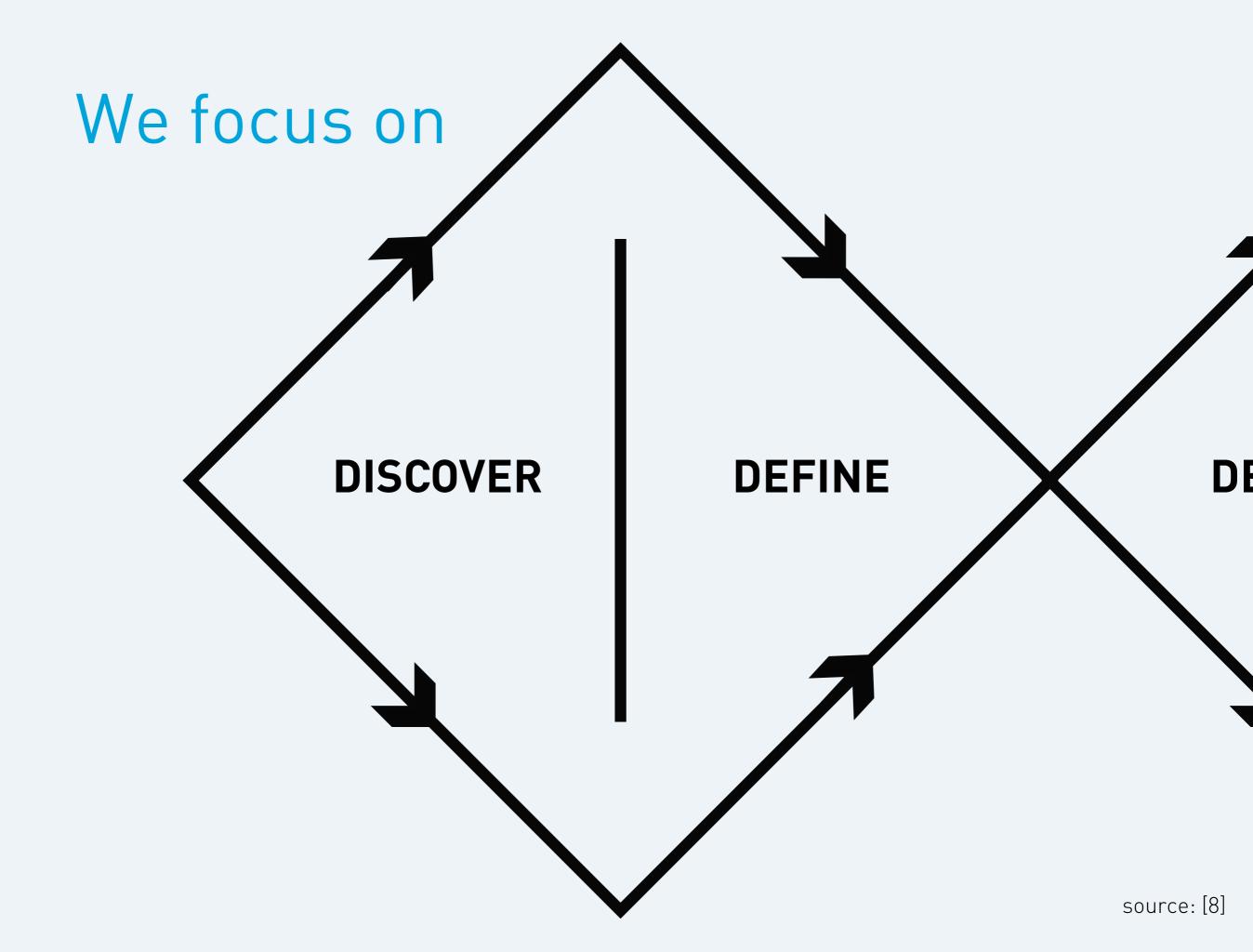


Double Diamond









Overview

DISCOVER

DEFINE

Research

Innovate

Prototype

DE

Overview

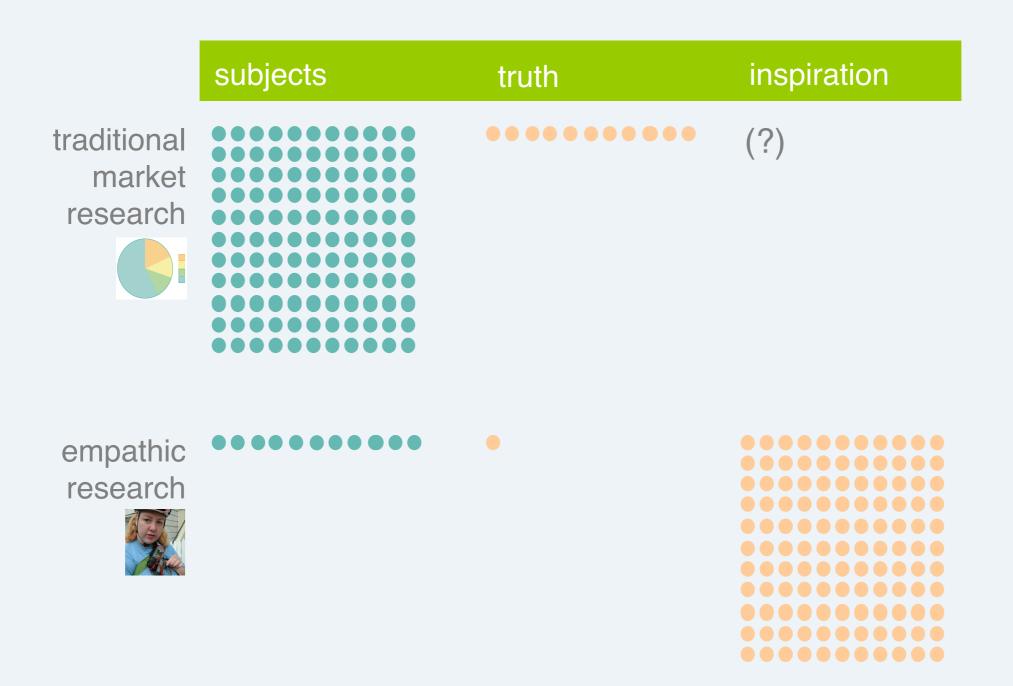
Get to know your problem/ subject Gather insights about the user and their life Collect artefacts & impressions **Record tasks**

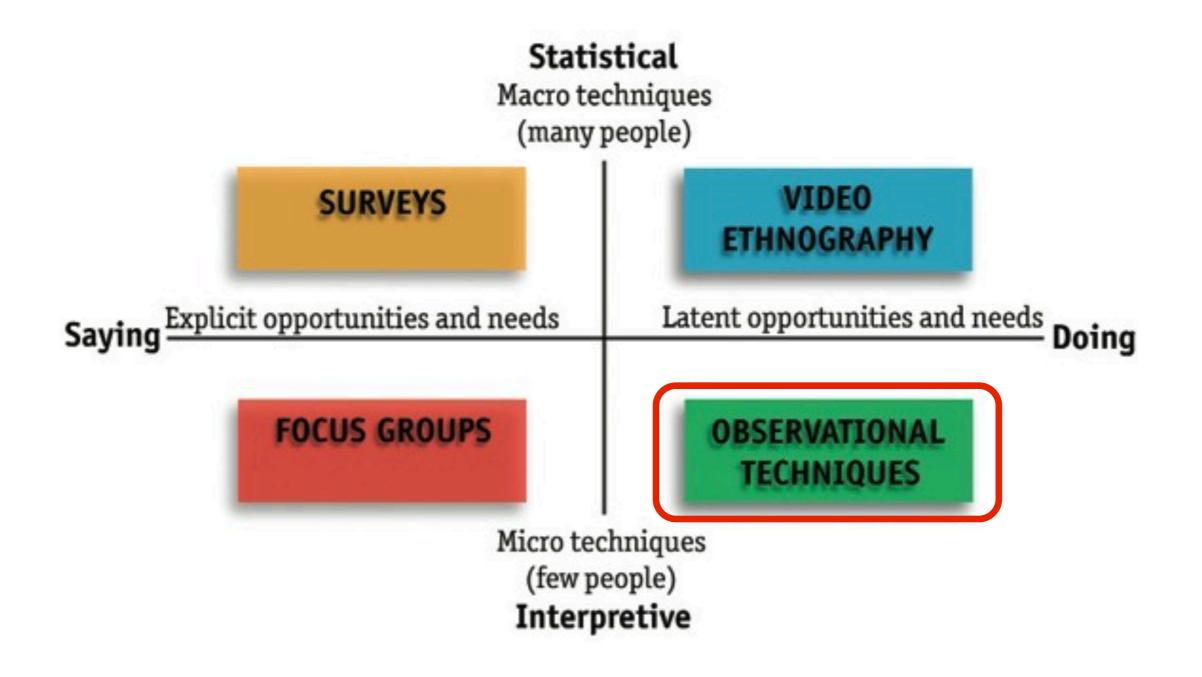
Research

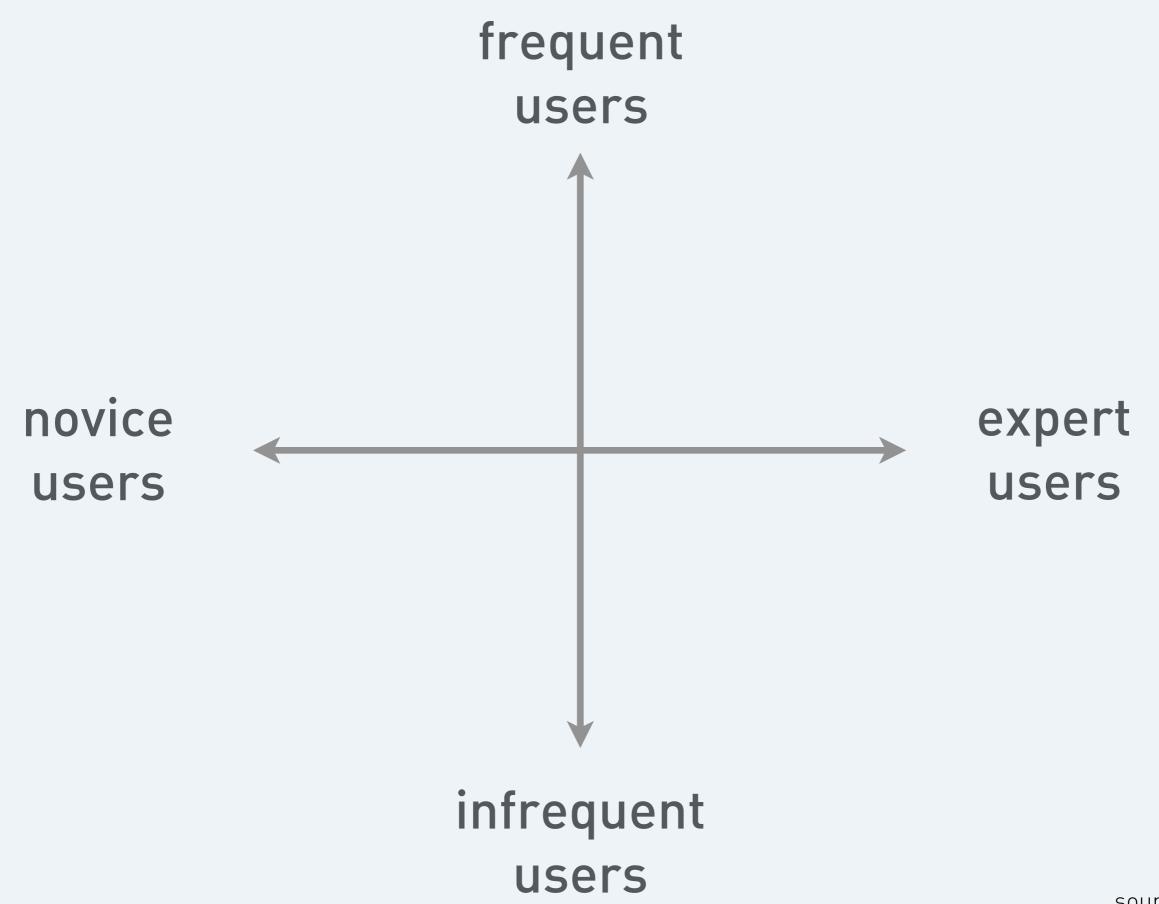
DISCO

In design research we are driven by a need for a deeper understanding

Susan Dray - Dray & Associates, Inc., USA







source: [2,4]



Audi A4 Series Cockpit

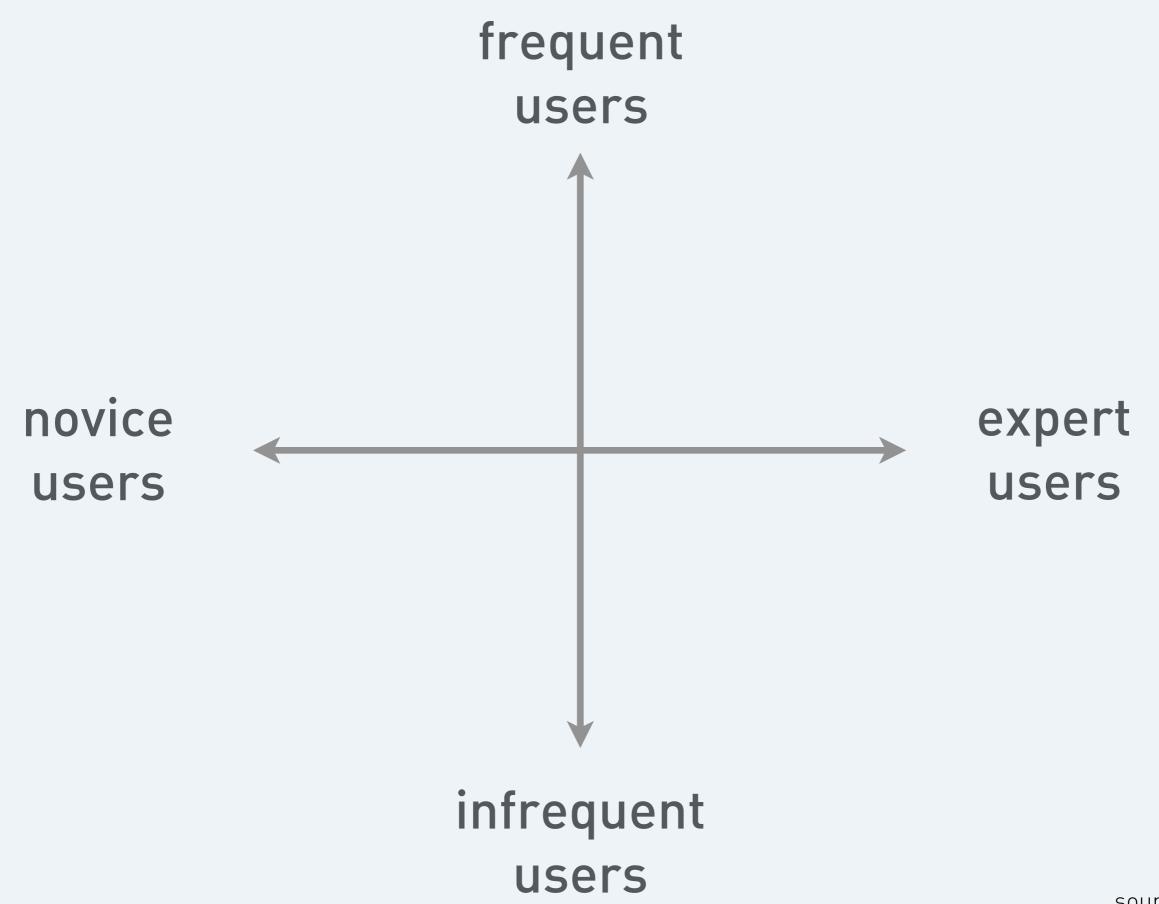
http://www.audicomparisons.com/wp-content/uploads/2013/10/2014-Audi-A4-interior.jpg



Cu

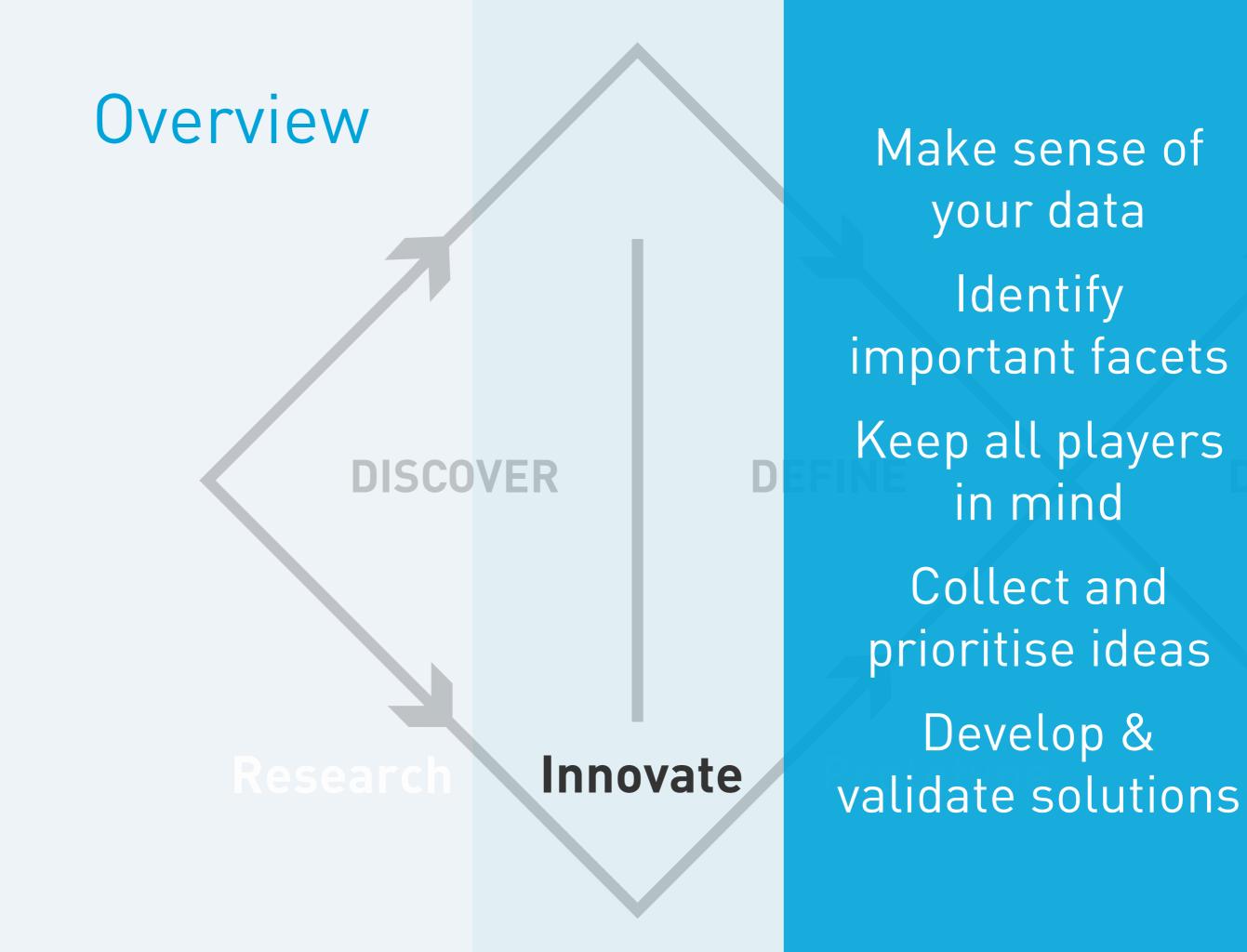
Audi R15 Racing Cockpit

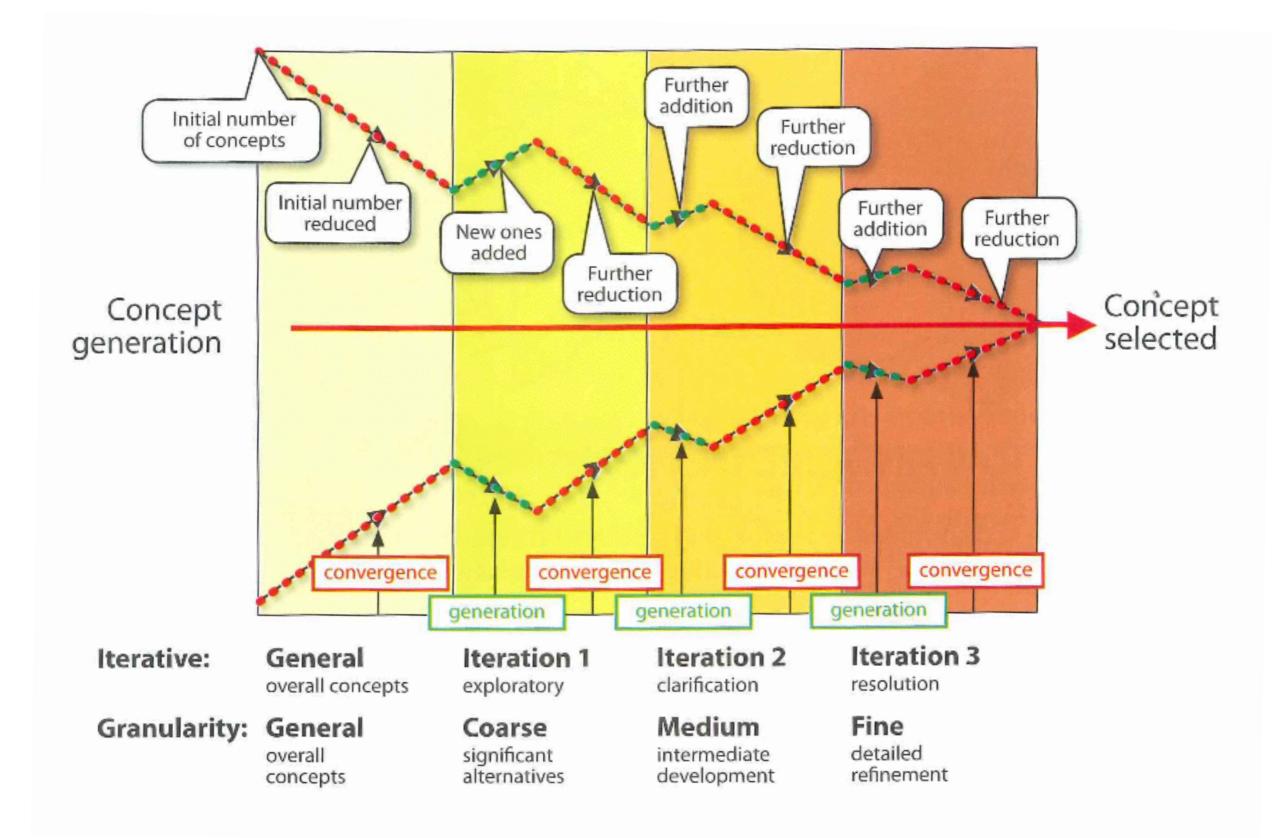
http://2.bp.blogspot.com/_SM9A_sqVGgM/S9XON6I_Wtl/AAAAAAAADww/HcrQgfpuHgI/s1600/Audi+R15+Plus+Cockpit.jpg

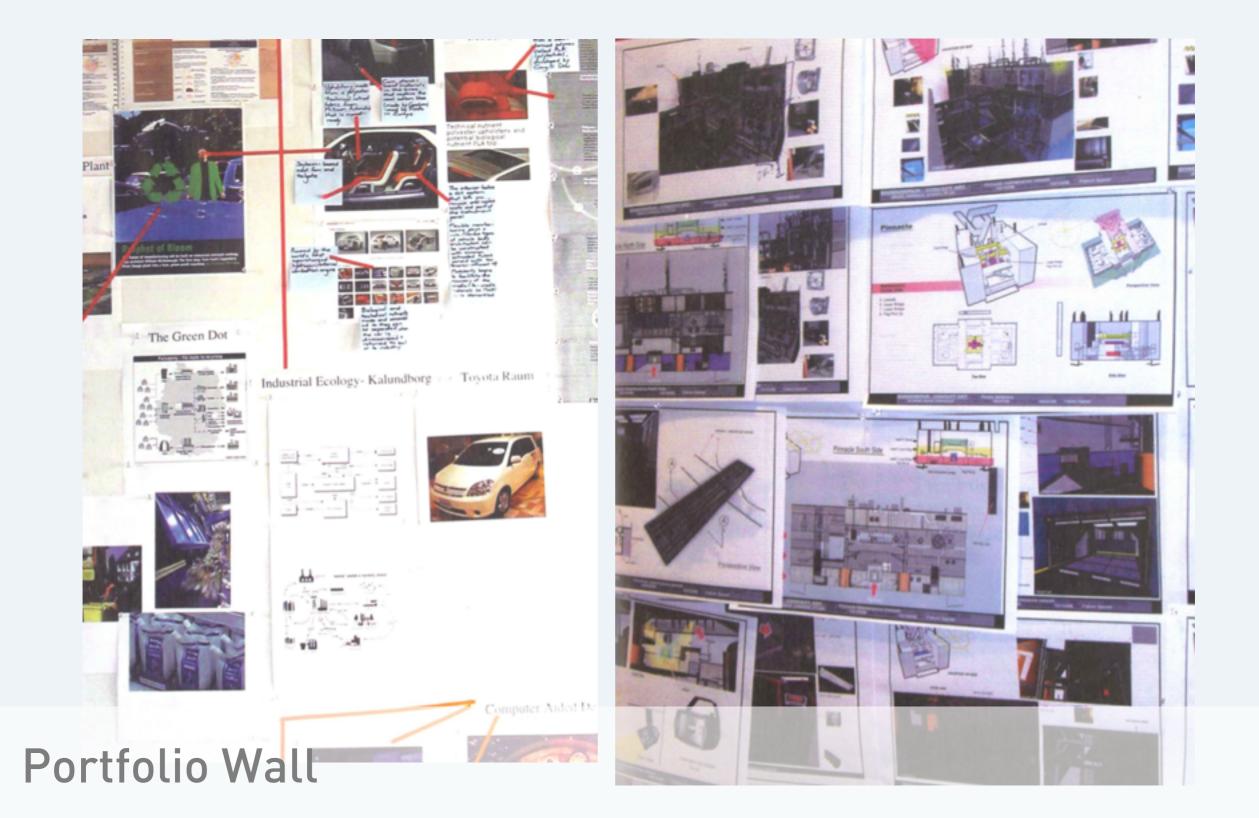


source: [2,4]

Different, usage contexts, user types and usage frequency will require dedicated solutions.

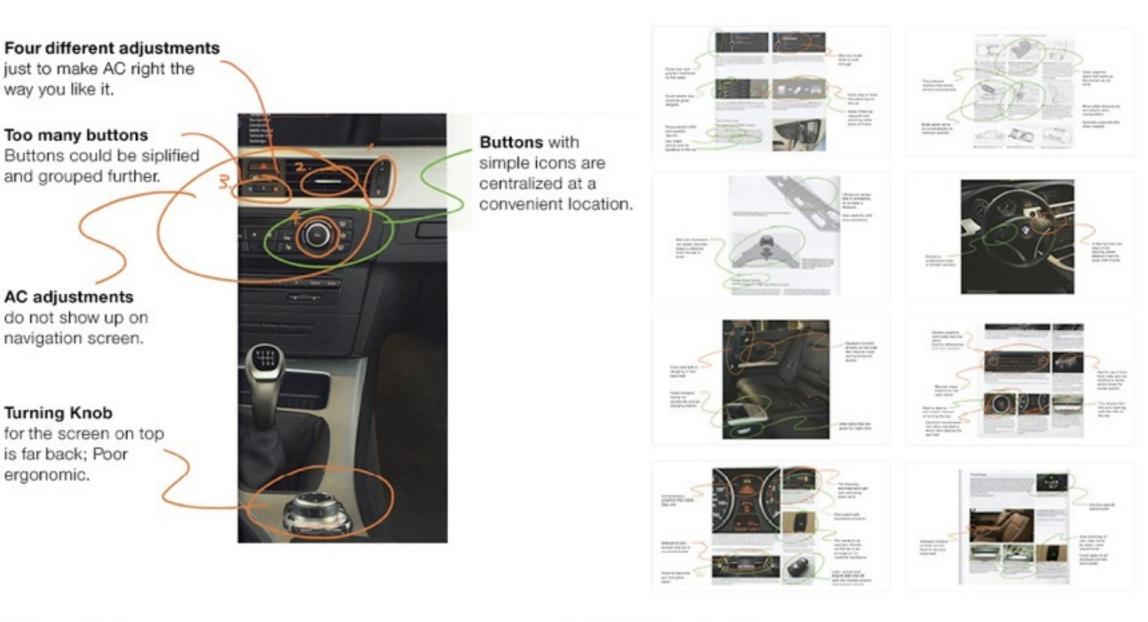








Competitive Analysis/Current Interface



What is working?

- Screen does not need to be at the same place as control.
- Tactile feel of button/Button grouping

- Use of color, materials, textures, and lights can improve

information heirarchy.

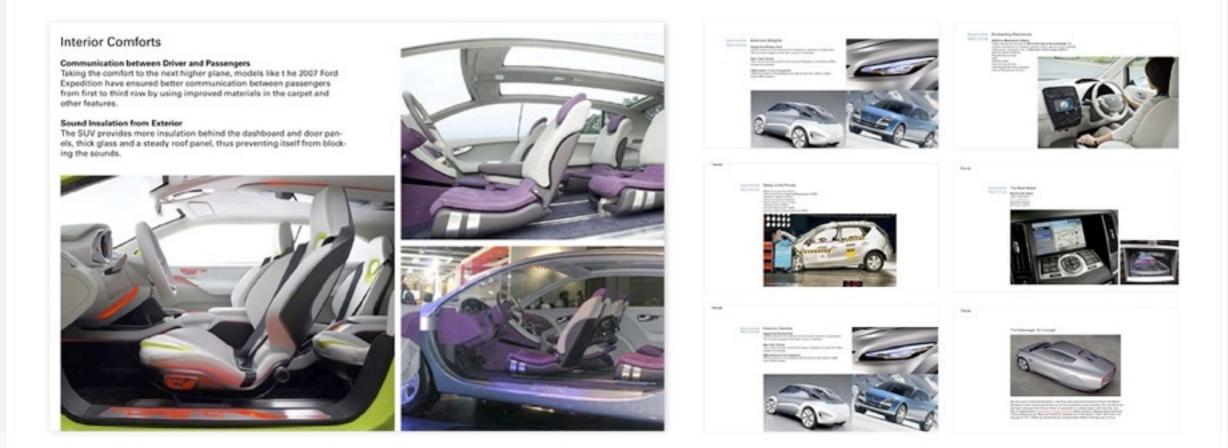
What is NOTworking?

- Appropriate position for frequently used buttons is important.
- Too many buttons are intimidating.
- Buttons are scattered and not intuitive position.
- Touchscreen requires too much attention.
- Buttons rely on small icons/text which is hard to read.

Competitive Analysis/CarTrends

Trends Insight

- More wireless connectivity to information and to others.
- More seamless integration between digital and physical world.
- Devices are more content driven and user centric.
- Better customization capabilities and mobile computing is more prevalaent.



Competitive Analysis

Literaturrecherche

Google / Google Scholar http://scholar.google.de ACM Digital Library http://portal.acm.org/dl.cfm -> BibTex, Referenzen, Verweise Citeseer http://citeseer.ist.psu.edu/cs IEEE Xplore http://ieeexplore.ieee.org/Xplore/guesthome.jsp

Literaturrecherche

Zugriff auf diverse Literaturdatenbanken (ACM, IEEE) über LRZ-VPN und –Proxy: http://www.lrz-muenchen.de/services/netzdienste/proxy/browser-config/ Zugriff auf das ACM Portal und IEEE über LRZ-Proxy: https://docweb.lrz-muenchen.de/cgi-bin/doc/nph-webdoc.cgi/000110A/http/ portal.acm.org/portal.cfm Zugriff auf Zeitschriften: http://docweb.lrz-muenchen.de/cgi-bin/doc/nph-webdoc.cgi/000110A/http/

Webrecherche

Techblogs: engadget.com ted.com

Zugriff auf Zeitschriften: http://docweb.lrz-muenchen.de/

Overview

Tell a story Make it tangible

DEFINE

Prototype

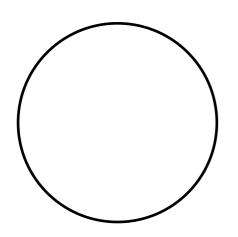
D

For the Designer:	Exploration Visualisation Feasibly Inspiration Collaboration
For the End User:	Effectiveness / Usefulness A change of viewpoint Usability Desirability
For the Producer:	Conviction Specification Benchmarking

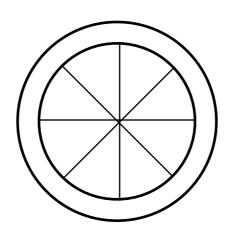
It's really hard to design products by focus groups. A lot of times, people don't know what they want until you show it to them.

Steve Jobs

Fidelity v. Resolution



low resolution low fidelity



high resolution low fidelity



high resolution high fidelity

Low Fidelity

High Fidelity

Open Discussion

Prompting Required

Quick and Dirty

Early Validation

Sharp Opinions

Self Explanatory

Deliberate and Refined

Concrete Ideas

source: [5]

Low Resolution

High Resolution

Less Details

Focus on core interactions

Quick and Dirty

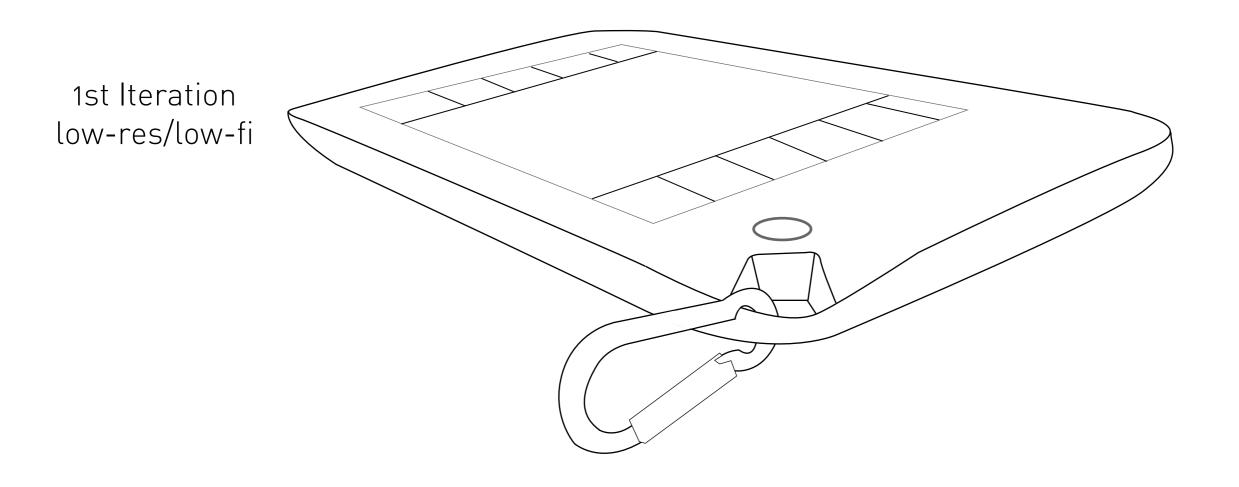
Early Validation

More Details

Focus on the whole

Deliberate and Refined

Concrete Ideas







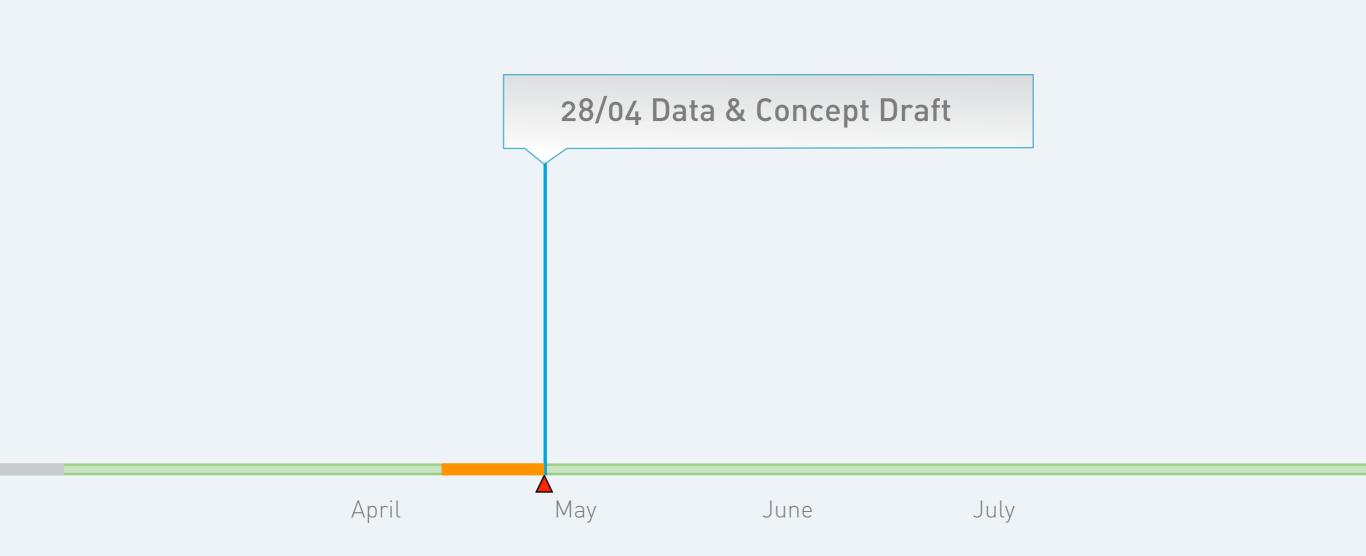
File	Edit	Insert	Slide	Forma
New				ЖN
New from Theme Chooser				
Open			жo	
Open Recent				•
Clo	se			жw
Save			₩S	
Sav	e As			ሰ <mark>ж</mark> Տ
Revert to Saved				
Exp	oort			
Ser	nd To			•
Rec	ord Sli	ideshow		
Cle	ar Rec	ording		
Ch	oose T	heme		
Sav	e Ther	ne		
Page Setup.		p		о́жР
Print			ЖP	

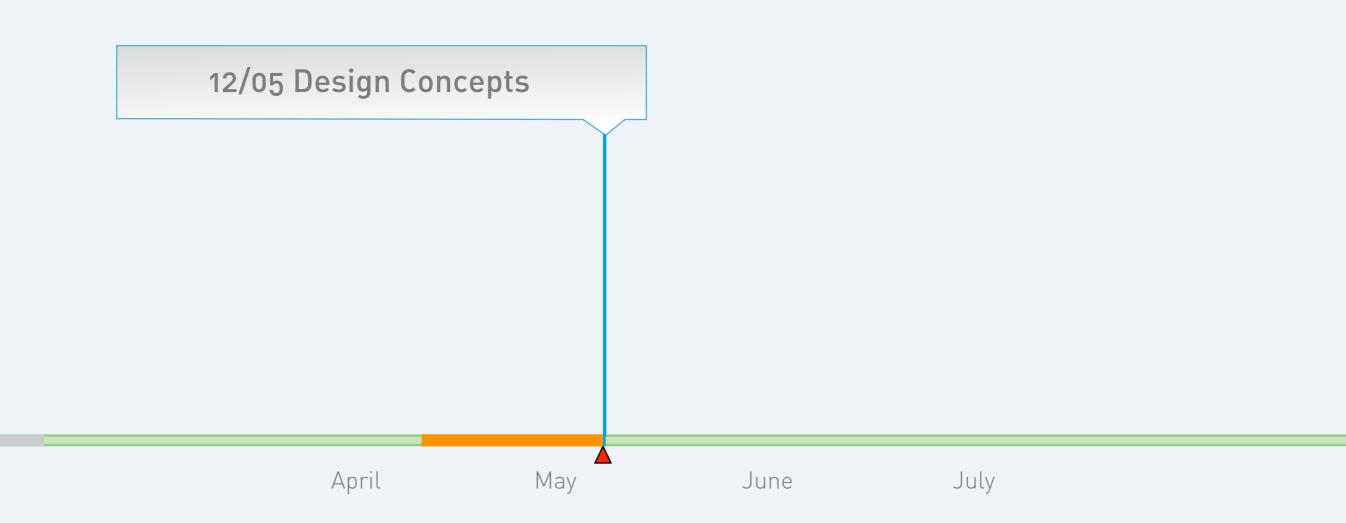
A principle for setting priorities: users will use 20% of the features of your product 80% of the time. Focus the majority of your design and development effort (80%) on the most important 20% of the product.

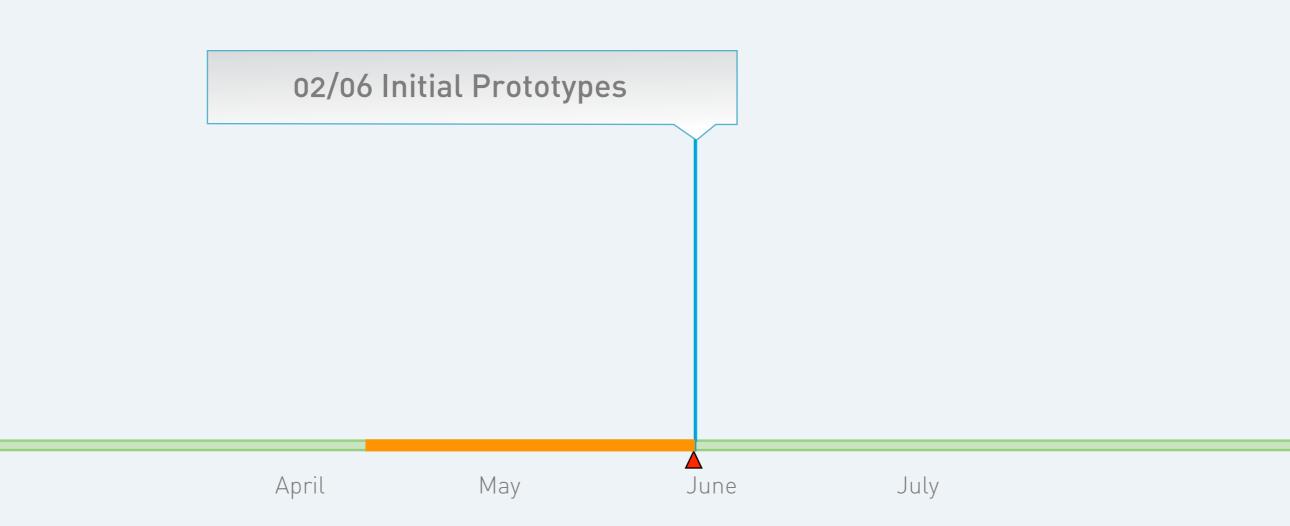
OVERVIEW The Course

Workshop Theme: universal kitchen: adaptive design in age, culture, gender and space

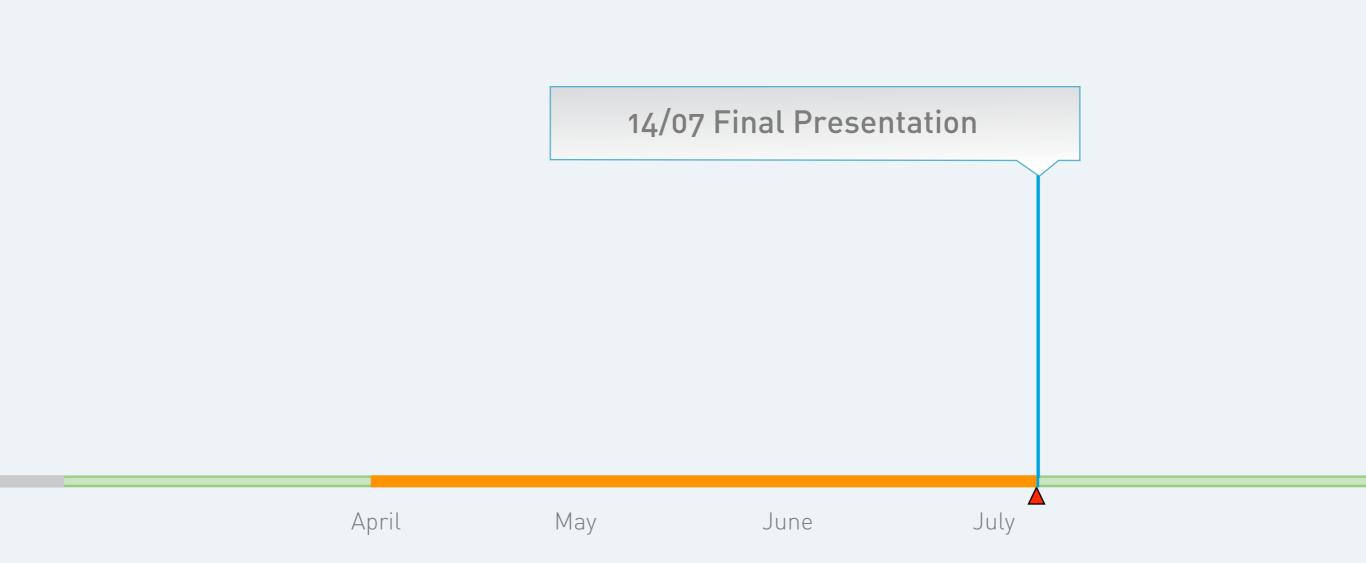












References:

[1] Buxton, W. Sketching User Experiences, Morgan Kaufmann 2007.

[2] Blom, J & Chipchase, J : Contextual and cultural challenges for user mobility research, ACM Press 2005.

- [3] CHI '10 Panel Discussion on User Research, 2010.
- [4] Copenhagen Institute of Interaction Design, User Research Workshop 2008.

[5] Jonas, W. A Scenario for Design, MIT Press 2001.

[6] Norman, D. The Psychology of Everyday Things, Basic Books 1988.

[7] Moggridge, B. Designing Interactions, MIT Press, 2006.

[8] Rogers, Y., Preece, J. & Sharp, H. Interaction Design, Wiley & Sons 2011.

[9] Saffer, D. Designing for Interaction, New Riders 2009.

[10] Walonick, D. Survival Statistics, 2004.